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EARTHQUAKE DATA REPORT
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by

U.S. Geological Survey
NATIONAL EARTHQUAKE INFORMATION CENTER¹

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¹USGS, Denver, Colorado

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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- Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1-15.
- Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.
- Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105-1130.

NOV 01, 1990 00h 04m 51.27±0.64s
40.048 N ± 8.8km 28.749 E ± 6.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KCT 0.36 304 iPg 04 58.80 0.1
IZI 0.63 62 iPg 05 02.80 -1.1
iSg 05 11.30
BNT 0.71 296 ePg 05 05.30 0.1
eSg 05 14.30
EDC 0.74 294 iPg 05 05.00 -0.8
GBZT 0.91 35 ePg 05 09.50 0.8
iSg 05 23.50
HRT 1.04 42 ePg 05 11.80 0.8
eSg 05 25.80
ALT 1.45 133 iPn 05 15.70 -1.9
KHL 1.82 160 ePn 05 25.00 2.0
S.D. = 1.5 on 8 of 8 obs.

* NOV 01, 1990 00h 34m 31.49±1.38s
44.022 N ± 7.2km 8.732 E ± 10.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG), 1.8 (GEN).

FIN 0.42 297 P 34 39.72 -0.4
S 34 44.15
PCP 0.54 346 P 34 42.41 0.1
S 34 50.61
IMI 0.62 260 P 34 43.18 -0.8
S 34 51.33
ROB 0.68 294 P 34 44.05 -0.9
S 34 51.64
SBF 0.95 261 Pg 34 50.00 0.4
Sg 35 02.20
ENR 0.97 283 P 34 49.53 -0.4
S 35 01.00
STV 1.04 283 P 34 50.74 -0.4
S 35 03.18
PZZ 1.27 293 P 34 54.82 -0.3
S 35 10.10
PGF 1.49 172 Pn 34 57.80 -0.6
Sn 35 15.20
FRF 1.58 254 Pn 34 58.50 -1.1
Pg 35 08.00
Sg 35 21.10
RRL 1.66 303 P 35 02.07 1.1
LMR 1.75 248 Pn 35 01.30 -0.8
Pg 35 05.30
Sn 35 20.40
Sg 35 26.30
LRG 1.81 253 Pg 35 04.80 1.9
Sg 35 27.40
CDR 2.17 262 e(Pn) 35 10.50 2.3
e 35 12.40
eSn 35 38.50
S.D. = 1.1 on 14 of 14 obs.

% NOV 01, 1990 00h 37m 57.51±0.62s
45.056 N ± 4.9km 10.515 E ± 8.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SAL 0.55 1 P 38 09.10 0.4
eSg 38 17.90
MDI 0.92 322 Pd 38 14.80 -0.2
eSg 38 29.10
BDI 1.00 177 P 38 17.20 0.8
eSg 38 32.60
CTI 1.27 38 P 38 21.10 -0.1
eSn 38 39.80
PII 1.33 180 P 38 21.40 -0.7
eSg 38 40.30
VAI 1.47 304 P 38 24.00 0.0
FVI 2.21 45 P 38 34.50 -0.2
S.D. = 0.6 on 7 of 7 obs.

% NOV 01, 1990 01h 22m 28.67±1.87s
44.564 N ± 15.3km 7.283 E ± 7.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

PZZ 0.14 246 P 22 32.21 0.1
S 22 34.41
STV 0.32 175 P 22 35.38 0.0

ENR 0.35 164 P 22 39.42
S 22 35.86 -0.1
RDB 0.50 122 P 22 40.38
S 22 46.18
FIN 0.75 118 P 22 43.03 -0.4
S.D. = 0.4 on 5 of 5 obs.

* NOV 01, 1990 01h 56m 44.65±0.43s
55.997 S ± 15.8km 143.195 W ± 7.7km
DEPTH = 10.0km (geophysicist)
5.3mb (8 obs.) 4.8Msz (2 obs.)
SOUTH PACIFIC CORDILLERA (691)
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 01:56:52.3 0.5
Lat 56.49S 0.07 Lon 142.97W 0.09
Dep 15.0 FIX Half-duration 1.8
Moment Tensor: Scale 10**16 Nm
Mrr=-2.04 0.42 Mtt= 2.82 0.54
Mff=-0.78 0.34 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-7.84 0.42
Principal Axes:
T Val= 9.06 Plg= 0 Azm=219
N -2.04 90 180
P -7.02 0 129
Best Double Couple: Mo=8.0*10**16
NP1: Strike=264 Dip=90 Slip=-180
NP2: 354 90 0

SBA 27.76 200 iPd 02 36.00 1.2
e(S) 07 24.80
SPA 34.18 180 iPd 03 32.50 0.6
1.2s 63.38nm 5.4mb
Z 20s 1.80um 4.8Msz
CNB 49.28 265 eP 05 36.70 1.3
1.0s 30.00nm 5.3mb
CAN 49.48 265 eP 05 37.50 0.6
TOO 49.81 260 iPd 05 40.40 1.0
0.9s 24.00nm 5.2mb
BWA 50.46 265 eP 05 43.00 -1.4
BRS 53.32 275 eP 06 07.50 1.6
CMS 54.10 266 eP 06 12.00 0.5
MAW 55.20 192 eP 06 18.00 -1.2
1.0s 35.00nm 5.3mb
CTA 62.72 274 iPd 07 12.20 0.2
1.0s 31.00nm 5.5mb
QIS 66.08 268 eP 07 33.00 -0.8
ARE 66.28 84 eP 07 35.00 -0.5
ASPA 66.81 262 eP 07 34.50 -4.0X
1.1s 32.00nm 5.4mb
Z 21s 0.50um 4.7Msz
CNCB 67.97 87 P 07 47.00 0.5
LPB 68.13 87 P 07 48.00 0.7
ZOB0 68.33 87 Pc 07 48.60 -0.1
1.2s 20.95nm 5.2mb

CCH 68.54 89 P 07 50.00 0.2
WRA 69.52 265 P 07 53.00 -2.4
0.9s 18.00nm 5.2mb
WB5 69.56 265 eP 07 54.00 -1.6
SIV 72.51 93 P 08 12.60 -0.9
PPD 73.06 104 e(P) 08 16.40 -0.2
SLR 98.27 172 eP 10 30.00 6.4X
INK 124.20 4 ePKP 15 27.00 -16.4X
BCAO 126.54 157 ePKPc 15 48.90 -0.7
0.5s 3.00nm
MBC 132.86 8 ePKP 16 01.50 1.8
PKI 135.29 251 PKP 16 00.00 -6.3X
EJIF 145.54 107 ePKP 16 26.00 2.1X
EVAL 145.68 104 ePKP 16 25.00 0.9
AFC 147.17 108 ePKP 16 29.00 2.2X
ENIJ 147.67 109 ePKP 16 29.60 2.2X
TOL 148.80 104 ePKP 16 33.30 4.2X
GUD 149.27 103 ePKP 16 35.00 5.0X
DAG 151.42 23 ePKP 16 38.00 6.1X
0.9s 5.04nm
MAIO 155.00 228 ePKP 16 37.00 -1.2
S.D. = 1.1 on 24 of 34 obs.

& NOV 01, 1990 02h 48m 16.10s
31.710 N 115.940 W
DEPTH = 6.0km (geophysicist)
BAJA CALIFORNIA (48)

<PAS-P>. ML 3.3 (PAS).

IKP 0.95 351 eP 48 33.60 -1.0
iS 48 45.50
BAR 1.15 328 ePc 48 36.60 -1.4
eS 48 51.00
CPE 1.53 320 eP 48 43.00 -0.9
GLA 1.64 35 eP 48 43.80 -1.8
PLM 1.81 335 iPd 48 47.90 -0.4
PEC 2.41 335 eP 48 55.70 -1.0
ABL 4.17 320 eP 49 21.00 -0.8
BCH 4.90 316 eP 49 31.80 -0.4
TNP 6.44 351 e(P) 49 45.00 -9.1
9 obs. associated

NOV 01, 1990 03h 16m 38.65±0.93s
36.349 N ± 5.0km 9.225 W ± 8.7km
DEPTH = 16.5 ± 6.9 km
WEST OF GIBRALTAR (384)
MD 3.6 (MDD), 3.5 (RBA).

EVAL 2.34 57 ePn 17 17.60 0.6
eSn 17 43.40
EJIF 3.03 87 ePn 17 28.00 1.2
eSn 18 02.00
EPRU 3.27 78 ePn 17 31.30 1.1
eSn 18 08.00
AVE 3.39 153 iP 17 32.50 0.6
i 17 34.40
eS 18 06.50
i 18 08.50
i 18 11.50
EHOR 3.50 64 ePn 17 33.80 0.3
eSn 18 12.60
IFR 4.39 129 iP 17 45.50 -0.8
iS 18 30.50
i 18 32.50
EPLA 4.46 33 ePn 17 46.80 -0.3
eSn 18 35.10
AFC 4.65 77 ePn 17 50.70 0.7
eSn 18 41.40
EBAN 4.70 66 ePn 17 49.90 -0.7
eSn 18 39.60
TOL 5.39 48 ePg 18 56.50 56.2X
eSn 19 16.50
eSb 19 25.50
iSg 19 34.00
TIO 5.65 163 iP 18 03.80 -0.3
iS 19 02.50
i 19 03.80
ENIJ 5.67 82 ePn 18 03.80 -0.4
EZAM 5.81 4 ePn 18 06.90 0.8
eSn 19 09.00
EVIA 5.81 65 ePn 18 05.20 -1.1
eSn 19 06.00
GUD 5.85 41 ePn 18 05.90 -0.9
eSn 18 08.60
ERUA 6.25 14 ePn 18 12.10 -0.2
eSn 19 19.80
STS 6.55 4 ePn 18 16.80 0.2
ETOR 7.17 49 ePn 18 24.90 -0.5
EMON 7.23 11 ePn 18 25.90 -0.2
eSn 19 41.70

S.D. = 0.8 on 18 of 19 obs.

NOV 01, 1990 03h 39m 43.90±0.14s
3.533 S ± 2.9km 139.367 E ± 3.5km
DEPTH = 35.3km (7 depth phases)
5.8mb (42 obs.) 5.2Msz (16 obs.)
WEST IRIAN (201)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Location:
Origin Time 03:39:47.9 0.2
Lat 3.60S 0.02 Lon 139.18E 0.02
Dep 59.0 2.2 Half-duration 2.2
Moment Tensor: Scale 10**17 Nm
Mrr= 1.36 0.07 Mtt=-2.19 0.12
Mff= 0.83 0.14 Mrt= 2.08 0.11
Mrf= 0.40 0.11 Mtf= 3.71 0.09
Principal Axes:
T Val= 4.20 Plg=30 Azm=310
N 0.86 56 100
P -5.05 14 211
Best Double Couple: Mo=4.6*10**17
NP1: Strike=347 Dip=59 Slip= 167

01d 03h

[illegible]

BAO	159.61	159	ePKP	59	43.00	1.9
PDOR	163.97	185	ePKP	59	45.80	0.4
			e	00	40.40	
SOB1	167.34	179	ePKP	59	49.30	1.1
S.D. = 1.0 on 164 of 211 obs.						

?	NOV 01, 1990	03h 39m	58.71± 1.41s			
44.364 N ±13.3km		7.186 E ±16.0km				
DEPTH = 10.0km		(geophysicist)				
NORTHERN ITALY				(545)		
ML 1.8 (GEN).						

PZZ	0.15	337	P	40	02.38	0.0
			S	40	04.63	
STV	0.16	140	P	40	02.38	0.0
			S	40	04.60	
ENR	0.22	129	P	40	03.47	0.0
			S	40	06.37	
ROB	0.50	98	P	40	08.79	0.0
S.D. = 0.0 on 4 of 4 obs.						

NOV 01, 1990		04h 03m	19.06± 0.43s			
6.704 S ± 4.6km		125.636 E ± 6.2km				
DEPTH = 515.3 ± 5.8 km						
5.1mb (26 obs.)						
BANDA SEA				(280)		
CENTROID, MOMENT TENSOR				(HRV)		
Data Used: GDSN						
L.P.B.: 11S, 16C						
Centroid Location:						
Origin Time		04:03:21.6		1.7		
Lat 6.81S		0.14 Lon 125.62E		0.14		
Dep 529.1		7.1 Half-duration		1.8		
Moment Tensor;		Scale 10**17 Nm				
Mrr= 1.13		0.15 Mtt=-0.66		0.17		
Mff=-0.47		0.21 Mrt=-1.01		0.34		
Mrf= 1.18		0.26 Mtf=-0.66		0.23		
Principal Axes:						
T Vol= 2.07		Plg=59		Azm=231		
N		-0.63		3 135		
P		-1.44		31 43		
Best Double Couple: Mo=1.8*10**17						
NP1: Strike=122 Dip=14 Slip= 76						
NP2: 316 76 94						

KUPT	3.97	210	eP	04	31.30	-7.7X
			eS	05	27.80	
MTN	8.16	139	iPd	05	18.00	-0.5
KNA	9.50	161	iPd	05	32.00	-0.5
	0.4s	155.00nm				5.7mb
MBL	15.43	201	iPd	06	33.70	0.2
	0.4s	62.00nm				5.6mb
JAY	15.58	75	ePc	06	36.00	1.0
WB5	15.60	148	eP	06	34.30	-0.9
			e	09	19.20	
ASPA	18.64	156	iPc	07	05.60	0.7
	0.4s	59.10nm				5.6mb
		iS	10	07.00		
		iScP	13	53.30		
		iScS	17	31.40		
OIS	19.31	137	eP	07	11.00	-0.4
WARB	19.40	177	eP	07	13.10	1.0
	0.4s	57.00nm				5.6mb
MEKA	20.92	198	eP	07	26.20	-0.2
PMG	21.47	99	eP	07	30.50	-1.0
	1.0s	70.00nm				5.2mb
CTA	24.03	126	iPd	07	54.00	-0.6
	0.9s	32.77nm				4.9mb
FORR	24.13	175	eP	07	54.20	-1.2
PSI	28.25	288	ePc	08	32.40	0.4
OIZ	29.93	329	eP	08	46.50	0.0
COO	34.21	137	eP	09	24.00	1.4
BWA	34.69	146	eP	09	28.50	1.9
		e	09	59.80		
TDO	35.64	152	iPc	09	35.70	1.3
	0.6s	16.00nm				4.8mb
		e	11	09.30		
CAN	35.67	146	eP	09	35.80	1.1
		e	10	13.80		
CNB	35.87	146	eP	09	37.00	0.6
	1.0s	21.00nm				4.7mb
CHG	36.54	314	eP	09	43.00	1.0
CHTO	36.54	314	iP	09	42.90	0.9
	0.8s	17.02nm				4.7mb
SSE	37.82	354	P	09	52.00	-0.3
	1.0s	68.00nm				5.2mb
		PP	11	35.50		

01d 04h

WHN	38.58	344	Pd	10	00.90	2.4
	1.0s	100.00nm				5.3mb
NJ2	39.08	351	Pd	10	04.00	1.5
	1.0s	100.00nm				5.3mb
DZM	42.21	116	iPd	10	27.10	-0.9
CD2	42.87	332	P	10	33.00	0.0
	0.6s	30.00nm				5.0mb
XAN	43.50	340	P	10	37.50	-0.5
MAT	44.60	14	eP	10	45.00	-1.5
			eS	16	42.00	
TIY	45.87	345	Pd	10	55.80	-0.5
LZH	47.23	336	Pd	11	07.50	0.7
	1.5s	57.00nm				4.9mb
			PcP	12	29.50	
			PP	13	03.00	
			S	17	21.00	
BJI	47.32	350	eP	11	12.00	4.8X
	1.3s	23.00nm				4.5mb
SNY	48.33	358	eP	11	14.20	-0.6
	1.0s	30.00nm				4.7mb
HHC	49.06	346	eP	11	20.60	0.1
LSA	49.07	319	P	11	22.20	1.0
MDJ	51.21	4	eP	11	36.50	0.4
	1.0s	40.00nm				4.8mb
GUN	51.56	314	P	11	39.72	0.3
	0.4s	76.00nm				5.4mb
PKI	51.70	313	P	11	40.54	0.1
	0.4s	46.00nm				5.2mb
GTA	51.73	335	eP	11	40.30	0.0
	1.0s	30.00nm				4.6mb
			ScP	15	52.40	
KKN	51.92	313	P	11	41.98	0.1
	0.5s	54.00nm				5.2mb
GBA	51.93	293	P	11	41.00	-0.9
DMN	51.94	313	P	11	42.36	0.2
	0.5s	32.00nm				4.9mb
HYB	52.32	298	eP	11	43.00	-1.7
	1.0s	70.00nm				5.0mb
GKN	52.51	313	P	11	45.32	-0.7
	0.4s	100.00nm				5.5mb
NDI	58.41	310	iPd	12	26.00	-1.0
	0.4s	33.90nm				5.1mb
WMO	60.86	329	P	12	43.50	0.4
			S	20	20.50	
MAIO	75.16	310	iPc	14	10.80	1.0
	1.1s	22.97nm				4.6mb
HFS	106.63	331	ePKP	20	45.60	-0.7
	1.2s	14.00nm				
BSF	114.11	320	ePKP	21	00.10	-1.0
LPG	114.83	317	ePKP	21	02.70	-0.1
LPL	114.83	317	ePKP	21	02.10	-0.6
	0.4s	1.45nm				
LOR	116.18	320	ePKP	21	04.20	-0.7
	0.4s	1.70nm				
LBF	116.20	319	ePKP	21	04.40	-0.6
	0.5s	2.90nm				
SSF	116.47	320	ePKP	21	05.00	-0.5
	0.4s	2.85nm				
AVF	116.66	319	ePKP	21	05.00	-0.8
	0.4s	1.45nm				
BGF	117.07	319	ePKP	21	06.30	-0.3
	0.5s	6.55nm				
TCF	117.58	319	ePKP	21	07.40	-0.2
LSF	118.03	319	ePKP	21	07.80	-0.7
CAF	118.15	318	ePKP	21	09.40	0.6
LPO	118.82	318	ePKP	21	10.60	0.6
	0.5s	3.65nm				
LPF	118.96	322	ePKP	21	09.60	-0.5
	0.4s	5.15nm				
MFF	118.97	320	ePKP	21	09.60	-0.6
	0.6s	5.40nm				
LFF	119.03	318	ePKP	21	11.00	0.6
	0.7s	5.50nm				
EPF	119.98	316	ePKP	21	12.80	0.5
	0.5s	1.80nm				
KIC	130.72	273	PKP	21	33.80	0.1
LIC						

CCH	153.39	154	PKP	22	22.00	10.3X
ZOBO	153.42	149	PKP	22	12.00	-1.1
S.D. = 0.9 on 66 of 75 obs.						

?	NOV	01,	1990	04h 06m	57.05±	5.46s
				30.630 S	±33.8km	177.940 E ±73.6km
				DEPTH = 33.0km (normal)		
				4.5mb (1 obs.)		
NORTH OF NEW ZEALAND						(176)
PUZ	7.43	178	P	08	46.10	0.2
				eS	10	07.70
PGZ	10.06	187	eP	09	22.50	0.2
MNG	10.17	191	eP	09	22.10	-1.7
				eS	11	14.20
KIW	10.50	193	eP	09	27.40	-1.0
CAW	10.71	192	eP	09	31.10	-0.1
MRW	10.90	193	P	09	36.00	2.3
				S	11	34.00
KHZ	12.28	195	eP	09	52.60	0.2
WRA	40.61	275	P	14	35.00	-0.6
				0.5s	4.60nm	4.5mb
WB5	40.61	275	eP	14	36.20	0.6
				S.D. = 1.3 on 9 of 9 obs.		

				NOV	01,	1990
				05h 10m	26.39±	0.45s
				38.190 N	± 4.3km	23.389 E ± 6.2km
				DEPTH = 10.0km (geophysicist)		
GREECE						(364)
				MD 3.4	(ATH).	ML 3.1 (THE).
ATH	0.34	130	iPg	10	32.60	-0.8
				eSg	10	36.80
NEO	1.12	353	iPbc	10	48.50	1.1
				eSb	11	05.70
AGG	1.17	315	ePd	10	47.96	-0.4
				eS	11	03.28
EVR	1.44	301	ePb	10	53.20	0.6
VLI	1.51	194	ePb	10	51.00	-2.5
				eSb	11	11.50
ITM	1.54	229	ePb	10	53.20	-0.7
PAIG	1.75	7	eP	10	56.01	-0.9
				eS	11	16.68
LIT	2.03	340	ePc	11	00.32	-0.8
				eS	11	24.92
APE	2.04	123	ePb	11	03.30	2.2
PLG	2.18	1	ePn	11	03.00	-0.3
OUR	2.19	12	ePd	11	02.20	-1.1
VLS	2.21	271	ePn	11	04.50	0.9
KZN	2.46	330	ePn	11	08.30	1.1
SOH	2.63	359	ePc	11	09.00	-0.6
IGT	2.74	300	eP	11	11.76	0.6
				eS	11	46.76
EZN	2.81	54	eP	11	17.00	4.8X
VAM	2.85	167	ePn	11	13.60	0.8
GRG	2.87	345	ePd	11	12.84	-0.2
KNT	2.99	353	ePc	11	14.36	-0.4
				eS	11	48.20
FNA	3.02	330	ePd	11	15.84	0.6
IZM	3.05	85	eP	11	22.00	6.4X
VAY	3.19	349	eP	11	22.50	5.0X
NPS	3.42	148	ePn	11	21.50	0.6
S.D. = 1.1 on 20 of 23 obs.						

•	NOV	01,	1990	06h 06m	53.25±	0.56s
				4.479 S	± 9.5km	104.735 W ±11.3km
				DEPTH = 10.0km (geophysicist)		
				5.1mb (16 obs.)	5.5Msz (4 obs.)	
NORTHERN EASTER I. CORDILLERA						(694)
Ms 5.6 (BRK).						
CENTROID. MOMENT TENSOR						(HRV)
Data Used: GDSN						
L.P.B.: 18S. 33C						
Centroid Location:						
Origin Time						06:07: 0.2 0.4
Lat 4.44S						0.03 Lon 104.95W 0.03
Dep 15.0 FIX						Half-duration 2.0
Mament Tensor:						Scale 10**17 Nm
Mrr=-0.10 0.05						Mtt= 0.32 0.05
Mff=-0.22 0.07						Mrt= 0.00 0.00
Mrf= 0.00 0.00						Mtf= 1.67 0.05
Principal Axes:						
T Vol= 1.74						P1g= 0 Azm=140
N						-0.11 90 180
P						-1.64 0 50
Best Double Couple: Mo=1.7*10**17						

NP1:Strike=185			Dip=90			Slip=-180		
NP2:			275			90		
21.75	13	(P)	11	55.50	8.4X			
22.84	20	(P)	12	04.00	5.9X			
22.88	32	(P)	12	02.00	3.7X			
23.30	13	(P)	12	16.00	13.5X			
24.16	14	(P)	12	16.00	4.8X			
24.19	15	(P)	12	16.50	5.2X			
24.25	12	(P)	12	16.00	4.1X			
24.28	8	(P)	12	17.50	5.7X			
24.42	17	(P)	12	19.50	6.4X			
25.41	18	(P)	12	28.00	5.4X			
27.96	79	eP	12	50.00	3.3X			
28.46	62	e(P)	12	52.00	1.3			
20s	11.52um				5.5Msz			
28.57	107	eP	12	53.50	1.7			
1.2s	23.44nm				4.9mb			
31.94	74	eP	13	20.00	-2.1			
37.79	111	P	14	10.00	-2.4			
1.2s	7.43nm				4.3mb			
	S		20	16.00				
	LR		23	08.00				
38.65	344	eP	14	20.00	1.2			
39.24	358	eP	14	24.50	0.6			
1.1s	16.14nm				4.6mb			
39.34	344	eP	14	25.00	0.3			
39.48	8	e(P)	14	27.00	1.3			
39.64	13	e(P)	14	28.40	1.4			
39.84	345	eP	14	27.00	-1.7			
39.90	112	P	14	33.00	3.2X			
40.08	344	eP	14	31.00	0.3			
40.46	343	eP	14	37.00	3.3X			
40.50	343	eP	14	33.00	-1.3			
40.86	343	eP	14	39.00	1.9			
41.16	345	eP	14	41.00	1.4			
41.43	342	P	14	42.00	0.0			
41.68	16	P	14	43.90	0.2			
41.86	344	eP	14	46.00	0.7			
41.96	343	eP	14	47.00	0.9			
42.01	341	P	14	47.00	0.4			
42.27	21	P	14	48.20	-0.3			
43.07	341	ePc	14	54.60	-0.7			
43.56	343	ePc	14	57.00	-2.0			
43.59	133	e(P)	15	00.00	0.5			
43.81	135	eP	15	02.80	1.5			
43.90	346	P	15	03.00	0.9			
1.4s	27.08nm				4.9mb			
43.96	359	P	15	03.70	1.1			
1.3s	18.23nm				4.7mb			
43.99	18	P	15	02.80	0.3			
44.01	359	P	15	04.90	2.0			
1.6s	46.30nm				5.1mb			
44.33	24	P	15	05.20	-0.2			
44.46	28	P	15	05.70	-0.7			
44.73	342	ePc	15	06.30	-2.3			
44.84	28	P	15	09.80	0.4			
45.07	351	P	15	11.90	0.5			
45.07	353	P	15	12.00	0.4			
46.46	342	ePc	15	20.20	-2.1			
47.24	355	P	15	27.50	-1.1			
1.6s	65.79nm				5.5mb			
47.72	342	ePc	15	27.00	-5.2X			
50.55	353	eP	15	53.70	-0.5			
53.32	344	P	16	14.50	-0.3			
53.63	350	P	16	15.30	-1.7			
1.0s	40.00nm				5.4mb			
18s	3.70um				5.5Msz			
54.54	114	e(P)	16	23.40	-0.7			
54.93	355	eP	16	26.00	-0.5			
1.0s	57.00nm				5.6mb			
55.12	348	eP	16	27.00	-0.9			
1.0s	26.00nm				5.2mb			
56.80	106	eP	16	41.00	0.3			
57.94	354	eP	16	47.00	-1.0			
59.04	2	eP	16	56.00	0.5			
1.1s	23.00nm				5.2mb			
61.83	112	e(P)	17	15.20	-0.1			
63.49	98	eP	17	24.90	-1.6			
	e		17	30.80				

FBA 76.08 343 eP 18 42.60 0.1
1.3s 16.51nm 5.0mb
SVW 76.25 337 eP 18 43.20 -0.4
IMA 78.68 342 eP 18 57.20 0.1
MBC 81.05 356 eP 19 11.50 2.1
1.5s 39.00nm 5.2mb
SPA 85.55 180 iPd 19 33.80 1.0
1.7s 34.38nm 5.3mb
Z 20s 1.80um 5.5msz
WRA 117.11 245 PKP 25 41.00 -0.2
0.8s 1.60nm
LZH 139.00 324 (PKP) 26 30.00 7.4X
Z 26s 0.63um 5.2mszX
CHG 152.84 304 ePKP 26 52.90 7.3X
S.D. = 1.2 on 55 of 73 obs.

NOV 01, 1990 06h 57m 01.11 ± 1.42s
5.707 S ± 7.6km 150.132 E ± 9.4km
DEPTH = 159.6 ± 12.9 km
4.7mb (3 obs.)

NEW BRITAIN REGION (192)

LAT 3.25 253 eP 57 55.00 2.4
eS 58 25.00
PMG 4.72 219 iP 58 08.90 -2.8
iS 59 04.00
RMO 20.71 183 iPc 01 29.80 -0.6
i 01 47.00
WB5 20.82 226 iPc 01 31.70 0.1
eS 05 17.00
eScP 09 01.00
BRS 21.71 174 iPc 01 40.50 0.2
i 02 02.00
DZM 22.66 137 iPc 01 49.90 0.2
KNA 23.22 243 eP 01 55.00 0.0
ASPA 23.73 220 iPc 02 00.90 1.0
0.4s 10.90nm 4.7mb
eS 06 03.90
WARB 30.30 225 eP 03 00.10 0.6
FORR 32.46 217 eP 03 18.00 -0.3
MBL 33.13 239 iPc 03 23.70 -0.6
0.3s 7.00nm 4.8mb
NANU 37.36 240 eP 03 59.70 -0.3
TCW 41.42 152 P 04 33.90 0.6
MNG 41.53 151 P 04 34.50 0.3
CAW 41.71 151 P 04 36.20 0.5
WDW 41.80 152 eP 04 36.30 -0.1
MTW 41.95 151 P 04 37.50 -0.2
BLW 42.10 151 eP 04 38.70 -0.2
MAT 43.49 346 eP 04 49.00 -1.2
SSE 45.87 325 Pd 05 09.50 0.3
1.0s 10.00nm 4.4mb
Z 20s 0.60um 4.5msz
NJ2 47.93 324 eP 05 20.50 -4.7X
WHN 49.72 319 Pc 05 40.00 1.0
CN2 54.09 338 P 06 11.00 -0.4
XAN 55.49 318 P 06 20.80 -0.9
TIY 55.65 324 eP 06 17.80 -5.1X
Z 20s 0.80um 4.8msz
CD2 57.34 312 P 06 34.80 -0.1
Z 21s 0.94um 4.9msz
PPD 145.34 143 ePKP 16 22.80 0.5
S.D. = 1.0 on 25 of 27 obs.

% NOV 01, 1990 07h 55m 49.32 ± 0.80s
40.455 N ± 7.0km 23.573 E ± 10.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 1.8 (THE).

OUR 0.34 111 ePd 55 56.36 0.1
eS 56 00.68
SOH 0.40 336 ePd 55 57.64 0.1
eS 56 02.52
PAIG 0.53 171 ePc 56 00.04 -0.1
eS 56 07.08
SRS 0.66 1 ePc 56 02.28 -0.2
eS 56 11.84
KNT 0.87 324 ePc 56 06.20 0.1
eS 56 18.24
S.D. = 0.2 on 5 of 5 obs.

? NOV 01, 1990 10h 34m 02.93 ± 1.39s
16.651 N ± 11.7km 62.324 W ± 16.2km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)

NEV 0.54 334 iPd 34 13.94 -0.1
S 34 31.00
BPA 0.60 49 eP 34 15.44 0.5
S 34 33.00
SEG 0.82 107 ePd 34 19.08 1.0
S 34 38.00
PAG 0.87 135 eP 34 20.00 1.1
S 34 40.30
DOG 0.92 132 ePd 34 20.65 1.2
SFG 1.15 110 eP 34 22.07 -0.7
DEG 1.26 105 ePd 34 22.56 -1.8
S 34 44.00
BBL 1.39 144 eP 34 25.00 -1.2
S.D. = 1.3 on 8 of 8 obs.

NOV 01, 1990 13h 48m 02.51 ± 0.64s
7.202 S ± 6.8km 76.069 W ± 14.0km
DEPTH = 112.3 ± 12.6 km
4.6mb (1 obs.)

NORTHERN PERU (111)

NNA 4.82 189 iPc 49 14.20 0.1
0.5s 10.56nm
TUNG 6.21 337 eP 49 54.00
VC1 6.92 340 eP 49 32.50 -1.1
GGP 7.42 340 eP 49 43.00 -0.4
CAYA 7.48 345 eP 49 51.00 0.7
COTA 7.82 343 eP 49 50.70 -0.4
ZOB0 11.90 140 P 49 57.00 1.3
LPB 12.11 141 eP 50 50.00 -0.3
i 51 05.00
CNCB 12.40 141 eP 50 53.00 0.0
i 51 08.00
CCH 14.01 137 eP 51 12.00 -5.6X
SOB1 34.86 96 e(P) 51 45.30 0.1
KIC 72.42 81 P 59 18.80 -0.2
SPA 82.85 180 iPd 00 15.50 0.0
1.0s 8.00nm 4.6mb
Z 20s 1.13um 5.2msz
WRA 139.71 227 PKP 07 13.00 -6.8X
0.5s 2.80nm
LZH 151.25 0 (PKP) 07 43.50 4.9X
1.5s 14.00nm
PKI 153.19 39 PKP 07 48.20 6.4X
GBA 153.19 74 PKP 07 48.40 6.7X
0.5s 2.40nm
S.D. = 0.7 on 12 of 17 obs.

% NOV 01, 1990 15h 18m 00.62 ± 0.84s
40.643 N ± 7.2km 15.608 E ± 6.7km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO 0.24 250 P 18 06.00 0.2
eSg 18 10.80
MGR 0.51 185 P 18 10.60 -0.3
eSg 18 19.70
MMN 0.81 159 P 18 15.40 -0.8
eSg 18 28.50
ORI 0.86 132 P 18 17.00 -0.3
eSg 18 31.10
CSI 1.01 149 P 18 19.10 -0.7
BAI 1.07 63 P 18 19.00 -1.7
eSg 18 32.30
TDS 1.13 150 P 18 21.90 0.1
eSn 18 39.50
ROI 1.30 145 P 18 26.10 1.4
eSg 18 47.00
CZI 1.48 164 P 18 26.70 -0.5
SDI 1.72 309 P 18 31.00 0.2
LCI 1.82 99 P 18 34.50 2.4
eSn 18 58.70
S.D. = 1.2 on 11 of 11 obs.

& NOV 01, 1990 15h 33m 46.50s
38.698 N 119.542 W
DEPTH = 6.0km

CALIFORNIA-NEVADA BORDER REGION (40)

<BRK>. ML 3.2 (BRK). Felt (111)
at Topaz Lake, Nevada and
Morkleeville, California.

CMB 0.94 225 iPc 34 03.50 -1.3
iS 34 16.10
MNA 1.12 103 eP 34 06.20 -1.7
KVN 1.18 72 eP 34 07.70 -1.3

FRI 1.71 184 iPd 34 17.20 0.3
iS 34 39.60
ORV 1.75 300 e(P) 34 15.80 -1.7
TNP 1.93 108 eP 34 20.00 -0.3
ARN 2.07 230 eP 34 22.70 0.5
MHC 2.14 231 ePc 34 24.30 0.9
ZSP 2.26 251 eP 34 27.40 2.4
BKS 2.27 250 iPc 34 27.70 2.5
BRK 2.29 250 e(P) 34 26.30 0.9
MIN 2.29 317 ePc 34 27.80 2.2
LLA 2.36 209 ePd 34 26.60 0.2
SAO 2.45 219 eP 34 27.80 0.1
PCC 2.54 243 iPc 34 29.50 0.6
PRI 2.70 200 e(P) 34 33.50 2.1
LBFM 3.20 326 e(P) 34 42.00 3.5
17 obs. associated

? NOV 01, 1990 17h 08m 47.93 ± 5.69s
17.140 N ± 25.8km 96.989 W ± 26.4km
DEPTH = 152.5 ± 55.6 km

OAXACA, MEXICO (60)

OXX 0.26 103 iPc 09 10.57 0.5
iS 09 21.75
IISM 1.88 349 iP 09 21.66 -0.4
(S) 09 40.99
IIT 2.25 326 (P) 09 31.00 4.1X
PPM 2.47 321 iP 09 29.09 -0.7
iS 09 47.78
IIA 2.55 322 (P) 09 30.24 0.0
(S) 09 45.15
LVVM 2.63 11 iP 09 30.97 -0.3
(S) 09 53.22
III 2.66 298 iP 09 31.54 -0.4
iS 09 56.00
ACX 2.76 265 (P) 09 32.24 -0.6
CRX 3.41 312 (P) 09 43.50 2.0
S.D. = 1.2 on 8 of 9 obs.

NOV 01, 1990 17h 52m 26.42 ± 0.38s
18.094 S ± 4.7km 178.427 W ± 3.4km
DEPTH = 601.4 ± 4.6 km
5.0mb (45 obs.)

FIJI ISLANDS REGION (181)

MBU 2.94 292 eP 53 47.00 1.2
DZM 14.75 252 iPc 55 33.10 1.0
iS 58 09.30
HBZ 19.64 188 eP 56 18.90 0.7
NOZ 20.68 188 eP 56 27.30 -0.3
HNR 22.68 289 eP 56 45.00 -0.9
MNG 23.05 192 eP 56 47.60 -1.5
0.2s 7.00nm 4.9mb
KHZ 25.19 194 eP 57 06.80 -1.1
LTZ 25.85 196 eP 57 12.40 -1.4
AFR 27.27 93 iP 57 26.50 0.2
0.6s 20.00nm 4.9mb
PAE 27.45 94 iP 57 28.00 0.2
0.6s 10.00nm 4.6mb
PPT 27.46 93 iP 57 28.30 0.3
0.6s 25.00nm 5.0mb
TVO 27.75 94 iP 57 30.70 0.2
0.6s 15.00nm 4.8mb
BRS 28.07 246 iPc 57 33.50 0.3
PMO 29.41 89 iP 57 45.10 0.4
0.6s 20.00nm 4.9mb
VAH 29.62 89 iP 57 46.60 0.1
0.6s 10.00nm 4.6mb
TPT 29.68 89 iP 57 47.20 0.2
0.6s 20.00nm 4.9mb
RUV 29.86 89 iP 57 48.90 0.3
0.6s 15.00nm 4.8mb
RMO 31.42 249 iPd 58 01.30 -0.4
0.6s 47.00nm 5.3mb
CNB 33.30 233 iPd 58 19.40 1.9
0.4s 11.00nm 4.8mb
CTA 33.40 261 iPd 58 18.60 0.2
0.9s 85.71nm 5.4mb
PMG 34.48 280 iPd 58 27.90 0.6
0.9s 327.73nm 6.0mb
CMS 34.92 241 iPd 58 32.00 1.2
0.8s 32.00nm 5.0mb

YYY 36.67 284 eP 58 46.00 0.5

TOO 37.04 231 iPc 58 49.60 1.4
0.6s 14.00nm 4.8mb

OIS 39.60 259 iPd 59 08.70 -0.5

ADE 41.52 237 iPd 59 25.00 0.7

01d 17b

	0.8s	50.75nm		5.1mb		0.9s	28.99nm		5.2mb	FVI	150.11	344 PKP	11	10.00	4.6X		
JAY	42.94	286 ePd	59	35.70	0.0		pP	06	21.40	549kmX	AKSR	150.14	286 iPKPd	11	13.00	6.8X	
	1.0s	112.20nm			5.3mb	CD2	89.15	303 P	04	21.60	1.4	AMAN	150.19	287 iPKPd	11	13.00	6.8X
WB5	44.56	260 iPd	59	47.30	-0.9	LZH	90.99	308 iPd	04	29.50	0.8	SAX	150.23	349 ePKPc	11	07.00	1.0
		iPcP	01	18.00			1.2s	1052.00nm			6.7mb X	OGA	150.27	347 iPKPc	11	06.40	0.4
		eS	05	36.80		INK	92.07	15 ePd	04	32.10	-0.6			i	11	12.20	
		iScP	05	45.00		YKA	94.51	25 eP	04	43.20	-0.8	SRS	150.28	325 ePKP	11	10.70	4.8X
WRA	44.58	260 P	59	47.00	-1.3		0.6s	2.40nm			4.6mb	OUR	150.60	324 ePKP	11	11.80	5.4X
	0.6s	128.60nm			5.6mb	GTA	95.14	310 P	04	47.80	0.3	SOH	150.61	325 ePKP	11	11.50	5.0X
ASPA	44.73	254 iPd	59	49.30	-0.1		0.8s	10.00nm			5.1mb	OSS	150.62	348 ePKPc	11	06.80	0.3
	0.7s	381.30nm			6.0mb	MBC	100.53	12 ePd iff	05	10.50	-0.3	KNT	150.62	326 ePKP	11	11.50	5.1X
Z	18s	0.10um			3.8MsZ	MAIO	126.16	302 iPKPc	10	23.00	-0.3	TRI	150.66	342 PKP	11	12.30	6.0X
		iPcP	01	18.00		PDCR	129.62	124 e(PKP)	10	29.70	-0.6	LLS	150.66	350 ePKPd	11	07.00	0.4
		iS	05	41.50		SOB1	130.06	119 ePKP	10	30.30	-0.9	VAY	150.68	327 iPKP	11	11.50	5.0X
		iScS	08	40.70		BUL	133.66	216 iPKPc	10	30.00	-8.0X		0.8s	500.00nm			
GUA	47.91	309 iPd	00	13.30	-0.4		1.0s	14.00nm				SKO	150.78	329 iPKPd	11	22.70	
	0.8s	316.42nm			5.9mb	NB2	136.56	353 PKP	10	29.60	-12.6X		0.7s	64.00nm			6.1X
GUMO	47.98	309 eP	00	13.50	-0.6		0.7s	3.60nm				LOR	150.84	357 ePKP	11	06.40	-0.2
	0.8s	251.83nm			5.8mb	HFS	137.11	351 ePKP	10	29.90	-13.3X	CTI	150.90	345 PKP	11	12.50	5.7X
PJG	47.98	309 iPd	00	13.20	-0.9		0.5s	1.90nm				VDL	150.94	349 ePKPc	11	07.00	0.0
MTN	48.78	269 eP	00	19.00	-1.2	EKA	142.65	4 PKPd	10	50.60	-2.6X	GRG	151.03	326 ePKP	11	12.60	5.5X
	0.4s	91.00nm			5.7mb		1.4s	27.60nm				PAIG	151.04	323 ePKP	11	12.30	5.2X
FORR	49.88	245 iPd	00	26.00	-2.0	KAS	144.01	317 iPKPd	10	56.30	0.3	SSF	151.07	357 ePKP	11	06.70	-0.2
KNA	50.44	264 iPd	00	31.50	-0.8	KRA	144.87	339 ePKP	10	55.60	-1.5		0.9s	6.55nm			
WARB	51.20	251 iPd	00	37.30	-0.5		0.6s	53.00nm				LBF	151.12	357 ePKP	11	06.80	-0.2
	0.4s	46.00nm			5.3mb	WIT	145.12	355 ePKP	11	00.00	2.6X	TMA	151.42	349 ePKPc	11	07.60	-0.1
COOL	55.86	245 eP	01	09.50	-1.1	VRI	145.33	329 ePKPd	10	59.50	1.5	MFF	151.54	2 ePKP	11	07.10	-0.5
MBL	57.92	256 iPd	01	23.90	-0.8	BBTK	145.43	315 iPKP	10	59.00	0.5		1.1s	34.20nm			
	0.3s	32.00nm			5.0mb	SPC	145.50	338 ePKP	11	00.50	2.1X	SAL	151.57	347 PKP	11	14.50	6.9X
MEKA	58.43	249 eP	01	27.20	-0.9	CLL	145.64	347 iPKP	10	58.10	-0.2	MDI	151.58	348 PKP	11	13.50	5.9X
KLB	58.73	244 iPd	01	29.00	-1.0		1.1s	120.00nm				LIT	151.59	325 ePKP	11	26.10	18.2X
NWAO	59.11	242 eP	01	32.10	-0.4							BGF	151.60	358 ePKP	11	07.40	-0.3
	0.6s	13.00nm			4.3mb	BHL	145.75	304 PKPd	11	59.80			0.9s	13.10nm			
RKG	59.25	241 eP	01	33.00	-0.5	BRG	145.84	346 iPKP	10	58.80	0.1	MMK	151.62	351 ePKPc	11	08.50	0.5
BAL	59.69	245 eP	01	35.60	-0.8							VAI	151.67	349 PKP	11	14.80	7.1X
	0.5s	18.00nm			4.6mb							DIX	151.68	351 ePKPd	11	09.60	1.4
MUN	60.02	243 iPc	01	38.50	-0.1							FNA	151.69	327 ePKP	11	14.50	6.4X
	0.8s	43.00nm			4.7mb	HRI	145.88	303 ePKP	10	58.00	-1.4	OHR	151.74	328 ePKPd	11	14.90	6.8X
MRWA	60.42	246 eP	01	40.40	-0.8	WTS	145.92	354 ePKP	11	00.00	1.3		0.7s	96.00nm			
	0.7s	27.00nm			4.6mb		0.9s	67.00nm					i		11	26.60	
NANU	61.66	254 eP	01	49.00	-0.3	LWI	146.43	236 iPKPc	11	04.30	3.3X	EMS	151.75	352 ePKPc	11	07.50	-0.7
TRT	67.67	269 iPd	02	21.90	-5.1X	PRU	146.52	345 iPKPd	11	02.40	2.6X	TCF	151.88	359 ePKP	11	07.80	-0.3
KKM	68.77	284 ePd	02	33.70	0.0		1.0s	36.10nm					0.9s	8.20nm			
	0.8s	52.10nm			5.1mb	MOX	146.55	348 ePKP	11	05.00	0.2	LSF	151.92	0 ePKP	11	07.70	-0.4
ADK	69.69	1 eP	02	36.20	-2.0	DSI	146.66	300 ePKP	11	00.00	-0.6		0.8s	10.75nm			
	0.6s	34.00nm			5.1mb	TNR	146.67	330 ePKPd	11	03.00	2.8X	LPL	152.32	352 ePKP	11	09.40	0.4
SPA	72.02	180 iPd	02	54.50	2.6	ENN	147.22	355 iPKPd	11	04.30	3.5X	LPG	152.34	352 ePKP	11	09.40	0.3
	1.0s	24.00nm			4.7mb		0.8s	31.00nm				AGG	152.42	323 ePKP	11	15.50	6.4X
		i	03	00.00								BNI	152.78	352 PKP	11	18.50	8.9X
SSE	75.84	310 Pc	03	13.00	-0.6	SRO	147.35	339 iPKPd	11	05.00	3.8X	SFI	152.83	344 PKP	11	18.00	8.6X
	1.0s	19.00nm			4.6mb	MEM	147.37	355 PKP	11	04.20	3.1X	RJF	152.87	0 ePKP	11	09.30	-0.2
NJ2	78.04	310 Pd	03	25.80	0.4	ZST	147.41	341 iPKPd	11	05.10	3.8X	LFF	153.22	1 ePKP	11	10.00	0.0
	1.0s	100.00nm			5.2mb	TNS	147.48	352 iPKPd	11	04.90	3.5X	MNS	154.01	341 PKP	11	18.50	7.3X
MDJ	78.33	325 iPd	03	27.00	0.4	GRF	147.53	348 ePKP	11	02.00	0.5	BCAO	158.56	233 iPKPd	11	17.50	-0.2
	1.0s	100.00nm			5.2mb			id	11	05.50			0.7s	14.00nm			
KGM	79.47	276 eP	03	34.30	1.0	KHC	147.55	345 iPKPc	11	02.00	0.5		ic	11	48.00		
OIZ	79.51	294 eP	03	34.20	0.9							LIC	166.56	151 PKP	11	25.40	0.2
SNY	80.12	320 eP	03	36.00	0.0							KIC	166.81	151 PKP	11	25.50	0.1
CN2	80.16	322 iPd	03	36.20	0.0	RMN	147.56	299 ePKP	11	02.00	-0.2	TIC	166.93	150 PKP	11	25.70	0.2
	3.0s	300.00nm			5.2mb	SNF	147.59	357 PKP	11	05.20	3.7X		S.D. = 0.8 on 133 of 181 obs.				
WHN	80.70	306 P	03	40.50	1.3	VKA	147.60	341 iPKPd	11	05.60	4.0X		* NOV 01, 1990 18h 19m 02.00± 3.20s				
SVW	81.03	11 eP	03	39.60	-0.7		1.0s	97.00nm					39.301 N ±15.4km		23.681 E ±22.8km		
IPM	82.46	277 ePd	03	49.10	0.6								DEPTH = 10.0km (geophysicist)				
	0.9s	114.80nm			5.4mb	WET	147.70	346 ePKP	11	02.00	0.2		AEGEAN SEA (365)				
TTA	82.66	10 eP	03	48.50	0.0	DOU	147.98	356 PKP	11	06.30	4.2X		ML 2.5 (THE). MD 2.8 (ATH).				
PMR	82.78	14 eP	03	48.10	-1.0	KHL	148.38	315 ePKP	11	07.60	4.4X						
	0.6s	11.60nm			4.6mb	MFT	148.39	321 iPKP	11	07.50	4.3X						
MAW	83.68	200 iP	03	55.00	1.4	FUR	148.98	347 iPKPc	11	09.00	5.2X						
SNG	83.68	280 eP	03	56.20	1.7		0.8s	50.00nm									
PSI	83.85	275 ePd	03	55.40	0.0	BHG	149.03	345 iPKPd	11	08.80	5.0X	NEO	0.35	271 ePg	19	09.10	-0.2
	0.8s	46.60nm			5.2mb		0.9s	34.00nm				AGG	1.09	256 eP	19	22.70	0.3
BJI	83.90	315 eP	03	55.50	0.4	ALN	149.05	322 ePKP	11	08.20	4.2X		eS	19	38.02		
	1.3s	69.00nm			5.1mb	FLN	149.36	3 ePKP	11	03.80	-0.5	PLG	1.09	350 ePb	19	22.30	-0.1
TOA	83.92	15 eP	03	54.90	0.1		1.0s	16.00nm				LIT	1.22	311 eP	19	24.80	0.1
GYA	85.11	300 iPd	04	02.00	0.6	LDF	149.55	2 ePKP	11	04.10	-0.4		eS	19	42.14		
TIY	85.38	312 iPd	04	03.30	0.9	WATA	149.70	346 iPKPd	11	04.40	-0.6	EVR	1.51	256 ePb	19	29.00	-0.1
	1.0s	50.00nm			5.1mb		0.8s	39.10nm				KZN	1.78	305 ePg	19	39.00	5.9X
IMA	85.95	10 eP	04	03.60	-1.0							GRG	1.92	330 iPc	19	35.22	0.1
	0.8s	4.30nm			4.2mb	GRR	149.72	3 ePKP	11	04.60	-0.2		eS	19	58.96		
FBA	85.99	13 eP	04	03.40	-1.3	PTJ	149.81	340 iPKP	11	10.10	4.9X		S.D. = 0.2 on 6 of 7 obs.				
XAN	86.36	307 Pd	04	08.00	0.9	SLE	149.87	351 ePKPd	11	04.50	-0.6		* NOV 01, 1990 18h 43m 52.50± 4.66s				
HHC	87.39	314 P	04	12.30	0.4	ZAG	149.87	340 iPKPd	11	10.60	5.5X		31.287 S ±16.3km		68.844 W ±16.1km		
KMI	87.90	297 Pd	04	16.40	1.6	SQTA	149.89	347 iPKPd	11	05.00	-0.3		DEPTH = 102.0 ± 46.9 km				
BDT	88.48	289 eP	04	18.80	1.6		0.8s	64.40nm					SAN JUAN PROVINCE, ARGENTINA (137)				
CHG	89.05	290 ePd	04	21.00	1.1												
	0.9s	28.78nm			5.2mb	HAU	149.91	354 ePKP	11	04.60	-0.6						
CHTO	89.05	290 eP	04	20.30	0.4	BSF	150.03	353 ePKP	11	04.80	-0.7						

eS 44 18.90
 ZON 0.29 151 iPd 44 08.00 0.4
 eS 44 20.00
 RTLL 0.32 98 iPc 44 07.60 -0.1
 CFA 0.61 122 eP 44 09.50 -0.1
 S 44 23.50
 RTCV 0.63 155 ePc 44 09.80 0.0
 RTBS 0.64 234 iPd 44 09.70 -0.1
 RTRS 1.23 334 iPc 44 16.00 0.0
 S.D. = 0.3 on 7 of 7 obs.

* NOV 01, 1990 19h 02m 42.52±1.10s
 20.893 S ± 9.9km 33.031 E ± 13.9km
 DEPTH = 10.0km (geophysicist)
 MOZAMBIQUE (581)
 mbLg 3.7 (BUL).

BUL 4.21 279 iPn 03 48.60 0.3
 iSn 04 36.80
 iSg 04 57.00
 KRI 5.18 321 iPn 04 01.00 -1.1
 iSn 04 58.00
 iSg 05 26.10
 BFT 5.50 209 eP 04 06.50 -0.2
 eS 05 06.50
 SLR 6.50 221 iPc 04 21.90 1.1
 S 05 28.00
 JOZ 6.58 187 eP 04 09.50 -12.2X
 S 04 25.00
 EVA 6.66 212 eP 04 21.00 -2.0
 S 04 35.00
 KSR 7.50 228 eP 04 35.50 0.7
 S 05 56.50
 PRY 7.87 219 eP 04 25.00 -14.9X
 (S) 04 36.50
 NPA 8.27 47 eP 04 46.00 0.6
 eS 06 14.50
 SEK 8.88 213 eP 04 52.50 -1.5
 S 05 07.50
 SWZ 9.42 227 eP 05 03.50 2.1
 S 06 41.00
 WIN 14.90 261 eP 06 21.00 5.8X
 0.9s 25.21nm 4.7mb X
 S.D. = 1.5 on 9 of 12 obs.

* NOV 01, 1990 19h 41m 41.41±1.46s
 21.145 S ± 8.3km 32.653 E ± 21.2km
 DEPTH = 10.0km (geophysicist)
 4.6mb (1 obs.)
 MOZAMBIQUE (581)
 mbLg 4.4 (BUL).

BUL 3.91 284 iPnc 42 42.10 -0.9
 iSn 43 33.10
 iSg 43 51.00
 BFT 5.12 207 iPd 43 00.30 0.2
 S 43 59.50
 KRI 5.17 326 iPn 42 54.50 -6.3X
 iSn 43 54.00
 iSg 44 20.00
 SONG 5.51 1 eP 43 05.20 -0.5
 e 44 09.10
 eS 44 32.40
 SLR 6.08 220 iPc 43 15.10 1.4
 S 44 21.50
 EVA 6.26 211 iPc 43 15.30 -0.9
 S 43 27.00
 JOZ 6.29 185 eP 43 08.00 -8.5X
 S 43 56.50
 KSR 7.07 227 eP 43 28.50 0.9
 S 44 46.00
 PRY 7.45 218 iPc 43 35.60 2.6X
 S 43 50.00
 SEK 8.48 212 iPd 43 46.00 -1.4
 S 44 41.50
 SWZ 8.99 227 eP 43 54.50 0.1
 S 45 36.00
 WIN 14.51 262 iPd 45 13.00 4.0X
 S 48 06.50
 BCAA 28.95 330 iPd 47 44.30 1.1
 0.5s 6.00nm 4.6mb
 S.D. = 1.2 on 9 of 13 obs.

& NOV 01, 1990 20h 14m 59.20s
 38.042 N 119.162 W
 DEPTH = 9.0km
 CALIFORNIA-NEVADA BORDER REGION (40)

<BRK>. ML 3.0 (BRK).

CMB 0.97 270 iPc 15 16.60 -1.1
 iS 15 29.60
 FRI 1.13 203 iPd 15 19.80 -0.7
 iS 15 34.60
 KVN 1.31 39 eP 15 22.50 -1.1
 TNP 1.54 88 eP 15 25.80 -1.2
 LLA 2.01 225 e(P) 15 35.30 1.6
 eS 16 00.50
 MHC 2.09 251 e(P) 15 36.80 1.9
 SAO 2.22 236 ePd 15 37.70 1.0
 PRI 2.25 213 ePd 15 38.70 1.5
 ORV 2.37 310 eP 15 40.50 1.6
 9 obs. associated

NOV 01, 1990 20h 19m 15.00±0.61s
 5.637 S ± 9.8km 148.984 E ± 4.5km
 DEPTH = 177.4 ± 6.0 km
 5.0mb (7 obs.)
 NEW BRITAIN REGION (192)

LAT 2.22 243 iPc 19 54.70 0.0
 eS 20 23.00
 YYYY 3.06 259 iPd 20 06.00 1.1
 eS 20 47.00
 RAB 3.48 66 eP 20 09.00 -1.1
 PMG 4.16 206 iPc 20 17.90 -0.8
 eS 21 11.00
 MNDI 5.32 264 eP 20 35.00 0.9
 HNR 11.50 110 ePc 21 55.00 -0.1
 0.9s 201.68nm 5.6mb
 eS 24 20.00
 CTA 14.61 190 iPd 22 35.20 0.6
 1.1s 79.75nm 5.0mb
 DIS 17.41 211 iPd 23 08.00 -0.7
 MTN 19.01 247 iPc 23 25.10 -0.6
 0.4s 80.00nm 5.5mb
 WB5 20.06 224 iPd 23 36.20 -0.3
 eS 27 10.70
 RMO 20.74 181 iPd 23 42.40 -0.8
 i 23 59.30
 BRS 21.93 171 iP 23 55.50 0.6
 ASPA 23.07 218 iPd 24 06.80 0.8
 0.8s 26.50nm 4.8mb
 Z 22s 0.20um 3.5Msz
 eS 28 05.00
 iScS 35 00.30
 DZM 23.50 136 iPc 24 10.90 0.7
 CMS 25.89 186 eP 24 32.00 -0.2
 WARB 29.55 224 eP 25 05.20 0.0
 0.6s 18.00nm 5.0mb
 ADE 30.69 197 e(P) 25 13.40 -1.8
 FORR 31.85 216 eP 25 23.40 -1.8
 TOO 31.95 185 iPc 25 26.60 0.6
 0.7s 20.00nm 4.9mb
 MBL 32.19 239 eP 25 28.00 -0.3
 MEKA 35.75 231 iPd 25 58.00 0.2
 NANU 36.41 239 iPc 26 04.40 0.1
 0.5s 10.00nm 4.7mb
 KLB 39.00 225 eP 26 25.20 -0.6
 MRWA 39.00 229 eP 26 26.50 0.7
 TCW 42.02 151 P 26 51.00 0.6
 KIW 42.06 150 P 26 51.70 1.0
 MNG 42.16 150 P 26 52.00 0.4
 MRW 42.24 151 eP 26 52.40 0.3
 CAW 42.32 150 eP 26 52.80 -0.1
 WDW 42.41 151 eP 26 53.70 0.2
 MTW 42.58 150 P 26 55.10 0.2
 SIV 143.30 126 PKP 38 27.80 -2.9X
 S.D. = 0.8 on 31 of 32 obs.

? NOV 01, 1990 20h 35m 19.32±0.98s
 44.375 N ± 10.2km 7.323 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.6 (GEN).

STV 0.13 180 P 35 22.64 0.1
 S 35 24.80
 ENR 0.16 155 P 35 23.06 -0.1
 S 35 25.72
 PZZ 0.21 309 P 35 23.88 0.0
 SS 35 26.75
 ROB 0.40 101 P 35 27.57 0.0
 S 35 33.83
 S.D. = 0.1 on 4 of 4 obs.

NOV 01, 1990 23h 14m 31.32±0.79s
 20.932 S ± 7.1km 33.088 E ± 9.9km
 DEPTH = 10.0km (geophysicist)
 MOZAMBIQUE (581)
 mbLg 3.6 (BUL).

BUL 4.27 280 iPn 15 37.60 -0.4
 iSn 16 30.50
 iSg 16 49.60
 KRI 5.24 321 iPn 15 52.00 0.2
 iSn 16 49.90
 iSg 17 15.80
 BFT 5.50 210 iPc 15 55.50 0.1
 S 16 55.50
 SLR 6.51 222 iPc 16 10.50 0.8
 S 17 17.00
 JOZ 6.55 188 eP 16 04.50 -5.6X
 S 16 15.00
 EVA 6.65 213 eP 16 10.50 -1.2
 S 16 15.00
 KSR 7.51 228 eP 16 24.00 0.2
 S 17 45.50
 PRY 7.87 220 eP 16 31.00 2.2X
 S 16 41.00
 NPA 8.26 46 eP 16 34.00 -0.1
 eS 18 02.00
 SEK 8.88 213 iPc 16 43.40 0.7
 S 17 17.00
 SWZ 9.43 227 eP 16 50.00 -0.4
 S 18 30.00
 WIN 14.95 261 iPd 18 10.50 5.9X
 S 20 55.40
 S.D. = 0.7 on 9 of 12 obs.

% NOV 01, 1990 23h 42m 16.14±2.39s
 38.859 N ± 12.9km 26.547 E ± 22.9km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.0 (ISK).

IZM 0.73 129 iPg 42 30.40 0.0
 EZN 0.98 350 iPg 42 35.00 0.3
 iSg 42 48.00
 KGT 1.69 20 ePn 42 45.30 -0.6
 EDC 1.80 34 ePn 42 48.00 0.6
 BNT 1.83 35 ePn 42 46.90 -1.0
 KCT 1.97 45 iPn 42 50.70 0.8
 MFT 2.01 16 ePn 42 53.00 2.5X
 S.D. = 0.9 on 6 of 7 obs.

* NOV 02, 1990 00h 38m 09.01±1.61s
 43.138 N ± 31.1km 17.536 E ± 11.8km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.1 (TTG).

BRY 0.78 107 ePg 38 23.50 -0.7
 eSg 38 30.50
 HVAR 0.80 273 iPg 38 24.40 -0.1
 iSg 38 48.40
 HCY 0.99 134 ePg 38 27.50 -0.3
 eSg 38 39.30
 BDV 1.28 131 ePg 38 32.60 -0.1
 eSg 38 49.00
 TTG 1.45 119 ePg 38 36.50 1.2
 eSg 38 54.00
 S.D. = 1.0 on 5 of 5 obs.

? NOV 02, 1990 00h 38m 59.81±3.19s
 39.178 N ± 14.1km 26.335 E ± 35.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK).

EZN 0.65 359 ePg 39 12.00 -0.7
 IZM 1.06 137 iPn 39 19.90 0.0
 KGT 1.47 30 ePn 39 27.00 0.6
 EDC 1.66 45 ePn 39 26.00 -3.1X
 BNT 1.70 46 ePn 39 28.40 -1.2
 MFT 1.76 24 ePn 39 32.00 1.3
 S.D. = 1.5 on 5 of 6 obs.

% NOV 02, 1990 01h 11m 52.70±1.73s
 40.805 N ± 12.6km 13.008 E ± 15.0km
 DEPTH = 10.0km (geophysicist)
 TYRRHENIAN SEA (389)

02d 01h

RDP 0.98 347 P 12 11.00 -0.3
 RMP 1.03 347 P 12 12.60 0.4
 SDI 1.09 34 P 12 13.00 -0.2
 AZI 1.23 15 P 12 15.00 -0.5
 AQU 1.58 11 P 12 22.30 1.5
 MNS 1.60 351 P 12 20.50 -0.6
 MGR 2.05 108 P 12 27.50 -0.2
 ASS 2.28 354 P 12 31.50 0.5
 ARV 2.69 359 P 12 36.00 -0.8
 ORI 2.73 105 P 12 37.50 0.1

S.D. = 0.8 on 10 of 10 obs.

* NOV 02, 1990 01h 16m 36.75 ± 2.14s
 17.092 S ± 11.2km 175.225 W ± 16.6km
 DEPTH = 307.0 ± 19.0 km
 4.5mb (3 obs.)

TONGA ISLANDS (173)

MBU 5.79 270 eP 18 49.80 45.4X
 SVA 6.11 259 iP 18 08.10 -0.1
 DZM 17.96 251 iPd 20 29.90 2.3
 PUZ 21.67 194 eP 21 02.90 -1.1
 WLZ 22.19 200 P 21 09.70 0.7
 NOZ 22.24 194 eP 21 10.00 0.6
 MNG 24.78 197 eP 21 32.20 -0.8
 LTZ 27.74 200 eP 21 55.50 -4.2X
 CMS 38.07 241 iPd 23 28.50 0.4
 WBS 47.75 258 eP 24 44.70 -0.9

WRA 47.77 258 P 24 44.00 -1.8
 ASPA 47.94 253 iPc 24 46.60 -0.5

1.1s 41.70nm 4.7mb
 iPd 25 41.80 258kmX
 iS 31 22.00

WARB 54.42 250 eP 25 35.00 -0.2
 TOA 82.22 13 eP 28 25.00 0.2
 FBA 84.38 11 eP 28 34.40 -1.1

IMA 84.48 9 eP 28 35.70 -0.4
 1.5s 14.10nm 4.6mb

KSP 145.09 347 ePKP 35 39.50 0.5
 WTS 145.14 358 ePKP 35 39.00 0.0
 1.0s 25.00nm

CLL 145.24 351 ePKP 35 39.00 -0.2
 1.0s 16.00nm

BRG 145.51 350 ePKP 35 40.50 0.8
 PRU 146.25 349 ePKP 35 42.50 1.5
 KHC 147.25 349 ePKP 35 45.50 2.9X

FLN 148.12 7 ePKP 35 46.10 2.1X
 1.1s 29.30nm

LDF 148.33 6 ePKP 35 46.80 2.5X
 1.0s 16.00nm

CDF 148.70 357 ePKP 35 48.10 3.1X
 0.8s 5.35nm

LPF 148.78 8 ePKP 35 48.10 3.1X
 HAU 149.14 358 ePKP 35 48.50 2.9X

BSF 149.30 357 ePKP 35 49.40 3.4X
 LOR 149.90 1 ePKP 35 50.90 4.1X

SSF 150.10 2 ePKP 35 51.60 4.5X
 0.9s 9.85nm

LBF 150.18 1 ePKP 35 51.60 4.3X
 1.0s 12.00nm

AVF 150.36 2 ePKP 35 51.70 4.3X
 1.1s 9.75nm

SMF 150.52 1 ePKP 35 52.20 4.5X
 1.1s 11.00nm

BGF 150.58 3 ePKP 35 52.50 4.7X
 1.2s 26.80nm

MAF 150.90 3 ePKP 35 53.40 5.1X
 1.1s 14.65nm

S.D. = 1.1 on 19 of 35 obs.

* NOV 02, 1990 01h 41m 28.41 ± 1.10s
 23.854 S ± 10.8km 179.855 E ± 18.4km
 DEPTH = 570.1 ± 15.6 km
 5.1mb (10 obs.)

SOUTH OF FIJI ISLANDS (171)

MBU 6.93 351 eP 43 17.00 -0.2
 DZM 12.48 276 iPc 44 13.20 1.0
 NOZ 14.80 186 eP 44 36.80 1.9

PGZ 16.99 189 eP 44 54.40 -1.7
 MNG 17.12 191 eP 44 55.60 -1.8
 0.3s 26.00nm 5.3mb

THZ 18.78 196 eP 45 14.40 1.1
 KHZ 19.24 194 eP 45 17.50 0.0
 0.3s 19.00nm 5.2mb

LTZ 19.90 197 eP 45 23.20 -0.5
 BRS 24.65 256 iPd 46 08.50 1.8
 CAN 29.05 240 eP 46 46.60 1.5

BWA 29.30 242 eP 46 46.80 -0.5
 CTA 31.34 270 iPd 47 05.10 0.4
 0.4s 89.83nm 5.8mb

PMG 34.36 289 eP 47 29.00 -1.0
 0.8s 31.34nm 5.0mb

ASPA 41.91 261 eP 48 26.30 -5.0X
 0.3s 18.00nm 5.1mb

WB5 42.27 266 iPd 48 33.80 -0.3
 WRA 42.27 266 P 48 33.00 -1.2
 0.4s 44.50nm 5.3mb

FORR 46.16 249 iPd 49 04.00 -0.1
 0.4s 43.00nm 5.3mb

MTN 47.32 274 iPc 49 12.00 -1.1
 WARB 48.00 256 iPd 49 17.90 -0.3
 0.3s 5.00nm 4.5mb

KLB 54.88 247 eP 50 07.60 -0.3
 MBL 55.16 260 iPd 50 09.20 -0.8
 0.5s 9.00nm 4.4mb

BAL 55.92 248 eP 50 14.70 -0.5
 MUN 56.13 247 eP 50 16.50 0.0
 MRWA 56.78 250 eP 50 20.90 -0.1

NANU 58.66 257 eP 50 34.00 0.1
 SPA 66.29 180 iPc 51 23.20 0.8
 1.0s 15.00nm 4.4mb

CHTO 89.54 291 eP 53 28.60 1.9
 HFS 142.47 349 ePKP 59 51.90 -5.7X
 0.3s 2.20nm

S.D. = 1.1 on 26 of 28 obs.

* NOV 02, 1990 02h 00m 49.74 ± 4.39s
 20.741 S ± 12.5km 33.433 E ± 45.8km
 DEPTH = 10.0km (geophysicist)

4.2mb (1 obs.)
 MOZAMBIQUE (581)

BUL 4.56 277 iPn 02 00.00 -0.5
 iSn 02 47.60
 iSg 03 08.50

KRI 5.31 316 iPn 02 11.40 0.2
 iSn 03 13.50
 iSg 03 36.80

BFT 5.83 212 eP 02 17.50 -1.0
 S 03 08.50

SEK 9.21 214 eP 03 06.00 0.2
 S 03 29.50

SWZ 9.80 228 eP 03 15.00 1.1
 S 04 55.00

WIN 15.30 260 eP 04 35.00 7.4X
 1.2s 15.63nm 4.2mb

S.D. = 1.1 on 5 of 6 obs.

* NOV 02, 1990 02h 08m 15.02 ± 3.36s
 31.846 S ± 17.4km 71.749 W ± 24.6km
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

ROCH 1.28 151 iPd 08 38.50 -0.5
 i 08 58.00

JACH 1.29 131 iPd 08 38.50 -0.4
 iS 08 58.00

FCH 1.92 141 eP 08 48.00 -0.4
 iS 09 14.40
 i 09 16.00

TACH 1.93 159 iP 08 47.70 -0.5
 iS 09 12.00

PCH 2.05 150 eP 08 51.00 0.9
 i 09 19.10

LNW 2.12 172 eP 08 51.00 0.0
 i 09 25.50

CHCH 2.28 156 eP 08 53.30 0.0
 i 09 23.30
 i 09 27.20

ZON 2.63 84 eP 08 59.00 0.6
 MDZ 2.66 114 eP 09 00.20 1.4
 e 09 05.30
 iS 09 41.60

CFA 3.00 86 eP 09 02.00 -1.5

S.D. = 1.0 on 10 of 10 obs.

? NOV 02, 1990 03h 12m 44.30 ± 13.36s
 33.995 S ± 55.6km 71.883 W ± 93.3km
 DEPTH = 28.4 ± 7.2 km

NEAR COAST OF CENTRAL CHILE (135)

LNW 0.39 84 iPd 12 53.10 0.1
 iS 13 01.00

LCCM 0.58 27 iPd 12 56.00 0.1
 iS 13 05.50

TACH 0.86 67 iPd 12 59.90 -0.5
 iS 13 12.60

CHCH 1.02 87 iPd 13 02.80 0.0
 iS 13 18.10

SAN 1.15 62 eP 13 04.50 -0.1
 iS 13 20.60

PCH 1.20 72 iPd 13 05.50 0.2
 iS 13 22.40

ROCH 1.25 36 eP 13 06.20 0.0
 iS 13 23.10

FCH 1.49 64 iPc 13 09.80 0.1
 iS 13 29.90

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

* NOV 02, 1990 04h 10m 48.92s
 63.924 N 148.922 W

DEPTH = 115.8km
 CENTRAL ALASKA (1)
 <AGS-P>

MCK 0.19 182 eP 11 05.06 1.6
 BWN 0.34 316 iP 11 05.57 -0.2

RND 0.52 177 iP 11 06.34 -0.5
 NEA 0.66 354 eP 11 07.46 -0.3

WRH 0.66 33 iP 11 07.47 -0.3
 TRF 0.77 233 eP 11 08.71 -0.2

CCB 0.87 33 iP 11 09.17 -0.5
 eS 11 24.42

HDA 0.99 60 eP 11 10.14 -0.6
 HUR 1.00 199 eP 11 10.34 -0.6

MDM 1.08 16 iP 11 11.38 -0.4
 eS 11 27.84

FBA 1.10 26 iP 11 11.38 -0.5
 GLM 1.26 31 iP 11 13.03 -0.7

DDM 1.36 94 eP 11 15.09 0.2
 eS 11 33.91

CUT 1.64 202 eP 11 17.28 -0.9
 PAX 1.82 120 eP 11 20.10 -0.4

SDG 2.08 131 eP 11 22.83 -0.8
 SML 2.14 172 eP 11 23.40 -1.1

GHO 2.16 180 eP 11 24.28 -0.5
 DOT 2.18 95 eP 11 23.73 -1.2

TOA 2.22 144 eP 11 24.52 -1.0
 SCM 2.22 160 eP 11 24.81 -0.8

SKT 2.29 213 eP 11 24.86 -1.5
 PWA 2.32 191 eP 11 27.47 0.7

PLRM 2.34 182 eP 11 25.81 -1.2
 KNK 2.53 175 eP 11 28.69 -0.9

SUA 2.61 200 eP 11 30.85 0.2
 PMS 2.71 187 eP 11 31.71 -0.2

KLU 2.80 149 eP 11 31.40 -1.8
 NCG 2.94 212 eP 11 33.65 -1.4

CGLM 2.99 210 eP 11 35.48 -0.2
 VLZ 3.05 156 eP 11 34.12 -2.3

CRP 3.06 211 eP 11 36.59 -0.1
 VZW 3.08 158 eP 11 34.27 -2.6

SPU 3.11 209 eP 11 36.40 -0.9
 BGL 3.11 213 eP 11 37.49 0.1

CKL 3.16 212 eP 11 37.73 -0.3
 GLI 3.17 164 eP 11 35.94 -2.1

NKA 3.37 200 eP 11 42.60 1.9
 GLB 3.43 134 eP 11 40.33 -1.3

SLKM 3.48 191 eP 11 41.24 -1.1
 KNIM 3.63 171 eP 11 42.02 -2.3

RDT 3.74 207 eP 11 45.18 -0.6
 SEW 3.84 184 eP 11 45.69 -1.4

NCT 3.86 211 eP 11 47.09 -0.4
 RDN 3.87 209 eP 11 46.58 -1.0

REF 3.87 209 eP 11 47.06 -0.7
 RS2 3.91 209 eP 11 48.25 0.0

RSO 3.91 209 eP 11 47.59 -0.7
 LTI 3.93 172 eP 11 46.89 -1.4

MTU 4.00 171 eP 11 49.05 -0.2
 CNPM 4.55 195 eP 11 55.23 -1.5
 51 obs. associated

& NOV 02, 1990 04h 42m 19.70s
 64.991 N 146.630 W
 DEPTH = 17.8km
 CENTRAL ALASKA (1)
 <AGS-P>.

GLM	0.32	270	iP	42	26.86	0.1
FBA	0.50	260	iP	42	29.85	0.1
			iS	42	37.06	
HDA	0.60	193	iP	42	31.97	0.5
			iS	42	40.03	
CCB	0.61	236	iP	42	31.57	0.0
MDM	0.68	268	iP	42	32.79	0.0
WRH	0.82	231	eP	42	35.38	0.3
			iS	42	46.52	
DJE	1.05	157	eP	42	38.57	-0.5
NEA	1.13	249	eP	42	40.18	-0.2
DDM	1.25	164	eP	42	42.71	0.3
BWN	1.47	237	eP	42	43.76	-1.7
MCK	1.61	219	eP	42	47.14	-0.3
FYU	1.68	19	eP	42	48.19	-0.2
DOT	1.75	139	eP	42	49.53	0.0
RND	1.86	212	eP	42	51.23	0.1
PAX	2.09	165	eP	42	54.69	0.2
TRF	2.22	228	eP	42	56.93	0.5
SDG	2.52	168	eP	43	01.36	0.8
DWY	3.25	104	P	43	12.00	1.2

18 obs. associated

* NOV 02, 1990 06h 14m 15.28±2.63s
 31.811 S ±15.4km 71.602 W ±19.3km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

JACH	1.22	136	iPd	14	37.80	-0.2
			iS	14	57.50	
ROCH	1.26	157	ePd	14	39.82	1.0
			iS	14	58.00	
LCCH	1.66	179	eP	14	45.50	1.0
			iS	15	10.00	
SAN	1.82	154	eP	14	47.30	0.4
			iS	15	14.00	
FCH	1.87	144	eP	14	47.50	-0.5
			iS	15	15.70	
TACH	1.92	163	eP	14	47.00	-1.3
			i	15	15.70	
PCH	2.02	153	eP	14	50.50	0.6
			iS	15	22.00	
LVN	2.14	176	eP	14	51.00	-0.5
			iS	15	23.50	
CHCH	2.26	160	eP	14	52.80	-0.5
			iS	15	24.00	
ZON	2.51	85	eP	14	57.00	0.2
MDZ	2.56	115	eP	15	02.30	4.7X
			iS	15	40.80	
CFA	2.87	87	eP	15	02.00	0.0

S.D. = 0.8 on 11 of 12 obs.

? NOV 02, 1990 06h 47m 19.59±1.06s
 31.209 S ±9.8km 68.629 W ±12.9km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.18	132	P	47	26.00	-0.1
RTCB	0.31	208	iPd	47	28.30	0.7
			S	47	41.20	
ZON	0.34	187	iPd	47	27.70	-0.2
			eS	47	41.70	
RTCV	0.65	173	iPc	47	27.50	-4.9X
RTBS	0.84	237	ePd	47	34.50	-0.4
			S	47	52.10	
RTRS	1.26	325	iPc	47	41.00	0.1
			eS	48	03.90	
MDZ	1.68	186	eP	48	00.20	13.0X

S.D. = 0.6 on 5 of 7 obs.

NOV 02, 1990 07h 22m 35.65±0.16s
 21.251 S ±5.0km 174.366 W ±3.6km
 DEPTH = 28.3km (7 depth phases)
 5.6mb (46 obs.) 5.3Msz (15 obs.)
 TONGA ISLANDS (173)
 Ms 5.7 (BRK). Ma=6.0*10**17 Nm
 (PPT).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 16S, 33C

Centroid Location:

Origin Time 07:22:41.7 0.5

Lat 21.41S 0.04 Lon 174.07W 0.04

Dep 16.3 1.7 Half-duration 2.3

Moment Tensor: Scale 10**17 Nm

Mrr= 2.11 0.05 Mtt= 0.12 0.08

Mff=-2.22 0.07 Mrt= 0.19 0.16

Mrf= 1.71 0.26 Mtf=-1.16 0.06

Principal Axes:

T Val= 2.72 Plg=69 Azm=256

N 0.50 11 17

P -3.22 17 110

Best Double Couple: Ma=3.0*10**17

NP1: Strike=217 Dip=29 Slip= 113

NP2: 11 63 78

SVA	7.45	294	iPc	24	30.70	5.5X
NDF	8.46	293	eP	24	40.00	0.6
			e	25	45.50	
RAR	13.61	92	P	25	39.00	-10.2X
			S	27	57.00	
PVC	16.70	279	iPc	26	33.50	4.2X
DZM	17.86	264	iPc	26	46.10	2.2
MNG	21.15	202	eP	27	18.30	-2.4
WEL	21.99	202	eP	27	30.00	0.9
			S	31	21.00	
THZ	23.10	205	eP	27	38.80	-1.4
TBI	23.13	100	iP	27	42.90	2.4
			1.5s	370.00nm	5.7mb	
KHZ	23.42	203	P	27	43.50	0.3
AFR	23.48	85	iP	27	42.20	-1.7
			1.2s	115.00nm	5.3mb	
PAE	23.63	86	iP	27	43.40	-2.0
			1.2s	135.00nm	5.3mb	
PPT	23.66	85	iP	27	43.90	-1.8
			1.2s	125.00nm	5.3mb	
TVO	23.91	86	iP	27	46.10	-2.1
			1.2s	270.00nm	5.7mb	
LTZ	24.21	205	eP	27	49.10	-1.8
PMO	25.89	81	iP	28	05.40	-1.6
			1.2s	140.00nm	5.5mb	
VAH	26.06	81	iP	28	07.00	-1.6
			1.2s	45.00nm	5.0mb	
TPT	26.15	81	iP	28	08.00	-1.4
			1.2s	115.00nm	5.4mb	
RUV	26.31	81	iP	28	09.30	-1.6
			1.2s	55.00nm	5.1mb	
MMCZ	27.32	206	eP	28	20.30	0.3
HNR	27.37	292	eP	28	20.00	-0.6
			eS	33	06.00	
TLC	27.50	206	eP	28	23.00	1.3
RMO	34.05	254	iPd	29	17.40	-2.3
CNB	34.67	238	iPc	29	25.10	0.0
			0.9s	18.00nm	5.0mb	
CAN	34.96	238	eP	29	26.80	-0.7
BWA	35.23	240	eP	29	26.80	-3.0X
RKT	36.45	100	iP	29	38.10	-2.0
			1.2s	40.00nm	5.2mb	
CTA	36.80	265	iPd	29	42.20	-0.9
			0.9s	33.61nm	5.2mb	
			iS	35	45.00	
CMS	36.92	246	iPd	29	43.20	-0.8
PMG	38.83	282	iPc	29	58.20	-2.0
			1.1s	118.99nm	5.6mb	
BFD	40.45	237	eP	30	14.00	0.6
QIS	42.89	262	eP	30	31.70	-1.9
			i	32	25.40	686kmX
ADE	43.21	241	iPc	30	35.00	-1.1
JAY	47.51	287	ePd	31	09.00	-1.6
ASPA	47.66	257	eP	31	09.30	-2.4
			1.0s	92.20nm	5.8mb	
			Z 18s	2.10um	5.2Msz	
				iPcS	36	35.50
				iS	38	01.40
				iScS	41	07.90
WB5	47.85	262	eP	31	11.00	-2.2
			i	32	42.00	470kmX
				31	10.00	-3.3X
WRA	47.86	262	P			
			0.8s	42.40nm	5.5mb	
FORR	52.08	247	eP	31	44.00	-1.4
MTN	52.56	270	eP	31	47.00	-2.3
			0.6s	57.00nm	5.7mb	
GUA	52.86	307	eP	31	50.00	-1.4
			0.5s	61.97nm	5.8mb	

GUMO	52.93	307	eP	31	50.20	-1.7
			0.5s	40.82nm	5.6mb	
			eS	39	21.00	
PJG	52.93	307	eP	31	50.20	-1.7
WARB	53.85	253	iPd	31	57.10	-1.5
SBA	57.38	185	iPd	32	26.90	3.6X
			eS	40	36.80	
KLB	60.81	245	eP	32	47.00	-0.8
MBL	60.91	257	eP	32	46.30	-2.3
			0.5s	35.00nm	5.7mb	
NWAO	61.07	243	eP	32	49.50	-0.1
			Z 20s	1.50um	5.1Msz	
			N 18s	0.90um		
			E 20s	1.40um		
				eS	41	17.00
				e	48	10.00
BAL	61.85	246	eP	32	54.00	-0.9
MUN	62.06	244	eP	32	56.00	-0.3
MRWA	62.70	247	eP	32	59.80	-0.7
NANU	64.48	254	eP	33	11.30	-1.0
SPA	68.88	180	iPc	33	41.60	1.9
			1.2s	34.51nm	5.3mb	
			Z 20s	1.44um	5.2Msz	
				i	33	42.20
CHJJ	72.07	322	P	33	59.20	0.0
IIDJ	72.30	321	P	34	00.20	-0.5
QCP	72.70	294	eP	34	12.00	0.7X
ADK	72.85	358	eP	34	02.00	-1.4
			1.3s	157.60nm	5.9mb	
MAT	72.86	322	iPc	34	03.30	-0.7
			eS	43	28.00	
MTMJ	73.13	321	P	34	05.30	-0.3
KKM	73.24	284	ePd	34	06.40	-0.3
BAG	73.95	295	eP	34	09.90	-1.0
PRS	76.07	42	ePc	34	22.60	0.2
GCC	76.13	41	ePc	34	22.20	-0.5
BCH	76.15	43	P	34	23.30	0.2
PCC	76.20	40	ePc	34	23.80	0.7
SAO	76.30	41	ePc	34	23.30	-0.4
PRI	76.38	42	ePc	34	24.50	0.1
ABL	76.50	44	P	34	25.20	0.0
LLA	76.51	42	ePc	34	24.90	0.0
BRK	76.52	40	eP	34	24.80	-0.1
			Z 20s	3.30um	5.6Msz	
				e	59	10.00
NWRM	76.53	39	P	34	24.80	-0.1
BKS	76.54	40	iP	34	25.30	0.3
			1.0s	109.00nm	5.8mb	
			Z 18s	3.30um	5.7Msz	
			N 18s	2.10um		
			E 18s	2.30um		
				eLR	59	40.00
MHC	76.55	41	ePc	34	25.50	0.2
ARN	76.62	41	P	34	26.20	0.7
PAS	76.76	45	eP	34	25.00	-1.3
PLM	77.16	46	eP	34	29.00	0.2
RVR	77.19	46	eP	34	29.00	0.3
SDN	77.20	8	e(P)	34	26.80	-1.4
PEC	77.28	46	P	34	28.50	-0.8
			1.2s	23.90nm	5.1mb	
SBB	77.31	45	eP	34	29.00	-0.5
ISA	77.48	44	eP	34	30.00	-0.4
FRI	77.52	42	ePc	34	30.20	-0.2
CMB	77.76	41	ePc	34	31.50	-0.3
WDC	78.13	38	ePc	34	33.50	-0.3
CLC	78.14	44	eP	34	34.00	0.0
TPC	78.15	46	eP	34	34.00	-0.1
GSC	78.35	45				

GZH	83.06	298 P	35	01.50	1.2	KMI	92.72	296 Pc	35	49.00	2.0	HRI	150.79	301 iPKPc	42	28.40	6.8X
	1.0s	100.00nm			5.9mb		3.0s	1250.00nm			6.8mb X	TNS	151.00	356 ePKPc	42	27.50	6.2X
RMW	83.10	33 P	35	00.50	0.4		Z 20s	1.60um			5.5msz	PSZ	151.02	340 iPKP	42	27.60	6.2X
MDJ	83.11	323 iPc	35	01.00	0.9	BDT	93.08	287 eP	35	50.50	2.0	DOU	151.20	1 PKPd	42	28.00	6.5X
	5.0s	1000.00nm			6.2mb X		1.2s	179.00nm			6.4mb	TNR	151.26	332 ePKPd	42	23.00	1.2
	Z 24s	1.20um			5.2msz X	BTO	93.27	312 P	35	50.00	0.9	GRF	151.27	352 ePKPc	42	28.80	7.2X
		pP	35	11.00	32km	CHG	93.70	289 ePc	35	53.10	1.8		Z 19s	0.40um			5.2msz
		eS	45	20.00			1.1s	66.46nm			6.0mb			ec	42	37.20	
MCW	83.41	31 P	35	02.00	0.4	CHTO	93.70	289 eP	35	53.00	1.7	JVI	151.46	298 iPKPc	42	29.90	7.4X
SVW	83.45	9 eP	35	00.90	-0.7		1.0s	58.00nm			6.0mb	KHC	151.47	349 PKP	42	23.10	1.1
DUG	83.76	43 P	35	04.00	0.3			pP	36	02.10	28km		E 18s	0.50um			
	1.0s	15.00nm			5.1mb	INK	94.14	14 ePc	35	52.10	-0.2			i	42	29.50	
QIZ	84.27	293 eP	35	07.00	0.5		1.2s	59.00nm			5.9mb	ZST	151.58	344 ePKP	42	22.70	0.6
DL2	84.63	315 eP	35	09.40	1.5	YKA	95.80	24 eP	35	59.40	-0.6			ePKP	42	29.10	
	1.4s	200.00nm			6.1mb		1.0s	11.30nm			5.3mb	SRO	151.59	342 iPKP	42	28.00	5.9X
DAU	84.87	43 P	35	10.80	1.3	LZH	95.94	306 Pc	36	02.00	0.5			i	42	38.20	
SNY	84.99	318 iPc	35	10.00	0.4		8.0s	300.00nm			5.8mb X	DEV	151.65	334 ePKP	42	30.50	8.2X
	9.0s	800.00nm			5.9mb X		Z 28s	0.55um			4.9msz X	BUD	151.68	341 ePKP	42	29.20	6.9X
	Z 18s	1.10um			5.3msz			pP	36	08.00	19km	GPA	151.70	318 ePKP	42	29.20	6.6X
		sP	35	24.20				sP	36	12.50		VKA	151.71	345 ePKP	42	28.00	5.7X
		S	45	35.00				SKS	46	36.00			2.0s	179.00nm			
CN2	84.99	321 iPc	35	10.40	0.8	CNCB	98.54	112 P	36	15.00	0.8			id	42	30.00	
	4.0s	700.00nm			6.2mb X	LPB	98.55	111 (P)	35	53.00	-21.1X			i	42	39.00	
	Z 15s	0.90um			5.3msz X	GKN	109.00	293 PKP	41	00.00	-5.0X	FLN	152.12	9 ePKP	42	28.20	5.3X
	N 14s	0.40um				CER	124.15	194 iPKPc	41	35.50	1.9		1.3s	61.35nm			
	E 14s	0.30um				QUE	124.61	293 ePKP	41	35.80	1.1		Z 20s	0.57um			5.4msz
		pP	35	19.60	29km	BFT	127.67	208 e(PKP)	41	31.00	-9.8X	LDF	152.33	8 ePKP	42	28.60	5.4X
PMR	85.01	12 ePc	35	08.60	-0.6		1.0s	15.00nm					1.3s	68.60nm			
	1.2s	87.10nm			5.8mb	SWZ	128.22	202 iPKPc	41	42.50							

XLV	0.16	21	eP	28 56.40	0.8	SEA	0.13	171	P	49 11.73	0.8	BLS2	1.18	106	eP	54 06.56	0.5
			eS	29 03.83		PGW	0.18	282	Pc	49 11.45	0.0				eS	54 21.49	
HOM	0.37	15	iP	28 58.07	-0.3	BLH	0.21	76	P	49 11.40	-0.5	SUE	1.43	1	eP	54 09.48	-0.4
			iS	29 07.01					S	49 14.76					eS	54 27.16	
CNPM	0.38	54	iP	28 58.18	-0.3	SPW	0.24	165	Pd	49 12.72	0.5	HYA	1.70	25	eP	54 14.69	0.9
			iS	29 06.72					S	49 15.83					eS	54 36.65	
BRLK	0.67	46	eP	29 00.83	-0.5	HTW	0.38	87	Pc	49 13.98	-0.5	NRA0	3.58	69	Pn	54 39.80	-0.9
SYI	0.75	203	eP	29 01.39	-0.9	GMW	0.39	232	Pd	49 13.88	-0.6				Lg	55 38.80	
			eS	29 12.77					S	49 18.56		S.D. = 0.8 on 7 of 7 obs.					
AUE	0.79	275	eP	29 01.97	-0.7	BLN	0.48	298	Pc	49 15.10	-1.0	NOV 02, 1990 08h 45m 33.26± 0.63s					
NNL	0.79	20	iP	29 03.02	0.3	RMW	0.49	132	Pc	49 15.60	-0.6	26.406 N ± 7.4km 129.150 E ± 9.4km					
OPT	0.79	297	iP	29 02.11	-0.7	JCW	0.49	34	Pd	49 15.42	-0.8	DEPTH = 33.0km (normal)					
			eS	29 13.67		HDW	0.50	254	Pc	49 15.58	-0.9	4.9mb (7 obs.)					
AUP	0.81	275	eP	29 02.50	-0.6				S	49 22.84		RYUKYU ISLANDS (238)					
			eS	29 14.58		OHW	0.55	346	Pd	49 16.15	-1.1						
AUI	0.82	273	eP	29 02.29	-0.7	MEW	0.62	200	Pd	49 18.51	0.2	KAGJ	5.00	17	P	46 46.80	-1.2
AGU	0.82	275	eP	29 02.59	-0.6				S	49 27.26					S	47 39.30	
AUH	0.83	275	eP	29 02.60	-0.6	CMW	0.65	13	Pd	49 18.27	-0.7	KUMJ	6.28	13	P	47 05.90	-0.1
INE	0.98	321	iP	29 04.06	-1.2				S	49 27.83					S	48 12.50	
			eS	29 17.00		GSM	0.69	148	Pd	49 18.71	-0.9	SSE	8.41	306	iPc	47 35.00	-0.7
CDD	1.00	249	eP	29 04.37	-1.1	SMW	0.82	236	Pd	49 21.03	-0.8				0.5s	16.00nm	5.4mb
			eS	29 18.08		RPW	0.86	40	Pd	49 21.64	-0.9	Z	16s		0.40um		
INW	1.01	320	eP	29 04.62	-1.0	RVC	0.88	163	Pd	49 21.80	-1.0	N	12s		0.60um		
RED	1.21	338	eP	29 07.15	-1.1	OSD	0.92	273	Pc	49 22.96	-0.6	E	12s		0.50um		
RSO	1.25	339	iP	29 07.88	-0.9	MCW	0.95	340	Pd	49 22.96	-1.1	BJI	17.37	325	eP	49 36.50	1.9
RS2	1.25	339	eP	29 07.94	-0.9	STW	0.97	293	P	49 22.62	-1.6				0.6s	22.00nm	4.5mb
REF	1.27	340	iP	29 08.11	-0.9	FMW	0.97	152	Pd	49 23.08	-1.4	CN2	17.61	351	eP	49 39.20	1.5
			eS	29 24.04		CPW	0.98	214	ePd	49 23.11	-1.3	TIY	18.08	313	eP	49 44.80	1.3
MCNL	1.29	266	eP	29 07.50	-1.6	REMR	1.02	161	Pd	49 23.93	-1.4				Z	14s	0.70um
PDB	1.29	293	eP	29 07.75	-1.4	MBW	1.04	16	Pd	49 24.63	-0.9	N	12s		0.30um		
RDN	1.30	339	iP	29 08.49	-0.9	LON	1.10	161	P	49 24.87	-1.4	E	12s		0.30um		
			eS	29 24.32		LMW	1.12	178	Pd	49 25.79	-0.8	XAN	19.04	298	P	49 54.00	-1.4
RDT	1.31	348	eP	29 08.34	-1.1	OBH	1.13	247	P	49 26.91	0.2	CD2	22.71	287	P	50 31.60	-1.8
			eS	29 24.41		APW	1.15	191	Pd	49 26.10	-0.9	LZH	23.63	300	eP	51 00.00	17.5X
NCT	1.38	337	iP	29 09.51	-0.9	TWW	1.19	122	P	49 27.93	0.4	Z	17s		0.22um	3.7MszX	
SEW	1.45	55	eP	29 10.35	-0.9	WPW	1.21	153	Pd	49 27.36	-0.6	GTA	27.70	305	eP	51 19.00	-1.6
SLKM	1.46	33	eP	29 10.76	-0.6	OOW	1.25	268	Pd	49 29.59	1.2				0.6s	20.00nm	5.0mb
SPU	1.89	357	iP	29 16.41	-0.9	GLK	1.32	158	P	49 29.25	-0.2	GUN	38.38	282	P	52 54.60	0.9
CKL	1.92	353	iP	29 17.04	-0.7	KOSW	1.33	176	P	49 29.20	-0.3	PKI	38.85	282	P	52 57.40	-0.2
CRP	1.98	356	eP	29 18.03	-0.6	CZM	1.36	185	Pd	49 29.43	-0.4	KKK	38.93	282	P	52 59.20	1.1
BGL	1.99	352	eP	29 18.06	-0.7	ETW	1.37	97	Pc	49 29.87	-0.3	DMN	39.11	282	P	52 59.60	-0.1
CGLM	2.01	358	iP	29 18.44	-0.6	NLW	1.38	77	P	49 29.99	-0.3	GKN	39.46	283	P	53 02.80	0.3
NCG	2.11	356	eP	29 20.01	-0.5	TDL	1.44	177	Pd	49 30.71	-0.4	WB5	46.29	173	eP	53 57.90	0.3
LTI	2.15	68	eP	29 19.62	-1.3	BMW	1.45	205	Pd	49 30.73	-0.4	WRA	46.35	173	P	53 58.00	-0.1
MTU	2.23	70	eP	29 21.28	-0.8	NAC	1.47	135	ePc	49 31.92	0.4				0.7s	10.30nm	4.9mb
SUA	2.23	14	eP	29 21.70	-0.5	ERK	1.48	180	ePd	49 31.18	-0.6	ASPA	49.99	174	iPd	54 26.80	0.4
PMS	2.25	29	eP	29 21.88	-0.5	CBSW	1.55	88	P	49 32.11	-0.6				0.6s	7.70nm	4.9mb
KNIM	2.32	61	eP	29 21.25	-2.0	STD	1.55	177	P	49 32.66	-0.1	MBC	69.46	14	eP	56 39.00	-0.8
PWA	2.55	22	eP	29 25.93	-0.5	SOSW	1.56	175	Pd	49 32.49	-0.3				0.9s	10.00nm	4.9mb
PLRM	2.66	29	eP	29 26.74	-1.2	FL2	1.59	180	P	49 32.96	-0.4	YKA	78.02	25	eP	57 39.70	10.0X
SKT	2.69	3	eP	29 26.91	-1.5	WTV	1.61	92	P	49 33.32	-0.3				0.7s	1.20nm	
KNK	2.70	37	eP	29 27.22	-1.4	HSR	1.62	176	P	49 33.99	0.2	NB2	79.52	334	P	57 38.40	0.4
GLI	2.85	54	eP	29 28.63	-2.1	JLK	1.64	176	P	49 34.21	0.1				0.8s	2.00nm	4.2mb
GHO	2.86	29	eP	29 29.88	-1.1	RVW	1.66	190	P	49 34.17	-0.1	FFC	88.06	27	eP	58 35.00	13.6X
SML	3.05	33	eP	29 32.28	-1.2	CDFW	1.68	173	ePd	49 34.77	0.2				1.1s	23.00nm	
VZW	3.17	54	eP	29 33.82	-1.4	ASR	1.71	162	ePd	49 35.48	0.4	S.D. = 1.1 on 19 of 22 obs.					
CUT	3.20	13	eP	29 34.79	-0.8	LVP	1.72	182	ePd	49 35.25	0.1	NOV 02, 1990 08h 57m 24.44± 0.57s					
VLZ	3.30	54	ePd	29 35.42	-1.5	DHW2	1.74	82	P	49 35.06	-0.4	40.855 N ± 6.8km 21.612 E ± 4.2km					
47 obs. associated						MTMW	1.76	177	P	49 36.11	0.3	DEPTH = 10.0km (geophysicist)					
% NOV 02, 1990 07h 39m 27.93± 3.66s						YAKW	1.77	135	P	49 36.74	0.9	GREECE (364)					
59.621 N ±20.0km 4.648 E ±24.8km						VTG	1.80	117	P	49 36.59	0.4	MD 3.2 (ATH). ML 2.7 (ROM).					
DEPTH = 10.0km (geophysicist)						MXC	1.85	130	P	49 37.41	0.5	FNA	0.19	249	ePd	57 27.32	-1.4
SOUTHERN NORWAY (535)						NLO	1.86	205	P	49 37.74	0.5				eS	57 30.28	
MD 2.0 (BER).						EPH	1.91	102	P	49 37.19	-0.6	KZN	0.56	167	iPgc	57 33.90	-2.0
BER	0.84	24	eP	39 45.22	1.1	BVW	1.94	119	P	49 38.65	0.4	GRG	0.61	80	iPd	57 35.82	-0.9
			eS	39 56.21		SAW	1.98	91	P	49 37.87	-1.1				eS	57 45.00	
ASK	0.91	17	eP	39 44.95	-0.3	BRVW	2.06	128	P	49 40.22	0.1	OHR	0.67	293	iPgc	57 36.50	-1.2
			eS	39 56.71		RC1	2.15	112	ePc	49 40.58	-0.7				0.5s	652.00nm	
ODD1	1.04	73	eP	39 47.38	-0.3	WAH2	2.15	118	P	49 41.06	-0.3				iSg	57 46.50	
BLS2	1.21	105	iPc	39 51.09	0.6	CRF	2.23	114	P	49 41.68	-0.7	VAY	0.86	57	iPg	57 48.90	
			eS	40 06.99		LOCW	2.25	117	P	49 42.58	-0.1				iSg	57 40.20	-0.8
SUE	1.44	2	eP	39 53.80	-0.2	GBL	2.29	120	P	49 43.46	0.1				i(Sg)	57 50.70	
			eS	40 11.61		PGO	2.32	182	P	49 45.10	1.4	LIT	1.01	138	eP	57 41.96	-1.6
HYA	1.73	26	eP	39 58.01	-0.1	VLL	2.37	169	P	49 46.52	2.0				eS	57 56.90	
			eS	40 19.34		68 obs. associated						KNT	1.02	72	ePd	57 43.96	0.2
NRA0	3.62	69	Pn	40 24.40	-0.8	% NOV 02, 1990 07h 53m 44.02± 3.58s									eS	57 57.44	
			Sn	41 07.30		59.635 N ±19.9km 4.717 E ±24.5km						LSK	1.04	228	ePg	57 43.30	-0.9
			Lg	41 22.20		DEPTH = 10.0km (geophysicist)						THE	1.05	102	iPc	57 44.44	0.2
S.D. = 0.8 on 7 of 7 obs.						SOUTHERN NORWAY (535)						BERA	1.27	264	ePg	57 50.50	2.5X
& NOV 02, 1990 07h 49m 06.24s						BER	0.81	22	eP	54 00.39	0.7				i(Sg)	57 58.00	
47.786 N 122.338 W									eS	54 12.06					i	58 04.00	
DEPTH = 23.3km						ASK	0.88	16	eP	54 00.47	-0.5				eS	57 49.24	0.4
WASHINGTON (29)									eS	54 12.55		TPE	1.34	246	ePg	57 50.00	0.9
<SEA>. CL 2.7 (SEA).						ODD1	1.01	73	eP	54 02.96	-0.1				eS	57 50.00	
									eS	54 16.60							

02d 08h

TIR 1.41 291 ePn 57 51.50 1.4
 PLG 1.48 108 ePb 57 52.00 0.9
 SRS 1.52 79 ePc 57 52.64 0.9
 IGT 1.64 217 eP 57 54.80 1.3
 eS 58 16.00
 KEK 1.80 231 ePn 58 01.20 5.5X
 PAIG 1.83 120 ePc 57 55.88 -0.3
 AGG 1.91 163 ePc 57 58.28 0.9
 eS 58 23.16
 EVR 1.94 175 ePb 58 00.00 2.1
 NEO 1.98 141 ePg 58 01.50 3.1X
 NB2 21.19 346 P 02 28.80 16.6X
 0.7s 1.90nm
 S.D. = 1.3 on 18 of 22 abs.

NOV 02, 1990 10h 36m 34.60± 1.02s
 40.500 N ± 9.8km 21.783 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.1 (THE).

FNA 0.42 313 ePd 36 42.78 -0.4
 eS 36 49.26
 GRG 0.65 46 ePc 36 47.82 0.1
 LIT 0.67 126 iPd 36 47.78 -0.2
 eS 36 58.10
 OHR 0.96 310 ePn 36 53.50 0.5
 VAY 1.01 36 ePn 36 53.40 -0.4
 SOH 1.24 74 ePc 36 57.98 0.3
 S.D. = 0.5 on 6 of 6 abs.

NOV 02, 1990 11h 09m 18.13± 0.43s
 13.777 N ± 8.6km 143.934 E ± 6.1km
 DEPTH = 33.0km (normal)
 4.8mb (5 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUMO 0.93 102 iPd 09 35.00 0.2
 PJG 0.93 102 iPd 09 35.10 0.3
 GUA 0.98 104 iPd 09 35.00 -0.6
 eS 09 47.30
 WB5 34.74 196 eP 16 07.20 -0.4
 ASPA 38.48 195 iPd 16 38.30 -0.8
 0.4s 10.50nm 5.0mb
 MBL 42.02 215 eP 17 10.70 2.4
 0.3s 3.00nm 4.5mb
 LZH 42.20 309 (P) 17 10.00 0.2
 WARB 43.14 203 iPc 17 19.00 1.6
 0.3s 8.00nm 4.9mb
 NANU 45.59 218 eP 17 36.00 -1.1
 FORR 46.91 199 iPd 17 47.00 -0.4
 0.4s 23.00nm 5.5mb
 COOL 49.52 206 eP 18 07.30 -0.5
 MRWA 50.55 212 eP 18 16.00 0.4
 BAL 51.32 210 eP 18 21.40 -0.1
 MUN 52.69 210 eP 18 31.40 -0.3
 GUN 55.59 294 P 18 53.80 0.2
 PKI 55.99 294 P 18 56.30 -0.2
 KKN 56.12 294 P 18 57.00 -0.3
 DMN 56.26 294 P 18 58.40 0.0
 GKN 56.69 295 P 19 00.70 -0.6
 YKA 83.11 27 eP 21 43.20 1.5
 0.5s 2.00nm 4.5mb
 LPB 148.98 99 ePKP 29 00.00 -1.6
 S.D. = 1.0 on 21 of 21 obs.

? NOV 02, 1990 11h 18m 33.43± 4.70s
 8.338 S ± 14.5km 149.427 E ± 47.8km
 DEPTH = 33.0km (normal)
 4.0mb (1 abs.)
 EAST PAPUA NEW GUINEA REGION (207)
 ML 4.0 (PMG).

PMG 2.49 244 iP 19 13.00 0.5
 0.7s 328.77nm
 eS 19 39.00
 LAT 2.93 305 eP 19 19.00 0.2
 YYYY 4.01 301 eP 19 34.00 -0.3
 WB5 18.55 230 eP 22 48.70 -1.0
 ASPA 21.30 223 eP 23 20.20 0.6
 0.4s 2.90nm 4.0mb
 S.D. = 0.9 on 5 of 5 obs.

NOV 02, 1990 12h 50m 17.82± 0.12s
 41.188 N ± 2.5km 142.158 E ± 2.7km
 DEPTH = 71.0km (36 depth phases)
 5.3mb (65 obs.)

HOKKAIDO, JAPAN REGION (224)
 mb 5.4 (BRK). Felt (IV) at
 Misawa, Honshu.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 29C
 Centroid Location:
 Origin Time 12:50:19.0 0.3
 Lat 41.34N 0.05 Lon 141.97E 0.06
 Dep 59.3 5.1 Half-duration 2.1
 Moment Tensor; Scale 10**16 Nm
 Mrr=-0.88 0.35 Mtt= 9.14 0.58
 Mff=-8.26 0.52 Mrt= 8.64 0.59
 Mrf= 7.17 0.59 Mtf= 0.44 0.57
 Principal Axes:
 T Val= 14.86 Plg=32 Azm=347
 N -1.34 37 229
 P -13.52 36 105
 Best Double Couple: Mo=1.4*10**17
 NP1: Strike=134 Dip=37 Slip= -3
 NP2: 227 88 -127

HOOJ 1.46 35 iPd 50 41.70 -1.0
 S 51 00.00
 MRRJ 1.48 327 P 50 41.90 -1.0
 S 51 00.30
 AOMJ 1.49 246 P 50 43.90 0.8
 eS 51 04.70
 OFUJ 2.14 190 eP 50 51.80 -0.2
 eS 51 17.90
 KUSJ 2.69 44 iPd 50 56.90 -2.7
 S 51 26.70
 ASAJ 2.95 7 iP+ 51 02.30 -1.0
 S 51 38.80
 YAMJ 3.43 209 P 51 10.40 0.4
 NIIJ 4.64 213 P 51 27.80 0.8
 KAKJ 5.21 198 P 51 32.30 -2.7
 eS 52 30.40
 MAT 5.57 215 iPc 51 40.70 0.7
 eS 52 45.00
 CHJJ 5.70 207 P 51 40.70 -1.1
 MTMJ 5.71 218 P 51 43.40 1.3
 IIDJ 6.60 212 P 51 53.90 -0.5
 TSRJ 7.44 223 P 52 07.40 1.5
 WKYJ 8.68 219 P 52 23.00 -0.1
 YONJ 9.09 232 eP 52 30.20 1.6
 TKSJ 9.65 224 P 52 36.00 -0.2
 MDJ 9.84 295 Pc 52 39.00 0.2
 3.0s 1700.00nm 6.5mb X
 Z 22s 5.80um
 N 12s 1.60um
 E 11s 1.80um

SHNJ 11.24 235 eP 52 54.00 1.5
 KUMJ 12.52 230 eP 53 16.30 1.6
 CN2 12.61 287 Pc 53 14.00 -1.9
 4.0s 500.00nm 5.7mb X
 Z 17s 6.20um
 N 15s 2.60um
 E 15s 1.70um

KAGJ 13.49 226 eP 53 27.00 -0.5
 SNY 13.94 279 eP 53 34.80 1.5
 0.6s 30.00nm 4.9mb
 Z 19s 3.10um
 N 13s 1.30um
 E 16s 2.40um

DL2 15.89 268 eP 53 59.00 0.7
 1.0s 200.00nm 5.2mb
 N 11s 0.60um
 eS 56 56.00
 SSE 19.66 246 Pd 54 41.50 -2.0
 1.0s 110.00nm 5.1mb
 Z 20s 1.40um
 N 12s 0.60um
 E 12s 0.50um
 sP 55 06.00
 BJI 19.74 275 eP 54 41.00 -3.3X
 3.0s 480.00nm 5.3mb
 Z 16s 2.61um
 E 14s 1.05um
 PP 54 58.00
 eS 58 15.00
 eSS 58 46.00

TIA 20.13 264 eP 54 45.90 -2.6
 Z 34s 2.20um 4.3MsZ
 N 10s 0.90um
 E 10s 0.70um
 S 58 21.00
 NJ2 20.76 251 Pd 54 52.80 -2.1
 1.0s 200.00nm 5.4mb
 Z 20s 1.00um 4.2MsZ
 N 15s 1.50um
 E 14s 0.60um
 eS 58 33.00
 HHC 23.03 279 Pc 55 16.00 -1.5
 Z 28s 3.00um 4.6MsZ
 N 13s 0.70um
 E 20s 2.00um
 eS 59 20.00
 TIY 23.16 271 iPd 55 17.00 -1.7
 Z 17s 1.60um 4.5MsZ
 N 13s 0.60um
 E 15s 0.80um

PP 55 50.50
 S 59 24.00
 ANP 23.43 233 e(P) 55 23.00 1.7
 BTO 24.23 279 P 55 27.00 -2.1
 N 14s 0.90um
 E 17s 2.10um
 PP 56 00.00
 S 59 37.50

SMY 24.46 51 eP 55 32.80 1.8
 0.9s 346.40nm 5.8mb
 WHN 24.81 254 eP 55 34.00 -0.6
 1.0s 100.00nm 5.2mb
 Z 20s 1.90um 4.6MsZ
 N 14s 1.50um
 QZH 25.43 238 Pd 55 40.80 0.4
 E 15s 0.68um
 XAN 27.16 266 P 55 54.20 -2.1
 E 13s 0.70um
 S 00 33.00

PJG 27.60 174 eP 55 58.20 -2.1
 LZH 30.19 273 Pc 56 22.00 -1.6
 1.5s 30.00nm 4.8mb
 Z 34s 1.60um 4.4MsZ
 E 16s 0.77um
 PcS 03 02.00
 GTA 32.12 281 Pc 56 38.80 -1.6
 0.8s 20.00nm 5.0mb
 Z 18s 2.70um 5.0MsZ
 E 18s 2.80um

pP 56 52.00 52kmX
 PP 57 46.20
 PcP 59 28.30
 eS 01 45.00
 ScP 03 05.60
 PcS 03 12.90
 ScS 07 02.60

CD2 32.47 264 P 56 41.40 -2.1
 0.5s 30.00nm 5.4mb
 Z 30s 1.16um 4.4MsZ
 N 12s 0.68um
 GYA 32.69 255 P 56 44.40 -1.1
 Z 18s 0.90um 4.5MsZ
 N 15s 1.20um
 E 15s 1.10um

S 01 51.00
 QIZ 35.31 241 eP 57 09.20 1.2
 N 13s 0.50um
 E 12s 0.60um
 eS 02 43.00
 KMI 36.34 256 P+ 57 16.00 -0.9
 KMI 36.34 256 Pd 57 17.00 0.1
 1.5s 110.00nm 5.6mb
 Z 20s 1.50um 4.8MsZ

sP 57 43.00
 S 02 50.00
 ANM 37.79 34 e(P) 57 27.80 -0.6
 WMO 39.63 293 iPc 57 44.10 0.0
 4.0s 800.00nm 6.0mb X
 Z 16s 2.00um 5.0MsZ
 N 13s 0.95um
 E 13s 1.56um

S 03 42.00
 ScS 07 44.00
 TTA 41.73 37 eP 58 01.10 0.1
 SVW 41.90 40 eP 58 03.10 0.7
 LOE 41.96 248 eP 58 04.00 0.7
 KKM 41.96 221 ePd 58 08.50 5.1X

BRW	42.39	25	eP	58	05.10	-1.1	SUF	64.55	333	iP	00	47.80	-1.3	MWC	74.87	58	eP	01	49.00	-3.8X	
LSA	42.56	271	Pd	58	09.80	1.1	RMW	64.66	48	P	00	50.00	-0.2				e	02	12.00	87kmX	
			S	04	28.00		ASPA	64.98	188	iPd	00	51.30	-0.9	GSC	74.98	56	eP	01	53.00	-0.2	
IMA	42.85	33	eP	58	10.00	-0.2		0.9s	64.20nm				5.6mb		DAU	74.98	49	P	01	54.50	1.0
	0.7s	67.60nm						23s	0.70um				4.8MsZ		BAL	75.21	203	eP	01	54.00	-0.3
CHG	43.00	252	ePc	58	12.60	0.8	LON	65.05	49	P	00	52.40	-0.3	KAS	75.36	312	eP	01	56.80	1.5	
	1.0s	27.50nm					MBL	65.40	203	eP	00	53.90	-1.0	BWA	75.46	175	eP	01	57.70	2.1	
CHTO	43.00	252	iPc	58	12.50	0.7	EDM	65.76	40	iPd	00	56.10	-0.9	PEC	75.66	58	P	01	57.40	0.4	
	0.9s	23.66nm					NUR	66.57	331	iP	01	01.00	-1.0				pP	02	17.00	73km	
KDC	43.74	45	eP	58	27.30	57kmX		0.6s	41.70nm				5.6mb	KLB	75.84	201	eP	01	58.00	0.2	
			e	58	16.70	-0.6	NEW	66.78	46	P	01	03.30	-0.4	ADE	75.85	183	eP	01	59.00	1.2	
			i	58	30.90	54kmX		1.0s	16.25nm				4.9mb				0.7s	50.68nm		5.6mb	
BDT	43.99	250	eP	58	20.80	1.0	DZM	66.85	155	iPc	01	05.70	1.4	PLM	76.19	58	eP	01	58.00	-2.3	
NST	44.26	248	iPd	58	23.50	1.5	FHC	67.14	55	eP	01	07.00	0.9				e	02	20.00	83kmX	
PMR	44.99	39	eP	58	26.90	-0.4		0.9s	43.00nm				5.4mb	TPC	76.22	57	eP	02	20.00	-0.2	
	1.2s	75.00nm															e	02	19.00	70km	
FBA	45.32	34	eP	58	29.90	0.0	RMQ	67.61	174	iPd	01	07.40	-1.5	CAN	76.39	174	eP	02	01.90	1.0	
RAB	46.08	166	eP	58	38.00	1.6		0.7s	106.00nm				5.9mb	SPC	76.51	325	eP	02	02.00	0.3	
TOA	46.32	38	eP	58	38.40	0.4	NANU	68.07	207	eP	01	11.50	-0.3	MUN	76.64	202	eP	02	02.70	0.4	
			i	58	54.70	64km		0.4s	9.00nm				5.1mb	BAR	76.75	58	eP	02	03.00	-0.2	
GUN	47.45	272	P	58	47.44	-0.2	LBFM	68.11	54	P	01	11.70	-0.7				e	02	23.00	74km	
	0.4s	275.00nm												KSP	76.88	328	iPc	02	03.50	0.0	
KKN	47.96	273	P	58	51.52	0.0	WDC	68.16	55	iPd	01	12.50	0.1				i	02	30.50	105kmX	
	0.8s	249.00nm															e	04	43.70		
PKI	47.98	272	P	58	51.30	-0.5	WARB	68.56	195	eP	01	15.00	0.2	BBTK	76.96	312	eP	02	06.00	1.7	
	0.8s	77.00nm						0.5s	22.00nm				5.4mb	NWAO	77.25	201	eP	02	06.00	0.4	
DMN	48.19	272	P	58	53.08	-0.2	SES	68.63	41	eP	01	14.00	-1.2	TNR	77.29	321	ePc	02	07.00	1.1	
	0.5s	77.00nm						0.7s	50.00nm				5.6mb	PSZ	77.62	324	iP	02	08.10	0.4	
GKN	48.34	273	P	58	53.74	-0.5	LTCM	68.64	55	P	01	15.60	0.3	GLA	77.68	57	eP	02	09.00	0.7	
SNG	50.06	239	eP	59	08.00	0.6											e	02	25.00	57kmX	
INK	50.45	29	iPc	59	09.10	-0.6	MIN	68.88	55	eP	01	16.50	-0.5	BRG	77.78	329	eP	02	08.00	-0.4	
	0.6s	B7.00nm					BRS	68.94	170	iPc	01	18.00	0.8				e	02	16.30	26kmX	
PMG	50.55	174	eP	59	10.00	-1.0											i	02	44.00		
HYT	50.66	39	P	59	12.50	0.9	ORV	69.41	55	ePd	01	19.50	-0.6				e	05	04.40		
IPM	51.78	237	ePc	59	22.00	1.5								CLL	77.79	330	iPc	02	08.10	-0.4	
	1.0s	63.00nm					UPP	69.49	334	iP	01	18.00	-1.3				51.00nm		5.2mb		
			i	00	33.00	339kmX	FFC	69.92	34	eP	01	22.00	-0.9	EYL	77.90	314	eP	02	09.70	0.2	
KGM	52.38	232	ePd	59	26.20	1.3		0.8s	24.00nm				5.2mb	PRU	78.25	329	ePc	02	11.00	0.0	
MBC	52.39	17	eP	59	24.00	-0.3	BRK	69.94	57	ePd	01	23.20	-0.1				i	02	13.00	6kmX	
	1.0s	66.00nm																			
			pP	59	54.50	130kmX	TA8	69.98	303	eP	01	22.00	-1.8	RKG	78.39	201	iPd	02	05.40	-6.5X	
SIT	52.90	43	e(P)	59	31.50	3.2X	NB2	70.59	337	P	01	25.60	-1.3	SRO	78.39	325	eP	02	12.50	0.7	
			e	59	48.50	66km		0.9s	60.80nm				5.5mb	TOO	78.44	177	iPd	02	13.90	1.8	
HNR	52.97	158	eP	59	29.00	-0.2	GCC	70.62	58	eP	01	28.10	0.6				0.8s	33.00nm		5.3mb	
NDI	53.55	278	iPc	59	32.90	-0.6								JMB	78.45	317	iPd	02	13.00	0.7	
	0.7s	6.16nm					ARN	70.72	57	P	01	46.70	69km	BZS	78.57	322	eP	02	13.00	0.1	
PSI	54.56	237	ePd	59	40.30	-0.7								ZST	78.61	326	eP	02	13.90	0.8	
	0.7s	30.10nm					LRM	70.80	46	eP	01	28.50	-0.3				e	05	13.70		
MTN	54.72	193	eP	59	40.00	-2.0								GOL	78.77	47	P	02	15.00	0.5	
	0.5s	78.00nm					SHI	70.91	293	e(P)	01	32.00	2.4				1.2s	20.49nm		4.9mb	
PPI	56.10	233	eP	59	51.50	-0.6	CMB	71.02	56	ePd	01	30.20	0.2	WIT	78.78	334	e(P)	02	25.00	11.1X	
KNA	57.99	195	eP	00	04.40	-0.9								GLD	78.81	47	P	02	15.60	1.0	
HYB	58.97	266	eP	00	11.50	-0.9	PRS	71.44	58	eP	01	32.40	-0.1				1.2s	35.35nm		5.2mb	
	1.0s	50.00nm												MOX	78.84	330	eP	02	15.00	0.7	
			e	00	28.50	64km	LLA	71.54	57	eP	01	33.30	0.2				1.8s	50.00nm		5.1mb	
KEV	59.78	339	iP	00	17.20	0.0								Z	27s	0.80um			4.9MsZ		
	0.8s	38.10nm					KVN	71.81	54	P	01	35.60	0.7	VKA	78.88	326	e(P)	02	18.00	3.4X	
YKA	59.95	31	eP	00	17.00	-1.5								ALT	78.99	313	iP	02	15.90	0.5	
	0.6s	9.50nm					FRI	72.09	56	ePd	01	36.10	-0.2	HOF	79.01	330	iPd	02	15.70	0.4	
QUE	60.33	286	eP	00	20.80	-0.9											0.6s	8.00nm		4.8mb	
			eS	08	32.00		AKU	72.36	352	eP	01	38.60	1.3	BNT	79.26	315	iP	02	17.80	1.0	
			e	10	05.20			0.9s	26.89nm				5.2mb	MFT	79.29	315	eP	02	18.00	1.0	
CTA	61.08	176	iPd	00	25.70	-0.8	CMS	72.39	177	eP	01	39.00	1.2	KHC	79.31	328	iPc	02	17.40	0.5	
	1.1s	43.04nm					FORR	72.85	193	eP	01	40.40	-0.1				e	02	28.00	34kmX	
WB5	61.18	188	iP	00	25.50	-1.7	TNP	72.95	54	P	01	42.10	0.5	EKA	79.41	341	P	02	19.00	1.7	
WRA	61.25	188	P	00	25.00	-2.7		0.8s	20.00nm				5.1mb				0.6s	6.70nm		4.7mb	
	0.5s	66.00nm												WTS	79.42	334	eP	02	13.00	-4.3X	
SOD	61.38	337	iP	00	26.60	-1.5	ISA	73.70	57	eP	01	45.00	-0.8				0.7s	15.00nm		5.0mb	
OIS	61.47	183	eP	00	28.00	-1.2								WET	79.57	329	iPd	02	19.10	0.8	
DAG	61.70	355	iPd	00	28.30	-1.9	ABL	73.73	58	P	01	47.30	1.1	KDZ	79.64	317	eP	02	20.00	1.2	
	0.9s	70.59nm												HRI	79.66	305	eP	02	22.00	2.8	
			i	01	13.00	192kmX	MRWA	74.12	204	eP	01	48.00	0.0	BEO	79.71	322	eP	02	18.00	-1.1	
POO	61.84	271	iPd	00	30.70	-1.3	CLC	74.15	56	eP	01	48.00	-0.4	GRF	79.76	330	ePc	02	19.90	0.6	
	0.7s	31.51nm															1.2s	66.00nm		5.4mb	
GBA	62.18	264	P	00	33.70	-0.4	DUG	74.23	50	P	01	48.40	-0.5	Z	21s	0.50um			4.8MsZ		
MAIO	62.32	295	iPc	00	34.40	-0.6	KVT	74.27	311	iP	01	50.30	1.3				e	02	28.50	27kmX	
			e	01	12.00	159kmX	BW06	74.36	47	P	01	49.80	0.1				e	02	39.00		
			eS	09	04.00			1.0s	25.00nm				5.1mb	KHL	79.83	312	iP	02	19.70	-0.2	
BQM	62.40	272	eP	00	34.00	-1.6	BBU	74.45	291	eP	01	48.70	-1.4	BCK	79.83	311	iP	02	19.50	-0.5	
GMW	64.06	49	P	00	46.80	0.6		1.0s	250.00nm				6.1mb	CSS	79.97	308	eP	02	21.00	0.3	
			pP	01	06.00	73km	SBB	74.72	57	eP	01	52.00	0.2	RZN</							

		1.0s		25.00nm					
LIC	124.05	319	PKP	09	09.10	-0.8			
SEK	125.87	262	iPKPc	09	09.00	-4.3X			
	1.0s								
SPA	131.00	180	iPKPd	09	20.80	-1.0			
	0.9s								
			i	09	35.60				
LPB	144.18	56	PKP	09	45.00	-2.8X			
CNCB	144.46	56	PKP	09	48.00	-0.5			
SIV	147.85	45	PKP	09	53.80	0.4			
PDCR	151.43	3	ePKP	10	00.60	1.7			
			e	10	05.50				
AIA	151.59	157	ePKP	10	05.30	7.7X			
BAO	153.06	22	ePKPd	10	10.00	8.6X			
PPD	157.77	35	e(PKP)	10	26.10	18.8X			
	S.D. = 1.0 on 269 of 286 obs.								
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?	NOV 02, 1990	15h	36m	02.41±	8.51s				
	21.702 S	±27.7km		32.647 E	±75.8km				
	DEPTH = 10.0km (geophysicist)								
	MOZAMBIQUE					(581)			
	mbLg 3.3 (BUL).								
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BUL	4.08	292	iPn	37	06.20	-0.1			
			iSn	37	55.80				
			iSg	38	13.50				
BFT	4.63	211	eP	37	15.00	0.8			
			S	38	05.50				
SLR	5.67	224	eP	37	29.00	0.1			
			S	38	36.60				
KSR	6.70	231	eP	37	47.50	4.0X			
			S	39	05.00				
SEK	8.01	214	eP	38	01.00	-0.8			
			S	38	35.50				
SWZ	8.62	229	eP	38	10.00	-0.2			
			S	39	54.00				
WIN	14.43	264	eP	39	29.30	0.3			
	S.D. = 0.7 on 6 of 7 obs.								
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*	NOV 02, 1990	15h	49m	03.30±	1.59s				
	33.673 S	± 6.5km		71.595 W	±11.9km				
	DEPTH = 10.0km (geophysicist)								
	NEAR COAST OF CENTRAL CHILE					(135)			
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LCCH	0.20	6	eP	49	07.60	-0.1			
			iS	49	20.00				
LNV	0.32	152	iPc	49	10.10	0.2			
			iS	49	24.10				
			i	49	25.20				
TACH	0.55	88	iP	49	14.80	0.4			
			iS	49	34.40				
CHCH	0.83	109	iP	49	19.00	-0.3			
			iS	49	40.10				
PCH	0.90	87	eP	49	20.50	-0.2			
PEL	0.93	56	iPc	49	21.40	0.4			
			iS	49	45.00				
FCH	1.14	73	eP	49	24.50	-0.4			

CIN	0.54	314	iPd	07	19.00	0.5
			iSg	07	27.00	
ELL	1.16	114	iPn	07	30.40	1.0
KHL	1.33	34	iPn	07	31.80	-0.3
KSL	1.37	144	eP	07	31.20	-1.4
SMG	1.47	290	eP	07	33.60	-0.4
IZM	1.57	319	iPn	07	35.20	-0.3
BCK	1.62	81	ePn	07	36.50	0.2
ALT	2.19	33	ePn	07	48.00	3.4X
NPS	3.10	232	eP	07	58.00	0.7
			eS	08	35.70	
S.D. = 0.9 on 8 of 9 obs.						

% NOV	02,	1990	17h	07m	43.27± 0.63s	
40.535 N ± 5.4km			23.589 E ± 6.0km			
DEPTH = 10.0km			(geophysicist)			
GREECE					(364)	
ML 2.1 (THE).						
SOH	0.34	328	eP	07	50.30 0.0	
			eS	07	54.70	
OUR	0.36	124	ePd	07	51.10 0.4	
			eS	07	55.78	
THE	0.49	282	ePc	07	52.62 -0.5	
SRS	0.58	0	ePd	07	54.94 -0.1	
			eS	08	02.82	
PAIG	0.61	173	ePd	07	54.78 -0.8	
			eS	08	02.70	
KNT	0.82	320	eP	07	59.14 0.0	
			eS	08	10.32	
LIT	0.95	243	iPc	08	02.14 0.8	
			eS	08	13.50	
GRG	1.00	295	eP	08	02.26 0.1	
			eS	08	15.82	
S.D. = 0.6 on 8 of 8 obs.						

? NOV	02,	1990	18h	34m	18.97± 7.27s	
33.892 S ± 26.6km			72.007 W ± 45.6km			
DEPTH = 10.0km			(geophysicist)			
OFF COAST OF CENTRAL CHILE					(134)	
LNV	0.50	97	iPd	34	20.00 -9.1X	
			iS	50	27.40	
LCCH	0.55	41	iPd	34	30.20 0.0	
			iS	34	39.00	
TACH	0.92	75	iPd	34	36.00 -0.6	
			iS	34	49.30	
CHCH	1.13	92	iPd	34	39.80 -0.3	
			iS	34	56.80	
SAN	1.20	69	iP	34	41.40 0.0	
			iS	34	57.70	
ROCH	1.24	43	iPd	34	41.50 -0.7	
			iS	34	58.30	
PCH	1.27	78	iPd	34	44.10 1.4	
			i	34	58.50	
PEL	1.33	56	iPd	34	43.40 -0.2	
			iS	35	02.00	
FCH	1.54	69	iPd	34	46.20 -0.6	
			iS	35	08.40	
JACH	1.69	45	eP	34	49.50 0.7	
			i	35	13.50	
MDZ	2.83	70	eP	35	10.90 5.8X	
			iS	36	00.70	
S.D. = 0.8 on 9 of 11 obs.						

NOV	02,	1990	20h	59m	26.82± 0.32s	
26.951 S ± 4.6km			63.317 W ± 4.7km			
DEPTH = 558.2 ± 4.7 km						
5.1mb (47 obs.)						
SANTIAGO DEL ESTERO PROV., ARG. (132)						
CYA	2.65	235	iPd	00	40.80 -0.3	
ZON	6.55	224	iPd	01	11.50 -0.2	
ANT	7.19	295	iPc	01	17.50 -0.1	
MDZ						

TACH	9.38	223	iPd	03 22.40		EVA	80.40	115	iPc	10 40.60	-1.5	PLE	0.05	346	iPgc	17 03.30	-0.7
			i	01 38.20	-1.1		0.5s		35.92nm		5.1mb				eSg	17 04.50	
CHCH	9.41	221	iPd	01 39.00	-0.6	BFT	81.54	114	iPd	10 48.00	0.1	IVA	0.54	139	iPgc	17 11.90	-0.8
			i	03 26.90			0.6s		30.00nm		5.0mb				iSg	17 19.50	
LCCH	9.65	226	iPd	01 40.90	-1.2	TNP	82.06	320	eP	10 51.20	1.0	NKY	0.56	213	iPgd	17 12.70	-0.4
CNCB	10.98	336	iPd	01 57.20	1.1		0.4s		0.69nm		3.5mb X				iSg	17 22.50	
			S	03 57.00		BUL	82.76	109	iPd	11 05.45	11.4X	BRY	0.74	240	ePg	17 15.70	-0.6
SIV	11.10	11	Pd	01 57.60	0.8		0.5s		91.55nm						eSg	17 28.50	
LPB	1.0s	164.00nm		02 00.00	1.1	MAL	84.15	44	ePc	11 01.00	0.7	PVY	0.80	149	ePg	17 16.40	-0.9
			S	04 01.00		BCAO	84.75	82	iPd	11 05.20	1.4				eSg	17 27.00	
PPD	11.98	68	iPc	02 06.70	1.2		0.6s		14.00nm		4.8mb				eSg	17 32.00	
			i	02 23.70		FFC	87.87	339	iPd	11 18.10	0.4	TTG	0.86	187	ePg	17 17.60	-0.6
ARE	12.90	322	eP	02 17.00	1.8		1.0s		23.00nm		4.9mb				eSg	17 41.30	
			eS	04 41.00		EPF	90.92	41	eP	11 32.20	0.1	HCY	1.07	219	ePg	17 22.40	0.6
VAO	15.34	79	iPc	02 40.60	1.5		0.7s		5.50nm		4.7mb				eSg	17 42.50	
			e	02 49.60		LFF	92.29	40	eP	11 38.30	0.1	BDV	1.08	204	ePg	17 22.70	0.6
			e	03 15.10			0.5s		17.50nm		5.4mb				eSg	17 57.00	
			e	04 07.00		LPO	92.40	40	eP	11 38.90	0.2	SKO	1.99	130	ePn	17 38.00	2.3X
			e	04 43.70			0.9s		13.10nm		5.0mb				iPn	17 44.30	5.9X
BMA	17.90	80	eP	03 04.40	0.5	MFF	92.79	38	eP	11 40.50	0.0	HVAR	2.17	268	iPn	18 11.90	
BAO	18.16	55	iPd	03 08.00	1.5	RJF	92.95	40	eP	11 40.90	-0.4				ePn	17 43.80	2.1
JFO	18.94	78	eP	03 14.80	1.0		0.7s		8.80nm		5.0mb				ePc	17 47.50	-0.1
			e	09 55.70		CAF	93.04	40	eP	11 41.90	0.1	S.D. = 1.1 on 10 of 13 obs.					
NNA	19.57	317	iPd	03 20.00	0.3	LPF	93.18	37	eP	11 41.50	-0.7	NOV 02, 1990 21h 25m 25.39±0.30s					
	1.0s	43.00nm		07 16.00		GRR	93.49	36	eP	11 43.00	-0.7	43.187 N ± 3.3km 0.532 W ± 4.1km					
			e	07 16.00			0.7s		11.00nm		5.1mb	DEPTH = 10.0km (geophysicist)					
PDCR	26.84	62	iPc	04 24.20	-0.8	LSF	93.51	39	eP	11 43.70	-0.2	PYRENEES (378)					
			e	04 44.80			0.7s		12.15nm		5.1mb	ML 4.1 (LDG). mblg 3.5 (MDD).					
			e	07 28.60		FLN	93.92	36	eP	11 45.00	-0.6	Felt (V) at Sorraine and Arudy,					
			e	10 17.30		TCF	93.92	39	eP	11 45.40	-0.4	France.					
SOB1	27.59	54	iPd	04 30.80	-0.7		0.6s		4.50nm		4.8mb	EPF	0.66	103	Pg	25 38.80	0.3
			e	06 34.60		LDF	94.01	36	eP	11 45.40	-0.6				Sg	25 46.20	
			e	07 28.70			0.7s		9.90nm		5.1mb	ECRI	1.56	249	iPnc	25 55.60	2.3
			e	10 18.00		MAF	94.08	39	eP	11 46.50	0.0				eSn	26 15.80	
			e	14 32.80			0.7s		6.05nm		4.9mb	LPO	1.94	39	Pn	26 00.30	1.5
TOV	37.05	349	iPd	05 50.10	-1.1	BGF	94.44	39	eP	11 47.80	-0.2				Pg	26 04.90	
GUAC	37.12	354	iPc	05 51.20	-0.7		0.7s		9.90nm		5.1mb				Sg	26 31.30	
LLAV	37.36	354	iPd	05 52.80	-0.9	LRG	94.77	43	eP	11 50.00	0.4	LFF	1.98	27	Pn	26 01.40	2.2
MORO	37.91	352	iPc	05 56.90	-1.4		0.7s		14.35nm		5.3mb				Pg	26 05.60	
FISA	38.43	350	iPc	06 00.50	-2.0	LMR	94.80	43	eP	11 50.00	0.3				Sg	26 32.90	
BIM	41.28	3	iPd	06 24.04	-1.3		0.9s		19.65nm		5.3mb	EROO	2.46	163	ePn	26 07.00	0.8
MVM	41.32	4	iPd	06 24.36	-1.3	AVF	94.85	39	eP	11 49.80	-0.1				eSn	26 33.50	
FDF	41.49	3	eP	06 25.71	-1.3		0.6s		7.20nm		5.1mb	EBR	2.49	162	ePg	26 12.00	5.5X
	0.3s	1.00nm		06 25.84	-1.3	FRF	95.00	43	eP	11 51.00	0.3				iSg	26 42.00	
CRM	41.52	4	eP	06 25.84	-1.3		0.6s		5.40nm		5.0mb	CAF	2.55	46	Pn	26 08.30	0.7
LIC	65.30	69	Pd	09 15.02	-1.0	SMF	95.05	40	eP	11 50.80	0.0				Pg	26 15.80	
	0.8s	62.00nm		09 16.58	-1.0		0.7s		26.45nm		5.6mb				Sg	26 49.80	
TIC	65.53	68	Pd	09 16.58	-1.0	SSF	95.09	39	eP	11 50.60	-0.4	RJF	2.58	34	Pn	26 08.20	0.3
	0.9s	48.50nm		09 17.24	-0.8		0.7s		13.80nm		5.3mb				Pg	26 16.00	
KIC	65.61	69	Pd	09 17.24	-0.8	LBF	95.32	39	eP	11 51.80	-0.3				Sg	26 50.50	
	0.6s	92.50nm		09 23.44	-1.2		0.8s		12.75nm		5.2mb	ETOR	2.62	206	ePn	26 09.10	0.5
LKO	66.68	65	Pd	09 23.44	-1.2	LOR	95.41	39	eP	11 52.00	-0.4				eSn	26 38.80	
	0.8s	156.50nm		09 44.00	-0.1		0.7s		13.25nm		5.3mb	ETER	2.65	108	ePn	26 11.90	3.0X
CER	69.95	118	iPd	09 44.00	-0.1	EKA	96.67	30	P	11 59.00	1.2				eSn	26 42.10	
	1.0s	50.00nm		09 59.00	2.8	HAU	97.22	39	eP	12 00.20	-0.4	LSF	3.40	25	Pn	26 19.40	-0.1
WIN	71.98	107	iPd	09 59.00	2.8		0.6s		4.50nm		5.0mb				Pg	27 32.10	
	0.4s	10.17nm		10 22.40	1.0	BSF	97.38	40	eP	12 00.90	-0.5				Sg	27 16.10	
TBI	76.54	251	iP	10 22.40	1.0		0.8s		8.05nm		5.1mb	MFF	3.43	4	Pn	26 20.50	0.6
	0.8s	45.00nm		10 23.50	-0.6	CDF	97.96	39	eP	12 03.70	-0.4				Pg	26 32.20	
BLF	77.00	116	iPd	10 23.50	-0.6		0.7s		8.80nm		5.2mb				Sg	27 03.60	
	1.0s	100.00nm		10 24.70	0.7	YKA	98.05	339	eP	12 03.70	-0.3				Sg	27 17.00	
GOL	77.02	328	iP	10 24.70	0.7		0.5s		2.50nm		4.8mb	ECHE	3.61	185	ePn	26 21.90	-0.7
	0.9s	9.47nm		10 23.00	-1.5	WRA	130.34	202	PKP	17 35.00	-0.9				eSn	27 03.00	
SWZ	77.07	114	iPd	10 23.00	-1.5		0.4s		4.90nm						Pn	26 23.30	0.0
	0.4s	118.64nm		10 31.40	1.6	GBA	141.03	102	PKP	17 50.70	-5.2X	TCF	3.66	31	Pg	26 36.60	
RUV	78.09	259	iP	10 31.40	1.6	HYB	143.56	97	iPKPd	17 58.50	-1.8				Sg	27 22.40	
	0.9s	45.00nm		10 32.30	1.5		1.0s		140.00nm			GUD	3.71	228	ePn	26 24.40	0.3
VAH	78.28	259	iP	10 32.30	1.5	NDI	145.16	78	iPKPd	18 03.50	0.8				eSn	27 06.20	
	0.9s	60.00nm		10 33.10	1.7		0.7s		150.68nm		5.4X	MAF	3.75	35	Pn	26 24.40	-0.2
TPT	78.38	259	iP	10 33.10	1.7	PSI	150.48	142	ePKPd	18 16.80	0.7				Pg	26 38.60	
	0.9s	90.00nm		10 32.00	0.0	GKN	151.59	80	PKP	18 13.20	0.3				Sg	27 26.60	
SEK	78.47	116	iPd	10 32.00	0.0		0.8s		17.00nm		0.7	BGF	4.14	34	Pn	26 29.10	-0.9
	0.5s	24.65nm		10 33.50	1.1	DMN	151.96	81	PKP	18 14.20	0.4				Pg	26 45.40	
TIO	78.59	47	iPd	10 33.50	1.1	KKN	152.14	81	PKP	18 14.10	0.4				Sg	27 38.00	
PMO	78.61	259	iP	10 34.20	1.6		0.8s		16.00nm		0.2	TOL	4.23	220	ePn	26 30.00	-1.3
	0.9s	35.00nm		10 33.80	1.2	PKI	152.23	81	PKP	18 14.20	0.2				ePg	26 49.50	
PLM	78.62	317	eP	10 33.80	1.2	GUN	152.68	81	PKP	18 15.20	0.6				eSn	27 18.50	
TVO	78.63	256	iP	10 34.40	1.6										eSb	27 26.00	
	0.9s	70.00nm		10 32.00	-2.2	S.D. = 1.0 on 97 of 100 obs.									eSg	27 42.00	
KSR	78.90	113	iPd	10 32.00	-2.2	NOV 02, 1990 21h 17m 01.71±0.72s									ePn	26 31.50	-0.5
PRY	78.93	115	iPd	10 36.00	1.6	43.279 N ± 5.8km 19.412 E ± 7.0km									eSn	27 19.60	
	0.5s	4.05nm		10 40.00	-0.4	DEPTH = 10.0km (geophysicist)									Pg	26 35.30	-0.3
SLR	80.08	114	iPc	10 40.00	-0.4	YUGOSLAVIA (383)									Sg	27 51.30	
	1.0s	55.00nm		4.9mb		ML 2.6 (TTG).											

02d 21h

CDR	4.61	82	e(Pn)	26 35.60	-1.2	RSO	0.40	349	iP	18 20.29	-0.6	RMP	0.52	284	P	22 32.00	0.3
			e	26 38.70		RS2	0.40	348	iP	18 20.33	-0.6				eSg	22 41.00	
			e	26 59.40		REF	0.42	353	iP	18 20.45	-0.6	AQU	0.67	2	P	22 35.20	0.7
			e	27 03.50		RDN	0.45	349	iP	18 20.53	-0.6				eSg	22 46.10	
			e(Sn)	27 30.30		RDT	0.51	10	iP	18 20.76	-0.7	MNS	0.87	324	P	22 36.80	-1.1
			e	27 30.40					eS	18 33.65					eSg	22 51.20	
			e	27 48.40		NCT	0.52	341	iP	18 20.76	-0.8	ASS	1.48	339	P	22 47.60	-0.3
SMF	4.65	40	Pn	26 36.40	-0.9				iS	18 33.82		ARV	1.84	350	P	22 54.00	0.9
			Sg	27 55.20		OPT	0.53	218	eP	18 20.81	-0.8	S.D. = 0.9 on 7 of 7 obs.					
EVIA	4.78	199	ePn	26 38.70	-0.6				eS	18 32.78		NOV 03, 1990 00h 31m 28.80± 0.33s					
			eSn	27 30.60		HOM	0.63	130	iP	18 22.06	-0.3	21.358 S ± 7.0km 33.282 E ± 7.2km					
SSF	4.81	35	Pn	26 38.80	-0.8	NNL	0.65	92	iP	18 22.66	0.2	DEPTH = 10.0km (geophysicist)					
			Pg	26 57.10		XLV	0.76	144	eP	18 22.58	-0.9	4.9mb (15 obs.) 5.1msz (3 obs.)					
			Sn	27 33.50					eS	18 37.11		MOZAMBIQUE (581)					
			Sg	28 00.30		AUE	0.82	209	eP	18 23.04	-0.9	CENTROID, MOMENT TENSOR (HRV)					
LPF	4.86	356	Pn	26 40.00	-0.2	AUP	0.83	211	eP	18 23.41	-0.8	Data Used: GDSN					
			Pg	26 57.80		AGU	0.83	211	eP	18 23.27	-1.0	L.P.B.: 15S, 24C					
			Sg	28 01.30		AUH	0.83	212	eP	18 23.28	-0.9	Centroid Location:					
ERUA	4.93	263	ePn	26 41.90	0.6	AUI	0.85	210	eP	18 23.30	-1.0	Origin Time 00:31:37.2 0.5					
LBF	4.96	38	Pn	26 40.60	-1.1	PDB	0.85	251	iP	18 23.51	-0.9	Lat 21.51S 0.09 Lon 33.26E 0.06					
			Pg	27 01.30					iS	18 38.19		Dep 15.0 FIX Half-duration 1.6					
			Sg	28 05.60		CNPM	0.88	128	eP	18 23.95	-0.7	Moment Tensor: Scale 10**16 Nm					
LRG	5.04	85	Pn	26 43.00	0.3				eS	18 38.81		Mrr=-4.81 0.41 Mtt=-1.09 0.62					
LOR	5.13	36	Pn	26 43.20	-0.8	BRLK	0.91	109	eP	18 24.29	-0.7	Mff= 5.90 0.36 Mrt= 0.94 1.21					
			Pg	27 03.80		NKA	0.95	44	iP	18 26.42	1.1	Mrf= 2.26 1.11 Mtf=-0.22 0.37					
			Sg	28 08.30		CKL	1.14	6	iP	18 26.83	-0.7	Principal Axes:					
LMR	5.14	86	Pn	26 45.80	1.5	SPU	1.14	13	eP	18 26.78	-0.8	T Val= 6.36 Plg=11 Azm=270					
EPLA	5.20	235	ePn	26 44.10	-1.0				eS	18 43.63		N -0.88 12 2					
			eSn	27 42.00		BGL	1.20	5	iP	18 27.74	-0.5	P -5.48 73 138					
GRR	5.21	358	Pn	26 44.20	-0.9	CRP	1.22	10	iP	18 28.01	-0.5	Best Double Couple: Mo=5.9*10**16					
			Sg	28 13.80					eS	18 45.31		NP1: Strike=345 Dip=35 Slip=-111					
FRF	5.25	83	Pn	26 46.20	0.5	MCNL	1.25	226	iP	18 27.42	-1.4	NP2: 190 58 -76					
LDF	5.42	3	Pn	26 47.90	-0.2				eS	18 44.40							
			Pg	27 09.70		SLKM	1.26	69	eP	18 27.47	-1.4						
			Sg	28 20.20					eS	18 44.98							
FLN	5.58	0	Pn	26 49.80	-0.6	CDD	1.26	205	iP	18 27.34	-1.6	BUL	4.53	285	iPnc	32 38.40	-0.8
			Pg	27 12.20					eS	18 44.67					iSn	32 52.00	
			Sg	28 24.60		CGLM	1.27	13	iP	18 28.45	-0.6				iSg	33 46.50	
EBAN	5.59	207	ePn	26 49.40	-1.3	NCG	1.35	9	eP	18 29.23	-0.8	BFT	5.23	214	iPc	32 48.00	-1.2
			eSn	27 50.00		SYI	1.47	176	iP	18 29.91	-1.4				S	33 26.50	
EHOR	6.45	215	ePn	27 03.60	0.8	SEW	1.58	87	eP	18 30.70	-2.0	KRI	5.68	322	iPn	32 46.90	-8.6X
DOU	7.76	25	iP	27 26.20	5.2X	SUA	1.67	32	eP	18 33.34	-0.6				iSn	33 38.00	
MEM	8.67	29	P	27 29.70	-3.9X				eS	18 54.48		SLR	6.33	226	iPc	33 04.00	-0.6
S.D. = 1.0 on 35 of 39 obs.						SVW	1.82	306	iPd	18 34.20	-1.6				S	34 11.00	
* NOV 02, 1990 21h 54m 04.45± 0.68s						PMS	1.90	50	iP	18 35.71	-1.2	EVA	6.41	216	iPc	33 03.50	-2.2
65.239 N ±11.9km 145.920 E ±14.1km						SKT	1.98	15	iP	18 36.62	-1.3	KSR	7.38	231	iPd	33 16.50	-2.8
DEPTH = 10.0km (geophysicist)						PWA	2.07	39	eP	18 37.70	-1.3				S	34 32.00	
4.6mb (8 obs.)						PLRM	2.28	47	eP	18 39.02	-2.8	PRY	7.67	223	iPc	33 24.00	0.5
EASTERN SIBERIA (671)						PMR	2.28	47	e(P)	18 39.60	-2.2				S	33 42.00	
						KDC	2.33	179	ePd	18 39.50	-3.0	NPA	8.43	43	iP	33 28.00	-6.0X
MAT	29.10	193	eP	00 08.00	1.0	LTJ	2.38	89	eP	18 41.05	-2.1				eS	34 49.00	
MBC	29.27	29	eP	00 09.00	0.9	KNK	2.44	55	eP	18 41.56	-2.4	SEK	8.63	215	iPd	33 34.00	-2.8
	1.0s		5.00nm		4.3mb	KNIM	2.44	81	eP	18 41.00	-3.0				S	34 01.00	
LZH	38.27	241	eP	01 27.00	0.6	GHO	2.47	45	eP	18 42.26	-2.2	BLF	10.04	218	iPd	33 52.00	-4.2X
	2.0s		29.00nm		4.7mb	CUT	2.60	25	eP	18 44.26	-1.8				S	34 36.50	
Z	12s		0.51um		4.6mszX	SML	2.71	48	eP	18 45.34	-2.3	HVD	11.56	216	eP	34 19.00	1.9
			pP	01 32.00	17kmX	GLI	2.84	71	eP	18 46.43	-2.9				S	36 20.00	
YKA	39.55	46	eP	01 34.70	-1.8	SCM	3.12	53	eP	18 50.87	-2.3	WIN	15.06	262	iPc	35 03.00	-0.6
	0.8s		4.40nm		4.2mb	VZV	3.14	69	eP	18 49.71	-3.8	CER	17.22	223	iPc	35 31.20	0.1
NB2	49.60	333	P	02 57.50	0.4	VLZ	3.27	68	eP	18 52.10	-3.0				S	38 31.50	
	0.8s		4.80nm		4.5mb	TTA	3.30	332	iPd	18 53.70	-2.0	LWI	19.50	346	iPd	35 58.70	-0.8
GUN	52.52	255	P	03 19.40	-0.7	TRF	3.56	17	eP	18 58.31	-1.0	NAI	20.26	10	iPd	36 08.00	0.5
KKN	52.87	256	P	03 22.20	-0.4	KLU	3.57	64	iP	18 56.43	-2.9	BCAO	29.43	329	iPc	37 34.20	-0.7
	0.6s		23.00nm		5.3mb	TOA	3.73	54	iPd	18 59.60	-1.9		0.8s		20.00nm		5.0mb
GKN	52.95	256	P	03 22.40	-0.6	PAX	4.48	46	eP	19 09.87	-2.0				ic	39 07.80	
	0.6s		25.00nm		5.3mb	GLB	4.52	69	eP	19 08.51	-3.9				ic	44 00.60	
PKI	53.01	255	P	03 23.00	-0.7	NEA	4.81	18	eP	19 13.45	-2.8	KIC	46.37	302	P	39 57.22	-0.1
DMN	53.10	256	P	03 23.80	-0.5	TGL	4.89	78	eP	19 14.98	-2.5	TIC	46.76	302	P	39 59.48	-1.0
LRM	53.92	58	eP	03 27.50	-2.6X	WRH	4.89	24	eP	19 14.84	-2.5	MAW	49.83	166	iP	40 23.60	0.0
CLL	58.26	327	iP	04 00.80	-0.1	HDA	5.09	29	eP	19 17.36	-2.7	GBA	55.55	55	P	41 06.00	-0.9
	1.0s		10.00nm		4.8mb	CCB	5.10	24	eP	19 17.45	-2.8	HYB	58.76	52	iPd	41 28.50	-1.2
MOX	59.19	328	e(P)	04 09.00	1.6	BALM	5.15	75	eP	19 18.25	-2.8	QUE	60.62	33	eP	41 42.50	0.0
WRA	85.38	191	P	06 43.00	0.3	FBA	5.33	23	ePc	19 20.70	-2.8	VAY	63.15	351	eP	42 00.50	1.6
	0.7s		1.10nm		4.2mb	YAH	5.42	82	eP	19 22.52	-2.4	PDCR	69.32	264	eP	42 38.30	-0.7
S.D. = 1.0 on 13 of 14 obs.						GLM	5.49	24	eP	19 22.97	-2.7	GKN	69.78	47	P	42 39.40	-2.3
& NOV 03, 1990 00h 18m 04.90s						IMA	6.04	356	eP	19 31.30	-2.0	DMN	69.86	48	P	42 41.60	-0.7
60.072 N 152.595 W						67 obs. associated											
DEPTH = 103.9km						% NOV 03, 1990 00h 22m 21.17± 1.44s											
SOUTHERN ALASKA (2)						41.685 N ±12.2km 13.372 E ± 6.6km											
<AGS-P>						DEPTH = 10.0km (geophysicist)											
						SOUTHERN ITALY (390)											
INE	0.23	267	iP	18 19.28	0.8	AZI	0.31	9	P	22 27.20	-0.4						
INW	0.27	269	iP	18 19.42	0.8				eSg	22 33.60							
			eS	18 31.20		SDI	0.33	86	P	22 27.90	-0.2						
RED	0.36	346	iP	18 19.85	-0.7				eSq	22 34.50							

HAU	73.15	341	eP	43	01.00	-0.4	TNS	1.50	45	ePnc	12	22.80	1.9	Sg	38	54.00						
	1.0s					4.9mb			eSn	12	42.20			8.90	95	P	37	23.00	-1.2			
CDF	73.25	342	eP	43	02.00	0.0	MEM	1.52	341	iP	12	23.30	2.1X	CHG	8.94	167	eP	37	27.80	3.2X		
	1.0s					4.7mb	FEL	1.53	148	ePg	12	21.50	0.1	GUN	9.65	275	P	37	34.56	-0.1		
LOR	73.27	340	eP	43	07.20	5.1X	ENN	1.69	341	ePn	12	21.50	-2.1	PKI	10.07	273	P	37	39.46	-1.0		
	0.6s					4.4mb		0.6s		21.00nm				0.5s		116.00nm			6.3mb	X		
CLL	74.52	347	eP	43	15.00	5.9X				eSn	12	49.00		KKN	10.18	274	P	37	41.90	0.0		
CHG	75.65	63	ePc	43	15.50	-0.9				eSg	12	52.00			0.4s		259.00nm			6.7mb	X	
	1.0s					5.0mb	DOU	1.71	304	P	12	24.30	0.4	DMN	10.34	273	P	37	43.64	-0.4		
CHTO	75.65	63	eP	43	15.70	-0.7	GRF	2.93	78	ePg	12	49.20	7.8X		0.7s		123.00nm			6.2mb	X	
	1.0s					4.8mb				eSg	13	27.70		LZH	10.41	34	eP	37	44.00	-1.0		
BAO	76.51	258	ePd	43	23.00	1.5		S.D. = 1.5	on	8	of	10	obs.	BDT	10.48	168	eP	37	47.00	1.3		
SBA	77.41	171	P	43	27.80	2.6								GKN	10.74	275	P	37	48.96	-0.6		
			eS	53	28.80		%	NOV	03, 1990	03h	23m	14.38±	0.82s		0.5s		90.00nm			6.2mb	X	
PPD	77.50	251	eP	43	27.90	1.2								GTA	12.09	11	eP	38	09.00	1.4		
			e	43	32.70									E	10s		0.60um					
NB2	84.02	349	P	44	01.40	1.0	TURKEY							XAN	12.28	55	eP	38	09.60	-0.6		
	1.0s					4.7mb		MD	2.9	(ISK).				WHN	15.67	75	Pc	38	53.00	-1.5		
CD2	85.26	54	P	44	07.40	0.1								TIY	16.62	49	eP	39	11.60	5.0X		
GYA	85.50	60	P	44	09.00	0.3								BTO	16.99	37	eP	39	13.00	1.7		
			S	54	40.00		IZM	0.79	218	iPg	23	29.40	-0.3		N	13s		0.60um				
GTA	86.64	45	eP	44	14.40	0.4								E	13s		0.90um					
	1.0s					5.0mb	EDC	1.32	360	iPn	23	39.00	0.2				eS	42	17.00			
Z	24s					5.1MszX	BNT	1.33	2	iPn	23	39.00	0.1	NDI	17.28	278	eP	39	14.50	-0.3		
LZH	87.77	50	eP	44	18.50	-1.1	EZN	1.44	304	iPn	23	40.30	-0.2		0.5s		24.65nm			4.6mb		
	1.5s					5.2mb	KHL	1.47	118	ePn	23	42.80	1.8	WMO	17.80	338	iPd	39	24.50	3.3X		
Z	20s					4.9Msz	KGT	1.49	343	ePn	23	40.50	-0.7	HYB	19.60	243	iP	39	44.00	1.2		
			pP	44	24.50	19kmX	ALT	1.74	88	ePn	23	43.00	-2.0	BJI	20.33	47	(P)	40	06.50	16.3X		
SIV	88.22	254	P	44	24.00	2.0	MFT	1.82	346	ePn	23	47.00	1.0	SNG	20.60	169	eP	39	55.00	1.7		
ADE	89.83	128	e(P)	44	31.00	1.5	YLV	1.93	36	ePn	23	49.50	1.9X	KSH	20.94	310	eP	40	00.00	3.2X		
XAN	90.56	54	eP	44	32.00	-0.7		S.D. = 1.3	on	8	of	9	obs.	GBA	22.76	236	P	40	29.00	14.2X		
ASPA	90.74	116	iPc	44	34.90	1.1								POO	22.88	252	eP	40	24.00	7.9X		
	1.0s					5.2mb								SOD	57.24	334	eP	45	14.00	13.8X		
WRA	92.60	112	P	44	43.00	0.6								WB5	59.58	138	eP	45	16.00	-1.1		
	1.0s					4.6mb								WRA	59.62	138	P	45	16.00	-1.3		
CNCB	94.03	250	P	44	52.00	2.3	OFF COAST OF JALISCO, MEXICO	(54)							0.6s		3.90nm			4.7mb		
LPB	94.25	251	eP	44	50.00	-0.5	CRX	5.63	75	(P)	34	30.00	-0.6	ASPA	62.28	141	eP	45	34.30	-1.1		
Z	20s					5.5Msz	ANMO	16.91	357	eP	37	03.70	1.0		0.4s		3.20nm			4.8mb		
			LR	18	46.00			1.2s		13.67nm				CDF	69.60	315	eP	46	28.70	6.7X		
ZOBO	94.37	251	P	44	52.30	1.0	TPC	18.65	331	eP	37	24.00	-0.1	BSF	70.10	314	eP	46	40.10	15.0X		
	1.5s					5.4mb	RVR	19.19	328	eP	37	31.00	0.5		0.7s		4.40nm					
Z	22s					5.0Msz	TUL	19.79	24	eP	37	37.20	0.1	SMF	72.39	314	eP	46	47.40	8.6X		
			LR	17	32.00			1.3s		24.00nm					0.8s		3.35nm			4.4mb		
YKA	133.41	340	ePKP	50	50.40	4.0X	SBB	19.97	329	eP	37	41.00	1.9	AVF	72.65	314	eP	46	46.60	6.3X		
	0.6s					1.80nm	GSC	19.99	332	eP	37	36.00	-3.4X	RJF	74.40	313	eP	47	03.20	12.7X		
PNT	144.77	329	ePKP	51	09.00	1.6	CLC	20.78	331	eP	37	46.00	-1.5		1.1s		14.65nm					
	0.6s					4.00nm	ISA	21.07	329	eP	37	52.00	1.5	INK	77.51	17	eP	47	09.00	1.5		
DUG	145.63	311	ePKP	51	10.80	1.4	ISL	21.07	329	eP	37	52.00	1.5	BCAO	77.53	269	ePd	47	28.10	19.5X		
MSU	145.78	308	ePKP	51	12.00	2.2X	GOL	21.63	0	eP	37	55.50	-0.9		0.5s		3.00nm					
LON	147.59	327	ePKP	51	13.50	1.3		0.8s		4.46nm					S.D. = 1.2	on	21	of	36	obs.		
TNP	149.61	310	ePKPc	51	22.60	6.7X	GLD	21.68	0	eP	37	56.80	0.0									
	S.D. = 1.4	on	52	of	63	obs.		1.1s		19.29nm												
							TNP	22.52	335	eP	38	05.90	0.7									
								1.1s		11.36nm												
							DAU	22.90	349	eP	38	08.60	-0.5									
							DUG	23.03	345	eP	38	09.50	-0.6									
							FVM	23.86	30	e(P)	38	17.60	-0.4									
							ELC	23.92	33	eP	38	19.00	0.5									
							BW06	24.96	353	eP	38	27.50	-1.3									
								0.9s		4.59nm												
							GBTN	25.76	43	e(P)	38	37.20	1.1									
							PRM	26.10	48	eP	38	40.00	0.6									
							LRM	28.36	350	eP	38	59.40	-0.7									
							NAV	28.95	43	e(P)	39	05.40	0.1									
							SES	32.64	353	eP	39	43.00	5.3X									
							FFC	36.76	3	eP	40	09.00	-3.8X									
								0.9s		10.00nm												
							YKA	44.92	354	eP	41	28.10	8.2X									
								0.9s		2.40nm												
							INK	53.34	347	eP	42	22.00	-2.6									
							TTA	56.67	335	eP	42	45.20	-3.9X									
							NB2	86.53	26	P	45	48.60	1.1									
								0.7s		3.00nm												
								S.D. = 1.1	on	22	of	27	obs.									
						</																

03d 05h

ASPA 149.78 20 ePKP 46 23.40 4.0X
1.1s 7.50nm
S.D. = 0.8 on 16 of 18 obs.

% NOV 03, 1990 07h 01m 24.35 ± 0.59s
44.475 N ± 6.3km 7.266 E ± 5.6km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.3 (GEN).

PZZ 0.12 284 P 01 27.78 0.3

STV 0.23 170 P 01 29.53 0.1

ENR 0.27 156 P 01 30.16 0.0

ROB 0.47 112 P 01 34.24 0.3

RRL 0.56 322 P 01 35.68 -0.2

IMI 0.72 141 P 01 38.14 -0.5

FIN 0.73 111 P 01 38.55 -0.1

PCP 0.92 85 P 01 42.04 0.1

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

? NOV 03, 1990 07h 48m 03.48 ± 1.00s

31.087 S ± 9.3km 68.791 W ± 12.4km

DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.37 131 iPc 48 12.00 -0.2

RTCB 0.40 181 iPd 48 13.30 0.6

ZON 0.47 168 iPd 48 13.50 -0.2

RTCV 0.80 164 ePc 48 15.00 -3.4X

RTBS 0.80 225 iPd 48 18.00 -0.3

RTRS 1.08 328 ePc 48 22.40 0.1

S.D. = 0.5 on 5 of 6 obs.

& NOV 03, 1990 07h 49m 56.17s

61.647 N 149.790 W

DEPTH = 45.7km

SOUTHERN ALASKA (2)

<AGS-P>. ML 3.5 (PMR).

PWA 0.04 275 iP 50 03.28 1.6

PLRM 0.32 100 iP 50 04.45 -0.7

PMR 0.32 100 iPd 50 04.50 -0.6

PMS 0.42 165 iP 50 05.92 -0.4

GHO 0.43 73 iP 50 05.68 -0.8

SUA 0.49 248 iP 50 06.85 -0.4

KNK 0.68 110 iP 50 08.87 -0.8

SML 0.71 76 eP 50 09.03 -1.0

CUT 0.79 344 iP 50 10.35 -0.8

SKT 0.89 293 iP 50 11.54 -1.0

CGLM 1.12 253 iP 50 15.23 -0.5

NKA 1.15 218 eP 50 17.09 1.1

NCG 1.16 259 iP 50 15.89 -0.5

SLKM 1.16 191 iP 50 14.99 -1.3

SPU 1.18 248 eP 50 15.97 -0.7

SCM 1.19 80 iP 50 15.61 -1.1

CRP 1.20 252 eP 50 16.44 -0.5

CKL 1.31 251 eP 50 17.57 -0.8

BGL 1.31 254 eP 50 17.79 -0.6

HUR 1.34 3 eP 50 18.32 -0.4

GLI 1.51 119 iP 50 19.50 -1.7

SEW 1.56 174 eP 50 21.41 -0.4

KNIM 1.64 142 iP 50 20.36 -2.7

RDT 1.67 231 eP 50 22.16 -1.3

VZW 1.67 109 eP 50 21.91 -1.5

VLZ 1.74 106 eP 50 22.50 -1.9

NNL 1.77 205 eP 50 24.99 0.1

TOA 1.77 73 iPc 50 24.40 -0.6

RND 1.82 13 eP 50 24.53 -1.1

TRF 1.83 353 eP 50 24.85 -1.0

REF 1.83 232 iP 50 24.79 -1.1

KLU 1.86 93 eS 50 49.59

RS2 1.87 232 eP 50 25.34 -1.1

RSO 1.87 232 eP 50 25.30 -1.2

LTI 1.87 149 eP 50 23.50 -2.8

NCT 1.87 236 eP 50 25.41 -1.0

RED 1.90 231 eP 50 25.61 -1.2

MTU 1.97 147 eP 50 25.13 -2.5

TZL 2.11 77 eP 50 28.99 -0.7

MCK 2.13 10 eP 50 29.71 -0.3

SDG 2.18 64 eP 50 30.31 -0.5

CNPM 2.24 199 eP 50 30.69 -0.9

INE 2.26 227 eP 50 30.69 -1.2

INW 2.28 227 eP 50 31.13 -1.0

PAX 2.42 55 eP 50 33.30 -0.8

BWN 2.54 3 eP 50 35.82 0.0

OPT 2.62 222 eP 50 37.82 0.8

PDB 2.86 231 eP 50 38.21 -2.1

SVW 2.86 262 eP 50 38.10 -2.3

GLB 2.87 91 eP 50 38.47 -2.1

WRH 2.94 15 eP 50 39.36 -2.2

HDA 3.06 24 eP 50 43.17 0.0

CCB 3.14 16 eP 50 42.63 -1.8

TTA 3.18 297 eP 50 42.40 -2.6

FBA 3.39 15 eP 50 46.30 -1.5

MDM 3.40 11 eP 50 46.02 -2.0

TGL 3.49 102 eP 50 46.69 -2.6

IMA 4.76 341 eP 51 06.60 -0.7

58 obs. associated

NOV 03, 1990 08h 50m 04.88 ± 0.71s

26.259 S ± 6.3km 27.419 E ± 7.6km

DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

mbLg 3.5 (BUL).

KSR 0.61 310 iPd 50 17.50 0.3

PRY 0.67 176 eP 50 20.00 1.7

SLR 0.94 56 iPd 50 24.00 0.7

EVA 1.51 100 eP 50 31.50 -1.2

SEK 2.06 175 iPd 50 41.00 0.2

SWZ 2.09 243 iPd 50 41.00 -0.1

BFT 2.43 77 iPc 50 42.00 -4.1X

BLF 3.04 201 iPd 50 53.00 -1.7

0.5s 224.32nm

BUL 6.19 10 iPn 51 28.00 0.0

KRI 9.60 13 iPn 52 19.00 -8.0X

CER 9.99 223 eP 52 15.00 -17.2X

WIN 10.10 289 iPc 52 39.00 5.2X

S.D. = 1.3 on 8 of 12 obs.

* NOV 03, 1990 10h 35m 34.83 ± 0.52s

13.531 N ± 9.1km 144.599 E ± 20.4km

DEPTH = 195.7 ± 6.7 km

4.4mb (3 obs.)

MARIANA ISLANDS (216)

GUMO 0.27 78 ePc 36 01.90 -0.1

PJG 0.27 78 iPc 36 01.80 -0.2

GUA 0.30 89 iPc 36 02.10 -0.1

MAT 23.62 347 eP 40 31.00 1.6

WB5 34.69 197 eP 42 08.10 0.2

BJI 36.33 322 eP 42 21.50 0.1

1.0s 12.00nm

TIY 37.38 316 eP 42 31.20 0.7

XAN 38.22 308 eP 42 37.50 0.0

ASPA 38.42 196 eP 42 40.60 1.5

0.4s 3.90nm

CD2 41.30 302 P 43 02.80 0.0

MBL 42.19 216 eP 43 10.30 0.3

LZH 42.85 309 eP 43 16.00 0.5

1.5s 20.00nm 4.4mb

GTA 47.02 312 eP 43 49.00 0.5

LSA 51.79 297 P 44 21.60 -3.8X

GUN 56.28 295 P 44 57.20 -0.7

PKI 56.68 294 P 44 59.60 -1.1

DMN 56.95 294 P 45 01.80 -0.7

KIC 143.70 301 PKP 54 48.20 -0.8

TIC 143.78 302 PKP 54 48.40 -0.7

LIC 144.02 301 PKP 54 48.70 -0.8

S.D. = 0.8 on 19 of 20 obs.

& NOV 03, 1990 11h 04m 50.50s

36.943 N 121.690 W

DEPTH = 5.0km

CENTRAL CALIFORNIA (39)

<BRK>. ML 3.0 (BRK). Felt (111)

at Watsonville.

GCC 0.26 290 iPc 04 55.70 -0.1

SAO 0.26 132 iP 04 55.60 -0.3

MHC 0.40 6 iPd 04 58.90 0.3

ARN 0.42 17 iPc 04 59.20 0.2

PRS 0.66 157 iPd 05 03.00 -0.8

LLA 0.68 118 iP 05 03.80 -0.4

PCC 0.78 315 ePc 05 05.00 -1.2

BKS 1.03 335 ePd 05 08.90 -1.5

BRK 1.03 334 iPd 05 09.90 -0.6

PR1 1.15 134 iPc 05 11.90 -0.6

CMB 1.51 43 ePd 05 17.00 -1.2

PHAM 1.52 136 eP 05 16.00 -2.4

FRI 1.59 88 ePc 05 17.50 -1.8

BCH 2.18 143 eP 05 25.40 -2.7

ORV 2.61 3 eP 05 33.50 -0.6

ABL 2.89 135 eP 05 35.80 -2.5

TNP 3.73 71 eP 05 48.00 -2.3

17 obs. associated

NOV 03, 1990 11h 20m 19.32 ± 0.28s

14.656 N ± 5.4km 54.303 E ± 3.4km

DEPTH = 10.0km (geophysicist)

5.1mb (42 obs.) 4.6Ms (11 obs.)

ARABIAN SEA (417)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 17S, 31C

Centroid Location:

Origin Time 11:20:21.3 0.6

Lat 14.95N 0.06 Lon 54.13E 0.04

Dep 15.0 FIX Half-duration 1.7

Moment Tensor: Scale 10**16 Nm

Mrr=-0.22 0.31 Mtt= 7.95 0.46

Mff=-7.73 0.41 Mrt= 0.00 0.00

Mrf= 0.00 0.00 Mtf= 3.69 0.34

Principal Axes:

T Val= 8.77 Plg= 0 Azm=167

N -0.22 90 180

P -8.55 0 77

Best Double Couple: Mo=8.7*10**16

NP1: Strike=212 Dip=90 Slip=-180

NP2: 302 90 0

DHJN 10.81 287 iP+ 22 56.10 -1.5

KMSA 10.94 303 iP+ 22 55.10 -4.1X

KMTA 11.52 289 eP+ 23 06.40 -0.7

ARD 11.58 256 iPd 23 10.00 2.1

BEE 11.84 343 eP 23 08.40 -2.9

BBU 12.05 343 eP 23 07.70 -6.4X

0.5s 37.00nm 5.9mb

DHR 12.23 342 eP 23 15.00 -1.4

RYD 12.35 325 iP+ 23 15.00 -3.2X

MJMA 13.98 324 ePd 23 38.00 -1.8

AFIF 14.08 314 eP+ 23 38.70 -2.4

SHI 15.01 354 eP 23 50.00 -3.4X

OASM 15.20 320 eP 23 55.00 -0.2

UOSK 15.74 317 eP+ 24 05.00 2.1

AAE 16.20 252 eP 24 10.30 1.3

BOM 18.22 74 iP 24 35.50 1.5

POO 19.12 76 iPc 24 46.00 0.8

QUE 19.35 35 eP 24 49.00 0.8

28 33.70

WAJH	20.17	307	ePd	24	57.80	1.0	KSP	47.32	328	ePc	28	55.00	0.0	HHC	55.88	50	eP	30	00.00	0.2
KER	20.66	343	ePc	24	57.00	-5.0X	CTI	47.45	320	P	28	55.00	-1.2	TIY	56.05	54	eP	29	59.70	-1.3
TEH	21.16	353	ePd	25	08.00	0.9	SLR	47.47	212	eP	28	49.50	-7.1X	Z	20s		1.00um			4.9Msz
MAIO	22.05	11	iPc	25	17.00	1.0	EVA	47.70	211	iPc	28	57.00	-1.4	N	11s		0.40um			
	1.0s		56.50nm			5.0mb		1.0s		11.00nm			4.9mb							
			eS	29	23.00		PRU	47.76	326	eP	28	57.50	-0.9	FLN	56.10	319	eP	29	59.80	-1.2
AYN	22.07	313	eP	25	17.30	1.1	Z	19s		0.80um			4.7Msz	LPF	56.23	318	eP	30	00.80	-1.2
GBA	22.46	90	P	25	21.50	1.4				e	30	53.50		MAL	56.39	304	eP	30	03.00	-0.3
BADA	22.59	311	eP	25	23.40	2.0	KHC	47.83	325	P	28	58.50	-0.5	TOL	56.54	308	eP	30	04.50	0.1
KOD	23.04	98	eP	25	31.00	4.8X				e	29	10.40		GUD	56.74	309	eP	30	08.00	2.0
MBH	23.39	313	eP	25	32.00	2.9X	CD2	47.99	62	P	28	58.40	-2.2	WHN	57.04	63	eP	30	07.50	-0.6
HYB	23.46	80	iPd	25	31.30	1.3	PPI	48.00	104	eP	29	05.00	4.3X	EJIF	57.21	304	e(P)	30	14.00	4.8X
	1.0s		100.00nm			5.3mb	OGA	48.21	321	iPc	29	03.40	1.1	KEV	57.65	349	eP	30	09.00	-2.8
			eS	29	48.00		MDI	48.55	319	P	29	06.00	1.4	CER	58.27	214	eP	30	21.50	4.9X
TAB	24.37	345	eP	25	39.00	0.2	BRG	48.56	327	eP	29	03.60	-1.0	EVAL	58.34	305	e(P)	30	13.50	-3.6X
			e	25	41.00			1.4s		24.00nm			5.1mb	KIC	58.50	269	P	30	18.62	0.0
JVI	24.40	318	eP	25	41.00	2.1				i	29	15.80			1.3s		40.50nm			5.4mb
ADI	25.24	320	eP	25	49.00	2.0				e	31	02.60		TIC	58.71	269	P	30	20.20	0.2
NDI	25.40	53	iPd	25	51.00	2.4	FUR	48.67	323	eP	29	04.80	-0.7	LIC	58.81	268	P	30	19.68	-1.0
	0.8s		26.12nm			5.0mb	LZH	48.99	55	eP	29	09.50	1.1	Z	20s		0.25um			4.3Msz
BHL	25.54	322	P	25	52.00	2.1		2.0s		36.00nm			5.1mb	BJI	59.24	52	eP	30	22.50	-0.8
			S	30	24.00		Z	18s		0.79um			4.7Msz		1.0s		11.00nm			4.9mb
HLW	26.01	309	eP	25	58.00	3.7X	N	16s		0.50um				Z	20s		0.60um			4.7Msz
			eS	30	30.50					pP	29	11.00	5kmX				eS	38	30.00	
KSL	30.75	319	eP	26	38.00	1.0	VAI	49.19	319	P	29	10.00	0.5	TIA	59.64	56	eP	30	25.40	-0.8
GKN	31.12	60	P	26	40.98	0.4	SBF	49.29	316	eP	29	10.20	-0.2	NJ2	60.93	61	eP	30	34.00	-1.0
	1.0s		258.00nm			6.1mb	CLL	49.30	327	eP	29	10.00	-0.3	CN2	66.43	48	Pc	31	11.00	0.0
DMN	31.39	61	P	26	43.48	0.4		2.4s		65.00nm			5.2mb		1.0s		50.00nm			5.7mb
	0.9s		115.00nm			5.8mb	GRF	49.44	324	eP	29	10.50	-0.9	Z	18s		0.40um			4.7Msz
BBTK	31.40	327	eP	26	52.00	9.2X		Z	22s		0.20um						pP	31	21.00	32kmX
KKN	31.59	61	P	26	45.32	0.5				e	29	17.90					eS	40	03.00	
	0.8s		241.00nm			6.2mb X	FRF	49.72	315	eP	29	13.30	-0.4	DAG	71.97	347	iPd	31	43.60	-1.0
PKI	31.63	61	P	26	45.48	0.1		1.0s		32.00nm			5.3mb		1.0s		26.00nm			5.3mb
	0.8s		62.00nm			5.6mb	LMR	49.73	315	iPc	29	13.40	-0.4	MRWA	73.79	127	eP	31	57.00	0.9
GUN	32.13	61	P	26	50.24	0.5		1.2s		50.60nm			5.4mb	MAW	82.27	177	iP	32	42.50	0.7
	1.0s		408.00nm			6.3mb X	LRG	49.88	315	eP	29	14.70	-0.1	WRA	85.86	112	P	33	00.00	-1.0
NPS	32.93	314	iPd	26	58.00	1.8		1.0s		28.00nm			5.2mb		0.7s		11.90nm			5.2mb
VAM	34.00	313	iPd	27	06.50	1.1	Z	20s		0.22um			4.2Msz	WB5	85.86	112	eP	33	00.70	-0.3
ITM	36.47	314	eP	27	26.70	0.2				iPd	29	15.00	-0.6				i	33	07.00	
BCAO	36.65	258	iPd	27	29.30	1.1	SEK	49.92	211	iPd	29	15.00	-0.6	ASPA	86.57	115	eP	33	01.20	-3.3X
	1.0s		31.00nm			5.1mb		1.0s		6.00nm			4.5mb		0.8s		7.60nm			5.0mb
			iD	29	04.30		GYA	50.11	68	iPc	29	16.60	-0.5	MBC	89.21	358	eP	33	19.50	3.3X
			iS	33	26.00					S	36	28.00			S.D. = 1.2		on 132 of 152 obs.			
VAY	38.24	320	eP	27	42.30	1.0	BNI	50.23	317	P	29	16.00	-1.7							
OHR	39.24	319	eP	27	51.00	1.3	LPG	50.34	318	iPc	29	17.90	-0.9	%	NOV 03, 1990	11h 43m	12.00± 1.34s			
SKO	39.31	320	iP	27	49.50	-0.7		1.4s		91.50nm			5.5mb		40.678 N ± 9.8km	29.968 E ± 9.3km				
			i	29	25.00		CDR	50.36	315	ePc	29	20.30	1.8		DEPTH = 10.0km	(geophysicist)				
			iS	33	59.00		LPL	50.36	318	iPc	29	17.90	-1.0							
			i	36	45.00			1.4s		122.00nm			5.7mb	TURKEY						(366)
KRI	39.66	219	iPd	27	42.00	-11.5X	FEL	50.49	321	eP	29	19.16	-0.5							
WMO	40.68	38	P	28	03.80	2.2	NUR	50.60	342	iP	29	20.00	-0.1	HRT	0.27	302	ePg	43	17.70	0.0
Z	18s		0.60um			4.5Msz		0.8s		20.50nm			5.1mb	YLV	0.47	256	iPg	43	21.40	-0.1
			S	34	18.00		CDF	51.17	321	iPc	29	24.10	-0.6	GPA	0.47	146	ePg	43	21.50	0.0
BZS	41.34	325	eP	28	06.50	-0.3		1.2s		35.70nm			5.2mb	IZI	0.51	228	iPg	43	22.40	0.1
CZI	41.46	314	P	28	09.80	1.9	BSF	51.22	320	eP	29	24.10	-1.1				iSg	43	29.40	
ATN	41.50	312	P	28	11.00	2.7		1.2s		17.85nm			4.9mb	CTT	1.26	292	ePn	43	35.40	0.0
TDS	41.51	314	P	28	10.00	1.7	BLF	51.29	212	iPd	29	25.00	-1.0		S.D. = 0.1		on 5 of 5 obs.			
ORI	41.61	315	P	28	18.00	8.8X	WIN	51.93	225	iPd	29	36.40	5.5X							
MGR	42.26	314	P	28	15.50	1.0	SUF	51.95	344	eP	29	29.90	-0.4	&	NOV 03, 1990	12h 19m	54.87s			
SGO	42.61	315	P	28	19.00	1.7		0.4s		6.50nm			4.9mb		68.343 N		148.204 W			
BUL	42.82	217	iPc	28	18.40	-1.1	UPP	52.50	338	iP	29	33.80	-0.7		DEPTH =		0.0km			
CHG	42.87	78	eP	28	19.60	-0.2	SMF	52.65	318	eP	29	34.90	-1.0		ALASKA					(676)
	0.9s		9.03nm			4.5mb		1.2s		23.80nm			5.0mb		<AGS-P>.		Felt (II) at Big Lake.			
CHTO	42.87	78	eP	28	19.50	-0.3	LBF	52.68	318	iPc	29	35.30	-0.8	FYU	2.12	146	eP	20	32.10	0.1
	1.0s		7.25nm			4.4mb		1.2s		75.85nm			5.5mb				eS	21	01.13	
BDT	42.99	80	eP	28	20.40	-0.3	XAN	52.74	58	P	29	35.70	-1.1	IMA	3.12	226	eP	20	46.20	-0.2
	0.9s		60.50nm			5.3mb	LOR	52.85	319	iPc	29	36.40	-1.0				i	20	53.40	
NST	44.18	82	eP	28	29.00	-1.4		1.2s		65.45nm			5.4mb	GLM	3.39	174	eP	20	48.91	-1.2
SPC	44.29	328	eP	28	31.70	0.6	Z	20s		0.30um			4.3Msz	MDM	3.40	180	eP	20	49.12	-1.2
AZI	44.50	316	P	28	34.00	1.3	SSF	53.01	318	iPc	29	37.50	-1.0	FBA	3.46	177	eP	20	50.00	-1.2
ZST	45.36	325	eP	28	38.80	-0.7		1.2s		44.65nm			5.3mb	CCB	3.72	177	eP	20	54.16	-0.6
ASS	45.48	317	P	28	43.00	2.4	AVF	53.01	318	eP	29	37.40	-1.2	NEA	3.80	186	eP	20	55.37	-0.6
ARV	45.49	318	P	28	42.00	1.4		1.0s		18.00nm			5.0mb	WRH	3.89	179	eP	20	56.19	-1.0
PCT	45.51	84	eP	28	42.00	0.9	QIZ	53.16	77	eP	29	39.10	-0.9	HDA	3.99	172	eP	20	57.64	-1.0
LOE	45.58	80	eP	28	41.00	-0.6	BGF	53.26	318	eP	29	40.00	-0.4	BRW	4.19	319	eP	21	00.30	-1.1
PSI	45.58	101	ePd	28	47.70	6.0X		0.9s		31.10nm			5.3mb	MCK	4.64	184	eP	21	08.30	0.4
SFI	46.38	318	P	28	49.10	1.5	MAF	53.34	317	eP	29	40.20	-0.8	DDM	4.67	167	eP	21	06.98	-1.4
KMI	46.51	69	eP	28	48.50	-0.7	DOU	53.59	317	iPc	29	42.20	-0.7	DOT	5.01	158	eP	21	11.14	-2.0
Z	20s		0.90um			4.7Msz	TCF	1.2s		14.90nm										

03d 12h

CUT	0.39	16	iP	46	59.85	0.0	LTCM	2.31	106	iPd	48	15.10	JCW	7.63	16	P	49	13.07	-2.1	
PWA	0.48	142	iP	47	01.89	0.3	LBFM	2.41	78	iPc	48	00.60	WTV	7.71	26	P	49	15.00	-1.4	
SKT	0.49	265	iP	47	01.68	0.0	MIN	2.66	101	iPc	48	02.80	SAW	7.91	29	P	49	17.73	-1.4	
SUA	0.58	191	iP	47	03.79	0.3	NWRM	2.94	145	eP	48	05.90	RPW	7.96	17	P	49	17.66	-2.2	
PLRM	0.79	123	iP	47	06.49	-0.7	ORV	3.01	115	iPc	48	07.70	DHW2	8.02	26	P	49	19.46	-1.3	
PMR	0.79	123	eP	47	06.50	-0.7	HBO	3.56	33	P	48	18.10	MBW	8.20	15	P	49	21.42	-1.8	
GHO	0.79	108	eP	47	06.43	-1.0	ZSP	3.64	143	eP	48	16.50	PNT	9.25	23	eP	49	35.00	-2.7	
			eS	47	17.27					eS	48	57.00		0.4s	10.00nm			5.5mb	X	
PMS	0.91	150	iP	47	08.70	-0.6	BRK	3.70	144	eP	48	17.00	PEC	9.37	136	eP	49	36.70	-2.8	
NGG	1.01	232	eP	47	09.61	-1.5				eS	48	57.70	PLM	9.95	137	eP	49	45.00	-2.6	
			eS	47	24.50		BKS	3.71	143	iPd	48	17.50	LRM	10.39	58	eP	49	42.70	-11.0	
CGLM	1.02	225	eP	47	10.24	-1.0				eS	48	58.10	ALO	15.80	106	eP	51	04.30	-1.3	
HUR	1.04	23	eP	47	10.24	-1.3	MPOR	3.77	16	P	48	19.62		1.0s	5.50nm			3.7mb		
			eS	47	23.85		PCC	3.96	148	iPd	48	19.90	YKA	22.52	13	eP	52	21.50	-0.7	
SML	1.05	101	eP	47	10.49	-1.3	MHC	4.41	142	ePc	48	27.30		0.8s	3.30nm			3.9mb		
CRP	1.10	227	eP	47	12.03	-0.6				eS	49	16.90		96 obs. associated						
SPU	1.13	222	eP	47	11.76	-1.3	ARN	4.46	141	iPc	48	28.20		NOV 03, 1990 13h 53m 23.63±0.51s						
			eS	47	27.28		GCC	4.52	148	e(P)c	48	27.60		38.482 N ± 5.2km			1.329 W ± 5.1km			
KNK	1.16	121	eP	47	12.35	-1.2	GROR	4.57	12	P	48	30.83		DEPTH = 10.0km (geophysicist)						
			eS	47	27.93		CMB	4.58	127	ePc	48	30.40		SPAIN (377)						
BGL	1.18	230	eP	47	12.89	-1.2	GMO	4.64	39	Pd	48	32.67		mbLg 3.9 (MDD). ML 3.4 (LDG).						
CKL	1.21	227	eP	47	13.09	-1.5	GT2	4.71	24	P	48	33.13		Felt (IV) at Jumilla.						
NKA	1.34	196	eP	47	16.78	0.2	VIPM	4.86	40	P	48	35.11								
TRF	1.43	4	eP	47	17.04	-1.1	VBEM	4.87	30	P	48	35.04		EALH	0.63	187	iPgc	53	35.10	-1.2
			eS	47	35.81		KMOR	4.87	13	P	48	35.01								
SCM	1.52	96	eP	47	17.93	-1.3	PGO	4.94	21	P	48	36.89		ACU	0.72	87	iP	53	39.60	1.8
SKLM	1.53	175	eP	47	18.20	-1.2	SAO	4.98	145	iPd	48	30.70								
RND	1.58	28	eP	47	18.18	-2.0	TDH	4.99	27	P	48	37.63		EVIA	0.93	280	ePg	53	43.10	1.6
RDT	1.72	213	eP	47	20.79	-1.4	CROR	5.05	35	P	48	37.98		ECHE	1.14	14	iPnd	53	47.30	2.3
RDN	1.87	217	eP	47	23.86	-0.6	VLMM	5.13	24	P	48	39.50								
REF	1.87	215	eP	47	24.14	-0.4	VFP	5.13	29	P	48	39.44		ENIJ	1.67	205	iPnc	53	52.80	-0.2
NCT	1.88	220	eP	47	24.61	0.1	VLL	5.18	27	P	48	39.82								
RS2	1.91	216	eP	47	25.75	0.7	NLO	5.32	12	P	48	41.97		EBAN	1.96	261	iPnc	53	57.30	0.1
RSO	1.91	216	eP	47	25.20	0.1	LLA	5.33	142	eP	48	39.20								
RED	1.95	215	eP	47	24.83	-0.7	PRS	5.38	147	eP	48	39.60		AFC	2.14	236	ePn	54	00.80	0.8
SEW	2.00	165	eP	47	26.90	0.8	VTHM	5.39	36	Pd	48	43.21								
GLI	2.00	124	iP	47	25.90	-0.3	APM	5.42	26	P	48	43.29		ETOR	2.40	347	ePn	54	06.00	2.3
TOA	2.04	86	eP	47	26.78	-0.1	RVW	5.51	17	P	48	44.06								
VZW	2.13	115	eP	47	27.93	-0.1	LVP	5.51	19	P	48	43.67		TOL	2.53	304	ePn	54	05.00	-0.5
KNIM	2.15	140	eP	47	26.59	-1.8	MTMW	5.52	21	P	48	43.97								
VLZ	2.19	112	eP	47	28.59	-0.3	GULW	5.61	25	P	48	45.76								
KLU	2.25	102	eP	47	29.26	-0.6	KVN	5.63	107	eP	48	44.50								
BRK	2.28	185	eP	47	31.78	1.5	JLK	5.65	21	P	48	45.80								
INE	2.33	213	eP	47	30.43	-0.7	CDFW	5.65	22	P	48	45.95								
INW	2.35	214	eP	47	32.58	1.3	HSR	5.67	20	P	48	46.39		EROD	2.70	29	ePn	54	08.90	1.1
SDG	2.37	76	eP	47	31.16	-0.4	SHW	5.67	20	P	48	46.17								
LTI	2.38	146	eP	47	30.13	-1.4	FRI	5.69	132	iPd	48	46.30		EBR	2.73	30	ePn	54	10.00	1.8
TZL	2.40	87	eP	47	32.87	1.0	REMW	5.69	20	P	48	46.69								
PAX	2.52	66	eP	47	33.97	0.2	ESD	5.70	21	P	48	46.72		MAL	3.01	235	iPnd	54	13.20	1.0
WRH	2.69	23	eP	47	34.66	-1.3	STD	5.72	20	P	48	46.75								
TTA	2.71	292	eP	47	34.00	-2.5	BMW	5.73	13	P	48	46.93		GUD	3.07	316	iPnc	54	14.70	1.5
CCB	2.90	24	eP	47	37.76	-1.2	SOSW	5.74	20	P	48	47.10								
MDM	3.11	18	eP	47	39.57	-2.5	ERK	5.75	19	P	48	46.94		EHOR	3.16	259	iPnc	54	13.20	-1.1
FBA	3.13	22	eP	47	39.80	-2.4	ASR	5.82	24	P	48	48.27								
GLB	3.24	98	eP	47	42.72	-1.2	TDL	5.82	20	P	48	48.70		EPRU	3.44	245	ePn	54	18.60	0.2
							CZM	5.83	17	Pc	48	48.56		ESEL	3.53	67	iPnd	54	20.20	0.6
49 obs. associated							PRI	5.85	143	eP	48	48.30		EJIF	3.87	240	ePn	54	24.60	0.2
% NOV 03, 1990 12h 59m 05.66±1.01s							KOSW	5.93	19	P	48	50.07								
42.390 N ± 8.0km 18.658 E ± 7.5km							JBO	5.93	38	P	48	51.16		EPLA	4.01	295	iPnc	54	25.90	-0.6
DEPTH = 10.0km (geophysicist)							APW	6.01	16	P	48	51.30								
YUGOSLAVIA (383)							ONR	6.05	8	P	48	51.71		ECRI	4.22	348	iPnc	54	31.80	2.3
MD 2.2 (TTG).							LMW	6.10	18	P	48	52.72								
HCY	0.13	296	iPgc	59	08.80	0.0	GLK	6.18	22	P	48	53.42		EVAL	4.37	260	ePn	54	30.30	-1.3
			iSg	59	11.80		CPW	6.23	12	P	48	54.10								
BDV	0.16	130	ePg	59	09.40	0.0	PATW	6.29	36	P	48	55.73		EPF	4.72	15	Pn	54	37.90	1.4
			eSg	59	13.00		LON	6.30	21	P	48	54.77		ETER	4.98	39	iPnd	54	40.60	0.5
TTG	0.45	85	ePg	59	14.90	0.1	WPW	6.32	22	P	48	55.16		ERUA	5.91	313	ePn	54	52.70	-0.6
			eSg	59	24.00		REMR	6.35	20	P	48	55.79								
NKY	0.49	31	ePg	59	15.50	-0.2	RVC	6.44	19	P	48	57.17		LPO	6.48	16	Pn	55	00.60	-0.7
			eSg	59	25.00		GHW	6.46	17	P	48	57.39		LFF	6.63	13	Pn	55	03.40	-0.1
BRY	0.52	351	ePg	59	16.30	0.1	OBH	6.49	7	P	48	57.45		EMON	6.72	319	ePn	55	04.70	0.0
			eSg	59	27.00		YAKW	6.50	29	P	48	58.57		CAF	6.92	20	Pn	55	06.60	-1.0
S.D. = 0.2 on 5 of 5 obs.							SMW	6.54	10	P	48	58.00		STS	7.03	311	ePn	55	09.00	-0.1
& NOV 03, 1990 13h 47m 21.50s							PRW	6.58	34	P	48	59.58		RJF	7.14	16	Pn	55	08.20	-2.4
40.893 N 125.022 W							NAC	6.58	26	P	48	59.19		LRG	7.65	47	Pn	55	28.00	10.3X
DEPTH = 11.0km							MXC	6.63	29	P	49	00.17								
3.8mb (2 obs.)							TNP	6.66	112	eP	48	58.50		LMR	7.66	48	Pn	55	29.20	11.3X
OFF COAST OF NORTHERN CALIFORNIA (34)							BRVW	6.67	31	P	49	00.71								
<BRK>. ML 4.2 (BRK). Felt (III)							GSM	6.72	19	P	49	01.33		FRF	7.88	47	Pn	55	30.30	9.3X
at Eureka and Westhaven. Also							RSW	6.76	34	P	49	01.95		LSF	8.04	14	Pn	55	21.80	-1.5
felt at Arcoto and							WG3	6.82	39	P	49	02.66		MFF	8.16	6	Pn	55	23.80	-1.1
McKinleyville.							GMW	6.84	13	P	49	02.17		TCF	8.23	17	Pn	55	24.40	-1.4
							HDW	6.90	11	P	49	03.08		MAF	8.25	19	P			

SSF 9.28 21 Pn 55 39.00 -1.4
LBF 9.35 23 Pn 55 39.70 -1.7
S.D. = 1.3 on 38 of 41 obs.

% NOV 03, 1990 14h 15m 52.70 ± 1.69s
41.187 N ± 17.2km 28.802 E ± 5.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.2 (ISK).

ISK 0.23 122 ePg 15 57.40 -0.2
CTT 0.28 262 iPg 15 58.40 -0.3
eSg 16 01.80
HRT 0.75 119 ePg 16 08.40 1.0
YLV 0.76 145 iPg 16 06.30 -1.2
iSg 16 17.30
KCT 1.00 200 iPn 16 12.30 0.7
BNT 1.07 219 ePn 16 12.90 0.1
MFT 1.22 251 iPn 16 15.40 0.0
S.D. = 0.9 on 7 of 7 obs.

NOV 03, 1990 14h 17m 49.57 ± 0.27s
18.129 S ± 5.1km 178.458 W ± 3.5km
DEPTH = 601.5 ± 3.5 km
5.0mb (45 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)

Date Used: GDSN

L.P.B.: 12S, 19C

Centroid Location:

Origin Time 14:18: 1.6 1.4

Lot 17.245 0.15 Lon 178.60W 0.10

Dep 609.9 5.9 Half-duration 1.5

Moment Tensor: Scale 10**16 Nm

Mrr= 3.45 0.61 Mtt= 1.62 1.06

Mff=-5.08 0.88 Mrt= 3.71 0.79

Mrf=-4.94 0.80 Mlf=-4.59 0.83

Principal Axes:

T Vol= 9.48 Plg=44 Azm= 36

N -1.25 41 185

P -8.22 16 289

Best Double Couple: Mo=8.9*10**16

NP1: Strike= 62 Dip=46 Slip= 156

NP2: 169 73 47

KRO 2.20 291 ePc 19 04.90 -1.3
NDE 2.62 366 eP 19 07.30 -0.1
MBU 2.93 293 eP 19 09.80 0.9
VUN 2.93 272 eP 19 09.60 0.7
SVA 2.93 270 iP 19 10.00 1.1
SGE 3.49 278 eP 19 12.80 0.5
NDF 3.91 275 eP 19 15.50 0.5
PVC 12.60 270 iPc 20 35.70 1.5
DZM 14.71 252 iPc 20 56.00 1.1

iS 23 32.60
ScP 28 04.90

WLZ 20.32 194 eP 21 49.00 1.5

NOZ 20.64 188 eP 21 50.50 0.1

HNR 22.66 290 eP 22 07.00 -1.9

SVO 22.90 290 eP 22 15.00 4.0X

THZ 24.69 196 eP 22 26.50 -0.2

LTZ 25.81 196 P 22 35.00 -1.5

AFR 27.30 93 iP 22 49.00 -0.7

0.6s 30.00nm 5.1mb

PAE 27.47 94 iP 22 50.40 -0.8

0.6s 15.00nm 4.8mb

PPT 27.49 93 iP 22 50.70 -0.6

0.6s 30.00nm 5.1mb

TBI 27.58 106 iP 22 52.80 0.7

0.8s 45.00nm 5.2mb

PPN 27.63 93 iP 22 51.90 -0.6

0.6s 10.00nm 4.6mb

TVO 27.77 94 iP 22 53.30 -0.6

0.6s 30.00nm 5.1mb

BRS 28.03 246 iPc 22 56.10 0.1

PMO 29.44 89 iP 23 07.50 -0.6

0.6s 10.00nm 4.6mb

COO 29.62 240 iPd 23 11.20 1.5

iScP 28 45.30

VAH 29.65 89 iP 23 08.90 -1.0

0.6s 15.00nm 4.8mb

RUV 29.89 89 iP 23 11.20 -0.8

0.6s 15.00nm 4.8mb

RMQ 31.38 249 iPd 23 23.70 -0.8

0.9s 206.00nm 5.8mb

CTA 33.36 261 iPd 23 41.00 -0.2

0.9s 235.29nm 5.8mb

CAN 33.53 233 iScP 28 56.00

iPd 23 43.20 0.7

eScP 28 57.10

BWA 33.65 235 iPd 23 42.20 -1.4

eScP 28 56.70

PMG 34.45 280 iPd 23 50.90 0.6

1.0s 510.00nm 6.1mb X

CMS 34.88 241 iPd 23 54.60 1.0

0.8s 142.00nm 5.6mb

QLP 35.41 249 iPd 23 58.50 0.4

TOO 37.00 231 iPd 24 12.30 1.3

0.7s 102.00nm 5.6mb

BFD 39.07 233 ePd 24 30.00 2.2

ADE 41.48 237 iPd 24 47.60 0.5

0.8s 134.33nm 5.5mb

WB5 44.53 260 eP 25 10.10 -0.9

eScP 29 39.20

eS 31 05.50

WRA 44.54 260 P 25 10.00 -1.2

0.6s 132.70nm 5.6mb

ASPA 44.69 254 iPd 25 11.40 -0.9

0.7s 520.00nm 6.2mb X

iScP 29 39.60

iS 31 04.40

iScS 34 05.00

GUA 47.91 309 eP 25 36.10 -0.7

0.8s 89.55nm 5.3mb

GUMO 47.98 309 eP 25 36.50 -0.8

0.7s 71.16nm 5.3mb

PJG 47.98 309 eP 25 36.10 -1.2

MTN 48.75 269 iPd 25 41.70 -1.4

0.5s 144.00nm 5.8mb

FORR 49.84 245 iPd 25 50.00 -0.8

WARB 51.16 251 iPd 26 00.10 -0.6

0.3s 33.00nm 5.2mb

COOL 55.82 245 eP 26 32.00 -1.5

MBL 57.88 256 iPd 26 36.50 -11.1X

0.4s 33.00nm

MEKA 58.39 250 eP 26 49.80 -1.2

KLB 58.68 244 iPd 26 51.80 -1.1

NWAO 59.07 242 eP 26 54.00 -1.4

0.6s 18.00nm 4.5mb

RKG 59.21 241 eP 26 56.00 -0.3

BAL 59.65 245 eP 26 58.00 -1.3

0.5s 18.00nm 4.6mb

MUN 59.98 243 iPc 27 01.00 -0.4

0.6s 110.00nm 5.3mb

MRWA 60.38 246 eP 27 03.00 -1.1

NANU 61.62 254 eP 27 11.70 -0.5

TRT 67.64 269 iPd 27 49.60 -0.4

MAT 68.05 323 eP 27 50.00 -2.0

ADK 69.73 1 eP 27 59.50 -2.1

0.6s 50.90nm 5.2mb

BLP 76.08 46 P 28 38.70 0.8

SYF 76.35 46 eP 28 40.00 0.4

GCC 76.41 43 eP 28 40.30 0.6

PRS 76.42 44 ePc 28 40.50 0.7

PCC 76.43 43 eP 28 40.10 0.3

SAO 76.62 44 ePd 28 41.20 0.3

BCH 76.64 46 P 28 41.80 0.6

NWRM 76.67 42 P 28 41.10 0.0

BKS 76.74 43 ePc 28 41.80 0.3

1.2s 138.00nm 5.3mb

ZSP 76.77 42 eP 28 42.10 0.5

PRI 76.78 45 ePc 28 42.70 0.8

PHAM 76.79 45 P 28 42.70 0.9

MHC 76.82 43 eP 28 42.70 0.6

LLA 76.86 44 ePc 28 42.70 0.5

ARN 76.89 43 P 28 42.30 -0.1

ABL 77.05 46 P 28 43.80 0.3

FHC 77.40 39 eP 28 45.50 0.5

PAS 77.40 48 eP 28 45.00 -0.1

BAR 77.70 50 eP 28 46.00 -0.8

FRI 77.89 44 eP 28 47.60 -0.1

PLM 77.91 49 eP 28 47.00 -1.1

SBB 77.93 47 eP 28 48.00 0.0

PEC 77.98 48 P 28 48.40 0.1

0.7s 10.77nm 4.4mb

ISA 78.00 46 eP 28 48.00 -0.4

CM8 78.03 43 ePc 28 48.50 0.0

WDC 78.14 40 ePc 28 49.20 0.3

LTCM 78.18 41 P 28 49.60 0.5

ORV 78.19 41 eP 28 49.00 -0.2

MDJ 78.34 325 eP 28 50.50 0.7

0.8s 20.00nm 4.6mb

MIN 78.58 41 iPd 28 51.50 0.1

KDC 78.61 14 P 28 50.60 -0.4

1.0s 88.00nm 5.1mb

CLC 78.69 46 eP 28 52.00 0.0

GSC 78.96 47 eP 28 54.00 0.5

KVN 80.09 43 P 28 59.80 0.5

TNP 80.15 45 P 29 00.00 0.3

1.0s 41.67nm 4.8mb

CN2 80.17 322 P 29 00.70 1.3

1.0s 20.00nm 4.5mb

eS 38 20.00

SVW 81.07 11 eP 29 02.50 -1.2

BMW 81.30 35 P 29 05.60 0.4

GMW 82.19 34 P 29 10.00 0.4

LON 82.24 35 P 29 10.20 0.3

IPM 82.43 277 ePd 29 13.50 2.0

1.0s 49.90nm 5.0mb

TTA 82.70 10 iPc 29 11.60 -0.3

PMR 82.83 14 ePc 29 11.30 -1.1

0.9s 52.50nm 5.1mb

SNG 83.66 280 eP 29 19.20 1.7

PSI 83.82 275 ePd 29 17.50 -0.9

0.8s 21.20nm 4.8mb

DUG 84.17 45 P 29 19.90 0.1

0.8s 3.33nm 4.0mb X

DPW 84.89 36 P 29 23.00 0.0

PNT 84.94 34 ePc 29 23.00 -0.1

0.9s 78.00nm 5.3mb

DAU 85.32 45 P 29 25.70 0.2

TIY 85.38 312 Pc 29 26.60 1.1

NEW 85.72 36 P 29 26.70 -0.2

1.0s 11.25nm 4.5mb

PTI 85.77 42 P 29 28.30 0.9

IMA 85.99 10 eP 29 27.00 -1.0

0.8s 6.80nm 4.4mb

FBA 86.03 13 iPc 29 26.60 -1.4

ALQ 86.27 52 iPc 29 30.20 0.1

1.0s 23.00nm 4.9mb

e 31 43.00

ANMO 86.27 52 P 29 30.60 0.6

1.0s 22.50nm 4.9mb

XAN 86.36 307 P 29 31.10 0.8

LRM 87.17 40 ePd 29 34.00 -0.2

BW06 87.55 43 P 29 35.90 -0.1

1.0s 35.42nm 5.1mb

CHG 89.03 290 eP 29 44.30 1.3

CHTO 89.03 290 eP 29 44.10 1.2

1.0s 7.00nm 4.5mb

GOL 89.04 48 P 29 43.30 0.3

1.2s 32.79nm 5.1mb

GLD 89.17 48 P 29 44.40 1.0

1.3s 39.08nm 5.2mb

SES 90.22 36 iPc 29 47.40 -0.4

1.0s 67.00nm 5.5mb

INK 92.11 15 ePc 29 54.50 -1.6

0.8s 23.00nm 5.3mb

YKA 94.55 25 eP 30 06.10 -1.2

0.8s 5.80nm 4.9mb

TUL 94.71 54 e(P) 30 08.70 0.1

[illegible]

INK 83.20 21 eP 33 33.00 7.2X
 NB2 88.76 333 P 33 54.50 1.1
 0.8s 3.30nm 4.7mb
 S.D. = 1.4 on 33 of 42 obs.

& NOV 03, 1990 15h 39m 19.51s
 62.034 N 149.440 W
 DEPTH = 9.3km
 CENTRAL ALASKA (1)
 <AGS-P>.

GHO	0.36	137	iP	39	26.91	0.0
PWA	0.44	209	iP	39	28.92	0.5
PLRM	0.47	162	iP	39	29.09	0.1
			eS	39	35.78	
PMR	0.47	162	iPc	39	29.10	0.1
			eS	39	35.70	
CUT	0.54	314	iP	39	29.74	-0.6
SML	0.57	113	iP	39	30.40	-0.6
KNK	0.78	143	iP	39	34.19	-0.6
			eS	39	44.57	
PMS	0.79	184	iP	39	34.24	-0.8
SUA	0.84	228	iP	39	35.33	-0.6
			iS	39	48.00	
HUR	0.95	355	eP	39	36.73	-1.0
			eS	39	49.24	
SKT	0.99	268	iP	39	37.52	-0.8
SCM	1.02	100	eP	39	37.56	-1.3
			eS	39	51.02	
RND	1.40	11	iP	39	43.79	-1.5
CGLM	1.42	240	eP	39	45.08	-0.5
NCG	1.44	245	eP	39	44.84	-1.0
TRF	1.48	345	eP	39	45.70	-0.7
			eS	40	05.21	
CRP	1.51	240	eP	39	46.67	-0.1
			eS	40	07.06	
SPU	1.51	237	eP	39	46.56	-0.2
TOA	1.54	86	eP	39	46.56	-0.6
NKA	1.56	215	eP	39	49.80	2.5
SLKM	1.58	194	eP	39	47.13	-0.6
BGL	1.61	243	eP	39	48.05	-0.1
			iS	40	09.10	
GLI	1.62	135	eP	39	48.07	-0.1
			eS	40	10.07	
CKL	1.62	240	eP	39	48.52	0.1
			eS	40	08.35	
VZW	1.69	124	eP	39	49.10	-0.3
			eS	40	11.26	
MCK	1.72	8	eP	39	49.32	-0.4
VLZ	1.74	120	eP	39	49.48	-0.5
KLU	1.76	106	eP	39	49.00	-1.4
			eS	40	12.69	
KNIM	1.88	153	eP	39	51.90	-0.2
SDG	1.89	73	eP	39	51.07	-1.1
TZL	1.89	88	eP	39	52.45	0.2
SEW	1.94	180	eP	39	53.20	0.4
RDT	2.05	226	eP	39	54.71	0.2
			eS	40	21.31	
PAX	2.07	61	eP	39	54.75	-0.1
LT1	2.14	158	eP	39	55.58	-0.3
BWN	2.15	360	eP	39	58.25	2.3
REF	2.21	227	iP	39	57.65	0.6
RDN	2.21	228	eP	39	57.43	0.4
			eS	40	25.50	
NCT	2.24	230	iP	39	58.30	0.9
RSO	2.25	227	eP	39	58.05	0.5
RS2	2.25	227	eP	39	58.27	0.7
RED	2.29	226	eP	39	58.47	0.4
DDM	2.40	41	eP	40	00.58	0.9
WRH	2.52	13	eP	39	59.57	-1.7
HDA	2.63	24	eP	40	00.19	-2.7
INE	2.65	223	eP	40	00.69	-2.6
CNPM	2.67	200	eP	40	03.62	0.2
INW	2.67	224	eP	40	01.26	-2.2
CCB	2.72	15	eP	40	02.23	-1.9
GLB	2.74	100	eP	40	04.52	0.0
FBA	2.97	14	eP	40	05.80	-1.8
MDM	2.99	10	eP	40	06.00	-1.9
SVW	3.10	255	eP	40	09.90	0.4
TTA	3.18	289	eP	40	12.30	1.6
TGL	3.43	109	eP	40	13.77	-0.5
BALM	3.54	103	eP	40	15.01	-0.8
IMA	4.46	337	eP	40	26.70	-2.1

57 abs. associated

NOV 03, 1990 16h 39m 57.70 ± 1.04s
 39.031 N ± 3.8km 71.426 E ± 2.4km

DEPTH = 51.2 ± 9.9 km
 5.6mb (88 obs.) 4.7Msz (12 obs.)
 TAJIK SSR (715)

Felt (VI) at Lyokhsh and
 Karakendzha; (V) at Tadzhikabad,
 Dzhihgatal, Navabad, Tavildara
 and Childara; (IV) at Garm,
 Nurek, Fayzabad, Obigarm and
 Kulyab; (III) at Leninabad,
 Ordzhonikidzeabad and Dushanbe.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 26C
 Centroid Location:
 Origin Time 16:39:58.5 0.6
 Lat 39.15N 0.08 Lon 71.01E 0.09
 Dep 15.0 BDY Half-duration 1.8
 Moment Tensor: Scale 10**17 Nm
 Mrr= 1.20 0.07 Mtt=-0.70 0.09
 Mff=-0.50 0.07 Mrt= 0.68 0.25
 Mrf= 0.21 0.26 Mtf=-0.78 0.09
 Principal Axes:
 T Val= 1.41 Plg=72 Azm= 5
 N 0.12 12 234
 P -1.54 14 141
 Best Double Couple: Mo=1.5*10**17
 NP1:Strike=215 Dip=33 Slip= 67
 NP2: 61 60 104

KSH	3.56	82	Pn	40	53.40	1.4
			Sn	41	32.00	
QUE	9.56	204	eP	42	13.50	-2.2
	0.8s	1063.43nm			7.0mb X	
			eS	43	52.50	
MAIO	9.84	258	iPc	42	13.00	-6.5X
	0.8s	43.92nm			5.6mb	
			eS	43	54.00	
NDI	11.38	153	eP	42	39.00	-1.3
	0.5s	232.39nm			6.5mb	
WMO	13.11	63	P	43	01.00	-2.3
Z	10s	6.50um				
		sS	45	45.00		
GKN	15.55	131	P	43	29.50	-5.7X
KKN	16.09	130	P	43	36.42	-5.7X
DMN	16.12	131	P	43	36.60	-6.0X
TEH	16.26	265	eP	43	47.00	2.7X
PKI	16.33	130	P	43	39.38	-5.9X
GUN	16.36	128	P	43	39.86	-5.9X
SHI	18.17	245	iPd	44	06.00	-2.1
LSA	18.72	114	P	44	16.00	0.9
E	10s	1.40um				
		pP	44	21.60		
		sP	44	27.00		
TAB	19.64	275	eP-	44	26.00	0.9
KER	20.03	264	ePc	44	31.00	1.8
BOM	20.10	176	iP	44	31.90	2.1
			eS	48	08.60	
POO	20.53	173	iPc	44	32.70	-1.7
	1.2s	415.63nm			5.6mb	
		eS	48	24.00		
BBU	21.74	240	eP	44	44.50	-1.9
	0.6s	162.00nm			5.6mb	
BEE	21.82	240	eP	44	45.90	-1.3
DHR	21.90	241	eP	44	49.50	1.6
			eS	48	44.00	
GTA	21.96	80	Pc	44	49.30	0.5
	3.5s	1080.00nm			5.7mb X	
E	12s	3.70um				
		pP	44	55.00	21kmX	
		sP	44	58.00		
		eS	48	49.00		
		sS	49	02.00		
HYB	22.41	162	eP	44	53.50	0.3
	1.0s	350.00nm			5.7mb	
		eS	48	54.00		
RYD	25.35	243	iP+	45	21.70	0.2
			eS	49	43.00	
MJMA	25.57	247	eP	45	22.70	-0.9
LZH	25.79	86	iPc	45	26.50	0.8
	7.0s	900.00nm			5.4mb X	
Z	18s	4.37um			5.0Msz	
N	12s	3.95um				
		PcS	52	32.00		
GBA	25.88	167	Pc	45	24.80	-1.6
	0.8s	111.80nm			5.4mb	
QASM	26.70	249	eP	45	33.60	-0.4
CD2	27.60	97	P	45	43.20	1.1

	1.2s	190.00nm			5.6mb	
Z	12s	4.16um			5.2MszX	
UQSK	27.73	250	eP	45	45.30	1.9
AFIF	28.15	246	eP	45	50.40	3.2X
KAS	28.71	287	eP	45	52.50	0.4
BHL	29.10	271	P	45	59.00	3.3X
			S	51	05.00	
GLH	29.53	269	eP	46	01.00	1.5
BTO	29.53	75	eP	45	59.00	-0.5
N	15s	3.40um				
E	14s	2.70um				
		eS	50	49.00		
KMSA	29.71	239	eP	46	00.70	-0.5
BBTK	29.72	284	eP	46	02.00	0.8
		i	46	04.00		
KMI	29.77	108	Pc	46	02.00	0.0
	2.0s	100.00nm			5.2mb	
		sP	46	18.50		
ZNT	30.20	268	eP	46	06.00	0.6
XAN	30.39	88	P	46	06.20	-0.9
N	12s	2.60um				
E	12s	2.80um				
		pP	46	12.60	22kmX	
		sP	46	15.60		
HMC	30.64	74	P	46	09.00	-0.4
Z	12s	3.10um			5.2MszX	
		sP	46	25.00		
AYN	30.92	262	eP	46	12.30	0.6
CHG	31.20	122	eP	46	16.00	1.7
	1.0s	17.25nm			4.8mb	
CHTO	31.20	122	eP	46	13.10	-1.2
MBH	31.36	264	eP	46	16.00	0.2
GPA	31.48	286	iP	46	20.10	3.5X
WAJH	31.85	257	eP	46	20.30	0.4
HRT	31.86	287	eP	46	11.00	-8.9X
BCK	31.92	280	eP	46	21.40	0.8
GVA	31.98	102	P	46	21.20	0.0
Z	12s	1.00um			4.7MszX	
N	10s	1.10um				
E	10s	1.40um				
TIY	31.99	79	Pc	46	21.00	-0.1
Z	22s	2.40um			4.8Msz	
N	12s	2.50um				
YLV	32.13	286	iP	46	22.30	0.0
DHJN	32.31	237	eP	46	25.30	1.0
BDT	32.38	124	eP	46	24.30	-0.3
PSN	32.51	292	iPd	46	24.00	-1.5
KHL	32.51	282	eP	46	25.90	0.2
ELL	32.64	279	eP	46	28.40	1.5
CTT	32.72	288	eP	46	28.80	1.4
KSL	33.08	278	eP	46	29.00	-1.6
BNT	33.26	286	eP	46	32.90	0.8
EDC	33.30	286	iP	46	35.00	2.6
MFT	33.64	287	iP	46	37.40	1.9
JMB	33.85	290	iP	46	37.00	-0.1
LOE	34.05	121	eP	46	38.00	-1.2
HLW	34.07	267	eP	46	41.50	2.3
BJI	34.25	74	eP	46	40.50	-0.1
Z	18s	2.90um			5.1Msz	
N	12s	1.47um				
NST	34.27	125	eP	46	41.00	0.1
EZN	34.57	286	iP	46	45.90	2.6
PVL	34.63	292	iPd	46	45.00	1.1
DIM	34.69	290	eP	46	44.00	-0.4
SMG	34.72	282	eP	46	46.50	1.8
PRK	34.75	285	eP	46	47.00	2.1
KDZ	34.85	289	eP	46	46.00	0.2
RDO	34.86	288	eP	46	48.00	2.2
TNR	35.06	296	ePc	46	48.00	0.4
PLD	35.28	290	eP	46	52.00	2.6
RZN	35.36	290	iPc	46	50.00	-0.3
PGB	35.59	291	iP	46	58.00	5.9X
SUF	35.98	326	eP	46	53.70	

03d 16h																				
NPS	36.42	279	eP	46	57.50	-1.6	PRU	41.09	305	Pc	47	38.10	0.3	RMP	44.04	293	P	48	04.00	2.0
PLG	36.58	288	eP	47	00.50	0.0		1.4s	80.00nm			5.3mb	SFI	44.06	296	Pc	48	03.70	1.6	
BZS	36.92	297	eP	47	03.50	0.4	Z	11s	2.30um			5.3MszX	CRE	44.07	296	P	48	04.10	1.8	
VAY	37.01	290	iP	47	04.00	0.0	E	10s	1.90um				PGD	44.17	296	P	48	04.50	1.3	
	1.2s	265.00nm				6.0mb			PP	49	14.60		GIB	44.28	288	P	48	02.50	-1.5	
			i	47	06.70				SS	56	50.00		SAL	44.55	299	P	48	09.00	3.0X	
NEO	37.02	286	eP	47	04.00	-0.1	SNG	41.19	133	eP	47	39.10	0.2	OSS	44.56	301	ePc	48	05.50	-0.8
ARO	37.35	231	iP+	47	09.00	1.8		0.9s	228.57nm			5.9mb	FAI	44.78	287	P	48	11.00	3.0X	
VAM	37.45	280	eP	47	07.00	-0.8	VBY	41.34	298	ePc	47	41.20	1.3	MME	44.79	297	P	48	09.80	1.5
SPC	37.47	303	eP	47	08.50	0.5	BRG	41.36	306	iP	47	40.60	0.6	BDI	44.90	297	P	48	11.50	2.5
			i	47	10.80			1.3s	240.00nm			5.8mb	TNS	44.93	306	ePc	48	08.90	-0.2	
			i	48	21.50				e	56	53.20		SAX	44.96	302	ePc	48	09.00	-0.7	
			i	48	38.30		KMR	41.63	302	eP	47	42.00	-0.3	PII	45.04	296	P	48	09.50	-0.5
SOD	37.61	333	iP	47	08.30	-0.4			i	47	44.80		VDL	45.06	301	ePc	48	10.20	-0.1	
			i	48	36.00				iPP	49	20.60		MDI	45.07	299	P	48	11.50	1.4	
SKO	37.69	291	iP	47	09.20	-0.5			iPcP	49	38.80		KLM	45.11	135	eP	48	11.50	0.8	
	1.1s	112.00nm				5.7mb	LJU	41.73	299	eP	47	43.00	-0.1	LLS	45.28	301	ePc	48	10.90	-1.2
			i	47	12.10		AAE	41.80	233	eP	47	47.00	2.7	SLE	45.41	302	ePc	48	13.30	0.4
			i	47	40.50		KHC	41.83	303	iPc	47	44.40	0.5	BOB	45.51	298	P	48	14.70	1.0
			i	47	57.00			1.2s	75.00nm			5.3mb	ZLA	45.54	302	ePc	48	13.80	-0.2	
			iS	53	04.00			N	22s	1.00um			TMA	45.55	300	ePd	48	13.10	-1.1	
PSZ	37.81	301	iP	47	13.20	2.4		E	22s	0.50um			ABH	45.56	306	eP	48	13.93	-0.2	
KZN	37.84	288	eP	47	11.00	-0.1	ORI	41.83	290	P	47	47.00	3.0X	WIT	45.57	310	eP	48	10.00	-4.0X
BEO	37.85	296	eP	47	10.50	-0.5	CEY	41.86	298	eP	47	40.50	-3.7X	WTS	45.62	309	eP	48	15.00	0.6
			i	47	13.00		ROI	41.89	289	P	47	50.20	5.7X		1.0s	89.00nm			5.6mb	
EVR	38.18	286	eP	47	13.50	-0.5	CLL	41.91	307	iPc	47	44.40	0.7	VAI	45.68	300	P	48	14.00	-1.0
OHR	38.36	290	eP	47	14.80	-0.6		1.4s	120.00nm			5.4mb	CDF	46.06	304	eP	48	17.30	-0.7	
	1.3s	68.00nm				5.4mb			i	47	46.60			1.2s	77.35nm				5.5mb	
BUD	38.45	300	eP	47	16.00	0.0	COP	41.92	313	iPc	47	45.50	1.1	PCP	46.19	298	P	48	21.72	2.6
KEV	38.59	337	iP	47	16.80	-0.1		1.1s	182.28nm			5.7mb	KBS	46.23	347	eP	48	20.00	1.1	
	0.9s	22.00nm				5.0mb			i	47	48.20		ORX	46.28	300	P	48	19.46	-0.4	
			i	48	44.30		CSI	42.03	289	P	47	46.20	0.5	MEM	46.38	307	Pc	48	21.40	1.0
ITM	38.61	283	eP	47	16.00	-1.5	TDS	42.03	289	P	47	47.10	1.5		e	50	08.20			
DL2	38.62	74	P	47	20.00	2.5	VOY	42.16	299	e(P)	47	46.50	-0.3	ENN	46.40	307	eP	48	20.00	-0.6
	1.0s	100.00nm				5.6mb	MMN	42.22	289	P	47	50.60	3.5X		1.0s	28.00nm			5.1mb	
Z	20s	1.20um				4.7Msz	WET	42.28	304	iPd	47	48.30	0.7		e	50	13.50			
N	15s	2.20um						1.3s	165.00nm			5.6mb	PGF	46.45	295	eP	48	20.50	-0.8	
		eS	53	12.00			CZI	42.32	288	P	47	48.40	0.5		1.4s	178.60nm			5.8mb	
OIZ	38.69	110	P	47	18.00	-0.3	TRI	42.32	298	P	47	50.50	2.6	BSF	46.51	303	eP	48	20.80	-0.8
	N	15s	2.20um				MGR	42.46	290	P	47	49.50	0.3		1.2s	124.95nm			5.7mb	
	E	12s	1.20um				BHG	42.52	302	eP	47	49.80	0.2	DIX	46.54	300	ePd	48	22.00	-0.1
		PP	48	57.00				1.5s	150.00nm			5.5mb	HAU	46.76	303	eP	48	22.70	-0.8	
		eS	53	15.00			SGO	42.52	291	Pc	47	50.80	1.2		1.4s	126.35nm			5.7mb	
NJ2	38.86	85	Pd	47	20.50	0.9	NB2	42.59	321	P	47	47.80	-2.2	Z	20s	0.32um			4.3Msz	
	Z	16s	1.10um			4.8MszX		0.6s	26.00nm			5.1mb	IMI	46.82	297	P	48	22.95	-1.2	
	N	11s	1.60um				HOF	42.74	305	eP	47	51.60	0.2	LSD	46.88	300	P	48	24.69	-0.1
	E	11s	0.70um				FVI	42.80	300	P	47	51.20	-0.6	RSP	46.90	299	P	48	21.92	-2.9
SRO	38.88	301	eP	47	20.00	0.4	DUI	42.82	292	P	47	56.00	3.8X	KGM	46.94	134	ePc	48	29.20	4.0X
			i	47	23.00		MOX	42.86	306	iP	47	53.00	0.7	ENR	47.05	298	P	48	26.43	0.5
			e	48	44.80			1.5s	129.00nm			5.4mb	STV	47.11	298	P	48	26.13	-0.3	
			e	48	54.60		Z	12s	2.40um			5.3MszX	LPG	47.14	300	eP	48	26.60	-0.3	
			i	49	10.30		N	12s	1.10um					1.2s	162.70nm				5.8mb	
GZH	38.90	102	P	47	20.00	0.0	E	12s	1.20um				SBF	47.15	298	eP	48	26.20	-0.5	
	Z	10s	2.10um			5.3MszX							PZZ	47.19	298	P	48	25.92	-1.2	
	E	11s	2.10um				MDJ	42.91	63	eP	47	52.70	-0.1	RRL	47.28	299	P	48	27.87	-0.1
SNY	39.30	69	iPc	47	22.50	-0.6		Z	16s	2.70um		5.2MszX	BN1	47.32	299	P	48	27.90	-0.3	
	7.0s	500.00nm				5.5mb X		N	10s	2.20um			UCC	47.37	307	P	48	31.20	3.0X	
	Z	16s	2.70um			5.2MszX		E	10s	0.80um			DOU	47.38	306	P	48	28.00	-0.4	
	E	12s	1.90um				ATN	43.15	287	Pc	47	54.90	0.1	SNF	47.48	307	P	48	28.80	-0.3
UPP	39.32	320	iP	47	22.10	-1.0	VVI	43.18	299	P	47	57.00	2.1	FRF	47.78	297	eP	48	30.60	-1.0
			i	47	24.20		GRF	43.26	305	iPc	47	56.70	1.1		1.3s	169.70nm			5.9mb	
ZST	39.64	302	eP	47	25.70	-0.2		1.2s	95.00nm			5.4mb	LMR	47.95	297	eP	48	31.90	-1.0	
			i	49	04.10		Z	17s	1.00um			4.8MszX		1.5s	167.15nm				5.8mb	
KSP	39.89	306	iPd	47	28.00	0.1			e	47	58.70		LRG	48.01	297	eP	48	32.50	-0.9	
	1.3s	76.00nm				5.4mb			e	48	03.00			1.3s	148.00nm				5.9mb	
			e	48	37.70		SDI	43.27	293	Pc	47	59.80	4.0X		20s	0.73um			4.7Msz	
			e	55	39.00		ARV	43.41	295	Pc	47	57.60	0.7	BAG	48.32	104	eP	48	37.50	1.3
VKA	40.15	302	eP	47	25.00	-5.1X	WATA	43.46	301	iPd	47	56.80	-0.6	LOR	48.57	303	eP	48	36.00	-1.7
	3.0s	269.00nm				5.5mb		1.2s	125.00nm			5.5mb		1.3s	75.80nm				5.6mb	
			i	47	33.30				i	47	59.50			Z	20s	0.40um			4.4Msz	
			i	47	48.60		AZI	43.47	293	P	48	02.00	4.8X	LBF	48.58	303	eP	48	36.50	-1.3
			i	49	03.80		FUR	43.50	302	iPd	47	58.50	1.0		1.3s	101.10nm			5.7mb	
			i	49	38.60		IPM	43.54	134	ePd	47	59.50	1.3	SMF	48.76	302	eP	48	38.10	-1.0
CN2	40.19	65	eP	47	30.50	0.0		0.8s	2226.60nm			6.9mb X	SSF	48.86	303	eP	48	38.60	-1.3	
	1.0s	20.00nm				4.9mb	CTI	43.69	299	P	47	58.00	-1.2		1.3s	95.65nm			5.7mb	
	Z	16s	4.70um			5.4MszX	MUD	43.70	315	eP	48	00.00	1.0	AVF	49.04	302	eP	48	40.20	-1.1
	N	13s	1.00um					1.3s	53.00nm			5.1mb	BGF	49.44	302	eP	48	43.20	-1.2	
	E	13s	1.60um						e	49	37.00			1.0s	60.00nm				5.6mb	
ZAG	40.78	298	iP	47	37.30	23kmX	ASS	43.72	295	Pc	48	01.00	1.6	MAF	49.73	302	eP	48	46.00	-0.6
PTJ	40.78	298	eP	47	34.60	-0.8	SQTA	43.73	301	iPd	47	58.80	-0.7	TCF	49.94	302	eP	48	47.40	-0.9
SSE	41.07	85	Pc	47	36.00	-1.8		1.3s	108.00nm			5.4mb	LSF							

EKA	Z	20s	0.47um	4.5Msz	LIC	75.59	266	P	51	38.54	-0.5	KKN	13.43	195	P	28	24.40	-1.4									
		50.73	315	Pc		1.4s	43.50nm			5.2mb			0.8s	31.00nm				5.3mb									
		1.4s	102.10nm	5.7mb		Z	22s	0.35um		4.6Msz		PKI	13.62	194	P	28	27.40	-1.0									
LDF		50.75	306	eP	48	53.20	-1.1	SLR	76.01	219	eP	51	41.00	-0.3	DMN	13.64	195	P	28	27.60	-1.0						
		1.2s	238.00nm	6.1mb			1.5s	111.11nm		5.6mb		CD2	15.49	125	P	28	52.20	-0.4									
FLN		50.93	306	eP	48	54.30	-1.3	EVA	76.26	218	iPc	51	41.60	-1.2		Z	15s	2.03um									
		1.2s	178.50nm	6.0mb			0.5s	24.65nm		5.4mb		NDI	15.57	222	eP	28	51.50	-2.1									
LPO	Z	20s	0.77um	4.7Msz	KDC	76.79	22	eP	51	44.60	-0.5		0.6s	40.00nm				4.8mb									
		51.14	300	eP	48	56.70	-0.7	KSR	76.81	220	iPc	51	44.00	-1.8	BTO	15.88	84	eP	28	58.00	0.3						
		1.4s	122.00nm	5.7mb			1.0s	40.00nm		5.4mb		E	13s	3.50um													
NAI		51.17	227	iPd	49	00.50	2.4	PRY	77.40	219	iPd	51	56.00	7.0X	HHC	17.01	83	eP	29	12.30	0.3						
GRR		51.28	306	eP	48	56.90	-1.4		0.7s	5.00nm		Z	15s	2.50um													
LFF		51.36	301	eP	48	58.20	-0.7	SEK	78.49	219	iPd	51	55.40	0.4		S			32	21.00							
		1.4s	209.10nm	6.0mb			0.9s	65.55nm		5.6mb		XAN	17.16	107	P	29	13.00	-0.8									
MFF		51.39	303	eP	48	57.80	-1.4	SWZ	78.69	221	iPc	51	55.00	-1.1		N	13s	3.80um									
		1.2s	136.85nm	5.9mb			1.0s	35.00nm		5.3mb		E	13s	2.10um													
LPF		51.51	305	eP	48	59.30	-0.8	YKA	78.71	3	eP	51	54.70	-0.8	TIY	18.35	92	Pd	29	27.00	-1.6						
		1.2s	77.35nm	5.6mb			1.1s	26.80nm		5.1mb		Z	11s	2.20um													
MAT		51.75	70	eP	49	00.00	-2.1	WIN	79.60	230	eP	52	05.40	4.2X		N	10s	1.50um									
KKM		52.02	117	ePd	49	05.90	1.5	MRWA	79.60	141	eP	52	00.50	-0.3	KMI	19.41	140	Pc	29	41.00	-0.8						
		1.3s	256.40nm	6.1mb			BLF	79.84	219	iPd	52	01.50	-0.8		2.5s	200.00nm											
EPF		52.30	299	eP	49	04.20	-2.0		0.6s	25.00nm		5.3mb		Z	16s	0.80um											
		1.4s	82.75nm	5.6mb	SCH	79.90	337	eP	52	03.00	0.8		pP			29	50.00	34kmX									
DAG		52.43	343	iPc	49	04.90	-1.8	MUN	81.99	143	eP	52	13.30	0.0	GYA	20.47	129	iPc	29	53.00	0.2						
		1.0s	74.00nm	5.7mb	WB5	83.02	122	eP	52	18.20	-0.8		1.0s	100.00nm													
EBR		53.02	296	eP	49	13.00	1.5	WRA	83.05	122	P	52	18.00	-1.1		Z	12s	0.60um									
EROQ		53.08	296	eP	49	13.90	2.0		0.7s	53.20nm		5.7mb		N	10s	0.60um											
ETA		53.19	312	eP	49	12.10	-0.5	PMG	84.97	106	eP	52	29.50	0.6		E	10s	0.70um									
ECP		53.45	311	iPc	49	14.00	-0.4	ASPA	85.43	125	eP	52	29.30	-1.7		S			33	41.00							
		1.0s	116.00nm	5.9mb			0.8s	19.20nm		5.3mb		BJI	20.62	83	eP	29	54.50	0.4									
ECRI		54.40	299	eP	49	22.00	0.3		eS	03	00.50		1.0s	24.00nm													
ECHE		54.54	295	eP	49	22.60	-0.1	FFC	86.44	356	eP	52	36.00	0.4		eS			33	40.00							
ETOR		54.80	297	eP	49	23.60	-1.1		1.3s	114.00nm		5.9mb		QUE	20.87	246	eP	29	57.70	0.7							
EVIA		56.02	295	eP	49	32.80	-0.8	CER	86.74	221	eP	52	40.00	2.7		eS			33	42.50							
ENIJ		56.55	293	eP	49	36.60	-0.7	EDM	88.03	3	eP	52	44.00	0.6	TIA	22.39	93	eP	30	13.30	1.3						
TOL		56.57	297	iPd	49	37.00	-0.4	SES	90.93	2	eP	52	57.00	-0.1		N	10s	0.90um									
EBAN		57.14	295	eP	49	40.50	-0.9	CTA	91.29	115	iPc	53	00.00	1.0		S			34	16.50							
EMON		57.30	302	eP	49	41.00	-1.5		1.3s	100.96nm		6.1mb		WHN	22.90	109	Pc	30	18.80	1.7							
AFC		57.37	294	eP	49	41.80	-1.4	RSNY	91.32	336	P	53	01.50	2.6		1.0s	60.00nm										
ERUA		57.61	301	eP	49	44.40	-0.3		1.4s	39.29nm		5.6mb		Z	12s	1.20um											
EPLA		57.90	298	eP	49	46.30	-0.4	PNT	91.49	7	iP	53	01.00	1.3		N	10s	1.50um									
DAV		58.02	108	eP	49	50.00	2.2		0.9s	23.00nm		5.6mb			pP			30	23.00	15km							
MAL		58.23	294	eP	49	47.00	-2.0	NEW	92.76	6	P	53	06.00	0.5		eS			34	26.00							
EHOR		58.32	295	eP	49	48.60	-1.1		1.0s	18.75nm		5.5mb		MAIO	23.51	268	iPd	30	25.00	1.9							
EPRU		58.70	294	eP	49	50.20	-2.2	RMW	93.09	9	P	53	09.50	2.4		0.8s	24.89nm										
BCAO		58.89	248	iPc	49	53.50	-0.4	LON	93.78	9	P	53	12.00	1.7		eS			34	48.00							
		0.8s	44.00nm	5.6mb	BMW	93.87	10	P	53	26.20	15.5X		CHG	23.57	156	ePc	30	24.90	1.2								
			ic	53	25.00		LRM	95.46	3	eP	53	19.60	1.3		1.2s	150.39nm											
			ic	57	58.00		ALO	106.37	358	e(Pd if	54	11.00	3.8X		CHTO	23.57	156	eP	30	24.20	0.5						
EJIF		59.11	294	eP	49	56.00	0.8		Z	18s	0.77um		5.3Msz		1.3s	170.34nm											
EVAL		59.49	296	eP	49	57.00	-0.8	SPA	128.84	180	iPKPd	59	00.00	-0.2	BDT	25.07	157	iPc	30	39.60	1.5						
TRT		60.18	131	ePc	50	02.50	-0.2		1.0s	15.00nm				1.0s	55.20nm												
NPA		61.67	216	iP	50	10.00	-2.7	SIV	132.67	285	PKP	59	09.00	0.2	HYB	25.08	204	eP	30	38.00	-0.4						
AVE		62.03	292	eP	50	15.00	-0.1		i	01	28.80			1.0s	50.00nm												
			i	50	19.00		ZOBO	138.06	291	PKP	59	20.00	0.3		eS			35	08.00								
TIO		63.13	289	iP	50	22.50	-0.1		e	02	08.00			NJ2	25.43	101	Pc	30	43.50	2.1							
BRW		64.78	15	eP	50	32.40	-0.2	CNCB	138.31	290	PKP	59	21.60	1.4		Z	16s	0.50um									
MBC		64.80	3	ePd	50	31.60	-1.0	MDZ	147.45	268	e(PKP)	59	38.70	3.8X		N	11s	0.70um									
		1.0s	179.00nm	6.0mb	FCH	148.74	268	ePKP	59	42.00	4.7X			pP			30	52.50	32km								
KRI		67.94	224	iPd	50	41.10	-12.4X	PEL	148.98	269	iPKPc	59	42.00	4.7X		eS			35	03.00							
GUMO		68.76	90	eP	50	56.80	-1.8	SAN	149.08	268	ePKP	59	42.00	4.6X	LOE	25.82	151	iPc	30	45.60	0.4						
BUL		71.21	222	iPd	51	12.80	-0.7	TACH	149.36	268	ePKP	59	43.00	5.2X	SNY	25.82	76	eP	30	45.00	0.0						
		0.8s	4.10nm	4.4mb	X			S.D. = 1.2	on 287 of 323 obs.											1.0s	30.00nm						
INK		71.36	10	ePc	51	13.00	-0.6		-----											Z	17s	2.80um					
		0.8s	67.00nm	5.6mb				NOV	03, 1990	17h	25m	13.86±	0.15s		E	12s	1.60um										
TTA		71.54	21	eP	51	15.00	0.1		40.882 N ± 3.2km 89.071 E ± 3.0km										POO	25.82	215	eP	30	44.50	-0.8		
		1.0s	30.00nm	5.2mb				DEPTH = 22.0km (19 depth phases)										NST	26.89	156	eP	30	56.80	1.7			
SHGH		71.90	263	eP	51	15.70	-1.9		5.1mb (55 obs.) 4.1Msz (5 obs.)										CN2	26.91	72	P	31	00.00	4.9X		
FBA		71.95	16	eP	51	16.50	-0.7		SOUTHERN XINJIANG, CHINA (321)											1.0s	50.00nm						
		1.0s	62.50nm	5.5mb				WMO	3.11	341	Pn	26	05.50	2.8		Z	12s	2.40um									
KUK		71.99	263	eP	51	19.50	1.3			Sg	26	49.00			N	11s	0.50um										
TEGH		72.06	263	eP	51	17.70	-0.8	GTA	8.36	97	Pc	27	16.10	-0.7		E	11s	0.90um									
LEGH		72.19	263	eP	51	17.00	-2.3		1.2s	130.00nm		6.0mb		SSE	27.63	100	Pd	31	02.00	0.3							
WEGH		72.33	263	eP	51	18.00	-2.2		Z	14s	5.10um		4.8Msz		1.0s	17.00nm											
SVW		73.11	22	eP	51	24.70	0.6			pP	27	23.80			Z	12s	0.90um										
NANU		73.87	138	eP	51	30.00	1.1			sP	27	30.60				pP			31	12.00	36kmX						
LKO		73.98	269	Pd	51	28.74	-1.1	KSH	10.12	266	eP	27	41.00	-0.1	QIZ	28.12	135	eP	31	06.30	0.1						
		0.8s	82.50nm	5.7mb			LSA	11.28	171	P	28	00.00	2.7		N	12s	0.40um										
PMR		74.47	19	eP	51	30.90	-1.0			sP	28	11.50			E	12s	0.50um										
		1.0s	54.20nm	5.4mb					</																		

03d 17h																				
SHI	31.66	261	eP	31	39.00	1.1	DIX	57.00	305 ePd	35	00.70	0.3	CNCB	148.89	314	PKP	44	59.80	1.5	
SNG	35.11	160	eP	32	07.20	-0.4	LPL	57.68	304 eP	35	05.40	0.3	ARE	150.42	320	e(PKP)	45	06.00	5.7X	
IPM	37.71	160	ePc	32	31.40	1.8		1.1s	46.40nm		5.4mb		S.D. = 1.0 on 129 of 144 obs.							
	0.8s	29.70nm			5.2mb		BNI	57.93	304 P	35	07.50	0.8								
KAS	41.05	290	eP	32	59.00	1.8	LOR	58.63	307 eP	35	10.20	-1.3	& NOV 03, 1990 17h 29m 08.59s							
SUF	42.47	323	eP	33	09.00	0.6		1.0s	10.00nm		4.9mb		61.987 N 147.576 W							
	0.7s	9.90nm			4.7mb		Z	20s	0.13um		4.0msz		DEPTH = 39.8km							
SOD	42.53	330	iP	33	03.10	-5.8X	LBF	58.69	307 eP	35	11.00	-1.0	SOUTHERN ALASKA							
HRI	42.66	277	eP	33	13.00	2.4		1.0s	10.00nm		4.9mb		<AGS-P>							
KEV	42.71	333	eP	33	08.00	-2.3	SMF	58.94	307 eP	35	13.00	-0.6	(2)							
NUR	43.23	319	iP	33	13.50	-1.2		1.2s	35.70nm		5.4mb		SCM	0.19	143	iP	29	15.46	-0.5	
		e	33	21.00	25km		SSF	58.94	307 eP	35	12.60	-1.0				iS	29	21.82		
ZNT	43.66	276	eP	33	20.00	1.4		1.0s	6.00nm		4.7mb		SML	0.40	244	iP	29	17.34	-0.8	
MBH	44.94	273	eP	33	30.00	0.9	AVF	59.16	307 eP	35	14.50	-0.6	TOA	0.67	79	iP	29	21.07	-0.7	
UPP	46.79	319	iP	33	43.40	0.3		1.2s	19.35nm		5.1mb		GHO	0.67	252	iP	29	20.90	-0.9	
VAY	48.96	294	eP	34	00.50	0.2	BGF	59.58	307 eP	35	17.50	-0.6				eS	29	31.12		
SRO	49.45	303	eP	34	01.50	-2.5	MAF	59.91	307 eP	35	20.20	-0.2	KNK	0.71	216	iP	29	21.90	-0.4	
NB2	49.67	321	P	34	05.20	-0.4		1.1s	18.30nm		5.1mb					eS	29	32.49		
	0.6s	8.20nm			4.9mb		TCF	60.10	307 eP	35	21.30	-0.3	PLRM	0.84	242	eP	29	23.01	-1.0	
KSP	49.72	307	eP	34	05.50	-0.6		1.0s	18.00nm		5.2mb					eS	29	34.68		
	0.9s	22.00nm			5.2mb		LDF	60.35	310 eP	35	23.10	-0.2	PMR	0.84	242	iPc	29	21.10	-2.9	
		i	34	13.00	25km		FLN	60.48	311 eP	35	23.40	-0.7	KLU	0.93	121	iP	29	24.33	-1.1	
ZST	50.09	304	eP	34	10.00	1.1		Z	21s	0.25um		4.3msz				eS	29	37.19		
		i	34	15.80	19km		CAF	60.86	306 eP	35	26.90	0.1	TZL	1.02	86	eP	29	26.04	-0.5	
PRU	51.06	307	Pc	34	16.90	0.6	GRR	60.88	310 eP	35	26.20	-0.7				eS	29	39.72		
		e	34	23.30	21km			0.9s	13.10nm		5.1mb		VLZ	1.04	145	iP	29	25.51	-1.4	
BRG	51.12	308	iP	34	16.60	-0.1	RJF	61.00	306 eP	35	27.90	0.1				eS	29	41.97		
	1.0s	30.00nm			5.2mb			1.2s	23.80nm		5.2mb		VZW	1.05	152	eP	29	25.87	-1.2	
		i	34	22.90	21km			Z	20s	0.13um		4.1msz		SDG	1.09	59	iP	29	26.58	-1.1
		i	34	37.30			LPF	61.16	310 eP	35	28.00	-0.8	GLI	1.14	168	eP	29	27.89	-0.4	
CLL	51.53	309	iPc	34	19.40	-0.4	MFF	61.36	308 eP	35	29.40	-0.8				iS	29	43.94		
	1.0s	18.00nm			5.0mb		LPO	61.52	306 eP	35	31.30	0.0	PWA	1.14	254	eP	29	28.22	-0.1	
		i	34	26.10	22km			1.2s	20.85nm		5.1mb		PMS	1.21	233	eP	29	29.32	0.0	
KHC	51.95	306	eP	34	23.00	-0.1	LFF	61.66	306 eP	35	32.40	0.2	CUT	1.33	290	iP	29	30.57	-0.4	
		e	34	30.00	23km			1.2s	35.70nm		5.4mb		HUR	1.38	317	eP	29	30.74	-1.0	
WET	52.37	306	iPd	34	27.40	1.1	MBC	61.74	7 eP	35	31.50	-0.9				eS	29	48.98		
MOX	52.58	309	eP	34	28.00	0.2		1.0s	29.00nm		5.4mb		PAX	1.39	44	eP	29	30.77	-1.2	
	1.1s	20.00nm			5.0mb		EPF	62.90	305 eP	35	39.70	-0.9				eS	29	48.35		
BHG	52.91	305	iPd	34	31.30	1.0	IMA	63.02	24 eP	35	40.50	-0.7	RND	1.54	338	eP	29	33.13	-1.0	
GRF	53.17	308	iPc	34	33.30	1.1		1.3s	28.20nm		5.2mb					eS	29	53.20		
	1.3s	43.00nm			5.2mb			e	35	47.00	21km		SUA	1.60	252	eP	29	35.09	0.2	
Z	19s	0.10um			3.9msz		FBA	65.61	23 eP	35	57.40	-0.4	KNIM	1.65	183	eP	29	35.23	-0.3	
		id	34	39.60	21km			i	36	03.90	21km		HIN	1.68	161	eP	29	36.36	0.4	
		e	34	42.40			INK	66.57	16 eP	36	03.00	-0.8	CVA	1.69	148	eP	29	36.72	0.6	
FVI	53.41	303	P	34	42.50	8.6X	GUD	67.01	304 e(P)	36	07.80	0.5	MCK	1.86	341	eP	29	38.13	-0.5	
FUR	53.73	306	eP	34	37.50	1.2	EVIA	67.10	302 e(P)	36	08.50	0.6	SKT	1.87	272	eP	29	38.51	-0.2	
WATA	53.87	305	iPKPc	34	37.40	-0.1	TOL	67.38	304 eP	36	10.00	0.5	GLB	1.87	105	eP	29	38.24	-0.6	
	1.2s	24.10nm			5.1mb		MBL	68.03	149 eP	36	13.90	0.3	SGAM	1.88	141	eP	29	38.50	-0.4	
		i	34	44.00	22km		EBAN	68.20	302 e(P)	36	15.00	0.3	TRF	1.93	321	eP	29	38.82	-0.9	
		i	34	48.50			BCAO	72.42	260 iPc	36	40.50	-0.1	LTJ	1.96	184	eP	29	40.15	0.1	
TDS	53.97	294	P	34	46.00	7.9X		0.6s	21.00nm		5.4mb		SLKM	1.96	222	eP	29	40.88	0.8	
SOTA	54.15	305	iPKPc	34	39.30	-0.2	MEKA	72.51	153 iPc	36	40.90	0.1	DDM	1.97	23	eP	29	40.78	0.5	
	1.1s	25.20nm			5.2mb		WB5	73.65	136 iPc	36	47.80	0.3	SEW	2.10	207	eP	29	42.46	0.5	
		i	34	45.70	21km		WRA	73.68	136 P	36	47.00	-0.7	RAGM	2.13	138	eP	29	44.11	1.5	
		i	34	49.10				1.3s	28.70nm		5.1mb		CGLM	2.22	254	eP	29	44.01	0.1	
CZI	54.31	294	P	34	40.00	-0.6	YKA	75.23	11 eP	36	55.00	-1.1	NCG	2.26	257	eP	29	44.59	0.1	
CTI	54.35	303	P	34	44.00	3.0X	MUN	76.71	157 iPd	37	05.00	0.2	SPU	2.29	251	eP	29	44.55	-0.3	
DAG	54.48	344	eP	34	41.00	-0.4	CTA	80.58	127 iPc	37	27.00	0.8	CRP	2.30	254	eP	29	45.39	0.3	
	0.7s	8.90nm			4.9mb			1.0s	23.00nm		5.2mb		HMT	2.31	134	eP	29	44.76	-0.3	
WTS	54.86	311	eP	34	41.00	-3.5X	BUL	82.64	236 iPd	37	36.90	-0.2	BWN	2.36	339	eP	29	44.83	-0.9	
	1.0s	36.00nm			5.4mb			1.0s	5.50nm		4.6mb		BGL	2.41	255	eP	29	46.85	0.3	
		e	34	51.50	35kmX			iP	37	45.80	28km		CKL	2.41	253	eP	29	46.36	-0.2	
		e	34	54.50			FFC	84.30	6 eP	37	46.00	1.1	HDA	2.44	6	eP	29	46.10	-0.9	
ASS	54.96	300	P	34	52.00	6.5X		1.1s	44.00nm		5.6mb		WRH	2.51	355	iP	29	47.07	-0.7	
OSS	55.03	304	ePd	34	46.10	0.0	BFT	85.93	231 iPc	37	54.00	0.4	KAIM	2.58	142	eP	29	48.01	-0.8	
SFI	55.12	301	P	34	47.00	0.5		1.0s	20.00nm		5.3mb		TGL	2.60	116	eP	29			

DEPTH = 143.8 ± 6.4 km 4.8mb (12 obs.) PERU-BOLIVIA BORDER REGION (118)					0.4s 3.00nm 4.7mb RMO 122.55 221 iPKPd 05 51.20 1.5 RKG 128.24 187 ePKP 06 09.50 9.0X WB5 136.00 213 ePd if 03 26.50 6.7X GUMO 146.70 268 ePKP 06 42.00 7.4X GBA 147.92 92 PKP 06 42.00 5.5X MAT 149.13 313 ePKP 06 43.00 5.1X GKN 154.05 62 PKP 06 54.40 8.9X KKN 154.66 62 PKP 06 55.60 9.2X PSI 161.32 141 ePKPd 06 55.50 1.2 S.D. = 1.2 on 58 of 70 obs.					1.0s 50.00nm 5.2mb sP 08 26.00 Pc 07 46.50 0.4 50.00nm 5.2mb ScP 13 22.50 Pc 07 52.00 1.3 70.00nm 5.1mb sP 08 31.50 (P) 08 19.00 -3.1X 330 P 08 22.00 -0.6 343 Pc 08 41.70 -0.7 348 eP 08 51.50 -0.4 120.00nm 5.4mb PcP 10 16.00 ScP 13 55.00 iPc 08 56.00 0.2 75.00nm 5.4mb PcP 10 18.00 ScP 13 59.00 eP 09 06.60 0.0 357 eP 09 10.20 -0.8 318 P 09 14.20 0.2 1 Pc 09 15.80 -1.0 138 eP 09 19.50 0.4 140 P 09 19.90 0.2 137 P 09 23.40 -0.5 139 P 09 24.20 -0.1 47.00nm 5.8mb 141 P 09 25.00 0.3 136 eP 09 25.80 -0.2 137 eP 09 26.50 -1.1 137 eP 09 28.30 -1.2 333 iPc 09 29.50 -0.2 20.00nm 4.9mb 136 eP 09 28.70 -1.2 137 eP 09 29.40 -1.0 136 eP 09 31.50 -0.6 17.00nm 5.4mb 312 P 09 32.50 -0.7 101.00nm 5.9mb 312 P 09 33.38 -1.0 38.00nm 5.4mb 131 eP 09 33.50 -0.9 39.00nm 5.8mb 312 P 09 35.06 -0.8 42.00nm 5.6mb 132 eP 09 34.70 -0.8 312 P 09 35.30 -0.8 133 eP 09 34.50 -1.2 292 Pd 09 36.20 -1.5 15.80nm 4.8mb 312 P 09 39.44 -0.6 100.00nm 6.0mb 297 eP 09 38.50 -1.8 60.00nm 5.4mb 328 P 10 34.00 -0.2 306 eP 11 17.20 -0.6 201 iPc 11 42.60 0.8 310 iPc 12 04.10 0.4 249 iPd 13 36.20 0.2 246 ePKP 18 33.70 -1.2 2.40nm 321 ePKP 18 47.70 -1.1 320 ePKP 18 48.80 -0.9 5.10nm 320 ePKP 18 49.50 -0.6 2.90nm 316 ePKP 18 51.60 -0.9 320 ePKP 18 53.10 -0.5 2.20nm 320 ePKP 18 53.30 -0.4 4.35nm 320 ePKP 18 53.30 -0.7 2.20nm 320 ePKP 18 53.90 -0.2 5.85nm 320 ePKP 18 53.80 -0.7 2.90nm 320 ePKP 18 55.20 -0.1 9.50nm 320 ePKP 18 55.60 -0.3 1.45nm 320 ePKP 18 56.20 -0.1 2.20nm 320 ePKP 18 56.90 -0.2 1.45nm 318 ePKP 18 57.80 0.3
NOV 03, 1990 20h 00m 20.87 ± 0.56s 7.475 S ± 3.7km 128.273 E ± 4.6km DEPTH = 139.5 ± 5.4 km 5.4mb (26 obs.) BANDA SEA (280)					5.32 240 ePd 01 32.70 -6.7X eS 02 30.00 152 iPd 01 49.00 0.0 177 eP 02 17.70 -1.1 eS 03 41.00 349 eP 03 50.80 7.4X 268 ePc 03 56.00 2.7 210 eP 03 56.50 -1.2 eS 06 40.00 162 iPc 04 09.30 -2.2 0.7s 468.60nm 5.9mb 18s 0.20um 3.5msz eS 07 03.10 87 eP 04 21.50 2.2 318 ePd 04 27.00 2.9 185 iPc 04 31.30 0.4 67.00nm 5.3mb eS 07 51.00 97 eP 04 31.50 -0.5 156.72nm 5.4mb 205 eP 04 57.00 0.6 eS 08 48.00 128 iPc 05 01.00 1.6 79.45nm 5.2mb iS 08 50.00 195 iPd 05 26.00 -0.1 143 iPc 05 27.80 0.8 e 10 01.00 342 eP 05 33.00 0.1 204 eP 05 37.20 -0.1 201 eP 05 41.70 -0.1 e 06 12.50 eS 10 38.00 38 eP 05 48.50 0.1 203 iPd 05 49.90 -0.3 eS 10 59.00 201 iPc 05 54.60 0.1 eS 11 10.00 148 iPc 06 09.60 0.3 e 11 50.00 162 iPc 06 09.90 0.3 125.42nm 6.0mb e 06 16.10 293 ePd 06 16.90 0.8 288 ePd 06 26.50 -0.7 139 iP 06 36.30 1.1 158 iPc 06 40.20 1.8 141.00nm 5.7mb e 12 52.00 148 iPc 06 43.70 2.3 eScP 12 54.30 148 iPc 06 50.80 0.9 iScP 12 55.80 155 iPc 06 53.10 1.7 69.00nm 5.5mb 148 iPd 06 52.70 1.1 28.00nm 5.2mb iPp 07 06.30 53kmX 311 eP 07 28.00 1.3 350 P 07 34.50 -0.3 19.00nm 4.8mb 312 eP 07 37.00 1.8 33.59nm 5.0mb 312 eP 07 35.90 0.7 23.25nm 4.9mb 116 iPc 07 40.20 0.4 329 iPc 07 42.40 1.0 PcP 09 46.00 341 Pc 07 45.20 1.0					
CNCB 1.64 61 iPd 47 43.10 2.2	MDZ 15.22 178 e(P) 50 38.60 0.6	BAO 20.69 88 ePd 51 39.80 0.0	DAV 14.71 349 eP 03 50.80 7.4X	MTW 53.62 136 eP 09 28.70 -1.2						
LPB 1.70 51 Pd 47 43.90 2.5	PEL 15.51 184 iPd 50 40.00 -1.5	BMA 24.30 106 eP 52 14.90 0.0	TRT 15.50 268 ePc 03 56.00 2.7	BLW 53.69 137 eP 09 29.40 -1.0						
ZOBO 1.86 45 iPd 47 05.00 -38.4X	PPD 17.66 107 eP 51 05.90 -1.9	JFO 24.96 104 e(P) 52 20.90 -0.2	MBL 15.86 210 eP 03 56.50 -1.2	PGZ 53.92 136 eP 09 31.50 -0.6						
ARE 2.23 300 iPc 47 45.30 -2.2	MDZ 15.22 178 e(P) 50 38.60 0.6	SOB1 29.00 77 eP 52 55.50 -2.3	ASPA 16.98 162 iPc 04 09.30 -2.2	GUN 53.99 312 P 09 32.50 -0.7						
ANT 6.13 188 eP 48 32.50 -6.2X	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	Z 18s 0.20um 3.5msz	PKI 54.15 312 P 09 33.38 -1.0						
SIV 8.22 80 iPc 49 05.40 -1.5	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	YYYY 17.61 87 eP 04 21.50 2.2	HBZ 54.23 131 eP 09 33.50 -0.9						
NNA 9.04 307 iPd 49 13.20 -4.7X	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	KKM 18.03 318 ePd 04 27.00 2.9	KKN 54.36 312 P 09 35.06 -0.8						
0.5s 23.24nm 5.1mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	WARB 18.67 185 iPc 04 31.30 0.4	PUZ 54.37 132 eP 09 34.70 -0.8						
eS 50 50.00	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 67.00nm 5.3mb	DMN 54.39 312 P 09 35.30 -0.8						
MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PMG 18.78 97 eP 04 31.50 -0.5	NOZ 54.40 133 eP 09 34.50 -1.2						
PEL 15.51 184 iPd 50 40.00 -1.5	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MEKA 21.17 205 eP 04 57.00 0.6	GBA 54.64 292 Pd 09 36.20 -1.5						
PPD 17.66 107 eP 51 05.90 -1.9	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	CTA 21.47 128 iPc 05 01.00 1.6	GKN 54.95 312 P 09 39.44 -0.6						
BAO 20.69 88 ePd 51 39.80 0.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.7s 79.45nm 5.2mb	HYB 55.00 297 eP 09 38.50 -1.8						
BMA 24.30 106 eP 52 14.90 0.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COOL 24.23 195 iPd 05 26.00 -0.1	WMO 62.87 328 P 10 34.00 -0.2						
JFO 24.96 104 e(P) 52 20.90 -0.2	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	QLP 24.32 143 iPc 05 27.80 0.8	QUE 69.67 306 eP 11 17.20 -0.6						
SOB1 29.00 77 eP 52 55.50 -2.3	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BAG 24.92 342 eP 05 33.00 0.1	MAW 73.89 201 iPc 11 42.60 0.8						
PDCR 29.73 84 eP 53 03.60 -0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BAL 25.44 204 eP 05 37.20 -0.1	MAIO 77.66 310 iPc 12 04.10 0.4						
OLY 56.78 339 iPd 56 38.40 -2.2	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	KLB 25.92 201 eP 05 41.70 -0.1	BUL 96.44 249 iPd 13 36.20 0.2						
RLO 58.68 336 eP 56 53.20 -0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PJG 26.63 38 eP 05 48.50 0.1	YKA 108.93 26 ePKP 18 33.70 -1.2						
FVM 58.69 341 iPd 56 51.90 -2.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MUN 26.85 203 iPd 05 49.90 -0.3	0.6s 2.40nm						
TUL 58.77 335 eP 56 53.40 -1.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	NWAO 27.32 201 iPc 05 54.60 0.1	CDF 115.89 321 ePKP 18 47.70 -1.1						
0.9s 12.60nm 4.9mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	CMS 28.97 148 iPc 06 09.60 0.3	BSF 116.38 320 ePKP 18 48.80 -0.9						
SIO 58.83 335 eP 56 53.30 -1.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	ADE 29.00 162 iPc 06 09.90 0.3	0.5s 5.10nm						
CLE 59.84 350 iP 57 10.50 8.8X	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0mb	HAU 116.61 320 ePKP 18 49.50 -0.6						
ALO 62.96 326 eP 57 22.00 -0.9	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	IPM 29.71 293 ePd 06 16.90 0.8	0.5s 2.90nm						
0.8s 5.04nm 4.5mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PSI 30.98 288 ePd 06 26.50 -0.7	FRF 117.82 316 ePKP 18 51.60 -0.9						
ANMO 62.96 326 eP 57 22.10 -0.8	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COO 31.90 139 iP 06 36.30 1.1	LOR 118.44 320 ePKP 18 53.10 -0.5						
GLD 66.08 330 eP 57 42.90 -0.1	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BFD 32.29 158 iPc 06 40.20 1.8	LBF 118.47 320 ePKP 18 53.30 -0.4						
0.7s 16.67nm 5.1mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	1.0s 141.00nm 5.7mb	SMF 118.68 320 ePKP 18 53.30 -0.7						
GOL 66.11 330 iP 57 42.50 -0.8	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0mb	SSF 118.74 320 ePKP 18 53.90 -0.2						
1.0s 12.50nm 4.8mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	IPM 29.71 293 ePd 06 16.90 0.8	0.5s 5.85nm						
BAR 67.35 318 eP 57 51.00 0.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PSI 30.98 288 ePd 06 26.50 -0.7	AVF 118.94 320 ePKP 18 53.80 -0.7						
LIC 67.89 76 Pc 57 54.16 -0.5	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COO 31.90 139 iP 06 36.30 1.1	0.5s 2.90nm						
TIC 68.05 75 Pc 57 55.10 -0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BFD 32.29 158 iPc 06 40.20 1.8	BGF 119.35 320 ePKP 18 55.20 -0.1						
0.9s 37.50nm 5.2mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	1.0s 141.00nm 5.7mb	MAF 119.66 320 ePKP 18 55.60 -0.3						
KIC 68.20 76 Pc 57 56.28 -0.3	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0mb	0.5s 1.45nm						
LKO 68.63 72 Pc 57 58.58 -0.7	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	IPM 29.71 293 ePd 06 16.90 0.8	LSF 120.31 320 ePKP 18 56.90 -0.2						
0.5s 98.50nm 5.9mb X	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PSI 30.98 288 ePd 06 26.50 -0.7	0.5s 1.45nm						
GSC 69.15 320 eP 58 02.00 -0.1	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COO 31.90 139 iP 06 36.30 1.1	CAF 120.47 318 ePKP 18 57.80 0.3						
MWC 69.23 318 eP 58 03.00 0.2	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BFD 32.29 158 iPc 06 40.20 1.8							
SBB 69.38 319 eP 58 03.00 -0.5	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	1.0s 141.00nm 5.7mb							
DAU 69.57 327 eP 58 04.90 0.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0mb							
CLC 69.97 320 eP 58 07.00 -0.1	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	IPM 29.71 293 ePd 06 16.90 0.8							
DUG 70.23 326 eP 58 09.10 0.4	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PSI 30.98 288 ePd 06 26.50 -0.7							
ABL 70.37 318 eP 58 10.10 0.4	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COO 31.90 139 iP 06 36.30 1.1							
ISA 70.42 319 eP 58 10.00 0.2	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BFD 32.29 158 iPc 06 40.20 1.8							
BW06 70.49 330 eP 58 09.20 -1.1	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	1.0s 141.00nm 5.7mb							
TNP 71.24 322 iP 58 14.80 -0.1	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0mb							
0.8s 6.37nm 4.5mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	IPM 29.71 293 ePd 06 16.90 0.8							
PHAM 71.73 318 eP 58 18.50 0.9	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PSI 30.98 288 ePd 06 26.50 -0.7							
FRI 72.03 320 eP 58 21.30 2.0	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COO 31.90 139 iP 06 36.30 1.1							
PRI 72.09 318 eP 58 21.10 1.2	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BFD 32.29 158 iPc 06 40.20 1.8							
KUK 72.19 77 eP 58 21.00 0.3	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	1.0s 141.00nm 5.7mb							
SPA 72.51 180 iPd 58 12.30 -9.6X	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0mb							
1.0s 16.00nm 4.7mb	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	IPM 29.71 293 ePd 06 16.90 0.8							
LLA 72.57 319 eP 58 23.30 0.8	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	PSI 30.98 288 ePd 06 26.50 -0.7							
PRS 72.66 318 eP 58 23.50 0.5	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	COO 31.90 139 iP 06 36.30 1.1							
MHC 73.45 319 eP 58 28.50 0.7	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	BFD 32.29 158 iPc 06 40.20 1.8							
LRM 74.15 330 eP 58 32.10 0.3	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	1.0s 141.00nm 5.7mb							
BKS 74.15 319 e(P) 58 32.50 0.8	MDZ 15.22 178 e(P) 50 38.60 0.6	MDZ 15.22 178 e(P) 50 38.60 0.6	0.4s 125.42nm 6.0							

03d 20h

LPO 121.14 318 ePKP 18 59.10 0.4
 0.7s 6.60nm
 LPF 121.16 323 ePKP 18 58.60 0.0
 0.5s 4.35nm
 MFF 121.23 321 ePKP 18 58.70 -0.1
 0.5s 5.85nm
 LFF 121.33 319 ePKP 18 59.30 0.2
 EPF 122.33 317 ePKP 19 01.20 0.1
 0.7s 3.85nm
 ALQ 122.96 53 ePKP 19 03.30 0.5
 KIC 133.36 272 PKP 19 22.30 -0.7
 LKO 134.35 276 PKP 19 18.92 -6.0X
 ITB7 147.51 176 PKPc 19 50.80 2.8X
 ITB1 147.97 175 ePKP 19 52.10 3.5X
 NNA 148.42 128 iPKP 19 53.70 4.0X
 1.0s 49.00nm
 BMA 149.11 194 ePKP 19 56.00 5.4X
 e 20 00.70
 JFO 149.83 196 e(PKP) 19 57.50 5.8X
 PPD 150.67 181 iPKPc 19 58.50 5.6X
 CNCB 151.01 146 PKP 19 55.00 0.8
 LPB 151.17 146 ePKP 19 55.00 0.7
 i 20 02.00
 ZOBO 151.37 146 PKP 19 55.00 0.2
 i 20 02.00
 SIV 154.92 158 PKPc 20 00.00 1.0
 i 20 08.40
 i 20 24.50
 S.D. = 1.0 on 99 of 109 obs.

NOV 03, 1990 20h 43m 03.20±0.45s
 45.204 N ± 9.1km 150.091 E ± 7.7km
 DEPTH = 50.0km (geophysicist)
 4.6mb (19 obs.) 3.9msz (1 obs.)
 KURIL ISLANDS (221)

CN2 17.62 274 eP 47 07.00 0.4
 SSE 26.57 248 P 48 39.00 0.8
 0.6s 8.00nm 4.5mb
 HMC 28.31 275 eP 48 54.30 0.2
 TIY 28.99 268 eP 49 00.40 0.2
 WHN 31.50 255 eP 49 22.30 0.0
 XAN 33.28 265 P 49 37.50 -0.5
 GTA 37.13 279 Pd 50 11.10 0.3
 CD2 38.64 265 P 50 23.20 -0.2
 FBA 38.67 37 iP 50 24.20 0.9
 0.8s 2.00nm 4.0mb
 pP 50 37.50 50kmX
 GYA 39.31 257 P 50 29.20 0.0
 INK 44.08 31 eP 51 08.00 0.6
 CHG 49.70 255 eP 51 52.80 0.6
 CHTO 49.70 255 eP 51 52.90 0.7
 0.7s 3.49nm 4.5mb
 YKA 53.41 35 eP 52 18.90 -0.7
 0.6s 2.00nm 4.3mb
 FFC 63.27 38 iPd 53 28.60 0.1
 0.7s 10.00nm 5.0mb
 WB5 66.33 196 eP 53 48.50 -0.1
 WRA 66.40 196 P 53 49.00 -0.1
 0.7s 2.20nm 4.3mb
 POO 67.48 274 eP 53 53.50 -2.7
 GBA 68.27 268 Pd 54 00.40 -0.6
 0.9s 5.60nm 4.6mb
 NB2 68.98 340 P 54 04.40 -0.5
 0.8s 1.50nm 4.0mb
 CDF 81.25 336 eP 55 14.60 -0.5
 0.7s 3.30nm 4.4mb
 MML 82.65 309 eP 55 23.00 0.4
 LOR 83.24 338 eP 55 24.90 -0.5
 0.5s 2.90nm 4.6mb
 Z 20s 0.05um 3.9msz
 GRR 83.38 341 eP 55 25.90 -0.1
 0.5s 5.85nm 4.9mb
 LBF 83.47 337 eP 55 25.90 -0.7
 SSF 83.53 338 eP 55 26.30 -0.5
 0.5s 2.55nm 4.5mb
 LPF 83.76 341 eP 55 28.00 0.1
 0.6s 5.40nm 4.8mb
 AVF 83.82 338 eP 55 28.10 -0.1
 0.5s 2.20nm 4.4mb
 SMF 83.82 337 eP 55 28.00 -0.3
 0.7s 4.95nm 4.6mb
 PRNI 84.47 308 eP 55 33.00 1.2
 TCF 84.59 338 eP 55 32.20 0.0
 MFF 84.89 340 eP 55 33.90 0.3
 0.5s 4.35nm 4.8mb
 CAF 85.89 338 eP 55 39.50 0.8

0.7s 6.60nm 5.0mb
 LFF 86.22 339 eP 55 41.00 0.7
 0.5s 4.35nm 4.9mb
 LPO 86.34 338 eP 55 41.50 0.6
 0.5s 2.90nm 4.8mb
 EPF 88.11 338 eP 55 48.40 -1.1
 S.D. = 0.7 on 36 of 36 obs.

? NOV 03, 1990 23h 39m 20.28±1.22s
 41.000 N ± 13.9km 28.612 E ± 10.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.0 (ISK).

CTT 0.20 317 iPg 39 24.70 0.0
 eSg 39 27.20
 ISK 0.34 79 ePg 39 27.50 0.1
 HRT 0.82 102 ePg 39 36.00 -0.2
 eSg 39 47.70
 IZI 0.93 135 ePg 39 38.20 0.1
 eSg 39 50.70
 S.D. = 0.2 on 4 of 4 obs.

NOV 04, 1990 00h 04m 05.04±0.49s
 43.952 N ± 4.2km 7.682 E ± 3.8km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.1 (LDG), 2.0 (GEN).

IMI 0.16 105 P 04 08.44 -0.3
 S 04 10.80
 SBF 0.20 244 Pg 04 09.50 0.0
 Sg 04 12.50
 ENR 0.33 326 P 04 11.82 -0.2
 S 04 16.95
 ROB 0.37 22 P 04 12.95 0.3
 S 04 18.18
 STV 0.39 319 P 04 12.95 -0.1
 S 04 18.59
 FIN 0.46 56 P 04 14.49 0.1
 PZZ 0.69 323 P 04 18.69 -0.2
 S 04 28.13
 FRF 0.85 243 Pg 04 21.40 0.0
 Sg 04 33.20
 LMR 1.05 234 Pg 04 24.70 -0.2
 Sg 04 38.50
 LRG 1.08 243 Pg 04 25.70 0.4
 Sg 04 40.60
 S.D. = 0.2 on 10 of 10 obs.

NOV 04, 1990 00h 09m 09.77±0.74s
 43.861 N ± 4.8km 8.263 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 CORSICA (380)
 ML 2.3 (GEN), 2.1 (LDG).

IMI 0.27 280 P 09 15.57 0.0
 S 09 19.37
 FIN 0.35 354 P 09 16.70 -0.3
 S 09 21.21
 ROB 0.52 327 P 09 19.68 -0.6
 S 09 26.03
 SBF 0.60 270 Pg 09 22.30 0.4
 Sg 09 30.20
 ENR 0.71 301 P 09 23.71 -0.1
 S 09 31.81
 PCP 0.71 17 P 09 24.43 0.6
 S 09 32.84
 STV 0.78 300 P 09 25.15 0.2
 S 09 33.86
 PZZ 1.05 308 P 09 29.72 0.0
 S 09 42.64
 FRF 1.21 256 Pg 09 32.00 -0.3
 Sg 09 48.20
 LMR 1.38 248 Pg 09 34.10 -0.9
 Sg 09 51.00
 PGF 1.42 157 Pn 09 35.40 -0.3
 Sn 09 52.40
 LRG 1.44 254 Pg 09 37.20 1.3
 S.D. = 0.6 on 12 of 12 obs.

* NOV 04, 1990 01h 50m 11.91±0.99s
 21.302 S ± 11.2km 33.377 E ± 13.6km
 DEPTH = 10.0km (geophysicist)
 MOZAMBIQUE (581)
 mbLg 3.7 (BUL).

BUL 4.61 284 iPn 51 24.30 0.9
 iSn 52 15.80
 iSg 52 33.00
 BFT 5.33 214 iPc 51 34.50 0.8
 S 52 26.50
 KSR 7.48 231 eP 52 03.00 -0.9
 S 53 24.50
 NPA 8.33 43 eP 52 16.00 0.3
 eS 53 41.00
 SEK 8.73 216 eP 52 21.00 -0.2
 S 52 54.00
 BLF 10.13 218 eP 52 45.00 4.3X
 0.9s 107.69nm 6.3mb X
 S 53 26.50
 WIN 15.16 262 iPc 53 51.50 3.5X
 S 56 44.00
 BAO 29.42 329 iPd 56 17.00 -1.0
 0.5s 5.00nm 4.6mb
 S.D. = 1.1 on 6 of 8 obs.

? NOV 04, 1990 02h 39m 45.13±3.74s
 16.507 N ± 32.9km 61.263 W ± 14.1km
 DEPTH = 31.6 ± 13.1 km
 LEEWARD ISLANDS (92)
 ML 2.9 (FDF).

SEG 0.25 246 iPd 39 52.18 0.0
 S 39 55.60
 SFG 0.26 166 eP 39 52.13 -0.1
 S 39 55.50
 DEG 0.27 135 ePc 39 52.39 -0.1
 DOG 0.58 216 ePd 39 56.71 -0.3
 S 40 03.60
 BBL 1.00 192 ePd 40 03.26 0.3
 S.D. = 0.4 on 5 of 5 obs.

? NOV 04, 1990 04h 08m 07.53±4.75s
 34.943 N ± 39.5km 11.345 E ± 18.9km
 DEPTH = 10.0km (geophysicist)
 3.8mb (1 obs.)
 TUNISIA (397)

PTS 1.93 16 P 08 41.10 0.4
 FAI 3.00 38 P 08 57.50 1.6
 ERC 3.25 18 P 08 58.80 -0.7
 MCT 3.26 34 P 08 59.20 -0.6
 MEU 3.62 52 P 09 04.40 -0.5
 eSn 09 44.20
 GIB 3.73 35 P 09 07.20 0.7
 MNO 4.02 41 P 09 10.50 -0.2
 eSn 09 50.50
 ATN 4.61 45 P 09 20.40 1.5
 CZI 5.73 40 P 09 34.70 0.0
 TDS 6.16 39 P 09 39.00 -1.8
 MGR 6.17 32 P 09 40.00 -0.9
 RMP 6.94 8 P 09 52.30 0.6
 NB2 26.11 360 P 13 43.00 -0.1
 0.8s 1.80nm 3.8mb
 S.D. = 1.0 on 13 of 13 obs.

NOV 04, 1990 05h 02m 36.46±0.81s
 56.306 N ± 6.9km 153.521 W ± 6.9km
 DEPTH = 33.0km (normal)
 4.4mb (3 obs.)
 KODIAK ISLAND REGION (13)
 ML 4.5 (PMR).

KDC 1.55 21 iPc 03 02.30 0.3
 e 03 07.40
 SYI 2.39 14 eP 03 14.42 0.3
 CDD 2.63 359 eP 03 18.75 1.2
 MCNL 2.92 352 eP 03 22.58 0.9
 AUI 3.04 1 eP 03 24.18 0.9
 AGU 3.06 1 eP 03 24.98 1.2
 AUE 3.06 1 eP 03 24.89 1.3
 AUP 3.07 1 eP 03 24.83 1.0
 AUH 3.07 1 eP 03 24.92 1.1
 XLV 3.30 16 eP 03 27.38 0.4
 OPT 3.36 3 eP 03 28.62 0.7
 CNPM 3.45 20 eP 03 28.84 -0.4
 eS 04 07.66
 HOM 3.51 16 eP 03 30.22 0.3
 PDB 3.51 354 iP 03 30.21 0.2
 BRK 3.74 21 eP 03 32.21 -1.1
 eS 04 13.59
 INE 3.77 3 eP 03 34.19 0.3
 INW 3.78 3 eP 03 33.96 0.1

NNL 3.93 17 eP 03 35.76 -0.2
SDN 4.05 259 ePd 03 36.50 -1.2
RED 4.14 5 iP 03 39.11 0.0
RSO 4.19 5 eP 03 39.80 0.0
RS2 4.19 5 eP 03 39.90 0.1
REF 4.22 6 eP 03 39.83 -0.4
RDN 4.24 5 iP 03 40.56 0.1
NCT 4.28 4 eP 03 40.81 -0.2
RDT 4.32 7 eP 03 40.82 -0.7
SEW 4.37 28 eP 03 39.53 -2.7X

SLKM 4.56 21 eP 03 42.88 -2.0
NKA 4.61 14 eP 03 46.32 0.8
LTI 4.80 36 eP 03 44.46 -3.7X
MTU 4.83 38 eP 03 44.58 -4.1X
SVW 4.94 348 iPc 03 49.80 -0.5
CKL 4.94 7 eP 03 49.81 -0.6
SPU 4.95 8 eP 03 49.58 -0.9
BGL 5.01 6 eP 03 50.98 -0.4
CRP 5.03 8 eP 03 51.24 -0.4
KNIM 5.07 35 eP 03 49.12 -3.0X
CGLM 5.08 8 eP 03 51.61 -0.7
NCG 5.16 7 eP 03 52.94 -0.6
PMS 5.36 21 eP 03 53.83 -2.5X
SUA 5.37 14 eP 03 54.02 -2.4X
GLI 5.68 34 eP 03 57.36 -3.4X
KNK 5.76 25 eP 03 58.59 -3.2X
PMR 5.77 21 eP 03 58.90 -3.0X
TTA 6.76 350 eP 04 15.10 -0.9
TOA 6.93 30 eP 04 16.30 -2.0
FBA 9.07 16 eP 04 46.60 -1.4
IMA 9.80 360 eP 04 57.70 -0.5
SIT 10.04 78 e(P) 05 01.80 0.5
INK 15.10 29 eP 06 08.00 -0.6
YKA 20.49 56 eP 07 24.10 10.3X
0.7s 3.90nm
PNT 21.48 95 ePc 07 25.00 1.0
0.9s 12.00nm 4.3mb
MBC 23.58 20 eP 07 47.00 2.7
1.0s 13.00nm 4.4mb
SOD 56.64 360 iP 12 18.00 0.0
NBO 62.35 9 P 12 56.80 -0.7
0.9s 5.90nm 4.7mb

S.D. = 0.9 on 45 of 55 obs.

& NOV 04, 1990 05h 20m 21.00s
41.277 N 124.997 W
DEPTH = 5.0km (geophysicist)
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 2.8 (BRK).

FHC 0.90 121 iPc 20 36.70 -2.1
eS 20 47.90
WDC 1.99 110 iPd 20 53.10 -2.5
eS 21 17.30
LBFM 2.34 87 eP 21 00.50 -0.5
LTCM 2.43 115 eP 20 59.00 -3.0
MIN 2.74 109 ePd 21 03.30 -3.3
ORV 3.18 122 eP 21 09.50 -3.1
6 obs. associated

? NOV 04, 1990 05h 49m 23.62±2.76s
31.707 S ±25.2km 70.347 W ±17.9km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.99 192 iPd 49 43.80 2.4
iS 50 00.20
ROCH 1.38 204 iPd 49 47.90 0.9
iS 50 07.30
ZON 1.43 84 iPd 49 47.50 -0.1
eS 50 05.50
PEL 1.46 191 iPd 49 48.30 0.3
iS 50 08.00
FCH 1.62 178 iPd 49 50.90 0.4
iS 50 13.50
MDZ 1.73 133 iP 49 52.10 0.2
iS 50 12.70
SAN 1.76 189 iPd 49 52.00 -0.3
iS 50 15.00
PCH 1.91 184 iPd 49 54.00 -0.6
iS 50 18.20
TACH 2.00 194 iPd 49 54.70 -1.1
iS 50 20.30
LCCH 2.04 210 iPc 49 55.80 -0.5
iS 50 21.20
CHCH 2.24 187 iPd 49 57.50 -1.6

iS 50 25.70
S.D. = 1.2 on 11 of 11 obs.
NOV 04, 1990 06h 08m 54.05±0.63s
56.339 N ±5.5km 153.554 W ±7.7km
DEPTH = 33.0km (normal)
4.6mb (8 obs.) 3.8Msz (1 obs.)
KODIAK ISLAND REGION (13)
ML 4.7 (PMR).

KDC 1.53 22 iPc 09 19.50 0.2
i 09 27.30
iS 09 53.80
SYI 2.36 15 eP 09 31.84 0.5
CDD 2.60 359 eP 09 35.84 1.2
MCNL 2.89 352 eP 09 39.60 0.9
AUI 3.01 1 eP 09 41.29 0.9
AUE 3.03 2 eP 09 42.11 1.3
AGU 3.03 1 eP 09 42.10 1.2
AUP 3.03 1 eP 09 42.13 1.2
AUH 3.03 1 eP 09 42.81 1.9
XLV 3.27 17 eP 09 44.66 0.4
eS 10 24.03
OPT 3.33 3 eP 09 45.90 0.9
CNPM 3.43 20 eP 09 46.07 -0.4
eS 10 26.35
PDB 3.48 355 eP 09 47.45 0.3
HOM 3.48 16 eP 09 47.10 -0.1
BRLK 3.72 21 eP 09 49.31 -1.2
INE 3.74 4 eP 09 51.63 0.6
INW 3.75 3 eP 09 51.17 0.2
NNL 3.90 17 eP 09 52.99 -0.1
SDN 4.04 259 eP 09 53.30 -1.8
RED 4.11 5 eP 09 56.13 -0.1
RSO 4.16 5 eP 09 56.58 -0.4
RS2 4.16 5 eP 09 56.46 -0.5
REF 4.19 6 eP 09 57.11 -0.2
RDN 4.21 5 eP 09 57.62 0.0
NCT 4.25 4 eP 09 57.94 -0.2
RDT 4.29 8 eP 09 58.09 -0.6
SEW 4.35 28 eP 09 56.69 -2.9X
SLKM 4.53 21 eP 10 00.23 -1.9
NKA 4.58 14 eP 10 03.35 0.6
LTI 4.78 37 eP 10 01.66 -3.9X
SVW 4.90 348 iPc 10 07.10 -0.3
i 10 16.10
CKL 4.91 7 eP 10 05.92 -1.7
SPU 4.92 9 eP 10 07.52 -0.1
BGL 4.98 6 eP 10 08.23 -0.3
CRP 5.00 8 eP 10 08.89 0.0
CGLM 5.05 9 eP 10 08.67 -0.8
KNIM 5.05 35 eP 10 06.00 -3.5X
NCG 5.13 8 P 10 09.99 -0.7
PMS 5.34 21 eP 10 11.33 -2.2X
SUA 5.34 15 eP 10 12.55 -1.1
PWA 5.66 18 eP 10 16.74 -1.2
GLI 5.67 34 eP 10 14.43 -3.7X
KNK 5.73 25 eP 10 16.31 -2.8X
PLRM 5.74 22 eP 10 16.03 -3.1X
PMR 5.74 22 eP 10 16.60 -2.6X
SKT 5.75 10 eP 10 18.10 -1.3
GHO 5.95 22 eP 10 19.47 -2.7X
VZV 5.97 35 eP 10 17.14 -5.4X
VLZ 6.10 35 eP 10 21.10 -3.1X
SCM 6.37 28 eP 10 25.71 -2.5X
KLU 6.50 34 eP 10 26.48 -3.5X
TTA 6.73 350 eP 10 31.70 -1.4
i 10 32.80
TOA 6.91 30 eP 10 33.30 -2.3X
FBA 9.04 16 eP 11 02.00 -3.2X
IMA 9.76 360 e(P) 11 14.80 -0.5
i 11 24.10
INK 15.08 29 eP 12 28.00 2.0X
YKA 20.49 56 eP 13 30.00 -1.4
0.9s 9.00nm 4.1mb
PNT 21.50 95 eP 13 42.00 0.2
MBC 23.55 20 eP 14 04.00 2.3
1.0s 19.00nm 4.6mb
pP 14 19.50 67kmX
TNP 30.21 112 eP 15 03.80 0.1
SOD 56.61 360 iP 18 35.20 -0.1
NBO 62.32 9 P 19 13.70 -1.2
1.0s 8.60nm 4.8mb
KHC 74.35 9 eP 20 31.20 1.5
LOR 75.05 16 eP 20 34.50 0.8
1.0s 8.00nm 4.7mb
Z 20s 0.05um 3.8Msz

SSF 75.19 16 eP 20 35.50 1.0
1.0s 6.00nm 4.5mb
LBF 75.34 16 eP 20 35.20 -0.2
AVF 75.43 16 eP 20 36.80 0.9
1.0s 8.00nm 4.7mb
BGF 75.58 17 eP 20 39.40 2.7X
1.4s 30.50nm 5.1mb
SMF 75.65 16 eP 20 37.90 0.8
1.0s 8.00nm 4.7mb

S.D. = 1.0 on 52 of 69 obs.

? NOV 04, 1990 06h 55m 59.85±3.31s
13.117 S ±87.0km 173.466 W ±17.9km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)

SAMOA ISLANDS REGION (169)

AFI 1.82 116 iPd 56 29.50 0.0
eS 56 51.00
DZM 21.10 242 iPc 00 44.40 0.3
WB5 50.31 255 eP 04 56.90 1.1
WRA 50.34 255 P 04 56.00 0.0
0.5s 3.40nm 4.6mb
ASPA 50.79 250 eP 04 57.90 -1.5
0.7s 8.10nm 4.8mb
Z 23s 0.30um 4.2MszX
FBA 80.18 11 eP 08 23.60 15.6X
INK 86.08 14 ePd 08 53.50 15.4X
GKN 106.43 296 Pdiff 10 00.00 -12.4X
KHC 143.62 352 PKP 15 43.50 10.4X
ZST 143.94 348 ePKP 15 42.70 9.1X

S.D. = 1.3 on 5 of 10 obs.

& NOV 04, 1990 07h 03m 53.41s
60.027 N 153.155 W
DEPTH = 127.4km
SOUTHERN ALASKA (2)
<AGS-P>.

INW 0.04 15 iP 04 10.33 0.9
eS 04 23.34
INE 0.06 54 eP 04 10.24 0.7
RED 0.44 26 eP 04 11.32 -0.9
RS2 0.48 24 eP 04 11.85 -0.7
RSO 0.48 24 eP 04 11.86 -0.7
eS 04 26.00
REF 0.52 26 iP 04 12.02 -0.7
RDN 0.53 22 eP 04 12.07 -0.7
NCT 0.55 12 eP 04 11.71 -1.1
eS 04 26.97
PDB 0.58 246 iP 04 12.03 -0.9
eS 04 26.39
RDT 0.66 34 iP 04 12.74 -0.9
eS 04 28.32
AUE 0.68 189 eP 04 12.75 -0.8
AUP 0.68 192 eP 04 12.99 -0.8
AGU 0.68 192 eP 04 13.69 -0.1
AUI 0.71 191 eP 04 13.15 -0.7
HOM 0.85 115 eP 04 14.40 -0.6
eS 04 30.22
NNL 0.93 88 eP 04 15.70 0.0
MCNL 1.04 216 iP 04 15.71 -1.0
CNPM 1.09 117 iP 04 16.43 -0.9
eS 04 33.48
CDD 1.13 193 eP 04 16.45 -1.2
eS 04 35.70
NKA 1.19 52 eP 04 19.45 1.2
CKL 1.24 19 iP 04 18.39 -0.6
SPU 1.28 25 eP 04 18.45 -0.8
eS 04 37.60
BGL 1.30 17 iP 04 19.13 -0.4
CRP 1.34 21 eP 04 19.58 -0.5
SS 04 40.07
CGLM 1.40 23 eP 04 20.05 -0.6
NCG 1.47 19 eP 04 20.89 -0.5
SLKM 1.54 70 eP 04 20.89 -1.3
SUA 1.87 38 eP 04 25.12 -1.0
SKT 2.11 21 eP 04 28.02 -1.1
PMS 2.15 54 eP 04 28.03 -1.6
PWA 2.29 43 eP 04 29.80 -1.5
LTI 2.66 87 eP 04 34.54 -1.6
KNK 2.70 57 eP 04 34.09 -2.5
GHO 2.71 48 eP 04 34.33 -2.5
KNIM 2.73 81 eP 04 35.05 -1.9
CUT 2.76 29 eP 04 36.56 -0.9
TRF 3.70 20 eP 04 48.11 -1.9
KLU 3.84 64 eP 04 47.92 -4.0

04d 06h

38 obs. associated
 NOV 04, 1990 07h 13m 21.62±0.50s
 44.126 N ± 4.7km 11.568 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 MD 3.1 (TRI).

PGD	0.27	156	P	13	27.30	-0.2
			eSg	13	30.10	
SFI	0.29	135	Pc	13	27.70	0.0
			eSg	13	31.20	
CRE	0.57	151	P	13	32.90	-0.3
			eSg	13	41.80	
MME	0.63	277	P	13	33.60	-0.8
			eSg	13	44.40	
BDI	0.70	265	P	13	35.90	0.4
			eSg	13	46.50	
PII	0.86	242	P	13	38.00	-0.1
			eSg	13	49.70	
ARV	1.18	122	P	13	44.00	0.4
			eSg	13	59.50	
ASS	1.32	143	P	13	46.70	0.7
			eSg	14	04.00	
CTI	1.92	2	P	13	56.60	1.8
TRI	2.22	44	e(Pn)	13	58.10	-0.9
			i(Sn)	14	23.50	
			i	14	36.10	
VOY	2.52	40	e(Pn)	14	02.00	-1.3
			eSn	14	35.80	
FVI	2.61	19	P	14	04.90	0.4

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

NOV 04, 1990 07h 31m 15.82±0.44s
 44.106 N ± 4.5km 11.565 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

PGD	0.26	154	Pc	31	21.30	0.0
			eSg	31	24.10	
SFI	0.28	132	Pc	31	21.70	0.1
			eSg	31	27.30	
CRE	0.55	150	P	31	26.70	-0.4
			eSg	31	34.70	
MME	0.63	278	P	31	28.70	0.1
			eSg	31	39.00	
BDI	0.70	267	P	31	28.60	-1.1
			eSg	31	40.70	
PII	0.85	243	P	31	31.70	-0.4
			eSg	31	42.90	
ARV	1.17	121	P	31	38.30	0.7
			eSg	31	53.50	
ASS	1.31	142	P	31	40.90	0.9
			eSg	31	55.10	
SOB	1.65	294	P	31	45.40	0.3
CTI	1.94	2	P	31	50.60	1.3
			eSn	32	14.00	
MDI	2.13	322	P	31	53.00	1.2
TRI	2.24	44	e(Pn)	31	52.00	-1.5
			i(Sn)	32	19.40	
			i(SgSg)	32	30.20	
VOY	2.54	40	e(Pn)	31	56.80	-1.0
			eSn	32	39.90	
FVI	2.63	19	P	31	58.80	-0.2
VBY	2.98	61	eP	32	57.00	53.1X

S.D. = 0.9 on 14 of 15 obs.

NOV 04, 1990 08h 07m 49.62±3.06s
 40.829 N ± 23.3km 30.089 E ± 21.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

EYL	0.27	169	iPg	07	54.90	-0.4
HRT	0.32	269	ePg	07	52.10	-4.2X
GBZT	0.49	266	iPg	08	00.10	0.5
			iSg	08	06.50	
GPA	0.57	163	iPg	08	00.30	-0.8
			eSg	08	06.80	
ISK	0.82	287	ePg	08	05.60	0.2
CTT	1.30	285	iPn	08	14.00	0.4
KCT	1.44	247	iPn	08	15.60	-0.2
BNT	1.72	255	iPn	08	19.60	-0.1
EDC	1.76	255	iPn	08	21.00	0.6
ALT	1.77	179	iPn	08	22.50	1.9
KGT	2.15	261	ePn	08	24.00	-2.0
KHL	2.54	190	ePn	08	37.00	5.4X

S.D. = 1.2 on 10 of 12 obs.
 NOV 04, 1990 08h 09m 23.82±1.14s
 40.311 N ± 9.1km 20.340 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 2.9 (ATH). ML 2.4 (THE).

LSK	0.26	129	ePn	09	30.40	1.1
KBN	0.48	49	ePg	09	32.50	-1.0
SRN	0.50	211	iPg	09	34.70	0.7
KEK	0.73	215	ePn	09	38.00	-0.1
			eSn	09	47.10	
IGT	0.78	180	ePd	09	36.32	-2.7X
			eS	09	45.08	
OHR	0.87	23	ePg	09	46.20	5.6X
			iSg	10	02.00	
FNA	0.92	59	ePd	09	44.28	2.8X
			eS	09	58.12	
KZN	1.09	90	ePn	09	44.60	0.2
TIR	1.09	341	ePn	09	53.20	8.8X
LIT	1.66	97	ePc	09	53.28	0.2
			eS	10	13.28	
GRG	1.70	67	iPc	09	55.12	1.5
			eS	10	18.08	
EVR	1.80	140	ePn	09	54.20	-1.0
AGG	2.00	129	ePc	09	57.08	-1.0
			iS	10	18.08	
KNT	2.12	66	eP	10	03.64	3.8X
VLS	2.14	175	ePn	09	59.50	-0.6
			eSn	10	24.00	

S.D. = 1.0 on 10 of 15 obs.

NOV 04, 1990 09h 29m 15.42±0.49s
 38.106 N ± 4.7km 22.128 E ± 4.3km
 DEPTH = 11.4 ± 2.8 km
 4.0mb (6 obs.)
 GREECE (364)
 ML 3.6 (THE). 3.5 (ATH).

EVR	0.85	343	iPg	29	30.50	-1.2
AGG	0.93	10	ePd	29	32.40	-0.6
			eS	29	44.24	
ITM	0.94	190	iPbc	29	32.20	-1.0
VLS	1.22	274	iPg	29	35.50	-2.4
ATH	1.26	96	iPg	29	41.00	2.3
			eSb	29	59.20	
VLI	1.53	155	ePb	29	42.70	0.1
IGT	2.00	316	ePc	29	50.64	1.2
LIT	2.01	8	iPc	29	49.14	-0.5
			eS	30	14.12	
PAIG	2.18	33	ePd	29	51.68	-0.4
			eS	30	18.34	
KZN	2.22	353	ePn	29	53.00	0.4
LSK	2.36	330	ePn	29	57.10	2.4
KEK	2.42	312	iPbc	29	55.60	0.1
SRN	2.43	318	ePn	29	56.20	0.7
PLG	2.49	24	ePn	29	55.20	-1.2
THE	2.61	14	ePc	29	57.04	-1.0
			eS	30	28.84	
OUR	2.65	32	ePd	29	58.16	-0.6
KBN	2.71	338	ePn	29	50.00	-9.6X
FNA	2.74	348	ePc	30	00.62	0.5
			eS	30	34.80	
GRG	2.86	4	ePc	29	59.72	-2.0
			eS	30	35.08	
SOH	2.87	19	iPd	30	01.98	0.0
APE	2.89	110	ePn	30	03.00	0.7
KNT	3.11	11	ePc	30	04.96	-0.3
			eS	30	42.56	
VAM	3.17	148	ePn	30	05.10	-1.0
OHR	3.17	342	iPn	30	08.00	1.8
	0.9s	285.00nm	iSn	30	47.10	
			Lg	31	04.30	
SRS	3.21	20	ePc	30	06.17	-0.6
			eS	30	44.08	
VAY	3.23	6	ePn	30	08.00	1.1
TIR	3.68	332	ePn	29	22.50	-50.8X
MMB	3.69	19	iPd	30	13.00	-0.6
SMG	3.75	95	ePn	30	13.40	-0.9
KKB	3.83	11	iP	30	15.00	-0.5
SKO	3.90	352	iPn	30	17.70	1.3
	0.6s	91.00nm	i	30	26.70	
			i	31	07.00	
			iSg	31	14.00	

LCI	3.93	306	P	31	29.50	
			eSn	31	00.00	
NPS	3.99	134	ePn	30	19.00	1.3
RZN	4.09	28	iPc	30	19.00	-0.4
KDZ	4.35	35	iP	30	21.00	-1.9
SDA	4.40	334	ePn	29	31.00	-52.5X
VTS	4.56	10	ePg	30	27.00	1.1
TDS	4.78	291	P	30	28.60	-0.4
CZI	4.82	285	P	30	28.30	-1.3
ORI	4.83	296	Pc	30	28.60	-1.2
ATN	5.26	273	P	30	36.30	0.6
MGR	5.50	294	P	30	38.50	-0.7
SGO	5.83	297	P	30	41.60	-2.1
SDI	7.33	302	P	31	04.00	-1.0
BZS	7.51	357	eP	31	06.50	-0.9
SMF	15.95	308	eP	33	03.90	2.6
	0.8s	5.35nm			3.7mb	
LBF	16.02	309	eP	33	05.00	2.8X
LOR	16.22	310	eP	33	07.40	2.7
	1.3s	18.05nm			4.0mb	
AVF	16.32	308	eP	33	08.60	2.7
	1.2s	14.90nm			4.0mb	
SSF	16.34	309	iPc	33	08.80	2.6
	1.0s	32.00nm			4.4mb	
NBO	24.03	346	P	34	29.40	-1.5
	1.0s	3.40nm			3.9mb	
EKA	24.23	324	P	34	33.00	0.2
	0.9s	7.80nm			4.3mb	

S.D. = 1.4 on 48 of 52 obs.

NOV 04, 1990 10h 26m 35.49±0.68s
 38.078 N ± 5.4km 22.233 E ± 11.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.3 (THE). 3.1 (ATH).

EVR	0.90	338	iPnc	26	51.00	-1.8
			eSn	27	04.00	
ITM	0.93	195	iPnc	26	52.00	-1.2
AGG	0.95	5	ePd	26	52.98	-0.6
			eS	27	04.94	
ATH	1.18	95	iPnc	27	01.60	4.2X
			eSn	27	21.20	
VLS	1.30	275	iPbc	26	55.00	-4.6X
VLI	1.47	157	ePn	27	03.00	1.0
LIT	2.03	6	ePc	27	09.58	-0.6
			eS	27	36.84	
IGT	2.08	315	ePd	27	11.98	1.2
			eS	27	37.98	
PAIG	2.16					

E 12s 0.40um 25.06 302 eP 18 45.20 6.4X						4.7mb (10 obs.) 4.1MsZ (2 obs.)						i 02 19.50					
HHC Z 18s 1.00um 4.4MsZ						SOUTH OF HONSHU, JAPAN (211)						SAN 6.49 211 eP 01 13.50 -1.4					
N 15s 0.40um						IIDJ 5.70 341 P 43 20.30 2.0						e 02 10.00					
E 15s 0.60um						CHJJ 6.02 351 P 43 22.40 -0.5						PCH 6.57 209 iPd 01 15.60 -0.4					
BTO 26.14 300 eP 18 49.50 0.7						MAT 6.64 346 (P) 43 31.00 -0.5						TACH 6.78 212 eP 01 16.50 -2.3					
N 15s 0.50um						eS 44 48.00						i 02 32.00					
E 15s 0.60um						MTMJ 6.77 344 P 43 32.80 -0.7						CHCH 6.89 209 iPd 01 19.20 -1.1					
XAN 26.37 285 P 18 49.10 -1.8						GUMO 16.99 164 eP 45 43.20 -7.3X						i 02 35.00					
GYA 29.48 270 P 19 16.60 -2.6						e 45 52.00						SIV 12.96 25 P 02 38.60 -1.0					
LZH 30.50 290 eP 19 34.00 5.9X						SNY 17.79 316 Pc 46 02.00 1.7						PPD 15.11 71 eP 03 08.20 1.6					
1.5s 23.00nm 4.7mb						NJ2 18.37 282 Pd 46 11.20 3.6X						VAO 18.46 79 eP 03 45.00 -0.8					
Z 22s 0.30um 3.9MsZ						Z 16s 0.20um						i 03 47.20					
eS 24 29.00						pP 46 19.00						e 03 51.50					
CHTO 38.89 262 eP 20 39.10 -0.6						TIA 20.23 294 eP 46 26.00 -2.7						e 03 55.20					
0.9s 4.69nm 4.3mb						BJI 21.96 303 P 46 46.00 -0.2						BMA 21.01 81 eP 04 11.60 -0.1					
GUN 46.86 281 P 21 44.00 -0.6						1.5s 31.00nm 4.5mb						e 04 21.10					
PKI 47.36 281 P 21 47.60 -0.9						Z 18s 0.59um 4.0MsZ						BAO 21.19 59 ePd 04 13.70 0.1					
KKN 47.40 281 P 21 49.20 0.5						eS 50 44.00						JFO 22.06 79 eP 04 23.30 1.3					
GKN 47.88 281 P 21 54.20 1.8						TIY 24.19 296 Pd 47 08.60 0.4						PDCR 29.95 65 eP 05 32.70 -1.9					
WB5 50.60 187 eP 22 05.30 -7.6X						Z 18s 0.60um 4.1MsZ						SOB1 30.61 58 eP 05 38.20 -2.2					
SVW 51.31 34 eP 22 18.30 0.3						E 14s 0.60um						SPA 62.24 180 iPd 09 47.50 1.7					
TTA 51.34 32 eP 22 18.10 -0.1						BTO 26.63 301 eP 47 30.00 -1.1						1.0s 24.00nm 5.0mb					
KDC 52.73 39 e(P) 22 28.10 -0.4						N 15s 0.40um						KIC 68.75 70 P 10 26.80 -1.0					
IMA 52.77 28 eP 22 28.30 -0.6						E 15s 0.60um						LKO 69.81 67 P 10 32.74 -1.6					
1.3s 6.70nm 4.5mb						epP 47 38.00 28kmX						0.8s 7.00nm 4.5mb					
NDI 53.90 285 eP 22 39.00 1.5						XAN 26.73 287 P 47 31.00 -1.1						ANMO 72.96 327 eP 10 54.00 1.1					
PMR 54.46 34 eP 22 39.70 -1.5						LZH 30.90 291 eP 48 12.50 2.8						0.9s 1.47nm 3.7mb					
0.9s 24.90nm 5.2mb						Z 2.0s 32.00nm 4.8mb						LRM 84.34 330 eP 11 56.20 2.0					
FBA 55.12 30 eP 22 46.30 0.4						Z 25s 0.36um 3.9MsZ						BUL 85.25 110 ePd 12 00.50 1.2					
GBA 59.66 268 P 23 24.00 5.5X						CHG 38.99 263 eP 49 20.30 1.4						WB5 128.30 206 ePKP 18 29.70 1.3					
1.0s 11.40nm 4.9mb						CHTO 38.99 263 eP 49 19.20 0.3						HYB 146.36 101 ePKPd 19 04.50 3.0X					
INK 60.56 25 eP 23 23.00 -0.9						1.0s 8.25nm 4.4mb						e 19 48.00					
MBC 62.90 15 ePc 23 39.50 0.0						WMO 43.43 303 eP 49 51.00 -4.2X						GKN 154.69 83 PKP 19 31.20 17.5X					
1.0s 7.00nm 4.6mb						WB5 50.00 187 eP 50 44.70 -2.2						DMN 155.05 84 PKP 19 32.60 18.2X					
SOD 70.32 338 eP 24 35.00 8.6X						TTA 51.78 32 ePc 51 00.00 -0.2						KKN 155.23 84 PKP 19 32.60 18.0X					
DAG 71.94 355 iPd 24 35.80 -0.2						0.8s 6.90nm 4.7mb						PKI 155.31 84 PKP 19 32.80 18.0X					
1.0s 9.00nm 4.5mb						KDC 53.11 38 e(P) 51 09.10 -0.9						GUN 155.77 84 PKP 19 34.20 18.7X					
SUF 73.08 334 eP 24 42.20 -0.7						IMA 53.24 28 eP 51 10.30 -0.7						S.D. = 1.4 on 31 of 37 obs.					
0.9s 13.30nm 4.8mb						1.3s 12.97nm 4.7mb						NOV 04, 1990 13h 02m 58.40±0.57s					
NUR 74.95 332 eP 24 53.20 -0.5						PMR 54.88 33 iPc 51 21.50 -1.5						40.704 N ± 4.5km 23.202 E ± 5.0km					
WDC 75.88 51 eP 25 00.20 0.8						1.1s 23.44nm 5.1mb						DEPTH = 10.0km (geophysicist)					
LBFM 75.95 50 iPc 25 00.20 0.1						FBA 55.58 29 eP 51 27.40 -0.6						GREECE (364)					
MIN 76.62 51 eP 25 04.00 0.3						0.8s 8.62nm 4.8mb						ML 1.9 (THE).					
ORV 77.08 52 eP 25 06.00 -0.1						INK 61.06 25 eP 52 05.00 -1.2						SOH 0.16 44 ePc 03 02.48 0.3					
BRK 77.37 53 eP 25 08.20 0.5						MBC 63.47 15 eP 52 21.00 -1.2						eS 03 04.76					
BKS 77.39 53 e(P) 25 07.70 -0.1						PNT 73.93 42 eP 53 28.00 0.7						THE 0.19 248 ePd 03 02.96 0.3					
SES 77.80 38 ePc 25 09.70 -0.2						SES 78.18 38 ePc 53 51.50 0.2						eS 03 05.76					
CMB 78.58 53 eP 25 14.50 0.1						CMB 78.82 53 ePc 53 55.40 0.3						SRS 0.51 35 ePd 03 08.84 0.1					
PRS 78.75 54 eP 25 16.00 0.7						LRM 79.88 43 eP 54 01.30 0.4						eS 03 15.40					
NB2 79.52 337 P 25 18.40 -0.6						NB2 80.18 337 P 54 00.10 -1.8						KNT 0.51 333 iPc 03 08.46 -0.3					
1.0s 9.80nm 4.6mb						1.0s 10.30nm 4.8mb						eS 03 15.76					
LRM 79.54 43 eP 25 20.10 0.4						TNP 80.95 51 eP 54 07.60 0.9						GRG 0.66 293 ePc 03 11.68 0.1					
FRI 79.57 53 eP 25 19.80 0.1						1.4s 14.38nm 4.8mb						VAY 0.78 322 ePn 03 13.30 -0.3					
FFC 79.68 31 iPc 25 20.30 0.4						ABL 81.22 55 e(P) 54 09.30 1.1						LIT 0.81 222 ePc 03 14.24 0.1					
0.8s 13.00nm 4.8mb						DAU 83.60 47 e(P) 54 21.50 1.0						PAIG 0.86 155 ePc 03 26.28					
TNP 80.70 51 iPc 25 26.20 0.2						GOL 87.67 45 e(P) 54 41.90 1.3						S.D. = 0.3 on 8 of 8 obs.					
1.3s 11.90nm 4.6mb						ALO 89.88 49 eP 54 51.80 0.7						? NOV 04, 1990 13h 34m 31.75±4.00s					
ABL 81.01 55 e(P) 25 27.80 0.2						1.0s 2.50nm 4.4mb						40.264 N ±23.3km 29.534 E ±22.5km					
DUG 82.44 48 eP 25 35.50 0.6						ZOBO 150.66 68 PKP 01 41.00 1.5						DEPTH = 10.0km (geophysicist)					
DAU 83.30 47 e(P) 25 39.80 0.2						e 02 24.00						TURKEY (366)					
ALO 89.60 49 eP 26 10.00 -0.3						LPB 150.83 69 ePKP 01 40.00 0.4						MD 1.9 (ISK).					
1.0s 2.50nm 4.3mb						CNCB 151.07 69 PKP 01 34.00 -6.1X						IZI 0.09 327 iPg 34 33.00 -1.4					
ZOBO 150.60 67 PKP 33 05.00 5.6X						e 02 17.00						YLV 0.33 338 iPg 34 39.00 0.5					
LPB 150.77 68 PKP 33 04.00 4.5X						S.D. = 1.3 on 33 of 37 obs.						HRT 0.57 10 eP 34 43.50 0.2					
CNCB 151.01 68 PKP 33 06.00 6.0X						NOV 04, 1990 12h 59m 40.65±0.62s						KCT 0.90 269 iPn 34 49.50 0.5					
S.D. = 0.9 on 49 of 57 obs.						27.924 S ± 8.6km 66.680 W ± 9.1km						CTT 1.22 317 ePn 34 54.50 0.1					
% NOV 04, 1990 12h 36m 05.47±0.87s						DEPTH = 174.3 ± 8.7 km						S.D. = 1.1 on 5 of 5 obs.					
39.169 N ± 6.3km 27.288 E ± 12.1km						4.5mb (3 obs.)						% NOV 04, 1990 14h 54m 28.31±0.53s					
DEPTH = 10.0km (geophysicist)						CATAMARCA PROVINCE, ARGENTINA (130)						40.538 N ± 7.0km 15.523 E ± 6.7km					
TURKEY (366)						CYA 0.94 124 iPd 00 09.00 1.4						DEPTH = 18.3 ± 7.3 km					
MD 2.7 (ISK).						RTRS 3.31 227 iPc 00 34.80 1.5						SOUTHERN ITALY (390)					
IZM 0.77 181 iPg 36 20.50 0.0						RTLL 3.73 204 ePd 00 38.90 0.1						SGO 0.17 272 Pc 54 32.90 0.1					
EZN 0.99 312 iPg 36 24.00 -0.3						RTCB 4.00 207 iPc 00 42.60 0.3						eSg 54 38.50					
iSg 36 37.50						ZON 4.01 205 eP 00 42.50 0.2						MGR 0.40 177 Pc 54 36.10 -0.5					
EDC 1.26 20 iPn 36 29.00 0.2						eS 01 29.50						eSg 54 44.70					
KGT 1.28 1 ePn 36 29.00 -0.2						RTBS 4.44 212 iPc 00 48.00 0.2						ORI 0.85 123 P 54 43.60 -0.7					
BNT 1.28 22 iPn 36 28.50 -0.7						MDZ 5.29 200 iP 01 01.40 2.4						eSg 54 56.40					
MFT 1.62 360 ePn 36 35.00 0.8						ANT 5.38 320 eP 01 00.20 0.0						CSI 0.96 142 P 54 46.50 0.3					
S.D. = 0.7 on 6 of 6 obs.						JACH 5.82 215 iPd 01 06.20 0.0						TDS 1.08 144 P 54 48.50 0.4					
% NOV 04, 1990 12h 41m 53.72±0.55s						FCH 6.22 209 iPd 01 12.00 0.4											
30.094 N ± 9.4km 140.183 E ± 7.8km						PEL 6.24 213 iPd 01 10.50 -1.2											
DEPTH = 33.0km (normal)						iS 02 19.50											
						ROCH 6.27 216 iPd 01 10.50 -1.6											

04d 14h

BAI 1.17 60 P eSg 55 03.40
54 44.00 -5.7X
eSg 54 58.00
ROI 1.26 140 P 54 51.30 0.4
DUI 1.38 325 P 54 52.50 -0.2
CZI 1.40 160 P 54 52.90 0.0
SDI 1.74 313 P 54 58.20 0.3
LCI 1.87 95 P 54 59.80 0.1

S.D. = 0.5 on 10 of 11 obs.

? NOV 04, 1990 15h 20m 52.10 ± 4.45s
16.760 N ± 43.3km 99.531 W ± 12.5km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF GUERRERO, MEXICO (58)
Felt at Acapulco.

ACX 0.33 289 iP 20 58.98 0.0
iS 21 02.73
III 1.61 2 iP 21 20.91 0.1
(S) 21 38.93
PPM 2.45 20 iP 21 32.71 -0.5
(S) 22 01.97
IIT 2.53 27 iP 21 34.67 0.5
iS 22 10.06
UNM 2.58 7 (P) 21 39.70 4.8X
(S) 22 10.50
CRX 2.64 357 (P) 21 41.00 5.3X
(S) 22 16.00
IISM 3.02 42 iP 21 40.73 -0.1
(S) 22 27.65
MRX 3.33 332 iP 21 50.83 5.6X
(S) 22 34.32
LVVM 4.17 44 (P) 22 02.26 5.2X
S.D. = 0.5 on 5 of 9 obs.

? NOV 04, 1990 15h 41m 38.39 ± 2.47s
7.088 S ± 24.2km 106.815 E ± 22.0km
DEPTH = 87.6 ± 25.2 km
4.2mb (2 obs.)

JAVA (277)

TRT 5.80 96 ePd 43 05.30 1.6
PPI 9.18 316 eP 43 49.80 -0.3
NANU 17.53 152 eP 45 02.60 -36.0X
eS 48 28.00
MBL 18.82 139 eP 45 51.60 -2.5
eS 48 05.00
CHTO 26.88 343 eP 47 11.90 -1.1
1.0s 1.25nm 3.4mb
GBA 35.69 305 P 48 30.00 -0.3
HYB 37.05 311 eP 48 42.00 0.2
PKI 40.20 330 P 49 09.40 1.1
GUN 40.25 331 P 49 07.20 -1.5
GKN 40.94 329 P 49 12.60 -1.6
MBH 78.05 302 eP 53 30.00 0.6
PRNI 78.11 303 eP 53 31.00 1.3
MML 78.33 305 eP 53 32.00 1.1
BCAO 88.84 275 iPd 54 26.00 1.3
0.5s 5.00nm 4.9mb
S.D. = 1.5 on 13 of 14 obs.

NOV 04, 1990 15h 43m 07.10 ± 0.79s
14.654 S ± 4.5km 167.218 E ± 5.0km
DEPTH = 148.5 ± 6.9 km
4.9mb (17 obs.)

VANUATU ISLANDS (186)

PVC 3.24 161 iPc 43 58.50 0.4
iS 44 39.00
DZM 7.41 186 iPc 44 51.90 -2.0
iS 46 20.00
HNR 8.80 305 eP 45 11.00 -1.4
eS 46 48.00
SVO 9.08 306 eP 45 17.00 1.0
eS 46 55.00
BRS 18.48 224 iPc 47 15.50 1.1
PMG 20.30 283 eP 47 34.00 0.8
CTA 20.72 252 iPd 47 38.80 1.4
0.9s 14.29nm 4.4mb
RMO 20.88 233 iPc 47 38.90 -0.2
i 47 40.90
COO 21.20 219 iPd 47 43.60 1.4
0.9s 39.00nm 4.8mb
WLZ 24.26 164 eP 48 12.70 1.0
NOZ 25.71 160 eP 48 25.70 0.5
CMS 25.76 226 iPc 48 26.40 0.6

BWA 0.6s 46.00nm 5.3mb
25.99 217 eP 48 26.60 -1.2
e 48 52.70
eScP 55 23.00
CAN 26.30 215 eP 48 31.00 0.4
e 48 57.80
OIS 26.94 253 eP 48 18.40 -18.2X
TOO 29.88 216 eP 49 03.00 0.2
WB5 31.76 256 e(P) 49 17.80 -1.6
ADE 32.65 227 e(P) 49 22.00 -5.0X
FORR 39.28 239 eP 50 23.00 0.1
0.5s 20.00nm 5.1mb
WARB 39.56 247 eP 50 26.00 0.6
0.5s 5.00nm 4.5mb
KLB 48.09 241 eP 51 32.70 -1.0
NWA0 48.74 239 eP 51 38.00 -0.7
MUN 49.46 240 eP 51 43.00 -1.2
MAT 57.81 333 iPd 52 43.50 -1.7
SBA 63.21 180 iPc 53 22.10 1.0
SSE 63.43 316 eP 53 23.50 0.3
NJ2 65.59 316 Pc 53 37.00 -0.1
WHN 67.85 312 Pc 53 51.70 0.2
MDJ 68.19 332 eP 53 53.00 -0.3
CN2 69.56 329 P 54 01.20 -0.4
GYA 71.63 305 P 54 14.80 0.1
TIY 73.17 317 Pd 54 23.90 0.5
XAN 73.60 313 P 54 26.10 0.1
KMI 74.22 302 Pd 54 31.00 1.0
2.0s 55.00nm 4.9mb
CHG 75.00 294 eP 54 35.50 1.2
CHTO 75.00 294 eP 54 34.70 0.4
0.7s 8.74nm 4.6mb
SPA 75.44 180 iPc 54 35.70 -0.5
0.9s 11.82nm 4.6mb
HHC 75.50 320 eP 54 37.00 0.2
CD2 75.92 308 P 54 39.80 0.5
LZH 78.23 312 eP 54 53.00 0.9
1.5s 30.00nm 4.8mb
SVW 81.09 17 eP 55 08.60 1.9
GTA 82.58 314 Pd 55 16.00 1.0
1.2s 1010.00nm 6.5mb X
PMR 83.45 19 eP 55 17.80 -0.9
1.1s 21.30nm 4.9mb
BKS 84.18 49 e(P) 55 23.30 0.4
PRS 84.21 50 eP 55 23.80 0.7
MHC 84.40 49 eP 55 24.70 0.5
PRI 84.67 51 eP 55 26.50 0.9
WDC 85.05 46 eP 55 27.60 0.4
ORV 85.37 47 eP 55 29.00 0.1
CMB 85.59 49 eP 55 30.00 -0.1
IMA 85.59 15 eP 55 29.20 -0.4
1.1s 9.80nm 4.6mb
MIN 85.61 47 eP 55 29.90 -0.3
FRI 85.70 50 eP 55 30.70 0.2
FBA 86.30 18 eP 55 31.80 -1.1
GUN 89.32 299 PKP 55 48.80 0.2
0.6s 14.00nm 5.2mb
PKI 89.62 299 PKP 55 50.20 0.3
0.6s 11.00nm 5.1mb
KKN 89.79 299 PKP 55 50.60 0.0
0.6s 14.00nm 5.2mb
DMN 89.89 298 PKP 55 51.60 0.5
0.6s 14.00nm 5.2mb
PNT 90.38 39 eP 55 53.00 0.4
0.8s 6.00nm 4.7mb
GKN 90.40 299 PKP 55 53.00 -0.3
0.6s 14.00nm 5.2mb
KEV 119.64 345 iPKP 01 39.00 -1.1
SUF 124.75 339 ePKP 01 49.70 -0.4
0.6s 10.70nm
NUR 126.78 338 iPKP 01 54.40 0.3
0.7s 20.00nm
NB2 130.54 345 PKP 02 01.70 0.3
0.8s 4.20nm
BRG 137.92 335 iPKP 02 18.40 2.8X
CLL 137.96 336 iPKP 02 18.40 2.7X
0.9s 13.00nm
PRU 138.34 334 ePKP 02 19.00 2.6X
KHC 139.39 333 ePKP 02 18.90 0.5
CDF 142.49 338 ePKP 02 20.10 -3.9X
0.8s 8.05nm
SLE 142.56 336 ePKPc 02 21.80 -2.3X
CTI 142.57 332 PKP 02 22.50 -1.7
LLS 143.09 335 ePKPc 02 22.60 -2.6X
BSF 143.15 338 ePKP 02 21.70 -3.5X
0.8s 9.40nm

HAU 143.16 338 ePKP 02 22.40 -2.7X
0.8s 10.75nm
VDL 143.20 334 ePKPc 02 23.30 -2.1X
SAL 143.42 332 PKP 02 24.00 -1.5
MDI 143.65 333 PKP 02 26.00 0.1
TMA 143.75 334 ePKPc 02 24.70 -1.6
ARV 143.80 328 PKP 02 25.50 -0.8
VAI 143.98 334 PKP 02 25.50 -0.9
ORI 144.04 320 PKP 02 26.00 -0.8
SFI 144.05 329 PKP 02 26.50 -0.1
PGD 144.15 329 PKP 02 27.00 -0.1
CRE 144.21 329 PKP 02 26.20 -0.9
ASS 144.25 327 PKP 02 25.90 -1.2
ROI 144.25 320 PKP 02 27.90 0.7
CSI 144.30 320 PKP 02 27.00 -0.3
TDS 144.34 320 PKP 02 26.90 -0.4
DIX 144.37 336 ePKPc 02 27.40 -0.1
MME 144.41 330 PKP 02 27.50 -0.1
MMN 144.42 320 PKP 02 26.40 -1.0
ORX 144.50 335 PKP 02 26.28 -1.3
FLN 144.51 346 ePKP 02 26.50 -0.8
0.8s 34.90nm
MGR 144.54 321 PKP 02 26.50 -1.1
BOB 144.55 332 PKP 02 26.70 -0.9
SDI 144.55 325 PKP 02 26.80 -0.9
BDI 144.56 330 PKP 02 26.20 -1.4
AZI 144.58 325 PKP 02 27.00 -0.6
LOR 144.65 340 iPKPd 02 27.10 -0.5
1.0s 48.00nm
CZI 144.73 319 PKP 02 27.30 -0.6
PII 144.85 330 PKP 02 27.00 -1.0
LBF 144.86 340 ePKP 02 28.20 0.2
1.0s 66.00nm
SSF 144.95 340 iPKPd 02 28.50 0.4
GRR 144.95 346 iPKPd 02 28.20 0.2
LSD 144.98 335 PKP 02 29.25 0.7
RMP 145.10 326 PKP 02 29.00 0.5
LPG 145.11 336 iPKPd 02 29.50 0.7
0.8s 73.45nm
PCP 145.13 333 PKP 02 28.23 -0.3
RSP 145.19 335 PKP 02 28.33 -0.4
SMF 145.20 340 ePKP 02 28.50 -0.1
AVF 145.24 340 ePKP 02 28.80 0.2
LPF 145.33 346 iPKPd 02 29.50 0.8
CKI 145.34 333 PKP 02 28.90 0.1
BNI 145.51 335 PKP 02 30.50 1.2
FIN 145.54 333 PKP 02 28.74 -0.5
RRL 145.57 335 PKP 02 30.58 1.0
BGF 145.60 341 iPKPd 02 30.40 1.2
ROB 145.62 333 PKP 02 29.66 0.2
PZZ 145.78 334 PKP 02 29.76 0.0
ENR 145.87 334 PKP 02 29.46 -0.4
STV 145.90 334 PKP 02 29.05 -0.9
IMI 145.92 333 PKP 02 30.17 0.2
MAF 145.99 341 iPKPd 02 31.80 1.9
0.8s 33.60nm
TCF 146.04 341 iPKPc 02 32.00 2.0
0.9s 50.80nm
SBF 146.16 333 iPKPd 02 31.50 1.2
0.9s 121.20nm
LSF 146.29 342 iPKPd 02 32.50 2.1X
MNO 146.40 319 PKP 02 33.50 2.4X
MFF 146.44 344 iPKPd 02 33.00 2.4X
1.0s 116.00nm
PGF 146.46 330 iPKPd 02 32.80 1.9
1.1s 117.20nm
FRF 146.74 334 iPKPd 02 33.40 2.2X
1.0s 104.00nm
LRG 146.95 334 iPKPd 02 34.10 2.6X
1.0s 86.00nm
LMR 146.98 334 iPKPd 02 34.20 2.7X
1.0s 92.00nm
CDR 147.01 335 iPKPc 02 34.50 2.9X
RJF 147.14 341 iPKPd 02 35.10 3.3X
0.8s 47.00nm
CAF 147.30 340 iPKPd 02 36.00 3.9X
1.0s 72.00nm
BCAO 147.54 255 iPKPd 02 37.30 4.0X
0.5s 13.00nm
id 03 10.00
LFF 147.71 342 iPKPd 02 36.80 4.1X
0.9s 98.30nm
LPO 147.80 341 iPKPd 02 37.00 4.2X
0.9s 85.15nm
EPF 149.56 341 ePKP 02 41.50 5.8X
1.0s 32.00nm
ECRI 150.77 344 ePKP 02 45.00 7.5X

ETOR 152.30 342 ePKP 02 48.00 8.1X
 GUD 153.03 345 ePKP 02 50.00 9.0X
 TOL 153.73 345 ePKP 02 51.00 9.2X
 S.D. = 0.9 on 115 of 143 obs.

% NOV 04, 1990 16h 58m 14.00±1.16s
 1.089 S ± 5.9km 78.296 W ± 18.9km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

TUNG 0.36 205 iP 58 21.50 0.0
 S 58 27.40
 VC1 0.46 347 iP+ 58 23.60 0.1
 S 58 28.00
 QUR 0.94 346 eP 58 32.10 -0.1
 S 58 43.60
 GGP 0.96 342 iPd 58 32.70 0.1
 S 58 45.00
 YANA 1.01 344 iP+ 58 33.10 -0.3
 S 58 46.80
 ANGL 1.02 47 eP 58 47.60 14.0X
 CAYA 1.20 15 P 58 36.60 -0.2
 COTA 1.41 358 P 58 40.60 0.3
 S.D. = 0.3 on 7 of 8 obs.

* NOV 04, 1990 17h 57m 32.88±2.23s
 19.755 N ± 17.5km 145.316 E ± 8.0km
 DEPTH = 171.3 ± 24.5 km
 4.6mb (6 obs.)
 MARIANA ISLANDS (216)

PJG 6.15 184 ePc 59 03.20 0.6
 GUMO 6.15 184 eP 59 02.30 -0.3
 GUA 6.19 184 ePc 59 02.70 -0.5
 0.5s 112.68nm 5.4mb
 eS 00 11.70
 WB5 40.82 196 eP 04 58.00 -1.2
 CHTO 43.67 277 eP 05 23.10 0.5
 0.6s 0.56nm 3.3mb X
 SNG 45.09 260 eP 05 36.10 2.3
 e 31 53.60
 e 33 38.10
 GUN 54.53 291 P 06 47.20 1.3
 PKI 54.98 290 P 06 48.80 -0.3
 KKN 55.07 291 P 06 49.40 -0.2
 DMN 55.24 290 P 06 50.20 -0.7
 GKN 55.61 291 P 06 52.80 -0.7
 MBC 72.22 14 eP 08 40.50 0.0
 0.5s 3.00nm 4.3mb
 YKA 77.23 28 eP 09 08.60 -0.5
 0.6s 6.30nm 4.5mb
 WDC 79.00 51 eP 09 19.50 0.2
 MIN 79.75 51 eP 09 23.00 -0.5
 ORV 80.06 52 eP 09 24.90 -0.1
 PRS 81.13 55 eP 09 31.40 0.8
 CMB 81.35 53 eP 09 32.20 0.4
 LLA 81.37 54 eP 09 32.70 0.8
 FRI 82.19 54 eP 09 36.50 0.4
 SOD 82.25 340 iP 09 35.30 -0.5
 SES 83.34 39 ePd 09 42.00 0.2
 SUF 85.03 336 eP 09 48.40 -1.5
 0.5s 5.20nm 4.6mb
 FFC 86.40 32 iPd 09 57.30 0.5
 0.7s 13.00nm 4.9mb
 NUR 86.89 335 eP 09 57.80 -1.3
 0.4s 1.50nm 4.2mb
 S.D. = 0.9 on 25 of 25 obs.

NOV 04, 1990 18h 13m 43.06±0.52s
 15.721 S ± 3.2km 72.619 W ± 4.3km
 DEPTH = 121.0 ± 4.9 km
 5.4mb (54 obs.)
 SOUTHERN PERU (117)

Felt (IV) at Arequipo.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 34C
 Centroid Location:
 Origin Time 18:13:51.1 0.3
 Lat 15.78S 0.03 Lon 72.51W 0.04
 Dep 140.5 1.2 Half-duration 2.2
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr= 3.20 0.14 Mtt=-2.36 0.21
 Mff=-0.84 0.21 Mrt=-0.87 0.13
 Mrf=-2.08 0.14 Mtf= 3.30 0.20
 Principal Axes:
 T Val= 4.79 P1g=54 Azm=124

N 0.24 35 313
 P -5.04 5 220
 Best Double Couple: Mo=4.9*10¹⁷
 NP1: Strike=278 Dip=51 Slip= 42
 NP2: 159 59 133

ARE 1.31 124 iPc 14 08.60 -0.5
 i(S) 14 28.50
 ZOBO 4.36 98 Pc 14 51.00 2.1
 LPB 4.42 101 Pc 14 52.00 2.4
 CNCB 4.58 104 iPc 14 54.20 2.2
 NNA 5.53 312 iPc 15 01.80 -2.6
 0.6s 300.00nm 5.7mb
 eS 16 00.00
 ANT 8.21 166 eP 15 36.00 -4.8X
 SIV 11.11 93 Pc 16 16.00 -3.7X
 ANGL 15.99 342 eP 17 39.00 16.1X
 RTLL 15.99 167 iPd 17 22.10 -0.4
 eS 17 54.00
 VC1 16.04 339 eP 17 24.50 0.9
 RTCB 16.08 168 ePd 17 23.90 0.4
 RTBS 16.13 170 e(P) 17 24.80 0.7
 ZON 16.16 168 eP 17 24.50 0.0
 QUR 16.52 339 eP 17 30.50 1.1
 GGP 16.54 339 P 17 31.30 1.4
 CAYA 16.57 341 P 17 31.80 1.6
 COTA 16.92 340 P 17 36.00 1.4
 ROCH 17.24 175 eP 17 37.50 -0.5
 MDZ 17.43 169 iPc 17 40.80 0.7
 iS 18 13.50
 PEL 17.43 175 iPc 17 39.50 -0.7
 1.3s 211.54nm 5.3mb
 PSO 17.44 344 eP 17 42.00 1.3
 FCH 17.66 174 eP 17 43.00 -0.2
 LCCH 17.70 177 eP 17 43.00 -0.4
 SAN 17.74 175 eP 17 42.50 -1.4
 TACH 17.92 175 eP 17 44.50 -1.6
 PCH 17.92 174 eP 17 46.50 0.3
 CHCH 18.22 175 eP 17 50.00 0.4
 ITB1 19.26 120 Pc 17 59.10 -1.6
 ITB7 19.63 121 eP 18 03.50 -1.1
 BOG 20.26 356 iPd 18 12.00 0.5
 iS 22 02.00
 FUQ 21.08 357 eP 18 17.50 -2.2
 PPD 21.10 111 eP 18 18.30 -1.3
 e 18 18.90
 e 18 26.30
 e 18 41.90
 BMG 22.65 359 eP 18 33.00 -1.9
 LPA 23.21 148 iPd+ 18 42.00 2.0
 1.0s 1280.00nm 6.3mb
 i 18 52.00
 BAO 23.71 93 ePd 18 45.50 0.3
 UAV 24.22 4 eP 18 51.40 1.3
 SDV 24.53 5 eP 18 53.10 0.0
 CEOS 24.96 10 iPc 18 56.10 -0.8
 VAO 25.24 111 eP 18 57.50 -2.0
 i 18 59.80
 e 19 11.90
 e 19 18.60
 e 23 19.10
 UPA 25.48 344 e(P) 19 11.30 9.6X
 TOV 25.50 6 eP 19 00.70 -1.2
 OLLA 26.21 13 iPc 19 07.60 -1.0
 GUAC 26.28 12 iPc 19 08.50 -0.8
 LLAU 26.66 13 iPd 19 11.30 -1.3
 CAR 26.66 13 iP 19 11.50 -1.1
 MORO 26.76 9 eP 19 12.10 -1.5
 BMA 27.73 109 eP 19 20.70 -1.5
 JFO 28.35 107 eP 19 26.90 -1.0
 SOB1 31.62 82 eP 19 53.60 -3.2X
 e 22 45.40
 PDCR 32.62 89 eP 20 04.00 -1.4
 e 20 36.00
 e 22 48.90
 e 25 08.70
 PORP 34.07 10 P 20 15.80 -2.1
 CPD 34.19 11 P 20 16.10 -2.8
 LPR 34.46 11 P 20 18.20 -3.1X
 PRM 50.39 349 P 22 29.00 -0.9
 JSC 50.40 351 P 22 28.80 -1.1
 pP 23 00.00 135kmX
 LHS 50.52 351 P 22 30.00 -0.9
 BLA 53.16 352 eP 22 50.00 -0.6
 1.0s 23.00nm 5.1mb
 NA2 53.78 355 P 22 54.00 -1.0
 pP 23 26.00 137kmX

OLY 53.99 341 P 22 54.80 -1.9
 MEO 55.96 334 iPc 23 09.70 -1.3
 FVM 55.98 343 P 23 09.00 -2.1
 GMTN 56.33 359 iP 23 12.60 -0.9
 PNJ 56.35 359 iP 23 12.70 -0.9
 TXNY 56.63 359 iP 23 15.00 -0.6
 e 23 45.70
 CLE 57.51 352 iP 23 20.70 -1.1
 ALO 59.76 328 ePc 23 36.80 -0.9
 1.0s 16.25nm 5.0mb
 epP 24 07.00 125kmX
 ANMO 59.76 328 P 23 37.70 0.0
 1.0s 11.88nm 4.9mb
 pP 24 08.00 126kmX
 GOL 63.03 332 P 23 59.10 -0.6
 0.8s 7.44nm 4.7mb
 pP 24 31.00 132kmX
 BAR 63.96 319 eP 24 06.00 0.4
 PLM 64.52 320 eP 24 11.00 1.5
 TPC 64.53 321 eP 24 09.00 -0.3
 RVR 65.27 320 eP 24 14.00 0.0
 GSC 65.80 321 eP 24 18.00 0.5
 MWC 65.85 320 eP 24 18.00 0.1
 SBB 66.01 320 eP 24 19.00 0.2
 DAU 66.39 329 P 24 21.60 0.1
 pP 24 53.00 128kmX
 CLC 66.62 321 eP 24 22.00 -0.7
 ABL 66.98 320 P 24 25.70 0.5
 DUG 67.02 328 P 24 26.00 0.8
 1.0s 16.25nm 4.9mb
 pP 24 58.00 131kmX
 ISA 67.05 321 eP 24 25.00 -0.4
 BW06 67.38 331 P 24 26.00 -1.6
 1.0s 8.33nm 4.6mb
 pP 24 57.70 129kmX
 BLP 67.54 319 P 24 29.00 0.6
 BCH 67.74 319 P 24 30.70 0.9
 TNP 67.93 323 P 24 31.20 0.1
 0.7s 9.93nm 4.8mb
 FRI 68.67 321 eP 24 34.50 -0.9
 PRI 68.71 320 eP 24 36.50 0.7
 LLA 69.19 320 eP 24 39.00 0.4
 PRS 69.27 320 eP 24 39.60 0.5
 CMB 69.76 321 eP 24 42.30 0.2
 ARN 70.02 320 P 24 44.40 0.7
 MHC 70.08 320 eP 24 45.00 0.8
 LIC 70.37 77 P 24 44.26 -1.9
 0.8s 40.00nm 5.3mb
 Z 20s 0.40um 4.7msz
 TIC 70.51 77 P 24 45.02 -2.0
 1.0s 30.50nm 5.1mb
 KIC 70.68 77 P 24 46.12 -2.0
 0.9s 117.00nm 5.7mb
 BKS 70.78 320 eP 24 49.00 0.8
 0.7s 50.00nm 5.5mb
 eS 34 00.00
 e(ScS) 34 40.40
 BRK 70.80 320 eP 24 49.30 1.0
 LKO 70.95 74 Pc 24 47.30 -2.4
 0.8s 62.00nm 5.5mb
 LRM 71.05 332 eP 24 51.40 1.4
 ORV 71.41 322 eP 24 52.50 0.5
 WDC 72.67 322 eP 24 58.00 -1.4
 LBFM 72.79 323 P 25 01.00 0.7
 FHC 73.67 322 eP 25 06.80 1.6
 SES 73.98 336 ePc 25 06.70 -0.2
 0.8s 59.00nm 5.4mb
 pP 25 38.00 125kmX
 SPA 74.38 180 iPc 25 13.20 4.0X
 1.0s 76.00nm 5.4mb
 i 25 39.90
 FFC 74.48 343 eP 25 09.00 -0.6
 0.6s 7.00nm 4.6mb
 WEGH 74.60 80 eP 25 10.00 -1.1
 KUK 74.75 79 eP 25 11.00 -1.0
 LEGH 74.76 80 eP 25 10.50 -1.5
 TEGH 74.93 80 eP 25 11.00 -2.0
 SHGH 74.98 79 eP 25 12.80 -0.5
 PNT 76.92 331 ePc 25 24.00 0.5
 0.7s 26.00nm 5.1mb
 EDM 77.07 336 iP 25 23.70 -0.6
 0.6s 59.00nm 5.6mb
 TIO 78.03 53 iPc 25 31.50 1.3
 AVE 78.98 51 iP 25 36.00 0.9
 i 26 07.50
 FRB 79.28 2 eP 25 36.00 0.0
 IFR 80.79 51 iP 25 46.00 1.0

SBL	80.84	191	iPc	25	45.90	1.6	0.7s	34.25nm	5.8mb	MBL	22.45	193	eP	31	05.50	-0.4	eS	35	02.00	
			e(S)	35	50.40		INK	94.35	341	eP	26	49.50	0.0							
EVAl	81.42	47	eP	25	49.80	1.9	BUL	94.82	112	iPc	26	52.30	-0.7							4.8mb
EJIF	81.82	49	eP	25	52.00	1.9		0.4s	43.22nm	6.2mb	PJG	23.25	56	eP	31	15.00	1.3			
EPRU	82.22	48	eP	25	54.00	1.8	MBC	95.94	350	eP	26	57.50	0.8							-1.1
EHOR	82.59	47	eP	25	55.00	1.0		0.6s	3.00nm	5.0mb	IPM	24.42	279	ePc	31	26.20	1.1			
MAL	82.71	49	iPc	25	56.00	1.4	TOA	96.28	333	eP	26	58.20	-0.4							5.3mb
EPLA	83.02	45	eP	25	57.50	1.3	SQTA	97.26	43	iPd	27	04.40	1.0							
CER	83.08	123	iPc	25	58.80	2.0		1.2s	25.80nm	5.6mb	PP1	24.82	267	eP	31	30.50	1.6			
	0.9s	130	77nm		5.8mb						NANU	25.06	201	eP	31	30.60	-0.6			
ERUA	83.38	43	eP	25	59.50	1.5					OIS	25.50	147	eP	31	34.80	-0.5			
AFC	83.56	49	eP	26	00.50	1.3					PSI	26.32	274	ePc	31	42.60	-0.3			
EBAN	83.78	48	eP	26	02.00	1.9	GRF	97.91	41	iPc	27	07.60	1.5							1.1
WIN	83.85	112	iPc	26	01.00	0.0		0.9s	8.00nm	5.2mb	LOE	28.36	307	eP	32	02.00	0.4			
	0.6s	100	00nm		5.9mb		Z	21s	0.30um	4.8Msz	BDT	30.50	304	eP	32	20.90	0.2			
TOL	84.33	46	iPd	26	04.00	1.2						0.8s	51.90nm			5.4mb				
	0.9s	117	65nm		5.8mb		FBA	97.96	335	eP	27	05.30	-0.7							0.8
			i(pP)	26	10.50	21kmx	CLL	99.41	39	e(P)	27	14.00	1.1							5.8mb
			iS	36	15.00		BRG	99.89	40	eP	27	16.10	1.0							5.1mb
			ePS	37	45.00							0.8s	25.62nm			5.1mb				86kmx
			eSS	41	50.00		CTA	127.79	228	ePKP	32	19.00	-17.7X							
			eSSS	45	30.00		NWAO	130.72	191	ePKP	32	53.00	11.1X	KMI	32.47	320	eP	32	39.40	1.2
ENIJ	84.41	49	eP	26	03.20	0.0	MUN	131.82	190	ePKP	32	42.50	-1.5	ADE	37.77	162	ePd	33	23.20	0.1
GUD	84.59	45	eP	26	05.40	1.2	KLB	131.92	192	ePKP	32	40.50	-3.7X	BWA	41.27	150	eP	33	53.90	1.9
YKA	84.61	342	eP	26	03.20	-0.5		0.4s	10.00nm				CAN	42.27	151	eP	34	00.90	0.7	
	0.8s	23	40nm		5.1mb		MAIO	132.88	55	iPKPc	32	46.10	0.1	TOO	42.56	156	eP	34	03.00	0.4
EVIA	84.89	48	eP	26	07.50	1.8	BAL	133.07	191	ePKP	32	34.20	-12.2X	HYB	48.73	293	iPd	34	50.50	-1.5
ETOR	86.11	46	eP	26	12.50	0.8	KSH	143.79	43	ePKP	33	05.00	-0.9		1.0s	70.00nm		5.6mb		
ECRI	86.54	44	eP	26	15.00	1.2							GBA	48.93	287	Pc	34	51.20	-2.3	
LFF	89.64	43	iPKPc	26	28.50	0.2	MDJ	145.61	331	ePKP	33	08.00	-0.6		0.9s	16.60nm		5.1mb		
	0.9s	52	40nm		5.6mb		MAT	145.65	313	iPKPc	33	08.60	-0.4	NAI	88.40	269	iPd	39	01.00	1.8
MFF	89.72	41	iPc	26	29.00	0.3	WMO	147.37	27	PKP	33	12.00	0.4	MML	89.38	302	iPc	39	03.00	-0.3
	0.9s	22	95nm		5.3mb		POO	147.86	80	iPKP	33	12.00	-1.1	ADI	89.53	303	iPc	39	03.70	-0.2
SWZ	89.78	118	eP	26	28.50	-1.2	CN2	148.07	335	ePKP	33	12.00	-0.6	MBH	89.87	300	iPc	39	04.90	-0.8
	0.6s	66	67nm		5.9mb								SOD	92.56	337	eP	39	16.00	-1.2	
LPO	89.83	43	iPc	26	29.80	0.5	NDI	149.34	60	iPKPc	33	16.00	0.9	INK	93.43	21	eP	39	21.00	-0.1
	0.9s	32	75nm		5.4mb		KOD	150.36	97	iPKPc	33	23.50	6.1X	SUF	93.44	333	iP	39	19.70	-1.5
BLF	89.93	120	iPc	26	29.50	-0.9		0.8s	82.09nm					0.3s	2.90nm		5.2mb			
	0.9s	69	23nm		5.7mb		SNY	150.47	335	PKPc	33	22.50	6.2X	NUR	94.49	331	eP	39	27.00	0.9
GRR	89.99	39	eP	26	29.50	-0.4	GBA	150.96	90	PKP	33	19.00	1.2	MBC	95.12	13	eP	39	28.50	-0.3
RJF	90.29	43	iPc	26	31.20	-0.2		1.2s	25.90nm				NB2	100.69	333	Pdiff	39	51.70	-2.6X	
	0.9s	19	65nm		5.2mb		HYB	152.33	82	iPKPc	33	20.00	0.2		1.0s	3.80nm		4.9mb		
FLN	90.37	39	eP	26	31.80	0.2		1.0s	100.00nm				SSF	110.41	322	ePKP	44	38.50	-0.3	
Z	21s	0	50um		4.9Msz								MFF	112.87	322	ePKP	44	43.00	-0.5	
CAF	90.50	43	iPc	26	32.80	0.4							KIC	129.52	279	PKP	45	15.70	-0.7	
	0.8s	12	10nm		5.1mb		BJI	154.58	344	ePKP	33	22.00	-0.2	TIC	129.76	279	PKP	45	15.90	-1.0
LDF	90.52	39	iPc	26	32.50	0.2	Z	44s	0.72um		5.1MszX		LIC	129.82	279	PKP	45	16.00	-0.9	
	1.0s	22	00nm		5.3mb		HHC	154.70	353	PKP	33	24.00	1.5	LKO	129.93	283	PKP	45	15.32	-1.9
LSF	90.65	42	iPc	26	33.20	0.2	E	15s	1.00um					0.6s	7.50nm					
	0.9s	22	95nm		5.3mb		BTO	155.11	355	ePKP	33	20.50	-2.6X	CNCB	159.48	142	PKP	46	07.00	1.0
MAW	90.83	164	iPc	26	33.90	0.3	GTA	155.49	14	PKPc	33	24.20	0.5							
	0.9s	38	00nm		5.6mb		GKN	155.66	56	PKP	33	24.00	-0.3	LPB	159.62	141	(PKP)	46	08.00	2.0
TCF	91.10	42	iPc	26	35.20	0.1		0.8s	17.00nm				ZOBO	159.80	140	PKP	46	07.00	0.6	
	1.0s	16	00nm		5.2mb		DMN	156.20	56	PKP	33	25.40	0.2	SIV	163.70	158	PKP	46	10.20	0.6
MAF	91.31	42	iPc	26	36.30	0.3	KKN	156.27	56	PKP	33	25.00	-0.2							
	1.0s	18	00nm		5.2mb			0.8s	28.00nm											
SEK	91.37	120	iPd	26	37.00	0.0	PKI	156.46	56	PKP	33	25.20	-0.4	SOB1	163.83	238	e(PKP)	46	09.40	-0.4
	1.0s	25	00nm		5.4mb		GUN	156.69	55	PKP	33	25.80	-0.2							
KSR	91.53	117	iPc	26	35.50	-2.3	TIY	157.64	349	PKPc	33	27.50	1.0		S.D. = 1.1	on 41 of 44 obs.				
	1.0s	30	00nm		5.5mb		Z	26s	0.70um		5.4MszX									
BGF	91.61	42	iPc	26	37.60	0.2														
	0.7s	23	15nm		5.5mb															
PRY	91.68	118	iPd	26	43.00	4.5X	LZH	159.47	8	PKP	33	29.50	0.8		?	NOV 04, 1990 19h 12m 24.07±3.39s				
	1.0s	15	00nm		5.2mb		Z	24s	0.56um		5.3MszX					1.237 S ±20.3km 77.679 W ±21.7km				
AVF	92.02	42	iPc	26	39.50	0.2										DEPTH = 10.0km (geophysicist)				
	0.9s	11	45nm		5.1mb		LSA	159.60	44	PKP	33	30.40	1.0			ECUADOR (107)				
SSF	92.21	42	eP	26	40.00	-0.2	SSE	160.16	323	PKP	33	29.00	-0.3							
	1.0s	8	00nm		4.9mb		Z	21s	0.50um					TUNG	0.79	257	iP	12	39.90	0.3
SMF	92.28	42	iPc	26	41.00	0.5														
	0.9s	22	95nm		5.4mb		XAN	161.71	356	PKP	33	32.00	1.2	ANGL	0.85	9	P	12	40.70	0.0
BCAO	92.29	86	iPc	26	42.30	1.0	CD2	164.52	12	PKP	33	34.60	0.9	VC1	0.94	309	iP+	12	41.50	-0.8
	0.6s	63	00nm		6.0mb															
			ic	30	20.40									CAYA	1.34	347	P	12	54.60	5.4X
LBF	92.49	42	eP	26	41.50	0.0								QUR	1.36	321	eP	12	50.30	0.9
LOR	92.51	42	eP	26	41.70	0.1								GGP	1.40	319	eP	12	50.20	0.0
	1.0s	6	00nm		4.8mb															
Z	20s	0	30um		4.7Msz															
SLR	92.75	118	iPc	26	44.00	0.6														
	1.2s	62	50nm		5.8mb															
Z	20s	3	19um		5.8Msz															
EVA	93.18	118	iPc	26	44.50	-0.9														
	1.5s	83	33nm		5.8mb															
LPL	93.80	44	iPc	26	49.00	1.2														
	0.8s	13	45nm		5.3mb															
LPG	93.81	44	iPc	26	49.10	1.1														
	1.0s	22	00nm		5.4mb															
BFT	94.27	118	iPc	26																

GGP 0.98 339 S 27 37.70
 YANA 1.03 342 P+ 27 25.40 -0.1
 S 27 38.40
 CAYA 1.20 13 P 27 26.20 0.0
 S 27 39.50
 eS 27 28.00 -0.4
 COTA 1.43 356 P 27 44.60
 P 27 33.60 0.7
 eS 27 57.50
 S.D. = 0.4 on 7 of 7 obs.

& NOV 04, 1990 20h 05m 19.74s
 57.016 N 145.860 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AGS-P>.

MID 2.43 354 eP 05 54.57 -5.5
 KAJM 3.02 14 iP 06 02.83 -5.6
 MTU 3.13 343 eP 06 04.76 -5.2
 LTI 3.21 342 iP 06 05.46 -5.7
 HIN 3.41 355 iP 06 08.42 -5.6
 eS 06 47.04
 HMT 3.43 13 eP 06 08.95 -5.4
 RAGM 3.44 10 iP 06 08.89 -5.6
 eS 06 48.33
 KNIM 3.48 344 iP 06 09.26 -5.8
 eS 06 47.32
 SGAM 3.51 5 eP 06 10.06 -5.4
 CVA 3.54 1 eP 06 10.36 -5.5
 eS 06 50.19
 SEW 3.62 330 eP 06 11.13 -5.9
 eS 06 50.93
 WRG 3.63 32 eP 06 11.39 -5.8
 eS 06 51.89
 KDC 3.66 284 eP 06 13.28 -4.3
 WAX 3.78 23 eP 06 13.23 -6.2
 eS 06 54.81
 CNPM 3.79 314 eP 06 13.98 -5.5
 eS 06 55.16
 BRLK 3.82 318 iP 06 14.44 -5.4
 eS 06 56.80
 SYI 3.84 297 eP 06 15.39 -4.7
 GLI 3.93 351 eP 06 15.21 -6.2
 eS 06 58.51
 XLV 3.95 311 eP 06 16.17 -5.5
 YAH 3.98 31 iP 06 16.41 -6.0
 HOM 4.04 313 eP 06 18.24 -4.6
 TGL 4.07 21 eP 06 17.44 -6.0
 eS 07 02.41
 VZW 4.07 355 iP 06 17.64 -5.8
 YKU 4.12 49 eP 06 16.89 -7.1
 VLZ 4.14 357 iP 06 18.33 -5.9
 >NNL 4.16 319 eP 06 19.69 -5.0
 SLKM 4.17 329 eP 06 19.23 -5.6
 eS 07 05.58
 PNL 4.32 49 eP 06 20.29 -6.7
 BCPM 4.40 45 eP 06 21.60 -6.4
 eS 07 09.59
 BALM 4.42 23 iP 06 22.30 -6.2
 eS 07 10.01
 HQN 4.43 54 eP 06 21.75 -6.7
 KLU 4.49 360 eP 06 22.99 -6.4
 GLB 4.56 12 eP 06 24.06 -6.4
 CDD 4.57 298 eP 06 25.47 -5.0
 KNK 4.61 344 eP 06 25.21 -5.8
 AUE 4.62 304 eP 06 26.76 -4.4
 AUI 4.63 303 eP 06 27.20 -4.2
 AUP 4.64 304 eP 06 27.10 -4.5
 AGU 4.64 304 eP 06 27.20 -4.5
 PMS 4.65 337 eP 06 25.87 -5.8
 AUH 4.65 304 eP 06 28.53 -3.2
 NKA 4.66 326 eP 06 28.13 -3.7
 INE 4.85 312 eP 06 28.80 -5.9
 INW 4.89 312 eP 06 29.45 -5.6
 PLRM 4.89 341 eP 06 29.50 -5.4
 SCM 4.89 352 eP 06 29.74 -5.4
 RDT 4.93 319 eP 06 29.33 -6.3
 RED 4.96 316 eP 06 30.01 -6.1
 SML 4.97 346 eP 06 30.77 -5.4
 REF 4.98 317 eP 06 30.43 -6.0
 RSO 4.98 317 eP 06 30.44 -6.1
 RS2 4.98 317 eP 06 30.85 -5.7
 MCNL 4.99 299 eP 06 31.19 -5.3
 RDN 5.02 317 eP 06 30.90 -6.1
 GHO 5.02 343 eP 06 31.63 -5.3
 PWA 5.08 338 eP 06 32.48 -5.2

TOA 5.11 358 eP 06 32.51 -5.6
 NCT 5.11 317 eP 06 32.61 -5.7
 SUA 5.12 333 eP 06 32.48 -5.8
 PDB 5.19 306 eP 06 33.07 -6.1
 SPU 5.26 325 eP 06 34.01 -6.3
 CGLM 5.34 326 eP 06 35.61 -5.9
 CRP 5.35 325 eP 06 35.82 -5.9
 CKL 5.36 324 eP 06 35.35 -6.4
 BGL 5.43 324 eP 06 36.74 -6.0
 NCG 5.46 326 eP 06 37.37 -5.8
 SDG 5.53 2 eP 06 38.31 -5.8
 SKT 5.75 332 eP 06 41.62 -5.6
 CUT 5.85 339 eP 06 41.77 -6.7
 69 obs. associated

? NOV 04, 1990 20h 09m 41.88±7.74s
 36.549 N ±37.8km 7.875 W ±54.6km
 DEPTH = 10.0km (geophysicist)
 STRAIT OF GIBRALTAR (385)
 mblg 3.2 (MDD).

Eval 1.37 41 ePn 10 08.10 1.1
 eSn 10 26.40
 EJIF 1.94 92 ePn 10 15.50 0.3
 eSn 10 39.50
 ECOG 3.53 77 ePn 10 38.00 0.0
 eSn 11 20.60
 AFC 3.54 77 ePn 10 38.80 0.6
 eSn 11 20.30
 EBAN 3.64 62 ePn 10 39.60 0.2
 eSn 11 20.00
 EPLA 3.79 21 ePn 10 41.50 -0.1
 eSn 11 25.00
 EVIA 4.75 62 ePn 10 54.50 -0.8
 eSn 11 49.50
 GUD 5.02 34 ePn 10 59.00 -0.1
 eSn 11 55.50
 S.D. = 0.7 on 8 of 8 obs.

* NOV 04, 1990 21h 42m 27.62±0.81s
 39.661 N ±15.0km 70.821 E ±9.6km
 DEPTH = 33.0km (normal)
 4.0mb (1 obs.)
 TAJIK SSR (715)
 Felt (IV) at Gorm and Yoldymych
 and (II) at Komorou.

MAIO 9.55 253 eP 44 46.00 0.0
 eS 46 25.00
 NDI 12.16 152 eP 45 25.00 3.6X
 GKN 16.32 131 P 46 15.60 -0.4
 KKN 16.85 130 P 46 22.60 -0.2
 DMN 16.88 131 P 46 23.40 0.2
 PKI 17.09 130 P 46 25.60 -0.3
 GUN 17.12 129 P 46 27.00 0.7
 GBA 26.60 166 Pc 48 08.60 3.8X
 1.0s 4.00nm 4.0mb
 SOD 36.84 333 eP 49 34.00 0.0
 HFS 40.53 320 eP 50 15.20 10.3X
 0.5s 2.50nm
 NB2 41.81 321 P 50 26.20 10.8X
 0.6s 2.50nm
 S.D. = 0.4 on 7 of 11 obs.

* NOV 04, 1990 21h 46m 51.62±1.20s
 39.902 N ±12.3km 77.975 E ±11.3km
 DEPTH = 33.0km (normal)
 4.0mb (1 obs.) 4.0MsZ (1 obs.)
 SOUTHERN XINJIANG, CHINA (321)

KSH 1.60 254 Pgc 47 17.50 -0.6
 Sg 47 39.50
 WMO 8.24 58 P 48 51.00 -0.9
 GKN 13.09 153 P 49 59.00 1.1
 KKN 13.51 151 P 50 02.80 -0.8
 DMN 13.61 152 P 50 03.80 -1.2
 GUN 13.63 149 P 50 05.00 -0.3
 PKI 13.76 151 P 50 05.60 -1.4
 GTA 16.83 85 eP 50 45.00 -1.3
 0.8s 10.00nm 4.0mb
 LZH 20.72 92 P 51 33.50 1.7
 Z 18s 0.59um 4.0MsZ
 sP 51 44.00
 HYB 22.41 179 eP 51 50.50 1.7
 CD2 22.79 105 P 51 56.00 3.6X
 Z 14s 1.08um 4.4MsZ

HHC 25.52 77 eP 52 22.30 3.5X
 Z 16s 0.80um 4.3MsZ
 GYA 27.37 111 P 52 38.00 2.1
 S.D. = 1.5 on 11 of 13 obs.

NOV 04, 1990 22h 04m 45.48±0.17s
 51.186 N ±4.7km 178.948 E ±2.2km
 DEPTH = 33.0km (normal)
 5.1mb (58 obs.) 5.0MsZ (19 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS (6)
 Ms 5.0 (BRK). Felt (IV) on
 Amchitka and (III) on Adak.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 31C
 Centroid Location:
 Origin Time 22:04:48.8 0.4
 Lat 51.50N 0.05 Lon 179.42E 0.08
 Dep 15.0 FIX Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr=0.76 0.04 Mtt=-0.73 0.06
 Mff=-0.03 0.03 Mrt=1.79 0.13
 Mrf=0.61 0.10 Mtf=-0.35 0.04
 Principal Axes:
 T Vol= 2.01 Plg=57 Azm=343
 N 0.11 2 251
 P -2.12 33 160
 Best Double Couple: Mo=2.1*10**17
 NP1: Strike=243 Dip=12 Slip= 83
 NP2: 71 78 92

ADK 2.82 74 eP 05 30.30 1.2
 SMY 3.37 299 ePc 05 37.80 0.7
 i 05 41.00
 SVW 17.19 45 eP 08 46.60 2.2
 KDC 17.76 57 eP 08 49.80 -1.6
 TTA 17.85 39 eP 08 54.50 1.9
 PMR 20.29 47 eP 09 18.80 -1.9
 e 09 22.10
 IMA 20.36 33 eP 09 21.30 -0.3
 1.2s 111.70nm 5.1mb
 TOA 21.78 46 eP 09 35.30 -0.7
 FBA 21.97 39 eP 09 38.30 0.5
 BRW 22.99 20 e(P) 09 48.30 0.6
 INK 28.43 35 ePc 10 37.60 -1.0
 0.8s 37.00nm 5.1mb
 MAT 32.36 259 eP 11 14.00 0.2
 eS 16 35.00
 MDJ 33.21 278 eP 11 19.50 -1.5
 Z 23s 2.00um 4.8MsZ
 eS 16 32.00
 MBC 34.31 22 ePc 11 30.50 0.2
 1.0s 78.00nm 5.6mb
 CN2 36.19 280 P 11 45.80 -0.8
 YKA 36.39 46 eP 11 47.20 -0.8
 0.8s 13.20nm 4.9mb
 GMW 37.26 72 eP 11 57.00 1.4
 BMW 37.51 74 eP 11 58.50 0.8
 RMW 37.89 72 eP 12 02.00 1.0
 LON 38.23 73 eP 12 04.00 0.2
 PNT 38.32 68 eP 12 05.00 0.5
 0.6s 15.00nm 5.0mb
 SNY 38.41 278 Pc 12 05.90 0.7
 1.3s 70.00nm 5.3mb
 Z 22s 1.90um 4.9MsZ
 S 18 00.00
 FHC 40.04 82 eP 12 20.00 1.1
 EDM 40.14 60 iPc 12 18.60 -0.9
 NEW 40.27 68 eP 12 20.70 0.0
 0.8s 27.08nm 5.1mb
 i 12 25.90
 i 12 33.60
 LBFM 41.03 80 eP 12 28.00 0.8
 e 12 35.00
 WDC 41.07 81 eP 12 28.30 1.0
 ORV 42.31 82 eP 12 37.80 0.3
 SES 42.71 62 eP 12 42.00 1.3
 BRK 42.85 84 eP 12 42.10 0.2
 BKS 42.86 84 eP 12 42.60 0.6
 1.4s 62.00nm 5.1mb
 Z 24s 1.50um 4.8MsZ
 N 25s 1.20um
 E 23s 1.40um
 eS 19 05.20
 eLO 22 37.20
 eLR 24 34.00
 PCC 43.00 85 eP 12 43.70 0.6

04d 22h

GCC	43.53	85	eP	12	47.80	0.4	GLD	52.14	71	eP	13	55.40	0.6	MTN	76.08	228	iPd	16	31.20	-0.2
MHC	43.56	85	eP	12	48.30	0.4		1.4s	27.03nm			5.0mb			0.6s	54.00nm			5.7mb	
ARN	43.63	85	eP	12	48.50	0.2	XAN	52.30	279	Pc	13	55.00	-0.9	CTA	76.56	211	iPd	16	34.00	0.0
CMB	43.92	83	eP	12	51.00	0.3	QZH	52.52	264	Pc	13	57.50	0.0		1.3s	38.46nm			5.3mb	
			eS	18	25.00			Z 17s	3.10um			5.4MszX		CLL	77.19	351	eP	16	40.00	2.9X
BJI	44.03	281	eP	12	52.00	0.6		N 16s	1.80um					BRG	77.52	350	eP	16	38.30	-0.7
	1.0s	24.00nm			5.0mb			E 16s	2.10um						1.3s	14.00nm			4.8mb	
	Z 20s	1.49um			4.9Msz		FRB	53.92	31	eP	14	06.00	-1.3	MOX	77.98	352	eP	16	41.00	-0.5
	N 18s	1.67um					LZH	54.07	285	iPc	14	09.50	0.4	MAIO	77.99	314	iPc	16	43.00	1.1
		ePP	14	34.00				5.0s	440.00nm			5.7mb X			e			19	37.00	
		eS	19	24.00				Z 18s	2.93um			5.4Msz		ENN	78.25	355	eP	16	43.00	0.0
SAO	44.04	85	eP	12	51.80	0.2		E 15s	1.21um						1.0s	14.00nm			4.9mb	
LRM	44.27	69	eP	12	53.20	-0.4			pP	14	22.50	47kmX		PRU	78.33	350	P	16	43.50	0.0
PRS	44.36	86	eP	12	54.80	0.6	GTA	54.32	290	iPc	14	10.90	0.1		Z 18s	1.20um			5.3Msz	
LLA	44.45	85	eP	12	55.30	0.4		1.2s	1090.00nm			6.8mb X			N 18s	0.70um				
PRI	44.92	85	eP	12	58.90	0.0		Z 16s	2.60um			5.4MszX			E 16s	0.70um				
FRI	44.99	84	eP	12	59.40	0.2		N 15s	1.60um					SPC	78.36	346	eP	16	42.80	-1.1
PHAM	45.28	85	eP	13	02.00	0.4			pP	14	17.70	22kmX		MEM	78.41	355	P	16	44.00	0.2
FFC	45.40	53	eP	13	03.00	0.8	ANMO	54.52	77	eP	14	12.40	0.0	GRF	78.96	352	ePc	16	47.40	0.5
	0.5s	7.00nm			4.8mb			1.0s	7.50nm			4.7mb			1.5s	24.00nm			5.0mb	
TIA	45.78	276	eP	13	05.70	0.2		Z 20s	1.06um			4.9Msz			Z 22s	0.40um			4.7Msz	
	Z 20s	4.40um			5.4Msz		ALQ	54.52	77	eP	14	11.00	-1.5	DOU	78.98	356	P	16	51.90	4.9X
	N 17s	3.00um						1.0s	8.00nm			4.7mb		KHC	79.28	350	P	16	49.30	0.6
	E 17s	2.70um						Z 20s	1.06um			4.9Msz			N 20s	0.50um				
TNP	45.87	81	iPd	13	06.60	0.2	CD2	57.62	280	P	14	34.00	-0.6		E 20s	0.50um				
	0.9s	26.69nm			5.2mb			1.0s	30.00nm			5.3mb		ZST	79.78	348	eP	16	52.20	0.8
		i	13	13.00			KEV	57.64	349	eP	14	40.00	5.9X		e			42	01.80	
		i	13	25.00			WMO	58.25	302	iPc	14	39.00	0.1	SRO	79.99	347	eP	16	53.20	0.7
BCH	45.90	86	eP	13	07.00	0.4		Z 20s	3.20um			5.4Msz		FLN	80.43	360	eP	16	54.50	-0.3
PTI	45.97	72	eP	13	08.20	1.1			PP	16	46.50			LDF	80.60	359	eP	16	55.20	-0.5
BLP	46.10	87	eP	13	08.30	0.3	GYA	58.93	274	P	14	42.80	-1.1		0.6s	7.20nm			4.8mb	
HHC	46.38	285	Pc	13	10.00	-0.3			S	22	48.00		GRR	80.81	360	eP	16	56.70	-0.1	
	1.2s	100.00nm			5.6mb		MEO	59.39	71	eP	14	46.60	-0.2	HAU	80.99	355	eP	16	56.60	-1.2
	Z 20s	1.20um			4.8Msz		SOD	59.94	348	iP	14	49.20	-1.0		Z 21s	0.45um			4.8Msz	
	N 18s	1.30um					SCH	61.05	37	eP	14	56.00	-1.9	BSF	81.13	355	eP	16	57.20	-1.5
	E 18s	0.80um					FVM	61.91	64	eP	15	02.10	-1.8	LPF	81.16	360	eP	17	00.00	1.4
		S	20	00.00			KMI	62.35	276	Pc	15	06.00	-1.2	BZS	81.61	344	eP	17	01.00	0.0
SYP	46.39	86	eP	13	24.00	13.5X			2.0s	55.00nm		5.3mb		PSI	81.65	264	ePd	17	01.20	-0.5
SSE	46.58	267	Pd	13	12.00	0.2		Z 22s	1.30um			5.1Msz		LOR	81.84	357	eP	17	02.10	-0.1
	1.0s	58.00nm			5.5mb				eS	23	30.00			1.2s	11.90nm			4.8mb		
	Z 20s	1.80um			5.0Msz		AKU	62.73	8	iP	15	09.50	0.6		Z 21s	0.52um			4.9Msz	
	N 14s	1.90um						1.1s	30.38nm			5.3mb		TAB	81.91	324	eP	17	05.00	2.1
	E 10s	0.60um					ELC	63.08	63	eP	15	10.20	-1.4	SSF	82.06	357	eP	17	03.30	0.0
		pP	13	23.00	38kmX		SUF	64.42	346	ePc	15	18.90	-1.2		1.2s	10.40nm			4.7mb	
		S	20	04.00				0.6s	3.90nm			4.7mb		LBF	82.12	357	eP	17	03.40	-0.3
ISA	46.60	84	eP	13	11.00	-1.1	PWLA	65.38	64	eP	15	25.60	-1.1	AVF	82.33	357	eP	17	04.70	-0.1
ABL	46.65	86	eP	13	12.50	-0.2	LSA	66.16	288	iPc	15	33.20	0.9		1.2s	20.85nm			5.1mb	
CLC	47.05	83	eP	13	15.00	-0.6	RSCP	66.34	62	eP	15	33.50	0.7	SMF	82.46	357	eP	17	05.20	-0.3
DUG	47.29	76	ePd	13	18.00	0.4			0.8s	40.06nm		5.6mb			1.2s	17.85nm			5.0mb	
	0.8s	13.89nm			5.0mb			Z 20s	1.13um			5.1Msz		CTI	82.53	351	P	17	05.00	-1.0
NJ2	47.40	270	Pc	13	18.00	-0.3	NUR	66.75	346	eP	15	34.20	-0.8	BEO	82.58	345	eP	17	05.50	-0.6
	1.2s	100.00nm			5.7mb			0.4s	3.80nm			4.8mb	MFF	82.59	359	eP	17	06.10	0.0	
	Z 22s	0.90um			4.7Msz		GBTN	67.04	61	eP	15	36.00	-1.3		1.0s	12.00nm			4.9mb	
	E 13s	1.10um					TKL	67.29	61	eP	15	37.50	-1.3	TCF	82.87	358	eP	17	08.50	0.9
		pP	13	26.50	28kmX		KSH	67.51	305	P	15	41.50	1.2	LSF	82.92	358	eP	17	07.70	-0.2
		eS	20	10.00			NB2	67.69	354	P	15	39.80	-1.2		0.9s	9.85nm			4.9mb	
BTO	47.47	285	iPd	13	20.00	1.1		0.9s	19.60nm			5.2mb	MAF	82.92	357	eP	17	07.90	0.0	
	N 16s	1.00um					BLA	67.96	58	eP	15	45.00	1.9		0.9s	6.55nm			4.7mb	
	E 16s	1.20um						0.6s	10.23nm			5.1mb	HYB	82.95	289	iPc	17	08.50	0.0	
		pP	13	28.00	27kmX		UPP	68.28	350	iP	15	43.50	-1.1		1.0s	70.00nm			5.7mb	
		PP	15	08.00			HFS	68.40	352	eP	15	43.50	-1.9	VAI	82.96	353	P	17	08.00	0.0
		S	20	16.00				0.9s	12.70nm			5.0mb	SAL	83.07	352	P	17	08.00	-0.6	
SBB	47.63	85	eP	13	19.00	-1.2		Z 18s	0.61um			4.9Msz	RJF	83.87	358	eP	17	13.00	0.3	
BW06	47.71	71	eP	13	20.50	-0.4	CHG	69.35	275	iPc	15	51.00	-0.9		1.1s	9.75nm			4.9mb	
	1.0s	66.67nm			5.6mb			1.1s	18.99nm			5.1mb		Z 19s	0.85um			5.1Msz		
TIY	47.76	281	iPc	13	22.00	0.8	CHTO	69.35	275	eP	15	51.10	-0.8	BNI	83.91	354	P	17	14.00	0.9
	1.1s	100.00nm			5.8mb			1.0s	16.00nm			5.0mb	BOB	84.00	352	P	17	14.50	1.0	
	Z 12s	1.40um			5.2MszX		JSC	69.69	60	eP	15	52.60	-1.1	CAF	84.23	358	eP	17	15.00	0.4
	N 15s	0.90um					LHS	69.79	60	eP	15	53.20	-1.1	LFF	84.24	359	eP	17	14.60	0.0
		pP	13	31.00	30kmX		BDT	70.49	273	eP	15	58.00	-0.7		1.1s	19.55nm			5.2mb	
		PP	15	17.50			GUN	70.61	290	Pc	16	00.44	0.6	ASPA	84.40	221	eP	17	14.90	-0.7
MWC	47.79	85	eP	13	21.00	-0.6		0.9s	304.00nm			6.4mb X	LPO	84.49	358	eP	17	15.90	0.0	
GSC	47.88	83	eP	13	22.00	-0.2	SGS	70.92	61	eP	16	01.00	-0.2		1.1s	24.40nm			5.3mb	
DAU	48.10	74	eP	13	24.50	0.3	KKN	71.05	291	Pc	16	02.86	0.5	BDI	84.60	352	P	17	20.00	3.5X
RVR	48.37	85	eP	13	25.00	-0.9		0.9s	187.00nm			6.1mb	SFI	84.61	351	P	17	18.00	1.6	
PEC	48.57	85	eP	13	26.80	-0.7	PKI	71.14	291	Pc	16	03.26	0.2	BBTK	84.65	335	eP	17	24.00	7.1X
PLM	49.11	85	eP	13	31.00	-0.8		1.1s	228.00nm			6.1mb	PGD	84.67	351	P	17	18.50	1.5	
TPC	49.13	84	eP	13	30.00	-1.8	HBF	71.19	61	eP	16	03.50	0.7	POO	84.84	293	iPc	17	16.80	-1.2
BAR	49.68	86	eP	13	35.00	-1.0	GKN	71.27	291	Pc	16	03.86	0.3		0.9s	33.61nm			5.5mb	
WHN	51.25	272	Pc	13	48.00	0.1		1.0s	313.00nm			6.3mb X	CRE	84.89	351	P	17	19.00	1.0	
DAG	51.82	5	iPd	13	50.30	-1.3</														

ADK	49.43	30 eP	31	51.50	-1.4
	1.0s	100.00nm			5.8mb
BFD	49.94	183 eP	31	57.00	0.0
TOO	50.28	180 eP	32	01.00	1.4
BAL	51.27	212 eP	32	06.00	-1.3
LSA	52.56	297 P	32	18.00	0.3
MUN	52.62	211 eP	32	16.00	-1.4
GUN	57.04	295 P	32	49.66	-0.5
	1.2s	262.00nm			6.1mb
PKI	57.44	294 P	32	51.88	-1.1
KKN	57.56	295 P	32	52.78	-0.9
	1.3s	97.00nm			5.7mb
DMN	57.71	295 P	32	54.02	-0.7
WMO	57.79	314 P	32	55.00	0.2
Z	24s	1.40um			5.0Mszx
		PCP	33	48.30	
		S	40	45.60	
GKN	58.14	295 P	32	56.78	-0.8
	1.2s	262.00nm			6.2mb
SDN	59.47	33 e(P)	33	05.50	-0.6
SVW	64.05	28 eP	33	36.50	-0.4
HYB	64.20	283 ePc	33	38.00	-0.5
	1.0s	100.00nm			5.8mb
NDI	64.68	296 iP	33	40.50	-1.0
GBA	65.74	279 P	33	49.00	0.6
KOD	66.24	276 eP	33	52.00	0.0
IMA	66.69	23 eP	33	52.50	-1.4
	1.2s	34.00nm			5.2mb
PMR	67.17	28 eP	33	55.10	-1.7
	1.1s	12.30nm			4.8mb
POO	68.51	285 iPd	34	04.80	-1.2
	0.9s	50.42nm			5.5mb
FBA	68.64	25 eP	34	03.80	-2.2
	1.0s	36.50nm			5.3mb

TOA	68.66	28	eP	34	05.70	-0.5
BOM	69.44	285	eP	34	11.00	-0.6
			eS	43	13.50	
INK	74.81	22	eP	34	41.00	-1.6
	1.0s	88.00nm				5.6mb
		pP	34	58.00	62kmX	
MBC	78.79	14	eP	35	04.00	-0.7
	1.3s	54.00nm				5.3mb
MAIO	79.02	305	iPd	35	08.50	1.7
YKA	83.25	27	eP	35	28.10	-0.3
	0.9s	15.60nm				5.0mb
WDC	83.38	50	eP	35	31.00	1.5
PNT	83.62	41	eP	35	33.00	2.4
	0.7s	13.00nm				5.1mb
BRK	84.14	53	eP	35	35.00	1.6
BKS	84.15	53	eP	35	35.00	1.5
	1.6s	150.00nm				5.8mb
ORV	84.37	51	eP	35	36.00	1.4
GCC	84.51	53	eP	35	34.80	-0.5
MHC	84.73	53	eP	35	38.70	2.2
SAO	85.00	54	eP	35	41.30	3.5X
PRS	85.15	54	eP	35	39.50	0.9
LLA	85.43	54	eP	35	40.80	0.9
CMB	85.55	52	eP	35	41.40	0.8
PRI	85.75	54	eP	35	44.80	3.1X
SHI	85.97	299	eP	35	44.00	1.0
FRI	86.31	53	eP	35	45.80	1.6

BCH	86.43	55 P	35	46.20	1.2
EDM	86.45	36 iP	35	46.00	1.3
SYP	86.66	55 eP	35	41.00	-5.2X
KEY	87.20	342 iP	35	48.00	0.1
	1.1s	88.80nm			5.9mb
ISA	87.59	54 eP	35	51.00	0.4
CLC	88.25	54 eP	35	55.00	1.3
MWC	88.28	55 eP	35	53.00	-1.1
SBB	88.35	55 eP	35	55.00	0.7
SOD	88.55	340 iP	35	54.10	-0.4
SES	88.68	38 eP	35	56.00	0.5
RVR	88.88	55 eP	35	55.00	-1.7
TAB	88.95	309 eP	35	58.00	0.8
GSC	89.00	54 eP	35	59.00	1.6
PEC	89.08	56 P	35	58.20	0.5
LRM	89.22	43 eP	35	59.60	1.2
PLM	89.46	56 eP	36	03.00	3.3X
BAR	89.79	57 eP	36	06.00	4.9X
TPC	89.92	55 eP	36	01.00	-0.7
DAG	89.93	356 iPc	35	59.80	-1.0
	1.0s	20.00nm			5.4mb
Z	20s	1.70um			5.5MsZ
N	20s	1.42um			
SUF	91.15	336 iP	36	04.40	-2.3
	1.0s	52.90nm			5.9mb
DAU	91.73	48 P	36	12.50	2.3

ADI	81.37	304	iPd	31	49.00	0.7
DUG	81.75	47	P	31	50.90	0.6
BW06	82.07	43	P	31	51.70	-0.3
BZS	82.08	320	eP	31	51.50	-0.2
DSI	82.12	303	iPd	31	52.60	0.4
GSC	82.13	53	eP	31	52.00	-0.3
BRG	82.21	328	iP	31	52.60	0.4
	1.0s	20.00nm				4.9mb
SRO	82.30	324	iP	31	53.40	0.7
CLL	82.31	329	iPd	31	52.70	0.0
	1.4s	48.00nm				5.1mb
		eP		33	07.00	318km
PRU	82.57	327	Pd	31	54.50	0.4
	1.0s	21.70nm				4.9mb
		e		33	09.00	318km
ZST	82.63	324	iP	31	55.00	0.6
PGB	82.66	317	iP	31	56.00	1.2
PEC	82.72	54	P	31	55.50	0.3
VTs	83.18	317	iPc	31	59.00	1.5
BEO	83.22	320	eP	31	56.50	-1.0
TPC	83.34	53	eP	31	58.00	-0.4
MOX	83.39	329	iP	31	59.00	0.8
MBH	83.51	301	iPd	31	59.60	0.3
HOF	83.52	328	iPd	31	59.50	0.6
KHC	83.63	327	eP	32	00.00	0.5
GRF	84.27	328	iPd	32	03.70	1.1
	0.9s	36.00nm				5.2mb
Z	17s	0.10um				4.3Mszx
WTS	84.35	332	eP	32	03.50	0.6
	1.0s	13.00nm				4.7mb
VAY	84.37	317	eP	32	03.40	0.1
SKO	84.58	318	iP	32	05.00	0.7
	1.7s	90.00nm				5.3mb
		i		33	20.20	320km
BHG	84.97	326	eP	32	07.00	0.8
PV09	85.04	46	P	32	07.40	0.3
ENN	85.65	332	eP	32	09.00	-0.4
	0.8s	14.00nm				4.9mb
FVI	85.84	325	P	32	09.50	-0.9
SQTA	86.10	327	iPc	32	10.40	-1.5
	0.5s	3.30nm				4.5mb
		id		32	11.60	4kmx
GOL	86.46	44	P	32	14.70	0.7
	0.7s	1.70nm				4.1mb
CTI	86.77	326	P	32	14.00	-1.1
CDF	86.93	329	eP	32	15.50	-0.3
	0.5s	2.90nm				4.5mb
BSF	87.59	329	eP	32	18.20	-0.8
SAL	87.62	326	P	32	18.50	-0.5
HAU	87.64	330	eP	32	18.40	-0.7
VAI	88.23	327	P	32	21.00	-0.9
SFI	88.24	324	Pd	32	23.50	1.5
PGD	88.34	324	P	32	24.00	1.3
CRE	88.41	324	P	32	22.50	-0.5
ALO	88.98	48	eP	32	26.00	0.1
	1.0s	2.50nm				4.1mb
LOR	89.25	331	eP	32	26.00	-0.7
	0.9s	5.75nm				4.5mb
LPL	89.41	328	eP	32	27.50	-0.3
	0.7s	6.60nm				4.7mb
LPG	89.42	328	eP	32	27.70	-0.2
	0.7s	6.60nm				4.7mb
LBF	89.43	330	eP	32	26.90	-0.7
	0.9s	5.75nm				4.5mb
SSF	89.56	331	eP	32	27.70	-0.4
	0.8s	4.70nm				4.5mb
SMF	89.76	330	eP	32	28.80	-0.3
AVF	89.84	331	eP	32	29.10	-0.3
	0.7s	6.60nm				4.7mb
GRR	90.17	334	eP	32	30.90	0.0
	0.7s	6.60nm				4.7mb
BGF	90.24	331	eP	32	30.90	-0.3

LFF 92.41 331 eP 32 41.60 0.3
0.6s 18.95nm 5.3mb
LPO 92.44 331 eP 32 41.60 0.2
0.5s 4.35nm 4.7mb
ARE 148.58 64 ePKP 39 18.00 5.0X
ZOBO 150.92 59 PKP 39 18.00 1.1
1.0s 30.00nm
LPB 151.11 60 ePKP 39 17.00 0.1
i 39 24.00
CNCB 151.38 60 PKP 39 19.00 1.5
i 39 25.20
i 40 44.00
CCH 153.07 58 (PKP) 39 35.00 15.4X
SIV 155.47 48 PKP 39 22.80 0.3
i 39 49.60
S.D. = 0.8 on 137 of 141 obs.

* NOV 05, 1990 00h 25m 44.19 ± 1.21s
22.012 S ± 11.5km 68.076 W ± 16.8km
DEPTH = 121.4 ± 21.1 km
NORTHERN CHILE (123)

ANT 2.74 232 iPd 26 27.80 0.1
iS 26 57.30
CCH 4.95 22 P 27 02.50 4.6X
5.18 1 P 27 02.50 1.3
LPB 5.45 360 P 27 06.00 1.2
ZOBO 5.71 360 P 27 08.70 0.2
ARE 6.39 329 eP 27 16.00 -1.6
eS 28 20.00
SIV 8.93 49 Pc 27 50.00 -1.7
i 29 25.20
ITB1 12.85 104 eP 28 54.00 10.6X
PPD 15.55 93 eP 29 21.70 3.7X
e 29 23.90
VAO 19.53 97 eP 30 05.40 0.7
e 30 08.20
AIA 43.30 178 eP 34 13.30 38.3X
KIC 68.10 73 P 36 33.50 0.2
LKO 68.81 70 P 36 37.42 -0.3
S.D. = 1.4 on 9 of 13 obs.

NOV 05, 1990 02h 21m 42.37 ± 1.24s
27.006 N ± 7.9km 53.440 E ± 6.0km
DEPTH = 39.8 ± 12.4 km
4.5mb (12 obs.)
SOUTHERN IRAN (353)

SHI 2.75 343 eP 22 26.00 0.8
BBU 2.78 254 iPn 22 30.50 5.0X
eSn 23 22.70
DHR 3.04 257 eP 22 44.50 15.4X
RYD 6.56 251 iPd 23 21.00 2.1
iS 24 33.50
MJMA 7.40 263 iP+ 23 28.30 -2.4
QASM 8.92 266 iP+ 23 48.70 -3.1X
AFIF 9.70 255 eP 24 07.00 4.4X
UOSK 10.01 266 iPd 24 41.30 34.5X
KMSA 10.52 233 eP 24 12.50 -1.3
DHJN 13.08 227 eP 24 49.30 0.9
PRNI 16.52 286 eP 25 38.00 5.2X
GKN 27.65 81 P 27 28.90 0.2
DMN 28.11 81 P 27 33.60 0.7
KKK 28.24 81 P 27 33.80 -0.3
PKI 28.38 81 P 27 35.00 -0.5
GUN 28.76 81 P 27 37.80 -1.1
SOTA 38.67 313 iPc 29 04.60 0.6
0.4s 12.90nm 5.1mb
id 29 04.80
NUR 38.79 338 iP 29 04.90 0.2
0.3s 4.90nm 4.8mb
SUF 39.98 341 eP 29 14.20 -0.3
0.3s 1.90nm 4.4mb
BCAO 40.16 242 ePc 29 15.00 -1.6
0.4s 4.00nm 4.5mb
LPG 41.28 309 eP 29 26.50 0.7
LPL 41.29 309 eP 29 26.60 0.8
0.9s 4.90nm 4.2mb
CHTO 42.52 91 eP 29 36.60 0.7
1.0s 2.50nm 3.9mb
HFS 42.75 332 eP 29 37.00 -0.2
0.4s 4.20nm 4.5mb
SMF 43.47 310 eP 29 42.60 -0.7
0.7s 3.30nm 4.2mb
SOD 43.56 345 eP 29 44.00 0.2
NB2 44.27 332 P 29 49.00 -0.6

CAF 0.7s 3.00nm 4.2mb
44.48 308 eP 29 52.40 0.8
1.0s 7.00nm 4.4mb
TCF 44.53 310 eP 29 51.80 -0.2
RJF 44.90 308 eP 29 55.80 0.9
LDF 46.40 312 eP 30 04.80 -1.9
FLN 46.66 313 eP 30 06.90 -1.8
1.0s 14.00nm 4.9mb
LKO 58.18 264 Pc 31 35.32 0.2
0.5s 5.50nm 4.9mb
KIC 58.85 261 P 31 40.80 1.0
TIC 58.97 261 P 31 41.70 1.1
LIC 59.17 261 Pc 31 43.00 1.1
S.D. = 1.1 on 30 of 36 obs.

% NOV 05, 1990 02h 59m 01.99 ± 1.30s
1.087 S ± 6.9km 78.320 W ± 23.6km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

TUNG 0.35 201 iP 59 09.20 -0.1
S 59 15.00
VC1 0.45 350 iP+ 59 11.00 -0.3
S 59 17.00
QUR 0.93 347 eP 59 20.10 0.0
S 59 32.20
GGP 0.95 343 Pd 59 20.30 -0.2
S 59 33.20
YANA 1.00 345 iP+ 59 20.90 -0.3
S 59 34.10
CAYA 1.21 16 eP 59 24.00 -0.8
COTA 1.41 359 eP 59 30.00 1.8
S.D. = 1.0 on 7 of 7 obs.

* NOV 05, 1990 03h 23m 04.15 ± 1.17s
38.255 N ± 12.5km 20.332 E ± 9.5km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.1 (ATH).

VLS 0.22 111 iPg 23 07.10 -1.5
EVR 1.33 60 ePg 23 29.60 0.3
KEK 1.51 344 ePn 23 35.50 3.6X
ITM 1.66 130 ePn 23 35.50 1.5
KZN 2.33 28 ePn 23 44.00 0.1
VLI 2.58 126 ePb 23 49.60 2.4X
CZI 3.42 288 P 23 58.80 -0.4
S.D. = 1.5 on 5 of 7 obs.

& NOV 05, 1990 03h 51m 47.80s
32.350 N 115.260 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.1 (PAS).

GLA 0.79 27 eP 52 01.90 -1.7
PLM 1.68 307 eP 52 15.30 -2.7
PEC 2.22 314 e(P) 52 24.20 -1.5
3 obs. associated

NOV 05, 1990 04h 40m 38.96 ± 0.61s
39.922 N ± 4.9km 22.492 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.0 (THE).

LIT 0.18 360 ePc 40 42.64 -0.4
eS 40 45.92
KZN 0.67 305 ePb 40 52.00 -0.4
AGG 0.91 188 ePc 40 56.32 0.0
eS 41 10.20
PAIG 0.91 89 ePc 40 55.92 -0.5
eS 41 08.36
SOH 1.11 36 ePc 41 00.16 0.3
EVR 1.13 208 ePb 41 00.60 0.3
eSb 41 17.00
KNT 1.28 14 ePd 41 03.32 0.7
eS 41 20.44
S.D. = 0.5 on 7 of 7 obs.

% NOV 05, 1990 05h 04m 12.06 ± 0.92s
46.381 N ± 7.6km 0.112 W ± 11.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

MFF 0.22 354 Pg 04 16.50 -0.4

LSF 1.15 96 Pg 04 19.90
Sg 04 32.10 -1.4
Sg 04 46.20
LFF 1.56 157 Pg 04 40.00 0.1
Sg 05 00.40
RJF 1.57 133 Pg 04 39.10 -0.9
Sg 04 58.70
TCF 1.61 92 Pg 04 39.80 -0.8
Sg 04 59.40
LPF 1.77 339 Pg 04 44.50 1.6
Sg 05 07.00
MAF 1.86 94 Pg 04 45.40 1.1
Sg 05 06.90
LPO 1.93 151 Pg 04 45.10 -0.1
Sg 05 11.50
BGF 2.05 84 Pg 04 49.00 2.0
Sg 05 12.20
GRR 2.07 346 Pn 04 46.20 -1.1
Pg 04 50.20
Sg 05 16.50
CAF 2.11 133 Pg 04 48.30 0.4
Sn 05 09.00
Sg 05 16.20
LDF 2.21 360 Pn 04 48.70 -0.6
Sg 05 19.30
S.D. = 1.2 on 12 of 12 obs.

& NOV 05, 1990 06h 01m 52.08s
60.183 N 152.299 W
DEPTH = 88.4km
SOUTHERN ALASKA (2)
<AGS-P>.

RED 0.33 315 iP 02 05.18 -0.6
RSO 0.36 321 iP 02 05.58 -0.6
RS2 0.36 321 iP 02 05.64 -0.5
REF 0.37 327 iP 02 05.64 -0.5
RDT 0.40 352 iP 02 05.51 -0.7
eS 02 16.52
INE 0.40 253 iP 02 05.49 -0.9
RDN 0.40 325 iP 02 05.74 -0.6
INW 0.43 255 eP 02 05.73 -0.8
iS 02 16.89
NCT 0.49 321 iP 02 06.08 -0.9
NNL 0.52 105 iP 02 07.35 0.3
HOM 0.62 148 iP 02 07.81 -0.1
eS 02 19.19
OPT 0.71 222 iP 02 08.10 -0.7
iS 02 20.94
NKA 0.77 43 iP 02 10.58 1.2
XLV 0.79 158 eP 02 08.72 -0.9
eS 02 22.31
BRLK 0.83 120 eP 02 09.24 -0.8
CNPM 0.85 140 iP 02 09.60 -0.7
eS 02 23.76
AUE 0.99 214 iP 02 10.81 -1.0
AUP 1.00 215 iP 02 11.13 -0.9
AGU 1.00 215 eP 02 11.10 -1.0
AUH 1.01 216 eP 02 11.22 -0.9
SPU 1.01 7 iP 02 11.36 -0.8
eS 02 26.55
CKL 1.02 359 iP 02 11.54 -0.7
AUI 1.02 214 eP 02 11.15 -1.1
PDB 1.03 248 iP 02 11.15 -1.2
eS 02 26.34
SLKM 1.08 72 iP 02 11.69 -1.3
BGL 1.09 358 iP 02 12.40 -0.7
CRP 1.09 4 iP 02 12.63 -0.6
CGLM 1.14 7 iP 02 13.02 -0.7
eS 02 29.12
NCG 1.23 3 eP 02 13.98 -0.8
SEW 1.43 92 eP 02 15.32 -1.9
CDD 1.43 209 iP 02 15.80 -1.5
MCNL 1.44 227 eP 02 15.86 -1.5
eS 02 34.33
SUA 1.49 30 iP 02 17.60 -0.6
SYI 1.58 182 iP 02 18.11 -1.0
PMS 1.72 50 iP 02 20.07 -1.0
SKT 1.84 11 eP 02 21.35 -1.3
SVW 1.88 301 iPd 02 21.20 -2.0
PWA 1.89 38 eP 02 22.35 -0.9
PLRM 2.10 46 eP 02 24.23 -1.8
PMR 2.10 46 ePc 02 24.20 -1.8
LTI 2.23 92 eP 02 25.51 -2.4
KNK 2.25 55 eP 02 26.24 -2.0
KNIM 2.28 84 iP 02 25.58 -3.0
GHO 2.29 44 eP 02 26.99 -1.8

05d 06h

MTU	2.34	93	eP	02 27.33	-2.0
CUT	2.44	23	eP	02 29.53	-1.1
KDC	2.44	182	eP	02 27.80	-2.9
SML	2.53	48	eP	02 30.04	-1.9
GLI	2.67	73	eP	02 30.32	-3.5
SCM	2.93	53	eP	02 35.43	-2.1
VZW	2.96	70	eP	02 34.71	-3.3
HUR	3.08	23	eP	02 35.49	-4.0
VLZ	3.09	69	eP	02 36.72	-2.9
MID	3.11	102	eP	02 38.40	-1.4
TTA	3.28	329	iPd	02 40.00	-2.3
KLU	3.39	64	iP	02 41.03	-2.8
TRF	3.42	15	eP	02 42.65	-1.7
TOA	3.54	54	iPc	02 44.10	-1.8
RND	3.62	25	eP	02 45.64	-1.5
TZL	3.82	58	eP	02 47.62	-2.1
MCK	3.90	23	eP	02 49.71	-1.2
SDG	4.01	51	eP	02 49.93	-2.5
PAX	4.30	46	eP	02 45.33	-2.1
GLB	4.34	69	eP	02 53.20	-3.9
NEA	4.66	17	eP	02 58.78	-2.6
TGL	4.72	79	eP	02 59.47	-2.9
WRH	4.73	23	eP	02 59.52	-2.8
HDA	4.92	28	eP	03 02.34	-2.6
CCB	4.94	23	eP	03 02.36	-2.9
BALM	4.98	76	eP	03 01.70	-4.3
MDM	5.15	20	eP	03 05.65	-2.6
FBA	5.17	22	ePc	03 05.90	-2.6
YAH	5.26	83	eP	03 07.00	-2.9
GLM	5.33	23	eP	03 07.73	-3.0
SIT	9.39	102	e(P)	04 02.60	-3.7
INK	11.48	37	eP	04 33.00	-1.4

76 obs. associated

& NOV 05, 1990 07h 16m 52.40s
38.033 N 119.168 W
DEPTH = 10.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 4.2 (BRK).
Mo=2.4*10**15 Nm (BRK). Felt
(IV) at Bridgeport, Lee Vining
and Mono City; (III) at Murphys;
(II) at Mammoth Lakes,
California.

MNA	0.89	63	iPc	17 08.70	-0.9
CMB	0.96	270	iP	17 09.80	-0.9
FRI	1.12	203	iP	17 12.90	-0.6
KVN	1.32	39	iPd	17 16.20	-0.7
TNP	1.54	88	iPc	17 19.20	-0.9
ARN	2.00	251	eP	17 27.10	0.5
LLA	2.00	226	iPd	17 27.30	0.7
MHC	2.08	251	iPc	17 28.90	1.0
PKEM	2.11	201	eP	17 30.00	1.8
SAO	2.21	236	iPc	17 30.50	0.8
PRI	2.24	213	iPd	17 31.30	1.2
ORV	2.37	311	iPc	17 33.20	1.2
PHAM	2.40	205	eP	17 33.20	0.5
BKS	2.43	267	iP	17 33.30	0.5
			iS	18 05.50	
ZSP	2.44	269	eP	17 33.70	0.8
PRS	2.44	227	iPc	17 33.80	0.8
BRK	2.45	267	ePd	17 34.40	1.4
GCC	2.46	247	iPc	17 33.50	0.3
PCC	2.60	259	eP	17 35.50	0.3
BCH	2.94	195	eP	17 40.10	0.0
NWRM	2.96	279	eP	17 40.00	-0.2
MIN	2.99	321	iPd	17 45.80	5.0
LTCM	3.16	314	eP	17 45.40	2.2
ABL	3.18	181	eP	17 43.80	0.2
BLP	3.61	196	eP	17 50.50	1.0
PEC	4.44	158	eP	18 03.30	1.9
PLM	5.03	157	eP	18 11.00	1.1
DUG	5.39	64	eP	18 13.00	-2.0
MSU	5.52	83	e(P)	18 27.50	10.6
DAU	6.59	66	eP	18 31.70	-0.3
BW06	8.73	54	eP	18 59.00	-2.8

31 obs. associated

& NOV 05, 1990 07h 18m 03.00s
38.033 N 119.167 W
DEPTH = 10.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.2 (BRK). Hypocenter
assumed from previous event
(BRK).

MNA	0.89	63	eP	18 20.00	-0.2
CMB	0.96	270	iP	18 20.10	-1.2
			iS	18 32.00	
FRI	1.13	203	iP	18 23.80	-0.3
KVN	1.32	39	e(P)	18 27.50	0.0
MHC	2.08	251	iP	18 40.80	2.3
			iS	19 06.00	
PRI	2.24	213	eP	18 46.80	6.1
			eS	19 14.20	

6 obs. associated

* NOV 05, 1990 08h 07m 45.80±1.01s
46.871 N ±19.1km 150.433 E ±17.9km
DEPTH = 130.0km (geophysicist)
4.5mb (12 obs.)

KURIL ISLANDS (221)

MAT	13.76	226	eP	10 57.00	0.5X
FBA	37.21	38	eP	14 47.10	1.6
	0.5s		0.30nm		3.4mb X
INK	42.53	32	eP	15 30.00	0.7
MBC	45.11	20	eP	15 50.00	0.1
CHG	50.37	254	eP	16 32.80	1.4
CHTO	50.37	254	iP	16 32.80	1.4
	0.7s		7.47nm		4.6mb
GUN	53.16	273	P	16 52.60	0.0
KKN	53.64	273	P	16 56.60	0.5
	0.5s		13.00nm		5.1mb
PKI	53.69	273	P	16 56.60	0.0
DMN	53.88	273	P	16 58.00	0.2
GKN	53.95	274	P	16 58.40	0.1
	0.4s		16.00nm		5.3mb
SOD	58.46	338	iP	17 28.40	-1.2
NB2	67.50	340	P	18 27.10	-2.2
	0.5s		1.90nm		4.2mb
HFS	67.68	338	eP	18 27.70	-2.6
	0.5s		5.60nm		4.7mb
WRA	68.07	196	P	18 31.00	-2.1
	0.5s		3.70nm		4.5mb
GBA	68.59	267	P	18 36.00	-0.5
FLN	81.45	341	eP	19 49.10	0.0
	0.6s		4.50nm		4.4mb
GRR	81.88	341	eP	19 51.00	-0.4
	0.5s		2.90nm		4.3mb
LPL	82.61	335	eP	19 56.70	1.1
	0.5s		2.55nm		4.3mb
LPG	82.63	335	eP	19 57.00	1.3
	0.6s		3.60nm		4.4mb
MAF	83.10	338	eP	19 58.20	0.4
	0.9s		9.00nm		4.6mb
CAF	84.43	338	eP	20 05.00	0.4
	0.6s		3.15nm		4.4mb

S.D. = 1.3 on 21 of 22 obs.

% NOV 05, 1990 09h 01m 58.91±1.69s
39.801 N ±13.9km 27.358 E ±8.5km
DEPTH = 7.3km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

KGT	0.65	356	iPg	02 11.40	-0.6
BNT	0.70	38	iPg	02 13.70	0.7
EZN	0.80	272	iPg	02 14.70	0.1
			iSg	02 23.70	
KCT	0.89	59	iPn	02 15.70	-0.5
MFT	0.99	357	ePn	02 18.20	0.3

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

? NOV 05, 1990 09h 16m 20.26±0.99s
46.013 N ±12.6km 14.478 E ±7.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (LJU).

LJU	0.05	51	iPg	16 22.00	-0.4
			iSg	16 24.90	
VOY	0.41	273	ePg	16 29.30	0.7
			eSg	16 37.90	
TRI	0.58	239	eP	16 31.30	-0.8
			i	16 42.50	
VBY	0.75	133	eP	16 35.20	0.3
			iSg	16 38.10	

S.D. = 1.2 on 4 of 4 obs.

& NOV 05, 1990 09h 28m 15.61s
63.320 N 151.539 W
DEPTH = 42.0km

CENTRAL ALASKA (1) <AGS-P>.

TRF	0.58	76	eP	28 27.13	-0.6
			eS	28 36.62	
HUR	0.93	111	eP	28 32.77	0.4
			eS	28 45.08	
CUT	1.09	147	eP	28 34.39	-0.2
			eS	28 49.01	
RND	1.21	85	eP	28 36.10	-0.4
MCK	1.24	69	eP	28 36.65	-0.1
BWN	1.26	46	eP	28 37.09	0.1
SKT	1.34	180	eP	28 37.20	-1.1
			eS	28 55.79	
PWA	1.84	155	eP	28 45.80	0.5
SUA	1.90	168	eP	28 46.78	0.5
NCG	1.95	189	eP	28 46.01	-0.9
GHO	1.97	141	eP	28 47.90	0.7
CGLM	2.03	186	eP	28 48.37	0.3
PLRM	2.06	146	eP	28 49.28	0.8
BGL	2.10	191	eP	28 49.22	0.1
CCB	2.12	49	eP	28 47.48	-1.7
SPU	2.16	187	eP	28 48.41	-1.5
PMS	2.28	155	iP	28 52.10	0.5
KNK	2.39	142	eP	28 53.16	0.0
RDT	2.79	189	eP	28 59.33	0.5
NCT	2.85	194	eP	29 01.87	2.1

20 obs. associated

? NOV 05, 1990 10h 26m 21.75±0.93s
37.029 N ±8.8km 29.358 E ±10.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.52	122	iPg	26 31.80	-0.6
			eSg	26 39.30	
KSL	0.93	169	ePb	26 40.00	0.6
			eSb	27 01.00	
BCK	1.07	66	iPn	26 47.20	5.2X
CIN	1.16	300	ePg	26 43.00	-0.5
			iSg	27 01.00	
KHL	1.30	6	iPn	26 46.30	0.4
ALT	2.11	16	ePn	27 01.00	3.4X
KAP	2.30	231	ePn	27 05.50	5.2X

S.D. = 1.0 on 4 of 7 obs.

? NOV 05, 1990 11h 24m 13.60±4.13s
33.050 S ±15.9km 71.882 W ±32.4km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

LCCH	0.50	148	iPc	24 24.20	0.0
			iS	24 30.00	
ROCH	0.74	84	iPd	24 27.00	-0.8
			iS	24 36.00	
LNK	0.99	157	iPc	24 31.00	-0.1
			iS	24 43.00	
TACH	0.99	128	iPd	24 31.10	-0.2
			iS	24 42.50	
PEL	1.01	96	iPd	24 31.50	0.0
			iS	24 41.50	
SAN	1.10	112	iPd	24 32.70	-0.1
			iS	24 46.00	
JACH	1.15	72	iPc	24 33.90	0.4
			iS	24 47.20	
PCH	1.28	117	iPd	24 35.50	0.1
			iS	24 50.80	
CHCH	1.35	131	iPd	24 36.60	0.2
			iS	24 53.50	
FCH	1.36	102	iPd	24 37.10	0.3
			iS	24 54.00	
MDZ	2.55	87	iP	24 59.50	5.8X
			iS	25 31.60	

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

* NOV 05, 1990 12h 33m 56.02±1.03s
51.912 N ±19.2km 174.955 E ±10.1km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)

NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	0.97	328	iPc	34 14.70	1.4
			e(S)	34 27.00	
ADK	5.18	87	eP	35 13.80	0.6
TTA	18.94	43	e(P)	38 18.00	1.5
KDC	19.51	60	e(P)	38 19.50	-3.5X
IMA	21.17	36	e(P)	38 39.50	-0.9

	0.7 s	50.00nm			
CDF	145.38	337 ePKP	42	29.70	-1.0
	1.0 s	38.00nm			
CTI	145.40	331 PKP	42	30.50	-0.4
FEL	145.54	336 ePKP	42	30.30	-0.8
LCI	145.55	318 PKP	42	31.50	0.4
BSF	146.04	337 ePKP	42	31.50	-0.4
HAU	146.06	338 ePKP	42	31.60	-0.2
	1.0 s	28.00nm			
Z	21 s	0.22um			4.9MsZ
SAL	146.26	331 PKP	42	33.00	0.9
MDI	146.50	332 PKP	42	35.00	2.5X
ARV	146.57	326 PKP	42	34.50	1.7
ORI	146.66	318 PKP	42	37.50	4.5X

VAI 146.84 333 PKP 42 34.00 1.0

CSI	146.92	318	PKP	42	33.70	0.3
PGD	146.94	328	PKP	42	36.00	2.5X
TDS	146.96	318	PKPd	42	36.00	2.5X
CRE	147.00	327	PKP	42	35.50	2.0X
ASS	147.01	326	PKP	42	35.50	2.0X

MGR	147.18	319	PKP	42	37.00	3.2X
MME	147.22	329	PKP	42	37.00	2.9X
SDI	147.27	323	PKP	42	36.00	2.0X
CZI	147.33	317	PKP	42	33.70	-0.3
BDI	147.37	329	PKP	42	35.00	0.9
BOB	147.39	331	PKP	42	36.50	2.4X
FLN	147.43	346	ePKP	42	35.10	1.2
	1.0s	16.00nm				
Z	22s	0.45um			5.2MsZ	
LOR	147.56	340	ePKP	42	35.70	1.5
	1.3s	32.50nm				
Z	20s	0.28um			5.0MsZ	
LBF	147.77	339	ePKP	42	36.40	1.8
	1.1s	23.20nm				
SSF	147.85	340	ePKP	42	36.70	2.0X
	0.9s	18.85nm				
RDP	147.86	324	PKP	42	38.00	3.1X
LPL	147.98	335	ePKP	42	37.80	2.6X
	0.8s	8.75nm				

LPG	147.99 0.8s	335 ePKP 8.75nm	42 37.80	2.5X
SMF	148.11 1.1s	339 ePKP 19.55nm	42 37.40	2.3X
AVF	148.14 1.0s	340 ePKP 14.00nm	42 37.40	2.3X
LPF	148.25 1.0s	346 ePKP 20.00nm	42 37.80	2.6X

BNI	148.38	334	ePKP	42	39.30	3.5X
BGF	148.51	340	ePKP	42	38.40	2.6X
	1.0s		15.00nm			
MAF	148.90	340	ePKP	42	39.80	3.4X
TCF	148.96	341	ePKP	42	39.60	3.1X
SBF	149.00	332	ePKP	42	39.40	2.7X
	0.8s		17.45nm			
LSF	149.20	341	ePKP	42	39.90	3.1X
	1.1s		18.30nm			
PGF	149.27	329	ePKP	42	40.20	3.0X
	1.2s		62.50nm			
MFF	149.36	344	ePKP	42	40.40	3.4X
	1.0s		14.00nm			
FRF	149.59	333	ePKP	42	41.10	3.6X
	1.1s		34.20nm			
LRG	149.80	333	ePKP	42	41.80	4.0X
Z	21s		0.30um			5.1msz
LMR	149.83	333	ePKP	42	41.60	3.8X
	1.1s		34.20nm			
CDR	149.88	334	iPKP	42	30.80	-7.1X
RJF	150.05	341	ePKP	42	42.10	4.0X
	0.9s		9.85nm			
Z	20s		0.32um			5.1msz
CAF	150.21	340	ePKP	42	43.00	4.6X

LFF	150.62	341	ePKP	42	43.60	4.6X
	0.9s		11.45nm			
LPO	150.71	341	ePKP	42	44.00	4.9X
	0.9s		73.70nm			
S.D. = 1.1 on 69 of 113 obs.						
<hr/>						
%	NOV	05,	1990	13h	24m	22.33±1.00s
	39.124	N	± 7.0km			27.605 E ±11.9km
DEPTH = 10.0km (geophysicist)						
TURKEY						(366)
MD 2.6 (ISK).						
<hr/>						
IZM	0.77	200	iPg	24	37.40	0.0
			iSg	24	50.90	

05d 13h

EZN 1.21 306 ePn 24 45.00 0.1
 EDC 1.24 9 ePn 24 45.00 -0.3
 KCT 1.26 27 iPn 24 46.10 0.3
 KGT 1.35 350 ePn 24 47.10 0.0
 S.D. = 0.3 on 5 of 5 obs.

? NOV 05, 1990 13h 27m 13.76±7.88s
 39.562 N ±55.1km 29.528 E ±20.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.4 (ISK).

IZI 0.78 357 iPg 27 27.60 -1.3
 eSg 27 37.60
 YLV 1.01 353 iPn 27 33.60 0.7
 EYL 1.11 26 ePn 27 34.60 -0.1
 KCT 1.13 308 iPn 27 35.00 0.0
 HRT 1.26 5 ePn 27 38.00 0.8
 S.D. = 1.2 on 5 of 5 obs.

* NOV 05, 1990 15h 34m 13.22±0.46s
 43.651 S ±12.1km 16.157 W ±11.9km
 DEPTH = 10.0km (geophysicist)

5.3mb (17 obs.) 5.2msz (4 obs.)
 SOUTH ATLANTIC RIDGE (410)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 31C

Centroid Location:

Origin Time 15:34:20.2 0.3

Lat 43.65S 0.05 Lon 16.17W 0.03

Dep 15.0 FIX Half-duration 1.8

Moment Tensor; Scale 10¹⁷ Nm

Mrr=-1.18 0.05 Mtt=0.07 0.08

Mff=1.11 0.05 Mrt=0.00 0.00

Mrf=0.00 0.00 Mtf=-0.09 0.05

Principal Axes:

T Vol=1.11 Plg=0 Azm=265

N 0.06 0 175

P -1.18 90 180

Best Double Couple:Ma=1.1×10¹⁷

NP1:Strike=355 Dip=45 Slip=-90

NP2: 175 45 -90

BAO 38.89 306 ePd 41 42.40 1.7
 SLR 40.14 78 iPd 41 50.00 -1.1

Z 17s 6.46um 5.5mszX

BUL 43.97 72 iPc 42 20.50 -2.0

1.2s 15.63nm 4.7mb

SPA 46.54 180 iPd 42 42.80 0.3

1.4s 39.22nm 5.3mb

SIV 46.94 292 P 42 43.60 -2.4

KIC 50.84 15 P 43 14.00 -2.0

1.2s 15.00nm 4.8mb

CNCB 51.14 285 P 43 13.00 -6.0X

LPB 51.41 285 (P) 43 13.00 -7.9X

ZOBO 51.61 285 P 43 19.00 -3.6X

Z 24s 1.03um 4.8mszX

S 50 46.00

LR 58 10.00

LKO 53.81 13 P 43 35.10 -3.1X

1.7s 46.00nm 5.2mb

ARE 53.85 282 eP 43 37.00 -2.0

BCAO 57.16 42 iPc 44 00.70 -1.9

1.0s 26.00nm 5.2mb

SBA 58.76 181 e(P) 44 14.10 1.0

TOL 83.87 9 eP 46 47.00 3.1X

EPF 87.55 12 iPc 47 03.00 0.9

1.6s 49.75nm 5.5mb

RYD 89.08 54 eP 47 11.00 1.1

MJMA 89.18 52 eP 47 12.00 1.7

LPO 89.30 12 eP 47 11.00 0.6

LFF 89.48 12 iPc 47 11.90 0.7

1.3s 46.95nm 5.6mb

CAF 89.67 13 eP 47 13.00 0.8

1.3s 21.65nm 5.2mb

RJF 89.96 12 iPc 47 14.10 0.7

1.3s 32.50nm 5.4mb

Z 22s 0.85um 5.1msz

LSF 90.88 12 iPc 47 18.60 0.9

1.0s 18.00nm 5.3mb

MAF 91.02 13 eP 47 19.20 0.9

1.3s 19.85nm 5.3mb

TCF 91.02 13 iPc 47 19.30 0.9

1.5s 28.75nm 5.4mb

LPG 91.07 16 eP 47 19.50 0.5

1.3s 18.05nm 5.2mb

LPL 91.08 16 eP 47 19.40 0.5

1.3s 27.10nm 5.4mb

SMF 91.64 14 iPc 47 21.70 0.5

SKO 91.68 27 iPc 47 20.50 -1.0

AVF 91.70 13 iPc 47 22.20 0.8

1.1s 14.65nm 5.3mb

SSF 91.99 13 eP 47 23.00 0.3

1.0s 8.00nm 5.0mb

LBF 91.99 14 iPc 47 22.90 0.1

1.1s 9.75nm 5.1mb

LOR 92.25 13 eP 47 24.10 0.1

Z 22s 0.82um 5.1msz

WMO 126.90 61 PKP 53 17.50 -1.0

GTA 132.94 72 ePKP 53 28.50 -1.7

Z 20s 0.50um 5.2msz

MBC 135.03 341 ePKP 53 33.00 0.1

XAN 136.86 84 PKP 53 34.00 -3.7X

INK 139.69 329 ePKP 53 37.00 -4.7X

TIY 141.08 81 ePKP 53 40.00 -5.3X

SSE 144.24 96 PKP 53 52.00 1.2

BJI 144.69 79 ePKP 53 49.00 -2.3X

TOA 145.74 320 ePKP 53 52.40 -0.1

FBA 145.88 325 ePKP 53 51.60 -1.0

PMR 147.21 320 ePKP 53 57.10 2.3X

1.4s 55.20nm

IMA 147.82 329 ePKP 53 58.30 2.4X

1.5s 27.40nm

TTA 149.94 324 ePKP 54 02.80 3.6X

SNY 150.57 79 ePKP 54 03.00 2.4X

CN2 152.42 76 ePKP 54 03.00 -0.3

Z 20s 0.60um 5.4msz

S.D. = 1.2 on 34 of 47 obs.

* NOV 05, 1990 15h 50m 34.28±0.52s

11.229 S ±9.4km 112.655 E ±16.3km

DEPTH = 33.0km (normol)

4.2mb (3 obs.)

SOUTH OF JAVA (282)

TRT 3.50 360 iPc 51 26.70 -1.1

iS 52 05.50

NANU 11.60 167 eP 53 18.20 -2.4

eS 55 18.00

MBL 12.04 146 eP 53 22.50 -4.1X

eS 55 24.00

MRWA 18.17 171 eP 54 46.50 0.8

eS 57 55.00

IPM 19.51 323 ePc 55 02.40 0.5

BAL 19.65 170 eP 55 06.00 2.7X

WARB 19.89 140 eP 55 07.00 1.0

0.3s 4.00nm 4.2mb

eS 58 34.00

KLB 20.81 168 eP 55 20.70 5.3X

MUN 20.91 172 eP 55 27.00 10.6X

eS 58 57.00

COOL 21.08 159 eP 55 24.50 6.2X

0.3s 5.00nm 4.5mb

eS 58 57.00

NWAO 22.00 170 eP 55 38.30 10.9X

WB5 22.60 115 eP 55 34.20 0.7

CHG 32.77 335 eP 57 07.00 0.3

CHTO 32.77 335 eP 57 05.00 -1.7

0.9s 1.28nm 3.8mb

GBA 42.77 304 P 58 31.30 0.7

PKI 46.75 326 P 59 03.20 0.4

GUN 46.76 327 P 59 03.00 0.1

DMN 46.94 326 P 59 04.20 0.0

KKN 46.99 326 P 59 05.00 0.4

GKN 47.51 326 P 59 08.80 0.2

LZH 47.79 350 (P) 59 15.50 4.8X

SOB1 146.77 233 ePKP 10 17.10 3.3X

ZOBO 152.67 178 PKP 10 34.00 10.6X

S.D. = 1.1 on 14 of 23 obs.

& NOV 05, 1990 16h 05m 10.32s

61.462 N 146.712 W

DEPTH = 21.0km

SOUTHERN ALASKA (2)

<AGS-P>. ML 3.3 (PMR).

VLZ 0.38 151 iP 05 17.91 -0.4

eS 05 24.73

KLU 0.38 85 iP 05 18.11 -0.3

VZW 0.41 169 iP 05 18.47 -0.5

eS 05 25.62

SCM 0.47 322 iP 05 19.70 -0.3

GLI 0.61 198 iP 05 27.47

eS 05 21.31 -1.0

TOA 0.69 21 iPd 05 22.80 -0.9

KNK 0.84 267 iP 05 25.13 -1.0

eS 05 36.79

TZL 0.85 46 iP 05 24.97 -1.3

SML 0.85 295 iP 05 24.70 -1.6

eS 05 36.93

CVA 1.03 153 iP 05 27.72 -1.6

HIN 1.07 174 eP 05 28.43 -1.7

GHO 1.10 287 iP 05 28.75 -1.8

eS 05 44.01

PLRM 1.17 277 iP 05 29.80 -1.6

eS 05 45.48

PMR 1.17 277 iPc 05 29.90 -1.5

SDG 1.20 27 eP 05 29.76 -2.2

eS 05 45.45

SGAM 1.21 142 iP 05 29.87 -2.2

eS 05 47.28

KNIM 1.22 205 eP 05 30.29 -2.0

eS 05 45.74

PMS 1.39 262 iP 05 33.51 -1.1

eS 05 50.24

GLB 1.39 90 iP 05 32.06 -2.6

eS 05 50.04

RAGM 1.47 136 eP 05 33.78 -2.0

PWA 1.53 279 iP 05 35.20 -1.3

LTl 1.53 202 iP 05 34.64 -2.0

eS 05 56.32

MTU 1.55 198 eP 05 34.96 -1.9

PAX 1.62 20 eP 05 35.86 -2.2

HMT 1.65 132 eP 05 36.35 -2.0

KAIM 1.91 143 eP 05 39.59 -2.5

SEW 1.91 226 eP 05 39.87 -2.2

CUT 1.93 301 iP 05 41.49 -0.9

SUA 1.94 272 eP 05 41.08 -1.5

SLKM 1.96 242 eP 05 41.38 -1.5

TGL 2.01 109 eP 05 40.87 -2.9

HUR 2.05 319 eP 05 42.69 -1.4

WAX 2.14 117 eP 05 42.47 -3.0

BALM 2.15 100 iP 05 42.65 -3.1

RND 2.19 334 eP 05 44.62 -1.6

SKT 2.35 285 eP 05 46.34 -2.1

MCK 2.50 337 eP 05 49.50 -1.1

CGLM 2.55 269 eP 05 48.78 -2.6

SPU 2.59 266 eP 05 49.80 -2.1

TRF 2.60 322 eP 05 49.94 -2.2

NCG 2.62 271 eP 05 50.03 -2.3

CRP 2.63 268 eP 05 51.35 -1.2

NNL 2.66 240 eP 05 51.46 -1.4

WRG 2.71 120 eP 05 50.88 -2.6

CKL 2.73 267 eP 05 50.79 -3.1

BGL 2.74 268 eP 05 51.48 -2.6

RDT 2.91 255 eP 05 53.54 -2.9

HDA 2.96 358 eP 05 56.01 -1.0

CNPM 2.96 231 eP 05 54.49 -2.6

REF 3.08 254 eP 05 56.03 -2.9

MFF	21.32	129	eP	25	16.10	-0.1	CMB	32.62	318	ePc	27	16.50	1.6	OFUJ	5.58	6	eP	31	18.60	
LOR	22.24	122	eP	25	25.40	-0.1	LRM	34.01	336	ePc	27	28.00	0.9				eS	30	36.30	-2.7
	0.9s	12.30nm			4.4mb				e	27	51.80						eS	31	36.20	
Z	20s	0.40um			3.8msz		SES	37.41	341	ePc	27	55.30	-0.2	TKSJ	5.72	276	eP	30	41.60	0.5
SSF	22.28	123	eP	25	25.40	-0.4	NEW	37.88	334	P	27	59.00	-0.5	YONJ	6.37	287	P	30	50.80	0.8
	1.1s	17.10nm			4.4mb			1.0s	16.88nm			4.8mb		AOMJ	7.03	357	eP	30	57.90	-1.3
TCF	22.44	126	eP	25	27.50	0.0	FFC	39.46	352	eP	28	12.00	-0.4	SHNJ	8.17	277	eP	31	15.20	0.4
	0.9s	9.00nm			4.2mb			0.5s	8.00nm			4.8mb		KUMJ	8.51	266	P	31	20.20	0.6
AVF	22.45	124	eP	25	27.10	-0.4	PNT	39.76	333	iP	28	16.00	1.0	KAGJ	8.78	257	P	31	25.00	1.7
	1.2s	14.90nm			4.3mb			0.6s	9.00nm			4.7mb		CN2	15.81	315	eP	33	01.40	5.2X
BGF	22.45	125	eP	25	27.40	-0.1	ZOBO	40.35	141	P	28	21.00	0.2	WHN	22.68	270	eP	34	13.20	0.5
	1.1s	25.65nm			4.6mb		LPB	40.57	141	(P)	28	22.00	-0.4	TIY	23.47	288	eP	34	22.60	2.2
LBF	22.52	122	eP	25	28.00	-0.3	EDM	40.58	341	iPc	28	21.40	-0.3	Z	22s	0.50um			3.9msz	
	1.1s	13.45nm			4.3mb		CNCB	40.85	141	P	28	26.00	1.1	XAN	26.53	280	P	34	48.00	-1.3
HAU	22.63	117	eP	25	28.90	-0.4	SIV	44.77	133	P	28	55.60	-0.5	CD2	31.42	276	P	35	31.10	-2.0
	0.9s	11.45nm			4.4mb				i	29	19.40		GTA	33.34	292	eP	35	48.80	-1.0	
Z	20s	0.22um			3.6msz		YKA	49.04	347	eP	29	27.10	-1.8	CHTO	40.12	259	eP	36	46.90	-0.1
MAF	22.63	126	eP	25	29.70	0.4		0.8s	7.40nm			4.6mb			1.0s	1.25nm			3.8mb	
	0.9s	8.20nm			4.2mb		INK	58.41	344	eP	30	37.00	-0.4	WMO	42.14	300	P	37	04.50	1.1
CDF	22.68	116	eP	25	29.40	-0.5	PMR	60.30	333	P	30	50.80	0.3	GUN	47.17	279	P	37	44.00	-0.2
	0.8s	5.35nm			4.1mb			0.8s	10.52nm			4.9mb		PKI	47.68	278	P	37	47.40	-0.8
SMF	22.75	123	eP	25	30.40	-0.1	FBA	61.15	337	P	30	55.50	-0.8	KKN	47.71	279	P	37	47.60	-0.7
	1.0s	16.00nm			4.5mb			1.0s	18.50nm			5.0mb		DMN	47.92	279	P	37	47.80	-2.2
CLL	22.97	103	eP	25	37.00	4.4X			pP	31	16.00	101kmX		GKN	48.16	279	P	37	51.20	-0.5
RJF	23.03	128	eP	25	34.20	0.9	MBC	62.02	353	ePc	31	01.00	-0.9	WB5	53.47	188	iPc	38	30.80	-0.7
	0.7s	6.60nm			4.3mb			1.0s	6.00nm			4.5mb		WRA	53.54	188	P	38	31.00	-1.0
Z	21s	0.35um			3.8msz		TTA	63.79	333	P	31	12.50	-1.3		0.6s	83.50nm			5.9mb	X
LPO	23.45	130	eP	25	38.50	1.2		1.0s	17.00nm			4.9mb		OIS	53.79	182	iPc	38	33.30	-0.6
	1.0s	10.00nm			4.3mb				pP	31	39.00	107kmX		INK	57.71	26	eP	39	03.00	1.4
KHC	24.81	106	eP	25	55.60	5.1X	CDR	85.61	46	eP	33	31.30	12.5X	HYB	57.74	270	eP	39	01.00	-1.6
MBC	31.28	333	eP	26	49.00	0.1			e	33	49.80		MBL	57.97	203	eP	39	03.40	-0.5	
YKA	38.09	311	eP	27	45.60	-1.7	FORR	139.43	241	ePKP	39	51.70	-16.2X		0.3s	4.00nm			5.0mb	
	0.9s	1.70nm			3.8mb			0.4s	50.00nm				MBC	60.01	16	ePd	39	19.00	1.6	
FBA	45.75	330	eP	28	50.20	0.3	BDT	145.04	339	ePKP	40	17.80	-0.2	GBA	60.57	267	Pc	39	21.30	-0.7
IMA	45.99	334	eP	28	52.20	0.2	COOL	145.20	238	ePKP	40	02.00	-16.0X		0.7s	2.30nm			4.4mb	
	1.1s	6.40nm			4.5mb		HYB	146.04	14	iPKPd	40	20.00	0.2	WARB	60.91	195	iPc	39	24.30	0.2
TOA	47.76	327	eP	29	06.30	0.4		1.0s	35.00nm						0.5s	22.00nm			5.5mb	
PMR	48.91	329	eP	29	14.80	0.1	NWAO	147.57	233	iPKPc	40	21.30	-0.5	YKA	67.06	29	eP	40	03.20	-0.6
TTA	49.25	333	eP	29	17.30	-0.1	KLB	147.69	235	ePKP	40	12.00	-10.0X		1.0s	1.90nm			4.0mb	
SVW	50.81	332	eP	29	27.30	-2.0	MUN	148.75	234	ePKP	40	18.00	-5.7X	SOD	68.04	338	eP	40	23.00	13.1X
LKO	55.09	157	P	30	00.88	-0.7		0.5s	27.00nm				DAG	69.24	355	iPc	40	18.10	1.0	
GKN	73.40	61	P	32	02.80	1.5			e	40	47.00			0.7s	6.85nm			4.7mb		
KKN	73.84	60	P	32	05.60	1.6	GBA	149.39	18	PKP	40	26.00	0.9	NUR	72.85	332	eP	40	56.00	17.0X
DMN	73.93	61	P	32	07.00	2.4	S.D. = 1.2	an	40	af	46	abs.	SES	75.13	39	eP	40	54.00	1.5	
GUN	73.97	60	P	32	07.00	2.1	NOV 05, 1990 17h 21m 20.89 ± 1.32s						FFC	76.89	32	eP	40	56.00	-6.2X	
PKI	74.09	60	P	32	07.40	1.9	40.175 N ± 15.6km							1.3s	23.00nm			5.0mb		
S.D. = 1.2	an	31	af	33	abs.		DEPTH = 10.0km (geophysicist)						LRM	76.96	43	eP	41	05.50	2.3	
NOV 05, 1990 17h 20m 52.79 ± 0.66s						ALBANIA (391)								e				41	22.30	
15.775 N ± 8.2km						MD 2.9 (ATH).							HFS	77.11	336	eP	41	00.50	-2.8	
93.234 W ± 8.4km														1.0s	6.60nm			4.5mb		
DEPTH = 121.9 ± 6.3 km													NB2	77.25	337	P	41	05.20	1.0	
4.7mb (12 abs.)														0.8s	4.10nm			4.4mb		
NEAR COAST OF CHIAPAS, MEXICO (69)													PRU	84.25	329	eP	41	48.00	6.7X	
SCX	1.12	31	iPc	21	17.12	0.7	TPE	0.44	74	ePg	21	29.00	-0.9	KHC	85.30	328	eP	41	48.50	1.9
			iS	21	33.58		KEK	0.53	150	ePb	21	36.60	5.0X	ZOBO	148.72	64	ePKP	48	56.00	1.7
TPX	1.28	133	iP	21	18.01	-0.2			eSb	21	48.00					i		49	00.00	
			iS	21	35.83		BERA	0.65	35	iPg	21	30.80	-3.0X	LPB	148.90	64	ePKP	49	04.00	9.6X
EVV	3.35	323	iPc	21	42.06	-2.4	LSK	0.88	91	ePg	21	39.00	1.2	CNCB	149.16	64	PKPc	49	02.20	7.2X
			(S)	22	14.00		KBN	1.13	66	ePg	21	41.00	-1.0	SIV	153.58	54	PKPc	49	10.40	9.6X
OXX	3.59	292	iP	21	48.01	0.1	LCL	1.16	278	P	21	42.30	-0.3	S.D. = 1.3	an	45	af	53	abs.	
			(S)	22	17.41				eSg	21	58.60									
LVVM	4.99	323	(P)	21	41.83	-24.9X	TIR	1.21	15	ePg	21	44.00	0.6	NOV 05, 1990 17h 33m 05.72 ± 0.46s						
IISM	5.08	310	iP	22	06.73	-1.2	OHR	1.38	47	ePn	21	46.60	0.3	43.910 N ± 4.1km						
IIT	5.82	304	iP	22	20.32	1.9	KZN	1.78	85	ePn	21	55.00	3.1X	7.715 E ± 3.7km						
PPM	6.10	303	iP	22	24.05	1.6	SKO	2.34	39	ePn	22	18.00	18.0X	DEPTH = 10.0km (geophysicist)						
ACX	6.45	281	iP	22	25.12	-1.7	S.D. = 1.1	an	6	af	10	abs.		NEAR SOUTH COAST OF FRANCE (379)						
ILI	6.50	294	iP	22	28.26	0.7	NOV 05, 1990 17h 29m 16.79 ± 1.37s							ML 2.3 (LDG), 2.3 (GEN).						
UYO	18.35	357	iPc	24	59.00	-1.6	33.526 N ± 9.0km													
MEO	19.53	347	iPd	25	12.10	-1.0	140.898 E ± 9.1km													
SIO	20.08	353	eP	25	21.30	2.5	DEPTH = 74.1 ± 10.7 km													
TUL	20.18	354	eP	25	22.20	2.4	4.6mb (10 obs.)													
	1.3s	111.70nm			5.1mb		SOUTH OF HONSHU, JAPAN (211)							IMI	0.13	90	P	33	09.24	0.4
		eLg	29	05.20											S			33	11.70	
RLO	20.37	356	e(P)	25	20.70	-1.0	KAKJ	2.74	348	P	29	59.30	0.0	SBF	0.21	257	Pg	33	10.20	-0.1
ALO	22.47	331	eP	25	43.50	0.7			S	30	32.10				Sg			33	13.30	
	0.9s	14.71nm			4.4mb		CHJJ	2.96	329	iPd	30	02.20	-0.3	ENR	0.38	326	P	33	13.05	-0.5
		eP	26	05.00	101kmX				S	30	37.10							33	17.76	
ANMO	22.48	331	P	25	43.50	0.7	IIDJ	3.14	309	iPd	30	06.30	1.3	ROB	0.40	16	P	33	13.7	

05d 17h

LRG 1.08 246 Sg 33 39.20
Pg 33 26.50 0.4
Sg 33 41.30
PGF 1.65 145 Pn 33 34.20 -0.8
Sn 33 53.00
LPG 1.73 337 Pg 33 37.40 1.1
LPL 1.75 337 Pg 33 37.60 1.1
S.D. = 0.7 on 14 of 14 obs.

? NOV 05, 1990 19h 13m 31.03 ± 2.78s
34.948 N ± 25.8km 23.071 E ± 13.9km
DEPTH = 33.0km (normal)

CRETE (370)
MD 3.5 (ATH).

VAM 1.03 63 iPg 13 49.20 0.0
VLI 1.77 356 ePg 14 01.00 1.2
NPS 2.11 81 ePg 14 13.50 8.8X
ITM 2.41 338 ePg 14 15.60 6.6X
APE 2.91 43 ePb 14 19.00 2.9X
ATH 3.06 10 ePn 14 17.20 -1.0
KAP 3.41 79 eP 14 23.50 0.3
EVR 4.09 346 ePn 14 34.20 1.3
NEO 4.35 2 ePn 14 34.40 -2.2
KZN 5.45 349 ePn 14 53.20 1.1
CZI 6.99 310 P 15 13.00 -0.7
eSn 16 26.20
S.D. = 1.5 on 8 of 11 obs.

NOV 05, 1990 19h 17m 17.01 ± 0.34s
38.870 N ± 7.9km 71.366 E ± 6.2km
DEPTH = 33.0km (normal)
4.6mb (21 obs.) 4.8Msz (1 obs.)
AFGHANISTAN-USSR BORDER REGION (717)
Felt (V) at Dzheirgatal, USSR.

KSH 3.63 79 Pnd 18 16.50 4.1X
Pg 18 24.00
Sg 19 13.00
MAIO 9.77 258 eP 19 36.00 -2.3
eS 21 18.00
NDI 11.26 153 iPd 20 01.50 2.8
0.5s 35.21nm 5.8mb X
WMO 13.22 63 eP 20 22.40 -2.6
Z 10s 0.40um
PP 20 33.20
GKN 15.48 130 P 20 52.10 -2.5
KKN 16.02 129 P 20 58.80 -2.9
DMN 16.05 130 P 21 00.80 -1.3
PKI 16.26 130 P 21 02.00 -2.8
GUN 16.30 128 P 21 02.80 -2.5
LSA 18.70 113 P 21 37.80 2.5
GTA 22.04 80 eP 22 11.60 1.1
1.2s 1040.00nm 6.1mb X
Z 16s 0.40um 3.9MszX
E 11s 0.20um

HYB 22.28 162 ePd 22 16.00 3.1X
GBA 25.73 166 P 22 47.00 0.9
LZH 25.85 86 Pc 22 49.00 1.6
1.5s 34.00nm 4.7mb
Z 18s 2.61um 4.8Msz
pP 22 55.00 21kmX

CD2 27.62 97 P 23 05.60 2.1
KOD 29.03 168 eP 23 16.80 0.2
XAN 30.44 87 P 23 29.00 0.3
CHTO 31.16 122 e(P) 23 35.90 0.8
1.0s 2.25nm 3.9mb
GYA 31.99 102 P 23 44.00 1.5
TIY 32.06 79 eP 23 43.60 0.6
Z 12s 0.40um 4.3MszX

MLR 33.94 296 ePd 24 03.00 3.7X
SUF 36.09 326 eP 24 16.90 -0.3
0.6s 3.30nm 4.4mb
NUR 36.10 322 eP 24 19.50 2.2
SOD 37.73 334 eP 24 32.00 1.1
QIZ 38.68 110 eP 24 41.60 2.2
KSP 39.94 306 eP 24 54.00 4.4X
SSE 41.13 85 eP 25 00.50 1.0
PRU 41.14 305 eP 25 04.00 4.6X
HFS 41.41 320 eP 25 00.40 -1.1
0.5s 7.90nm 4.7mb

BRG 41.42 306 eP 25 05.60 3.9X
1.2s 19.00nm 4.7mb
KHC 41.88 304 eP 25 11.00 5.5X
CLL 41.97 307 eP 25 10.00 3.8X
1.1s 12.00nm 4.5mb
NB2 42.69 321 P 25 10.70 -1.3

MOX 0.5s 2.10nm 4.1mb
42.92 306 e(P) 25 18.00 4.0X
IPM 43.47 134 ePc 25 22.00 3.2X
CDF 46.11 304 eP 25 41.90 2.2
BSF 46.56 303 eP 25 43.80 0.5
LPG 47.18 300 eP 25 48.60 0.1
0.8s 5.35nm 4.6mb

LPL 47.19 300 eP 25 48.80 0.3
LOR 48.62 303 eP 25 59.70 0.3
0.6s 3.15nm 4.5mb
SMF 48.81 302 P 26 00.40 -0.4
SSF 48.91 303 eP 26 02.00 0.4
0.8s 4.05nm 4.5mb

AVF 49.09 303 eP 26 02.40 -0.5
0.8s 6.70nm 4.7mb
MAF 49.77 302 eP 26 08.00 -0.2
0.8s 6.70nm 4.7mb
TCF 49.99 302 eP 26 10.70 0.8
0.8s 4.70nm 4.6mb

EKA 50.81 315 P 26 17.00 1.1
0.8s 2.90nm 4.3mb
LDF 50.81 306 eP 26 15.30 -0.7
FLN 50.99 306 eP 26 16.10 -1.3
MAT 51.85 70 eP 26 23.00 -1.1
DAG 52.57 343 iPc 26 28.00 -1.0
0.9s 8.40nm 4.7mb

BCAO 58.79 248 iPd 27 16.00 1.5
0.4s 4.00nm 4.9mb
MBC 64.96 3 eP 27 54.50 -0.6
1.0s 13.00nm 5.0mb
IMA 69.78 18 ePc 28 24.90 -0.8
0.7s 4.60nm 4.7mb

INK 71.52 9 ePc 28 35.50 -0.5
TTA 71.71 21 e(P) 28 37.00 -0.3
FBA 72.12 16 eP 28 39.30 -0.3
0.8s 12.50nm 5.0mb
LKO 73.93 269 P 28 50.26 -0.8
PMR 74.63 19 eP 28 53.60 -0.7
TOA 74.91 17 ePc 28 56.30 0.3
YKA 78.87 3 eP 29 17.00 -0.9
0.9s 2.70nm 4.2mb

WB5 82.98 122 eP 29 41.00 0.8
WRA 83.01 122 P 29 41.00 0.6
0.6s 12.20nm 5.2mb
S.D. = 1.4 on 52 of 62 obs.

* NOV 05, 1990 20h 09m 36.69 ± 1.63s
36.283 N ± 7.0km 8.250 W ± 17.1km
DEPTH = 10.0km (geophysicist)
WEST OF GIBRALTAR (384)
mbLg 3.2 (MDD).

EVAL 1.77 42 eP 10 08.10 0.5
eS 10 26.40
CNIL 1.78 87 eP 10 27.50 19.9X
OJEN 2.20 94 eP 10 28.00 14.1X
EJIF 2.25 85 eP 10 15.50 1.0
eS 10 39.50

AVE 3.06 167 iPn 10 26.60 0.7
iSn 11 00.00
IFR 3.77 136 iPn 10 35.00 -1.3
iSn 11 14.00
ECOG 3.89 74 eP 10 38.00 0.1
eS 11 20.60

AFC 3.90 74 eP 10 38.80 0.7
eS 11 20.30
EBAN 4.03 61 eP 10 39.60 -0.1
eS 11 20.00
EPLA 4.15 24 eP 10 41.50 0.1
eS 11 25.00

EVIA 5.14 61 eP 10 54.50 -1.1
eS 11 49.50
GUD 5.41 35 eP 10 59.00 -0.5
eS 11 55.50
S.D. = 0.9 on 10 of 12 obs.

NOV 06, 1990 00h 37m 15.65 ± 0.39s
16.336 N ± 6.5km 121.095 E ± 6.5km
DEPTH = 10.0km (geophysicist)
5.0mb (19 obs.) 4.1Msz (3 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BAG 0.50 279 iPc+ 37 23.50 -2.3
QCP 1.69 181 eP 37 49.00 3.7X
DAV 10.18 154 eP 39 54.00 9.0X
QIZ 11.05 286 eP 39 54.40 -2.5X
N 15s 1.70um

SSE 14.69 0 eP 40 50.50 5.1X
Z 20s 0.60um
E 14s 0.70um
NJ2 15.78 353 eP 41 02.40 2.9X
Z 18s 0.50um
E 13s 0.60um

GYA 16.78 309 P 41 14.80 2.3
KMI 19.25 300 Pd 41 46.00 2.7X
TIA 20.11 351 eP 41 52.90 0.4
XAN 20.75 330 P 41 58.50 -0.7
BDT 21.17 276 ePc 42 05.00 1.5
1.0s 48.30nm 4.8mb

CHG 21.26 280 ePd 42 06.00 1.5
1.1s 21.84nm 4.5mb
CHTO 21.26 280 eP 42 05.70 1.3
CD2 21.47 316 eP 42 06.50 0.0
1.0s 50.00nm 4.9mb

SNG 22.00 248 eP 42 15.10 3.2X
TIY 22.63 342 eP 42 20.40 2.4
E 22s 1.90um
IPM 22.90 242 ePc 42 20.90 0.0
BJI 24.00 351 eP 42 34.00 2.7X
1.9s 150.00nm 5.3mb

Z 20s 0.60um 4.1Msz
LZH 24.95 325 Pc 42 41.50 0.7
2.0s 89.00nm 5.1mb
Z 18s 0.92um 4.3Msz
N 13s 0.84um
E 12s 0.72um

pP 42 50.50 32kmX
sP 42 57.00
SNY 25.49 4 eP 42 45.30 -0.3
1.6s 100.00nm 5.3mb
Z 20s 0.60um 4.1Msz

S 47 13.00
PSI 25.68 240 ePd 42 47.50 -0.1
HHC 25.78 343 eP 42 51.90 3.4X
PPI 26.37 233 eP 42 54.50 0.5
CN2 27.63 7 P 43 12.40 7.2X
Z 16s 0.60um 4.3MszX

epP 43 20.00 27kmX
GTA 29.56 325 eP 43 23.00 0.1
Z 14s 0.60um 4.4MszX
E 12s 0.70um

GUN 34.48 296 P 44 05.20 -1.2
0.8s 64.00nm 5.6mb
PKI 34.82 295 P 44 08.20 -1.1
1.0s 24.00nm 5.0mb

DMN 35.09 295 P 44 11.00 -0.5
1.0s 37.00nm 5.2mb
GKN 35.57 295 P 44 13.80 -1.7
0.8s 40.00nm 5.3mb
WB5 38.28 160 eP 44 39.00 0.9
WMO 39.37 321 eP 44 48.00 0.9

HYB 40.66 278 eP 44 58.00 -0.1
QIS 40.92 153 ePd 45 01.20 1.2
i 47 11.50
ASPA 41.68 162 eP 45 05.00 -1.2
0.8s 21.60nm 4.9mb

GBA 42.21 272 P 45 12.00 1.3
WARB 42.61 173 eP 45 15.00 1.2
CTA 43.83 145 iPd 45 27.00 3.2X
1.2s 39.06nm 5.1mb
iPcP 47 58.00
iS 50 57.00
iScP 51 37.80
iScS 55 39.00

ALQ	87.90	52 eP	52	22.20	0.3
	1.0s	10.75nm			4.6mb
IMA	88.35	10 ePd	52	22.50	-0.7
	0.8s	11.60nm			4.8mb
FBA	88.38	13 iPd	52	21.90	-1.3
	1.3s	269.30nm			5.9mb
		ePp	54	34.00	615kmX
KMI	88.79	297 Pd	52	27.00	0.8
	1.6s	100.00nm			5.5mb
HHC	88.90	315 eP	52	27.00	0.8
BDT	89.02	289 ePd	52	28.00	1.0
	1.0s	58.70nm			5.5mb
LRM	89.12	40 eP	52	27.50	0.2
CHG	89.65	290 iPd	52	31.70	1.7

CHTO	89.65 1.0 s	290 e(P) 12.00nm	52	32.50 4.8mb	2.5 598kmX
SES	92.25 0.7 s	36 ePd 28.00nm	52	42.10 5.4mb	-0.1
LZH	92.27 2.0 s	308 Pd 54.00nm	52	42.50 5.2mb	0.6
INK	94.44	15 eP	52	49.50	-1.4
GTA	96.49	310 eP	52	57.00	-3.9X
MAJ0	127.20	300 iPKPc	58	32.00	-0.5
KEV	128.35	349 ePKP	58	28.00	-5.5X
PDCR	128.43	126 e(PKP)	58	34.40	-0.9
S0B1	129.05	121 ePKP	58	34.60	-2.0
SOD	130.47	347 ePKP	58	31.00	-6.6X
SUF	134.51 0.6 s	344 ePKP 3.90nm	58	44.50	-0.9
NUR	136.76	343 ePKP	58	48.00	-1.7
NB2	138.90 0.9 s	353 PKP 6.60nm	58	43.40	-10.3X
HFS	139.44 0.3 s	351 ePKP 4.30nm	58	44.80	-9.8X
MUD	143.62 1.0 s	353 iPKPc 104.00nm	59	00.00	-2.0

	144.06	313	iPKP	59	03.70	0.2
KVT	144.14	313	iPKP	59	03.70	0.2
EKA	145.06	4	PKPd	59	04.80	0.3
	0.9s	33.60nm				
SHBJ	145.63	298	PKPd	59	07.97	1.7
CSTJ	146.60	296	PKP	59	10.36	2.5X
BHL	146.84	301	PKP	59	10.00	1.8
MDSJ	146.86	297	PKPd	59	11.10	2.8X
CFR	146.90	324	ePKP	59	09.00	1.2
BBTK	146.93	313	iPKPd	59	11.00	2.8X
HRI	146.93	300	ePKP	59	11.00	2.6X
JARJ	146.99	298	PKPd	59	11.21	2.7X
VRJ	147.22	326	ePKPd	59	10.00	1.7
SALJ	147.26	298	PKPd	59	12.72	3.8X
MASJ	147.29	297	PKPd	59	11.99	3.0X
TLB	147.35	323	ePKPd	59	11.00	2.5X
WIT	147.48	354	ePKP	59	13.00	4.6X
KSP	147.50	342	ePKP	59	08.00	-0.6
		i		59	12.00	
		i		59	17.20	
		e		01	31.50	
LISJ	147.58	296	PKPd	59	12.68	3.4X
SPC	147.63	337	ePKP	59	08.90	-0.2
		i		59	12.10	
		e		01	43.80	
ZNT	147.75	298	iPKPd	59	13.20	3.6X
ISR	147.80	326	ePKP	59	12.50	3.2X
MLR	147.88	327	ePKPd	59	12.00	2.4X
CLL	147.92	346	iPKP	59	08.50	-0.7
	1.6s	19.00nm				
		i		59	12.70	
		pPKP		01	32.40	
		eSKP		01	55.00	
BRG	148.10	345	iPKP	59	08.80	-0.7
		i		59	13.20	
		i		59	18.10	
		ipPKP		01	33.80	
		iSKP		01	56.00	
		e		02	44.00	
		iSg		09	58.80	
WTS	148.28	354	ePKP	59	09.50	-0.2
	1.0s	142.00nm				
		iP'P'		59	13.90	
		i		59	18.50	
MBH	148.35	294	iPKPd	59	14.80	4.1X
CMP	148.50	327	ePKPc	59	13.00	2.6X
TNR	148.61	328	ePKPd	59	14.00	3.5X
PRU	148.76	343	PKPd	59	14.80	4.2X

06d 00h

PRU	1.0s	44.90nm				TCF	154.27	359	ePKP	59	26.80	8.2X	CHCH	38.71	292	eP	49	20.00	3.5X			
	148.76	343	iPKP	59	21.50	10.9X		1.0s	8.00nm				FCH	39.04	293	eP	49	20.50	0.9			
	0.9s	28.00nm					LSF	154.32	360	ePKP	59	26.60	7.9X	LNV	39.05	291	iPd	49	19.00	-0.2		
			pMKP	01	39.00		MAF	154.33	358	ePKP	59	27.40	8.7X	TACH	39.07	292	ePd	49	19.00	-0.5		
COZ	148.81	328	ePKPd	59	15.50	4.5X	LPL	154.66	351	ePKP	59	28.50	9.0X	SAN	39.11	292	eP	49	20.00	0.2		
MOX	148.84	347	ePKP	59	10.50	-0.2	LPG	154.67	351	ePKP	59	28.60	9.0X	PEL	39.38	293	iPd	49	22.50	0.4		
SRO	149.48	337	iPKP	59	15.60	3.9X	BOB	154.88	346	PKP	59	31.00	11.4X	PPD	41.67	324	eP	49	40.80	-0.2		
				59	24.60		IGT	154.98	323	ePKP	59	38.00	18.2X	PDCR	48.14	343	eP	50	32.20	-0.6		
JMB	149.49	322	iPKPd	59	17.00	5.1X	BNI	155.12	351	PKP	59	31.00	11.0X	SIV	50.51	315	P	50	50.40	-0.6		
ENN	149.58	354	ePKP	59	12.00	0.3	RJF	155.26	360	ePKP	59	28.90	8.9X	CCH	51.16	308	P	50	56.00	-0.3		
	1.0s	69.00nm					CAF	155.63	359	ePKP	59	29.90	9.3X	SOB1	51.67	342	eP	50	59.10	-0.7		
			iP'P'd	59	16.70		ORI	156.60	330	PKP	59	35.00	13.1X	CNCB	52.41	307	P	51	07.00	0.9		
				59	24.30			S.D. = 1.0	on 129	of 208	obs.		LPB	52.71	307	P	51	09.00	0.9			
ZST	149.58	339	e(PKP)	59	11.60	-0.3							ZOBO	52.96	307	Pc	51	10.00	-0.1			
				59	17.10			NOV 06, 1990	01h	54m	30.81 ± 0.91s			Z	24s	0.14um			3.9mszX			
				59	25.10											LR	08	08.00				
				01	40.10			11.892 N ± 7.8km		143.596 E ± 8.3km												
UCC	149.67	356	PKP	59	17.00	5.1X		DEPTH =	32.2 ± 6.4	km			ARE	54.18	303	eP	51	18.00	-0.8			
PVL	149.72	324	iPKPd	59	18.00	5.8X		4.8mb (12 obs.)		4.4msz (5 obs.)			KIC	68.17	23	P	52	53.70	0.7			
MEM	149.73	354	PKPc	59	12.80	0.9		SOUTH OF MARIANA ISLANDS		(210)			TIC	68.39	23	P	52	54.20	-0.2			
			ed	59	17.50								LKO	71.11	22	P	53	11.40	0.4			
VKA	149.78	340	e(PKP)	59	05.00	-7.2X		GUA	2.08	38	eP	55	04.30	0.2		0.7s	7.50nm		4.9mb			
	1.0s	52.20nm											BCAO	73.12	47	iPd	53	25.70	2.7X			
				59	17.90			GUMO	2.09	36	eP	55	04.50	0.2		0.5s	6.00nm		4.8mb			
				59	26.80			PJG	2.09	36	eP	55	04.30	0.0		ASPA	95.26	162	eP	55	15.30	-0.4
KHC	149.80	344	iPKPc	59	12.50	0.3		PMG	21.46	170	eP	59	13.00	-5.7X		0.7s	5.80nm		5.1mb			
GRF	149.82	347	iPKPd	59	17.80	5.6X		BAG	22.76	284	eP	59	33.80	1.9		WRA	98.98	162	P	55	32.00	-0.6
			ec	59	24.90			MAT	25.02	350	eP	59	51.00	-2.4		0.9s	0.70nm		4.2mb			
BZS	149.90	331	ePKP	59	11.50	-0.9X		SSE	28.18	316	eP	00	28.00	5.5X		NB2	123.99	21	PKP	00	48.80	-0.2
SNF	149.96	356	PKPc	59	17.80	5.5X			Z	18s	0.40um		4.1msz			0.8s	2.10nm					
			e	59	25.70										DMN	124.20	93	PKP	00	51.40	0.6	
WET	149.96	345	iPKPc	59	12.50	0.0		QIS	32.48	187	eP	00	59.00	-1.7		GKN	124.29	93	PKP	00	50.80	0.0
ABH	150.27	352	ePKP	59	18.23	5.3X		WB5	32.85	196	eP	01	03.00	-1.0		PKI	124.32	94	PKP	00	51.40	0.3
DOU	150.36	356	PKP	59	19.30	6.4X		CN2	35.44	337	eP	01	28.00	1.9		KKN	124.44	93	PKP	00	51.20	0.0
DIM	150.36	322	iPKP	59	20.00	6.8X		ASPA	36.59	195	eP	01	36.70	0.7		GUN	124.84	94	PKP	00	52.40	0.3
KDZ	150.68	321	iPKPd	59	19.00	5.2X			0.5s	5.60nm		4.7mb			YKA	139.20	315	ePKP	01	30.00	12.2X	
BEO	151.03	331	iPKP	59	18.80	4.7X			Z	18s	0.50um		4.3msz			0.7s	1.60nm					
RZN	151.06	322	iPKPd	59	20.00	5.4X		BJI	37.04	324	eP	01	39.00	-0.5		MBG	147.58	334	ePKP	01	34.00	2.2X
CIN	151.21	312	iPKPd	59	07.80	-6.8X			Z	18s	0.59um		4.4msz			INK	148.92	317	ePKP	01	37.00	2.9X
FUR	151.26	346	ePKP	59	21.00	6.6X		CD2	41.35	304	P	02	15.80	0.2			S.D. = 0.6	on 25	of 30	obs.		
				59	32.00			LZH	43.14	311	eP	02	30.50	0.1			& NOV 06, 1990	04h	50m	08.70s		
BHG	151.28	344	ePKP	59	20.60	6.2X			Z	20s	0.49um		4.4msz				59.802 N		153.583 W			
				59	32.40			GTA	47.39	313	eP	03	04.40	0.2			DEPTH =	145.0km				
VTS	151.30	325	iPKPd	59	22.00	7.2X			1.0s	10.00nm		4.8mb					SOUTHERN ALASKA		(2)			
MMB	151.69	323	ePKPd	59	22.00	6.7X			Z	18s	0.40um		4.4msz				<AGS-P>					
CDF	151.74	352	ePKP	59	21.30	6.1X		TOO	49.23	178	eP	03	19.00	0.8		OPT	0.23	130	iP	50	28.05	0.9
	0.8s	16.10nm					GUN	56.08	296	P	04	10.00	0.0				eS	50	43.18			
FLN	151.77	3	ePKP	59	21.10	6.0X			0.8s	24.00nm		5.3mb			PDB	0.31	268	iP	50	27.79	0.5	
	0.9s	24.55nm						PKI	56.47	295	P	04	12.20	-0.6				eS	50	42.81		
KKB	151.86	324	iPKPd	59	22.00	6.5X		KKN	56.60	295	P	04	13.20	-0.4				eS	50	28.25	0.6	
DHLJ	151.93	297	PKPd	59	12.74	-3.1X			0.8s	12.00nm		5.0mb			INW	0.35	40	eP	50	28.21	0.9	
LDF	151.95	2	ePKP	59	21.50	6.2X		DMN	56.74	295	P	04	14.60	0.0		INE	0.37	45	iP	50	28.65	
	0.9s	14.75nm					GKN	57.19	296	P	04	17.20	-0.4				eS	50	43.82			
PTJ	151.96	338	ePKP	59	21.10	5.5X			1.0s	20.00nm		5.1mb			AUH	0.45	171	eP	50	28.71	-0.8	
ZAG	152.02	338	ePKP	59	22.50	7.0X		WMO	57.42	315	P	04	18.70	-0.2		AUP	0.45	169	eP	50	28.90	-0.7
SPS	152.07	322	ePKP	59	35.20	19.4X		HYB	62.92	284	eP	04	56.80	0.0		AGU	0.45	170	eP	50	28.75	-0.9
GRR	152.12	3	ePKP	59	22.10	6.5X		GBA	64.37	279	Pc	05	06.20	-0.2		AUE	0.46	166	iP	50	28.73	-0.7
	1.0s	26.00nm						0.7s	5.10nm		4.7mb			AUI	0.48	170	eP	50	28.75	-0.8		
HAU	152.26	353	ePKP	59	22.30	6.5X		IMA	68.29	23	eP	05	29.90	-0.8		MCNL	0.73	212	iP	50	29.92	-1.2
	0.8s	13.45nm						0.9s	3.13nm		4.4mb						eS	50	46.14			
LJU	152.31	340	ePKP	59	16.50	0.5		PMR	68.86	28	eP	05	32.00	-2.1		RED	0.74	33	eP	50	30.48	-0.8
				59	22.90				0.9s	9.38nm		4.9mb			RDN	0.82	30	eP	50	31.13	-0.9	
			e	59	36.00			INK	76.40	22	eP	06	18.00	-0.4		NCT	0.83	23	eP	50	30.88	-1.1
FVI	152.34	343	PKP	59	23.00	7.1X		MAIO	78.35	305	eP	06	31.00	1.0		CDD	0.88	182	iP	50	31.08	-1.2
BSF	152.38	352	ePKP	59	22.50	6.4X		MBC	80.21	14	eP	06	39.50	0.3		RDT	0.97	37	eP	50	32.24	-0.9
	0.8s	10.75nm						0.8s	5.00nm		4.6mb			HOM	0.99	98	eP	50	32.44	-0.7		
LPF	152.47	3	ePKP	59	23.00	6.9X		PNT	85.46	41	eP	07	08.00	1.3				eS	50	50.73		
	0.9s	27.85nm					DPW	86.71	42	e(P)	07	13.60	0.6		NNL	1.18	77	eP	50	34.96	0.1	
VAY	152.51	324	ePKP	59	23.00	6.6X		NEW	87.32	41	eP	07	16.00	0.1		CNPM	1.22	102	eP	50	34.24	-1.1
	1.3s	110.00nm						0.9s	20.29nm		5.4mb						eS	50	53.35			
				59	37.40			TNP	89.86	51	eP	07	29.30	0.9		SYI	1.34	152	iP	50	35.10	-1.4
VBV	152.55	338	i(PKP)	59	23.90	7.6X			0.9s	5.53nm		4.8mb					eS	50	55.83			
SKO	152.67	326	iPKP	59	23.50	6.9X		LRM	91.07	43	eP	07	34.50	0.6		CKL	1.53	23	iP	50	37.92	-0.7
				59	27.30			KIC	143.66	298	PKP	14	02.60	-2.6X		SPU	1.58	28	eP	50	38.11	-1.0
				59	38.00			TIC	143.76	299	PKP	14	02.90	-2.5X				eS	51	01.62		
CTI	153.15	344	PKP	59	24.50	7.2X		LIC	143.98	298	PKP	14	03.70	-2.0		8GL	1.58	21	eP	50	38.73	-0.5
LOR	153.22	356	ePKP	59	24.60	7.4X		ZOBO	148.95	102	PKP	14	16.00	1.4		CRP	1.63	25				

KNK 3.00 55 eP 50 52.65 -3.8
 GHO 3.02 47 eP 50 54.24 -2.5
 CUT 3.07 30 eP 50 55.44 -1.8
 SML 3.27 50 eP 50 57.78 -2.1
 GLI 3.40 69 eP 50 59.44 -2.2
 38 obs. associated

NOV 06, 1990 05h 46m 24.95 ± 1.14s
 8.127 S ± 6.6km 118.023 E ± 7.7km
 DEPTH = 201.9 ± 12.7 km
 5.1mb (14 obs.)

SUMBAWA ISLAND REGION (285)

TRT 5.35 274 iPc 47 46.00 1.4
 KUPT 5.87 110 eP 47 41.50 -9.7X
 KNA 12.95 127 eP 49 21.00 -1.9
 0.3s 118.00nm 5.9mb
 MBL 13.07 173 eP 49 23.00 -1.4
 e 49 33.00
 iS 51 44.00
 MTN 13.71 111 iPc 49 31.90 -0.5
 eS 51 53.00
 KKM 14.19 353 eP 49 43.00 4.5X
 NANU 14.55 189 eP 49 44.50 1.7
 eS 52 16.00
 WB5 19.67 128 iPd 50 39.90 -0.7
 eS 54 13.70
 WRA 19.69 128 P 50 31.00 -9.7X
 0.9s 3.80nm 3.9mb X
 WARB 19.74 156 iPd 50 40.00 -1.2
 0.4s 52.00nm 5.4mb
 MRWA 21.07 185 eP 50 54.30 -0.1
 eS 54 52.00
 ASPA 21.69 137 iPd 51 01.00 0.5
 0.4s 183.90nm 6.0mb
 Z 23s 0.70um 4.0mszX
 iS 54 46.20
 iScS 01 52.00
 BAL 22.40 183 eP 51 07.30 0.0
 COOL 22.83 173 eP 51 11.10 -0.4
 0.3s 22.00nm 5.2mb
 KLB 23.35 181 eP 51 16.00 -0.5
 0.4s 12.00nm 4.9mb
 MUN 23.79 184 eP 51 21.30 0.6
 QIS 24.25 123 iPd 51 25.00 -0.1
 0.3s 26.00nm 5.3mb
 eS 55 51.00
 FORR 24.49 159 eP 51 26.00 -1.2
 NWA0 24.69 182 eP 51 29.00 0.0
 0.5s 32.00nm 5.2mb
 PMG 28.82 95 eP 51 59.00 -7.5X
 BDT 31.45 323 eP 52 30.20 0.7
 CHTO 32.72 325 eP 52 41.50 0.9
 0.9s 7.03nm 4.3mb
 pP 53 26.10 217kmX
 BFD 36.49 146 eP 53 15.00 2.6
 BRS 38.04 125 iP 53 27.50 1.9
 BWA 38.28 138 eP 53 30.90 3.4X
 e 55 03.50
 e 59 05.80
 CAN 39.19 138 iPd 53 35.90 0.9
 e 55 11.80
 e 59 08.20
 CD2 41.15 341 iPc 53 52.20 1.1
 0.4s 40.00nm 5.3mb
 XAN 42.81 349 P 54 05.30 0.8
 GBA 45.71 298 P 54 26.00 -1.8
 LZH 45.96 344 P 54 30.00 0.3
 1.0s 23.00nm 4.6mb
 GUN 47.43 320 P 54 40.60 -1.0
 0.6s 47.00nm 5.1mb
 PKI 47.49 320 P 54 40.90 -1.1
 DMN 47.71 319 P 54 42.80 -0.9
 KKN 47.73 320 P 54 42.40 -1.3
 0.8s 31.00nm 4.8mb
 GKN 48.29 319 P 54 46.80 -1.1
 DZM 48.55 112 iPd 54 50.70 0.7
 GTA 50.22 342 iPc 55 03.40 0.9
 0.8s 30.00nm 4.9mb
 THZ 58.71 134 Pc 56 04.10 0.3
 HBZ 61.63 128 P 56 23.30 -0.2
 SLR 86.29 245 iPc 58 45.50 -0.2
 BUL 86.69 250 iPc 58 47.90 0.1
 1.0s 13.50nm 4.7mb
 SOB1 152.84 231 ePKP 05 59.10 6.3X

e 06 00.20
 e 06 12.00
 S.D. = 1.1 on 36 of 42 obs.

% NOV 06, 1990 06h 05m 43.72 ± 1.52s
 46.390 N ± 12.7km 3.473 E ± 8.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.5 (LDG).

SMF 0.36 45 Pg 05 51.60 0.5
 Sg 05 56.80
 AVF 0.41 348 Pg 05 52.00 -0.1
 Sg 05 58.10
 BGF 0.46 291 Pg 05 53.40 0.2
 Sg 05 59.60
 MAF 0.65 255 Pg 05 56.60 -0.1
 Sg 06 06.00
 LBF 0.69 30 Pg 05 56.80 -0.6
 Sg 06 06.40
 LOR 0.92 17 Pg 06 01.40 0.1
 Sg 06 13.30

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

% NOV 06, 1990 07h 07m 54.15 ± 2.88s
 43.628 N ± 11.7km 0.588 W ± 27.8km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 3.2 (LDG).

EPF 0.90 131 Pg 08 11.50 0.0
 Sg 08 23.40
 LFF 1.62 36 Pg 08 27.40 4.6X
 Sg 08 51.00
 LPD 1.66 50 Pg 08 28.10 4.7X
 Sg 08 51.50
 RJF 2.25 41 Pn 08 32.60 0.6
 Pg 08 39.70
 Sg 09 09.70
 CAF 2.30 55 Pn 08 33.00 0.2
 Pg 08 40.20
 Sg 09 10.50
 MFF 2.99 6 Pn 08 42.20 -0.2
 Pg 08 52.60
 Sg 09 33.00
 LSF 3.02 29 Pn 08 44.00 1.1
 Sg 09 32.00
 TCF 3.32 36 Pn 08 47.50 0.3
 Sg 09 41.40
 MAF 3.43 40 Pn 08 47.30 -1.4
 Sg 09 45.30
 BGF 3.81 39 Pn 08 53.50 -0.6
 Sg 09 56.20

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

? NOV 06, 1990 08h 34m 40.13 ± 3.03s
 31.238 S ± 12.4km 68.533 W ± 26.7km
 DEPTH = 87.9 ± 26.2 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.11 149 iPc 34 53.00 -0.1
 RTCB 0.34 223 iPd 34 54.00 0.2
 eS 35 05.50
 RTBS 0.89 242 ePd 34 58.60 -0.1
 RTRS 1.33 323 iPd 35 04.00 0.0
 MDZ 1.66 189 eP 35 08.40 0.0
 iS 35 31.10

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

NOV 06, 1990 10h 19m 35.95 ± 0.69s
 7.160 S ± 8.2km 145.009 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 3.7mb (1 obs.)

NEAR S COAST OF PAPUA NEW GUINEA (206)

YYYY 1.32 46 eP 20 00.00 -0.4
 MNDI 1.67 307 eP 20 05.50 -0.1
 eS 20 29.00
 LAT 2.04 76 eP 20 11.50 0.8
 PMG 3.08 137 eP 20 25.00 -0.6
 WB5 16.32 218 eP 23 27.00 0.0
 ASPA 19.57 212 eP 24 07.50 0.3
 1.1s 5.10nm 3.7mb

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

NOV 06, 1990 10h 24m 04.74 ± 1.14s
 11.873 N ± 7.3km 143.638 E ± 7.5km

DEPTH = 33.0 ± 9.9 km
 4.9mb (10 obs.) 4.3msz (5 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUA 2.07 37 eP 24 38.10 0.2
 eS 25 03.50
 GUMO 2.08 35 eP 24 38.30 0.3
 PJG 2.08 35 eP 24 37.90 -0.1
 PMG 21.43 170 eP 28 40.00 -12.3X
 BAG 22.80 284 eP 29 07.00 0.9
 MAT 25.04 350 (P) 29 27.00 -0.5
 eS 33 53.00
 WB5 32.85 196 eP 30 37.10 -0.6
 ASPA 36.58 195 eP 31 08.50 -1.2
 0.5s 4.80nm 4.6mb
 Z 20s 0.40um 4.2msz
 BJI 37.08 324 eP 31 13.00 -0.7
 1.4s 33.00nm 5.0mb
 Z 20s 0.30um 4.1msz
 TIY 37.95 318 Pc 31 21.20 0.0
 DZM 40.48 146 iPd 31 42.90 0.6
 CD2 41.40 304 Pd 31 50.20 0.4
 LZH 43.19 311 Pd 32 05.00 0.5
 1.5s 31.00nm 4.8mb
 Z 18s 0.44um 4.4msz
 pP 32 14.00 30kmX
 GTA 47.44 313 Pc 32 38.20 -0.2
 0.7s 10.00nm 4.9mb
 Z 20s 0.40um 4.4msz
 PcP 34 09.60
 MRWA 48.79 213 eP 32 49.00 0.2
 WMQ 57.46 315 P 33 53.00 0.0
 Z 20s 0.30um 4.4msz
 HYB 62.97 284 ePd 34 31.00 0.0
 GBA 64.42 279 P 34 40.70 0.2
 IMA 68.29 23 iP 35 03.50 -1.0
 1.2s 9.38nm 4.8mb
 PMR 68.86 28 e(P) 35 05.60 -2.3
 FBA 70.28 25 ePd 35 15.20 -1.3
 INK 76.40 22 eP 35 52.00 -0.3
 MAIO 78.39 305 iPc 36 05.40 1.3
 MBC 80.22 14 eP 36 13.00 0.0
 0.5s 13.00nm 5.2mb
 GMW 83.74 43 eP 36 33.00 1.1
 YKA 84.93 27 eP 36 37.50 0.0
 0.5s 2.20nm 4.6mb
 PNT 85.45 41 ePd 36 42.00 1.6
 0.6s 5.00nm 4.9mb
 DPW 86.70 42 eP 36 47.40 0.7
 NEW 87.30 41 iP 36 50.20 0.6
 0.9s 15.90nm 5.3mb
 TNP 89.84 51 iPd 37 03.40 1.3
 NB2 98.21 339 P 37 38.20 -1.6
 0.7s 2.20nm 4.8mb
 KIC 143.71 298 PKP 43 36.64 -2.5X
 LIC 144.02 298 PKP 43 37.52 -2.1X
 0.7s 6.50nm
 ZOBO 148.90 102 PKP 43 50.60 2.3X
 LPB 148.91 102 ePKP 43 41.00 -7.1X
 CNCB 149.00 103 PKP 43 51.00 2.6X

S.D. = 0.9 on 30 of 36 obs.

NOV 06, 1990 13h 00m 09.24 ± 1.19s
 20.111 S ± 6.5km 169.348 E ± 10.4km
 DEPTH = 107.5 ± 10.6 km
 4.7mb (5 obs.)

VANUATU ISLANDS (186)

PVC 2.55 337 iPd 00 49.00 -0.9
 iS 01 24.50
 DZM 3.34 234 iPc 01 01.40 0.8
 iS 01 41.00
 HNR 13.97 318 P 03 25.00 1.3
 SVO 14.27 318 P 03 28.00 0.5
 COO 18.88 233 iPd 04 25.60 1.6
 NOZ 19.92 160 P 04 34.30 -0.4
 RMQ 19.94 248 eP 04 35.00 0.0
 MNG 21.10 167 P 04 46.30 -0.4
 0.4s 22.00nm 4.9mb
 PGZ 21.28 165 P 04 47.60 -0.8
 0.5s 19.00nm 4.7mb
 TCW 21.45 170 eP 04 49.70 -0.4
 CAW 21.49 168 eP 04 51.40 0.8
 MRW 21.54 169 eP 04 51.60 0.6
 MTW 21.63 167 eP 04 50.60 -1.3
 WDW 21.63 168 eP 04 52.50 0.6
 BLW 21.82 168 eP 04 53.40 -0.4

LTZ	22.74	174	P	05	03.80	1.0
BWA	23.37	228	eP	05	07.50	-1.6
CAN	23.47	226	eP	05	11.50	1.5
WRA	32.86	264	P	06	32.00	-2.9
	0.7s	2.00nm				4.0mb
ASPA	33.03	257	iPd	06	35.10	-1.4
	0.4s	26.10nm				5.4mb
FORR	38.55	245	eP	07	22.50	-0.5
MAT	63.57	332	eP	10	17.00	-13.6X
CHTO	79.11	295	eP	12	03.60	-0.2
	0.8s	5.49nm				4.4mb
PKI	93.97	298	P	13	00.00	-16.8X
INK	97.34	18	ePd	13	28.50	-2.3
NAI	128.88	251	iPKPc	19	20.50	13.5X
NB2	136.31	345	PKP	19	18.00	-1.4
	0.8s	2.00nm				
EKA	144.38	353	PKP	19	33.00	-0.9
	0.5s	1.80nm				
SKO	145.23	316	iPKP	19	32.50	-3.4X
OHK	146.07	315	ePKPd	19	36.10	-1.3
	0.7s	38.00nm				
MEM	146.83	340	PKP	19	38.00	-0.1
ABH	146.95	338	ePKP	19	38.58	0.1
FVI	147.37	329	PKP	19	40.00	0.9
BCAO	147.59	245	iPKPc	19	42.90	2.4X
	0.5s	6.00nm				
		ic	20	11.50		
DOU	147.72	342	iPKP	19	40.60	1.0
OGA	147.98	331	ePKP	19	42.00	1.6
	0.6s	32.00nm				
VVI	147.98	329	PKP	19	41.50	1.3
CDF	148.28	337	ePKP	19	41.50	0.8
	0.5s	7.30nm				
CTI	148.30	330	PKP	19	43.00	2.2X
BSF	148.94	337	ePKP	19	43.20	1.4
	0.6s	8.10nm				
HAU	148.96	338	ePKP	19	43.30	1.6
	0.5s	12.40nm				
SAL	149.16	330	PKP	19	45.00	3.0X
SFI	149.73	327	PKP	19	46.00	3.1X
PGD	149.83	327	PKP	19	47.50	4.2X
SGO	149.90	318	PKP	19	46.00	2.7X
SDI	150.12	322	PKP	19	46.50	2.8X
FLN	150.27	346	ePKP	19	46.00	2.4X
	0.7s	16.55nm				
BOB	150.29	330	PKP	19	48.50	4.6X
LDF	150.34	346	ePKP	19	46.20	2.5X
	0.5s	6.55nm				
LOR	150.45	340	ePKP	19	46.90	2.9X
	0.5s	12.40nm				
LBF	150.66	339	ePKP	19	47.60	3.3X
	0.5s	2.20nm				
GRR	150.70	347	ePKP	19	47.20	2.9X
	0.5s	9.50nm				
SSF	150.74	340	ePKP	19	47.70	3.3X
	0.5s	10.20nm				
LPL	150.88	334	ePKP	19	48.80	3.8X
	0.6s	7.20nm				
LPG	150.89	334	ePKP	19	48.70	3.6X
	0.6s	11.25nm				
LPF	151.08	347	ePKP	19	48.20	3.4X
	0.5s	24.05nm				
BNI	151.28	334	PKP	19	49.90	4.4X
BGF	151.40	340	ePKP	19	49.00	3.6X
	0.5s	13.85nm				
MAF	151.79	340	ePKP	19	50.00	4.0X
	0.5s	4.00nm				
TCF	151.84	341	ePKP	19	50.00	3.9X
	0.5s	5.45nm				
LSF	152.08	342	ePKP	19	50.20	3.8X
	0.5s	11.65nm				
MFF	152.21	344	ePKP	19	50.60	4.0X
	0.5s</					

RND	0.78	77	eS	33	37.83	
			eP	33	24.49	-0.5
			eS	33	40.81	
CUT	0.85	172	iP	33	25.08	-0.3
MCK	0.87	55	iP	33	25.28	-0.4
			eS	33	41.24	
BWN	1.05	27	eP	33	27.08	-0.1
SKT	1.35	200	iP	33	29.74	-0.5
PWA	1.63	169	eP	33	33.10	-0.2
			eS	33	56.02	
GHO	1.66	152	eP	33	33.34	-0.4
			eS	33	57.14	
SML	1.77	144	eP	33	34.25	-0.7
PLRM	1.78	158	eP	33	34.26	-0.8
			eS	33	58.98	
PMR	1.78	158	iPd	33	34.30	-0.8
SUA	1.79	183	eP	33	35.70	0.4
CCB	1.85	39	iP	33	35.10	-0.8
NCG	2.00	203	eP	33	37.05	-0.8
MDM	2.00	29	iP	33	36.79	-0.9
FBA	2.05	35	iPd	33	37.60	-0.8
SCM	2.05	132	eP	33	37.68	-0.8
PMS	2.06	167	eP	33	37.90	-0.6
			eS	34	05.40	
CGLM	2.06	200	eP	33	38.09	-0.5
KNK	2.08	151	eP	33	38.18	-0.5
			eS	34	05.65	
CRP	2.12	202	eP	33	39.07	-0.4
BGL	2.17	204	eP	33	39.77	-0.1
SPU	2.19	200	eP	33	39.23	-0.9
CKL	2.22	203	eP	33	40.06	-0.5
GLM	2.23	37	iP	33	39.90	-0.7
TOA	2.31	118	eP	33	41.70	0.0
PAX	2.32	95	eP	33	41.60	-0.2
SDG	2.40	105	eP	33	42.26	-0.4
NKA	2.53	188	eP	33	46.28	1.9
SLKM	2.75	177	eP	33	46.55	-0.7
KLU	2.78	127	eP	33	46.51	-1.1
RDT	2.82	199	eP	33	47.35	-0.8
GLI	2.87	144	eP	33	47.18	-1.6
VZW	2.88	138	eP	33	47.40	-1.5
VLZ	2.89	135	eP	33	47.35	-1.6
NCT	2.92	204	eP	33	48.33	-1.2
DOT	2.94	79	eP	33	48.69	-0.9
RDN	2.94	202	eP	33	48.78	-0.9
IMA	3.14	336	ePc	33	50.60	-1.8
SEW	3.19	170	eP	33	51.80	-1.1
KNIM	3.20	154	eP	33	51.19	-1.8
SVW	3.21	230	iPc	33	52.00	-1.2
INE	3.41	202	eP	33	52.53	-3.5
LTI	3.46	157	eP	33	54.91	-1.5
MTU	3.55	156	eP	33	55.63	-2.0
GLB	3.62	117	eP	33	57.75	-0.9
CNPM	3.75	185	eP	33	59.30	-1.0
TGL	4.41	121	eP	34	07.85	-1.4
BALM	4.44	116	eP	34	08.19	-1.4
50 obs. associated						
%						
NOV 06, 1990 13h 36m 45.12± 2.37s						
40.014 N ±14.7km 27.265 E ±22.6km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 3.0 (ISK).						
EDC	0.57	54	iPg	36	57.00	0.4
			iSg	37	05.00	
EZN	0.75	256	iPn	37	02.30	2.6X
KCT	0.87	74	iPn	37	02.30	0.4
IZM	1.61	180	ePn	37	13.90	0.1
YLV	1.70	70	iPn			

DAV	18.40	257	eP	08	45.00	3.5X
PMG	21.43	170	e(P)	09	10.00	-4.6X
QCP	22.09	280	eP	09	30.00	8.7X
BAG	22.77	284	eP	09	29.50	1.3
MAT	25.04	350	(P)	09	50.00	0.1
			eS	14	16.00	
WB5	32.83	196	eP	10	59.50	-0.5
CN2	35.47	337	eP	11	24.50	2.0
ASPA	36.57	195	iPd	11	32.00	0.0
	0.7s	6.70nm				4.6mb
Z	20s	0.50um				4.3Msz
TIY	37.93	318	eP	11	43.00	-0.4
DZM	40.49	146	iPd	12	05.00	0.1
BTO	41.11	320	eP	12	10.00	0.2
CD2	41.37	304	P	12	12.40	0.4
LZH	43.17	311	eP	12	25.50	-1.3
	2.0s	25.00nm				4.6mb
Z	18s	0.44um				4.4Msz
		pP		12	35.00	32kmX
GTA	47.42	313	eP	13	00.00	-0.6
Z	20s	0.50um				4.5Msz
MRWA	48.77	213	eP	13	11.00	0.0
GUN	56.10	296	P	14	06.20	-0.1
	0.8s	21.00nm				5.2mb
PKI	56.49	295	P	14	08.40	-0.7
KKN	56.62	295	P	14	09.60	-0.3
	0.8s	13.00nm				5.0mb
DMN	56.76	295	P	14	10.80	-0.2
GKN	57.20	296	P	14	13.40	-0.6
	0.8s	11.00nm				4.9mb
WMQ	57.44	315	iPc	14	15.40	0.1
HYB	62.93	284	iPd	14	53.50	0.3
GBA	64.38	279	P	15	03.20	0.5
POO	67.29	285	eP	15	21.00	-0.4
PMR	68.88	28	eP	15	27.80	-2.6
INK	76.42	22	eP	16	14.00	-0.8
		pP		16	36.00	83kmX
MAIO	78.37	305	eP	16	28.00	1.7
MBC	80.23	14	eP	16	35.50	0.0
	0.5s	8.00nm				5.0mb
GMW	83.77	43	eP	16	55.40	0.9
RMW	84.44	43	eP	16	58.50	0.5
YKA	84.95	27	eP	17	00.60	0.6
	0.6s	3.70nm				4.8mb
NEW	87.33	41	iP	17	12.50	0.3
	1.0s	15.63nm				5.2mb
KEV	87.77	342	eP	17	24.00	10.2X
SOD	89.05	340	iP	17	19.50	-0.5
TNP	89.87	51	eP	17	25.40	0.7
	0.7s	5.56nm				4.9mb
LRM	91.09	43	eP	17	31.00	0.8
NB2	98.20	339	P	18	00.80	-1.4
	0.7s	2.10nm				4.8mb
KIC	143.68	298	PKP	23	59.20	-2.3X
TIC	143.78	299	PKP	23	59.40	-2.3X
LIC	143.99	298	PKP	24	00.00	-2.0X
ZOBO	148.94	102	PKP	24	13.00	2.2X
LBP	148.94	102	(PKP)	24	08.00	-2.6X
CNCB	149.03	103	PKP	24	13.00	2.1X
S.D. = 0.9 on 36 of 46 obs.						

NOV 06, 1990 14h 50m 29.40± 0.45s						
37.937 S ± 5.5km 177.250 E ± 8.3km						
DEPTH = 157.3 ± 3.6 km						
4.8mb (6 obs.)						
OFF E. COAST OF N. ISLAND, N.Z. (160)						
Felt at Gisborne.						

[illegible]

06d 16h

MBL	0.4s	16.00nm	5.1mb	
CHTO	45.39 255 eP	46 50.30	-0.3	
	75.21 294 eP	50 13.30	-0.1	
	0.7s	1.91nm	3.9mb	
GUN	89.55 299 PKP	51 28.20	0.6	
PKI	89.85 299 PKP	51 28.60	-0.4	
KKN	90.02 299 PKP	51 29.00	-0.6	
DMN	90.12 298 PKP	51 31.00	0.9	
GKN	90.63 299 PKP	51 31.80	-0.5	
VAI	144.34 334 PKP	58 03.50	-1.5	
ORI	144.36 320 PKPc	58 04.50	-0.8	
SFI	144.40 329 PKP	58 05.00	-0.1	
ASS	144.59 327 PKP	58 04.00	-1.6	
TDS	144.66 320 PKP	58 05.30	-0.5	
SGO	144.75 322 PKP	58 04.00	-1.9	
FLN	144.88 346 ePKP	58 05.60	-0.2	
	0.4s	5.75nm		
SDI	144.89 324 PKP	58 05.00	-1.2	
BOB	144.91 332 PKP	58 05.80	-0.3	
LDF	144.95 345 ePKP	58 05.90	-0.1	
	0.7s	7.70nm		
LOR	145.01 340 ePKP	58 05.90	-0.3	
	0.9s	13.90nm		
LBF	145.22 340 ePKP	58 06.60	0.0	
	0.6s	11.70nm		
SSF	145.31 340 ePKP	58 07.10	0.5	
	0.8s	30.20nm		
GRR	145.32 346 ePKP	58 06.60	0.0	
	0.8s	21.50nm		
LSD	145.34 335 PKP	58 07.49	0.4	
LPL	145.46 336 ePKP	58 08.00	0.7	
	0.5s	7.30nm		
LPG	145.47 336 ePKP	58 08.20	0.8	
	0.6s	10.80nm		
PCP	145.48 333 PKP	58 07.29	0.2	
SMF	145.57 340 ePKP	58 07.80	0.7	
	0.8s	11.40nm		
AVF	145.60 340 ePKP	58 07.90	0.8	
	0.4s	2.85nm		
LPF	145.70 346 ePKP	58 08.00	0.8	
	0.9s	22.95nm		
BHB	145.80 334 PKP	58 07.19	-0.4	
BNI	145.87 335 PKPc	58 09.90	2.1X	
FIN	145.90 333 PKP	58 07.49	-0.3	
RRL	145.93 335 PKP	58 09.13	1.0	
ROB	145.98 333 PKP	58 07.70	-0.2	
PZZ	146.14 334 PKP	58 08.21	-0.1	
MAF	146.36 341 ePKP	58 10.20	1.8	
	0.4s	2.30nm		
TCF	146.41 341 ePKP	58 10.20	1.7	
	0.9s	6.55nm		
MFF	146.80 344 ePKP	58 11.10	2.0X	
	0.8s	9.40nm		
BCAO	147.50 254 iPKPc	58 15.50	4.3X	
	0.5s	20.00nm		
RJF	147.51 341 ePKP	58 13.10	2.8X	
LFF	148.07 342 ePKP	58 14.80	3.6X	
LPO	148.17 341 ePKP	58 15.00	3.6X	

S.D. = 0.9 an 41 of 48 obs.

& NOV 06, 1990 16h 59m 21.76s
57.517 N 155.740 W
DEPTH = 67.9km
ALASKA PENINSULA (12)
<AGS-P>.

KDC	1.76 81 eP	59 48.86	-1.8
	eS	00 10.82	
CDD	1.80 37 iP	59 49.94	-1.3
	eS	00 12.01	
MCNL	1.83 23 iP	59 50.23	-1.4
	eS	00 12.34	
SYI	2.09 57 eP	59 53.81	-1.4
	eS	00 18.79	
AUI	2.19 33 iP	59 55.30	-1.3
AUH	2.21 32 eP	59 55.65	-1.3
AGU	2.21 32 eP	59 55.74	-1.3
AUP	2.22 32 eP	59 55.82	-1.2
AUE	2.23 33 iP	59 55.99	-1.1
OPT	2.51 30 iP	59 59.57	-1.5
INW	2.90 27 eP	00 04.43	-2.1
INE	2.91 28 eP	00 04.64	-2.1
CNPM	3.10 48 eP	00 06.82	-2.6
	eS	00 40.90	
RED	3.29 27 eP	00 09.79	-2.3
RS2	3.33 26 eP	00 10.56	-2.2
RSO	3.33 26 eP	00 10.54	-2.2

REF	3.37 27 eP	00 10.92	-2.3
RDN	3.38 26 eP	00 11.03	-2.3
BRLK	3.39 46 eP	00 10.41	-3.0
NNL	3.43 41 eP	00 11.93	-2.0
RDT	3.52 28 eP	00 12.86	-2.3
NKA	3.98 34 eP	00 20.33	-1.3
CKL	4.08 24 eP	00 20.00	-3.2
BGL	4.13 23 eP	00 21.46	-2.4
SPU	4.13 26 eP	00 21.65	-2.2
SLKM	4.14 41 eP	00 20.72	-3.2
SEW	4.17 49 eP	00 20.89	-3.5
CRP	4.18 24 eP	00 22.05	-2.6
CGLM	4.25 25 iP	00 22.66	-2.9
NGC	4.31 24 eP	00 24.16	-2.2
LTJ	4.82 55 eP	00 29.13	-4.3
MTU	4.89 56 eP	00 30.26	-4.1
PMS	4.89 38 eP	00 30.55	-4.0
KNIM	5.02 52 eP	00 31.72	-4.6
PWA	5.10 33 eP	00 33.23	-4.2
PLRM	5.29 37 eP	00 35.22	-4.8
KNK	5.39 40 eP	00 36.50	-4.9
GHO	5.49 36 eP	00 37.70	-5.2
GLI	5.58 49 eP	00 38.16	-5.9
CUT	5.62 27 eP	00 39.92	-4.7
SML	5.71 38 eP	00 40.57	-5.4
VZW	5.90 49 eP	00 43.40	-5.1

42 obs. associated

NOV 06, 1990 17h 27m 54.71±0.19s
7.623 S ± 3.4km 159.163 E ± 4.7km
DEPTH = 39.2km (9 depth phases)
5.5mb (32 obs.) 4.9Msz (6 obs.)
SOLOMON ISLANDS (193)
Felt (II) at Maniara.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 17:28: 0.0 0.4
Lat 7.535 0.07 Lon 159.08E 0.06
Dep 23.6 4.2 Half-duration 1.7
Moment Tensor: Scale 10**16 Nm
Mrr= 6.36 0.34 Mtt=-2.06 0.51
Mff=-4.30 0.44 Mrt=-4.12 1.01
Mrf= 2.72 0.87 Mtf= 2.69 0.36
Principal Axes:
T Val= 8.23 Plg=69 Azm=201
N -0.60 10 317
P -7.63 19 51
Best Double Couple: Ma=7.9*10**16
NP1: Strike=157 Dip=28 Slip= 112
NP2: 313 64 79

SVO	1.65 157 iP	28 23.00	1.4
HNR	1.96 157 iPc	28 27.90	1.8
	iS	28 46.00	
RAB	7.75 296 eP	29 48.00	0.1
	eS	31 28.00	
PMG	12.01 261 eP	30 50.00	3.7X
	1.3s	192.31nm	6.1mb
YYYY	13.17 275 eP	31 10.00	8.0X
DZM	15.99 155 iPd	31 38.10	-0.5
CTA	17.61 224 iP	32 01.80	2.9
	0.8s	113.43nm	5.1mb
	iS	32 16.20	
	iS	35 26.00	
BRS	20.57 196 iPd	32 33.30	0.3
	iS	32 36.00	10kmX
	iS	32 48.00	
	eS	36 24.00	
RMQ	21.21 207 iPc	32 39.10	-0.4
	1.2s	882.00nm	6.0mb
SVA	21.48 121 eP	32 40.70	-1.5
QIS	22.88 234 iPc	32 56.80	0.7
	iS	33 03.90	26kmX
COO	23.83 196 iPd	33 06.40	1.1
GUA	25.34 326 eP	33 19.50	-0.3
	1.2s	475.00nm	5.9mb
GUMO	25.41 326 eP	33 20.00	-0.4
	1.2s	755.56nm	6.1mb
	pP	33 34.80	62kmX
PJG	25.41 326 eP	33 20.70	0.3
CMS	26.81 206 iP	33 32.80	-0.4
WB5	26.94 241 iPc	33 33.90	-0.7
	iPcP	36 56.50	
	eS	38 25.50	
WRA	26.99 240 P	33 34.00	-1.1

MTN	0.9s	187.50nm	5.7mb
	28.06 257 eP	33 44.00	-0.8
	0.3s	24.00nm	5.3mb
BWA	28.45 199 iPc	33 46.80	-1.4
CNB	28.99 197 iPd	33 53.50	0.4
	0.7s	71.00nm	5.4mb
CAN	29.10 197 iPc	33 53.80	-0.2
TOO	32.29 201 iPc	34 22.50	0.3
	0.8s	157.00nm	5.9mb
	iS	34 32.90	38km
BFD	33.07 205 iPc	34 30.20	1.3
	1.0s	109.00nm	5.7mb
KUPT	35.21 263 eP	34 39.00	-8.6X
MNG	35.94 159 eP	34 51.00	-2.5
WARB	36.01 235 iPc	34 53.70	-0.6
	0.4s	34.00nm	5.6mb
DAV	36.55 293 eP	35 00.00	1.1
LTZ	36.87 164 Pd	35 00.30	-1.1
KHZ	36.91 162 P	34 59.90	-1.6
FORR	37.11 227 iPc	35 02.50	-0.9
MBL	40.27 246 iPd	35 28.80	-1.1
COOL	42.38 232 iPd	35 46.90	-0.3
	0.3s	15.00nm	5.2mb
BKB2	42.59 276 ePd	35 51.00	2.0
NANU	44.48 246 eP	36 03.00	-1.3
BAG	45.03 302 eP	36 08.90	-0.1
KLB	45.32 233 iPd	36 09.90	-1.0
BAL	45.79 234 eP	36 13.40	-1.2
MRWA	45.89 236 eP	36 14.50	-1.0
TRT	46.09 267 ePc	36 18.30	1.1
NWAO	46.25 231 eP	36 17.20	-1.0
	1.0s	113.00nm	5.8mb
Z	20s	2.10um	5.1Msz
N	20s	0.80um	
E	20s	1.10um	
MUN	46.68 233 eP	36 21.10	-0.6
RKG	46.88 230 eP	36 25.00	1.8
	0.8s	83.00nm	5.8mb
KAKJ	47.11 339 eP	36 20.20	-4.7X
IIDJ	47.32 336 eP	36 25.80	-0.9
CHJJ	47.40 338 eP	36 27.50	0.3
MAT	48.13 337 eP	36 34.00	1.0
	eS	43 28.00	
TSRJ	48.17 334 eP	36 34.40	1.2
MTMJ	48.33 337 eP	36 31.00	-3.6X
NIJ	48.45 338 eP	36 39.30	3.9X
OZH	51.08 311 Pd	36 56.40	0.8
SSE	52.95 319 Pc	37 09.30	-0.3
	1.0s	19.00nm	5.0mb
Z	20s	0.50um	4.6Msz
	eS	44 35.00	
GZH	54.21 306 eP	37 19.00	0.0
NJ2	55.09 318 Pd	37 25.80	0.5
QIZ	55.35 299 eP	37 28.40	0.9
WHN	57.31 314 eP	37 40.00	-1.3
MDJ	58.43 336 eP	37 47.50	-1.4
TIA	58.81 321 eP	37 49.00	-2.7
PPI	59.00 274 eP	37 51.70	-1.7
SNY	59.01 330 eP	37 50.00	-2.9
	1.0s	0.90um	4.8MszX
Z	25s	0.90um	
	eS	45 50.00	
IPM	59.26 280 ePd	37 55.00	-0.2
CN2	59.59 332 iPd	37 56.20	-0.8
	1.0s	60.00nm	5.7mb
Z	15s	0.60um	4.8MszX
	eP	38 07.00	36km
SNG	60.21 283 eP	37 55.60	-6.0X
DRV	60.40 189 eP	38 10.00	7.8X
GYA	61.15 306 P	38 08.20	0.2
PCT	61.40 291 eP	38 11.00	1.3
BJI	61.82 324 eP	38 10.00	-2.2
	1.5s	39.00nm	5.3mb
Z	22s	0.37um	4.5Msz
	eS	46 28.00	
LOE	61.95 294 iPc	38 13.50	0.1
TIY	62.70 319 eP	38 17.50	-0.7
	N	15s	0.40um
NST	62.87 292 eP	38 20.30	0.8
XAN	63.06 314 P	38 20.40	-0.2
	1.0s	20.00nm	5.2mb
KMI	63.81 303 Pc	38 26.50	0.5
KMI	63.81 303 P+	38 27.00	1.0X
	1.5s	100.00nm	5.7mb
	pP	38 37.00	32km
BDT	64.37 293 eP	38 29.50	0.1
CHG	64.90 295 iPc	38 33.40	0.5
	1.2s	85.55nm	5.7mb

CHTO 64.90 295 iPc 38 33.30 0.4
1.5s 134.01nm 5.8mb
pP 38 43.80 34km
HHC 65.09 322 P 38 33.30 -0.5
CD2 65.39 309 P 38 35.40 -0.5
BTO 65.90 321 eP 38 39.00 0.0
LZH 67.69 314 Pc 38 50.00 -0.6
1.6s 100.00nm 5.6mb
Z 20s 0.49um 4.7Msz
pP 38 58.00 26kmX
PP 41 19.00
eS 47 45.00
GTA 72.05 316 iPc 39 17.70 0.6
1.0s 30.00nm 5.2mb
LSA 75.05 303 P 39 36.20 1.0
KDC 75.99 24 eP 39 39.80 0.5
0.9s 33.33nm 5.3mb
e 39 52.90 45km
TTA 78.20 19 e(P) 39 51.80 0.2
i 40 04.70 44km
GUN 78.99 300 P 39 57.60 0.5
1.0s 100.00nm 5.7mb
PKI 79.31 300 P 39 58.80 0.0
KKN 79.47 300 P 40 00.00 0.5
DMN 79.58 300 P 40 01.00 0.9
GKN 80.08 300 P 40 03.00 0.3
IMA 81.10 18 iP 40 06.80 -0.5
0.8s 5.17nm 4.6mb
i 40 20.40 47km
WMO 82.12 316 iPc 40 13.80 0.9
FBA 82.24 20 iP 40 11.90 -1.1
1.0s 37.50nm 5.4mb
i 40 25.30 46km
SPA 82.43 180 iPd 40 13.60 -0.6
0.7s 8.59nm 4.9mb
i 40 23.80 32km
HYB 83.39 289 iPd 40 20.00 0.1
1.0s 70.00nm 5.7mb
e 41 24.00 268kmX
GBA 83.81 285 P 40 23.00 1.0
MAW 85.41 202 iP 40 21.30 -7.8X
NDI 86.61 299 iPd 40 35.00 -0.8
LBFM 86.77 48 e(P) 40 37.60 1.0
POO 87.98 289 iPd 40 42.50 -0.1
1.0s 25.00nm 5.4mb
INK 88.87 20 eP 40 45.50 -0.3
TNP 89.66 52 e(P) 40 50.70 0.3
PNT 90.04 40 eP 41 05.00 13.3X
YKA 94.96 28 eP 41 13.40 -0.6
0.9s 8.20nm 5.2mb
MBC 95.32 14 eP 41 15.50 0.0
1.3s 9.00nm 5.1mb
QUE 95.69 300 eP 41 17.60 -0.7
ALO 97.89 56 e(P) 41 32.00 3.8X
Z 20s 0.53um 5.0Msz
NB2 121.60 342 PKP 46 44.90 -0.6
0.9s 4.00nm
NAI 121.84 264 ePKP 46 43.00 -4.6X
BUL 124.08 240 iPKPc 46 49.70 -2.0
0.8s 36.94nm
iP 47 00.60
KRI 124.51 244 iPKPd 46 40.00 -12.6X
SPC 126.13 328 ePKP 46 56.00 1.1
KSP 127.08 331 ePKP 46 57.00 0.6
CNCB 127.44 118 PKP 46 58.00 -0.8
LPB 127.44 117 PKP 47 00.00 1.4
ZOBO 127.53 117 PKPc 46 59.20 0.2
1.0s 30.00nm
SRO 127.99 327 ePKP 46 58.30 0.1
BRG 128.16 333 ePKP 46 59.10 0.7
1.2s 22.00nm
e 47 10.40
CLL 128.27 334 ePKP 46 58.00 -0.6
1.1s 12.00nm
ZST 128.39 328 ePKP 47 00.60 1.6
e 47 10.30
MOX 129.36 334 ePKP 47 02.00 1.2
SKO 129.40 320 ePKP 46 57.00 -4.1X
i 47 01.00
i 47 13.30
KHC 129.53 331 iPKPd 47 02.00 0.8
1.2s 8.00nm
OHR 130.25 319 ePKP 46 58.20 -4.6X
CDF 132.91 335 ePKP 47 07.60 -0.1
BSF 133.56 334 ePKP 47 08.60 -0.4
SIV 133.77 121 PKP 46 59.80 -10.4X
i 47 09.80

LOR 135.22 336 ePKP 47 12.80 0.8
1.2s 11.90nm
Z 21s 0.45um 5.2Msz
LPL 135.36 332 ePKP 47 13.50 0.9
LPG 135.37 332 ePKP 47 13.60 0.9
1.1s 12.20nm
SSF 135.53 336 ePKP 47 13.70 1.1
1.2s 16.35nm
SMF 135.73 336 ePKP 47 13.88 0.9
1.1s 9.75nm
AVF 135.81 336 ePKP 47 14.00 0.9
TCF 136.68 337 ePKP 47 15.90 1.1
1.3s 18.05nm
PPD 138.03 135 e(PKP) 47 13.50 -4.6X
VAO 140.25 141 ePKP 47 22.80 0.6
BCAO 140.73 268 iPKPc 47 17.30 -5.9X
0.4s 4.00nm
GUD 143.91 338 ePKP 47 25.80 -2.3X
TOL 144.53 337 iPKP 47 28.50 -0.5
1.2s 78.13nm
BAO 144.54 131 ePKP 47 28.50 -1.3
EVIA 144.97 335 ePKP 47 30.00 0.1
EPLA 145.10 340 ePKP 47 30.00 0.0
ENIJ 146.23 333 ePKP 47 34.50 2.5X
ECOG 146.57 335 ePKP 47 33.70 1.0
EHOR 146.79 337 ePKP 47 35.00 2.2X
EPRU 147.52 336 ePKP 47 37.50 3.4X
EVAL 147.55 339 iPKPc 47 38.00 3.9X
EJIF 148.06 336 ePKP 47 39.00 4.1X
IFR 150.42 333 iPKP 47 45.50 6.6X
AVE 151.59 336 ePKP 47 36.00 -4.4X
i 47 47.50
i 47 56.00
PDCR 152.96 138 ePKP 47 44.00 1.2
e 47 50.30
e 48 00.40
TIO 153.57 333 iPKP 47 52.50 9.0X
KIC 163.97 267 PKP 47 55.78 0.1
1.1s 19.50nm
LIC 164.24 266 PKP 47 56.10 0.2
1.0s 17.00nm
TIC 164.28 267 PKP 47 56.04 0.0
LKO 164.80 278 PKP 47 56.46 0.0
1.2s 29.50nm
S.D. = 1.0 on 127 of 155 obs.

NOV 06, 1990 18h 16m 29.46±0.69s
39.179 N ± 5.3km 20.546 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 3.0 (THE). MD 3.1 (ATH).

IGT 0.39 335 ePc 16 36.70 -0.8
eS 16 43.20
KEK 0.79 313 iPbd 16 44.00 -0.8
VLS 1.00 178 iPbd 16 49.00 0.6
EVR 1.02 105 ePb 16 47.00 -1.8
AGG 1.40 96 ePc 16 54.60 -0.4
eS 17 14.56
KZN 1.47 40 ePb 16 56.00 -0.1
FNA 1.73 21 ePd 17 01.20 1.5
eS 17 24.60
LIT 1.76 58 ePd 17 00.64 0.4
iS 17 24.32
OHR 1.94 6 iPn 17 04.10 1.3
NEO 2.08 86 ePn 17 05.00 0.1
ITM 2.27 151 ePg 17 12.20 4.6X
GRG 2.28 38 ePc 17 08.52 0.8
eS 17 37.88
PAIG 2.54 72 ePd 17 10.88 -0.4
VAY 2.64 35 ePn 17 12.70 -0.1
SKO 2.87 13 ePn 17 15.00 -1.1
VLI 3.10 142 ePn 17 20.00 0.7
S.D. = 1.0 on 15 of 16 obs.

NOV 06, 1990 18h 45m 52.23±0.11s
28.251 N ± 2.4km 55.462 E ± 1.5km
DEPTH = 10.6km (geophysicist)
6.2mb (95 obs.) 6.7Msz (33 obs.)
SOUTHERN IRAN (353)
Ms 6.7 (BRK), 6.2 (PAS).
Mo=1.3*10¹⁹ Nm (PPT). At least
22 people killed, 100 injured,
21,000 homeless and 18 villages
severely damaged in the Darab
area. Depth from broadband
displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 65 Dip=55 Slip= 90
NP2: 245 35 90
Principal Axes:
T P1g=80 Azm=335
P 10 155
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting. The preferred fault
plane is NP2.
RADIATED ENERGY
No. of sta: 8 Focal mech. F
Energy 4.8±1.4*10¹³ Nm
MOMENT TENSOR SOLUTION
Dep 4 No. of sta: 15
Moment Tensor; Scale 10¹⁸ Nm
Mrr= 5.14 Mtt=-4.44
Mff=-0.70 Mrt=-1.18
Mrf= 0.38 Mtf=-1.90
Principal axes:
T Vol= 5.35 P1g=80 Azm=217
N -0.02 9 69
P -5.32 5 338
Best Double Couple:Mo=5.3*10¹⁸
NP1:Strike= 59 Dip=40 Slip= 77
NP2: 256 51 101
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 40C M.W.: 6S, 13C
Centroid Location:
Origin Time 18:45:59.3 0.2
Lot 28.06N 0.02 Lon 55.25E 0.02
Dep 15.0 BDY Half-duration 8.0
Moment Tensor; Scale 10¹⁸ Nm
Mrr= 7.71 0.12 Mtt=-7.79 0.16
Mff= 0.08 0.12 Mrt= 2.28 0.45
Mrf= 1.81 0.39 Mtf=-0.90 0.12
Principal Axes:
T Vol= 8.37 P1g=76 Azm=302
N -0.10 10 80
P -8.27 9 172
Best Double Couple:Mo=8.3*10¹⁸
NP1:Strike=274 Dip=37 Slip= 107
NP2: 73 55 77

BBU 4.90 247 iPn 47 09.10 1.6
eSn 48 04.10
BEE 4.93 244 iPn 47 10.00 2.0
DHR 5.12 249 iP+ 47 12.20 1.5
TEH 8.23 336 ePd 47 52.00 -2.5
RYD 8.67 248 iP+ 47 58.30 -2.4
MAIO 8.72 22 iPc 48 04.20 2.9
0.8s 109.81nm 6.2mb
eS 49 43.00
MJMA 9.38 258 iP+ 48 07.60 -2.8
KER 9.38 312 ePc 48 09.00 -1.5
QUE 10.22 76 iPd+ 48 23.70 1.6
QASM 10.84 261 iP+ 48 27.30 -3.1X
AFIF 11.78 252 iP+ 48 44.30 1.0
UQSK 11.94 261 iP+ 48 43.00 -2.4
TAB 12.42 324 iPd+ 48 53.00 1.1
KMSA 12.70 234 eP 48 51.00 -4.7X
DSH 15.13 44 iP 49 27.50 0.0
DHJN 15.24 229 eP 49 23.70 -5.7X
SHBJ 15.97 289 Pd 49 35.79 -2.8
CSTJ 16.58 284 Pc 49 46.00 -0.3
BKR 16.61 327 iPc 49 50.00 3.3X
GHZJ 16.84 283 Pd 49 47.77 -1.8
WAJH 16.94 267 iP+ 49 51.30 0.5
MDSJ 16.99 286 Pc 49 49.48 -2.0
AYN 17.11 277 eP 49 51.30 -1.6
QTRJ 17.16 285 Pc 49 53.40 -0.2
JARJ 17.32 288 Pd 49 55.59 -0.1
MASJ 17.45 286 Pc 49 56.07 -1.2
MKRJ 17.50 286 Pc 49 56.86 -1.0
SALJ 17.51 287 Pc 49 58.78 0.7
LISJ 17.60 285 Pd 49 59.03 0.0
HRI 17.67 291 eP 49 59.20 -0.8
JVI 17.78 287 eP 50 00.20 -1.2
BHL 17.87 293 Pc 50 02.00 -0.5
S 53 32.00
PRNI 17.97 282 eP 50 01.40 -2.3
ZNT 18.09 288 eP 50 04.00 -1.2
RMN 18.30 282 eP 50 08.50 0.7
BOM 18.41 117 iPd 50 08.80 -0.4
iS 59 48.30

06d 18h

NDI	19.13	84	iPc	50	16.80	-1.2	SRS	29.01	305	P	51	54.90	0.7	PSZ	33.79	315	iP	52	36.80	0.5
	0.5s	366.20nm			5.9mb		PGB	29.04	308	iPc	51	55.00	0.5	BAI	33.96	302	P	52	36.00	-1.7
POO	19.43	116	iP	50	22.20	0.5	MMB	29.05	306	iPc	51	54.00	-0.6	GR1	33.98	298	P	52	38.80	0.8
	1.5s	611.11nm			5.7mb		SOH	29.10	304	P	51	56.10	1.0	SPC	34.08	318	iPd	52	39.30	0.4
		iS	53	59.00			THE	29.34	303	P	51	57.30	0.2			i	53	12.50		
OBO	19.78	218	iP+	50	25.35	-0.2	PTT	29.39	317	eP	52	01.00	3.4X	ORI	34.11	301	Pd	52	39.40	0.3
CSS	19.98	295	eP	50	27.80	0.3	MTUR	29.44	313	eP	51	58.50	0.4	TDS	34.14	300	Pc	52	40.10	0.8
MKL	20.08	217	iP+	50	28.68	0.0	AGG	29.45	300	P	51	57.30	-1.0	BUD	34.17	314	iP	52	39.70	0.2
TDD	20.14	218	iP+	50	29.28	0.0	ITM	29.46	296	eP	51	58.00	-0.4	CSI	34.19	300	P	52	41.00	1.2
ATA	20.27	217	iP+	50	30.78	0.1	CMP	29.47	313	iPc	51	59.00	0.6	CZI	34.25	299	P	52	41.70	1.5
KSH	20.33	51	Pd	50	30.00	-1.3	KNT	29.53	304	P	51	59.00	0.1	NAI	34.39	214	iPc	52	44.40	2.5
ARO	20.40	218	iP+	50	32.00	-0.1	LIT	29.56	302	P	51	58.60	-0.6			S	58	30.00		
KVT	20.41	314	iP	50	33.50	1.5	KKB	29.59	306	iPc	52	00.00	0.6	MMN	34.44	300	P	52	43.20	1.4
DAF	20.51	219	iP+	50	33.31	0.1	VTs	29.72	307	iPc	52	02.00	1.2	BLY	34.53	309	eP	52	43.70	1.1
HLD	20.57	219	iP+	50	33.87	0.1	DRA	29.74	312	ePd	52	04.00	3.3X	MSI	34.60	297	P	52	45.09	1.8
SGH	20.59	218	iP+	50	34.44	0.3	VAY	29.81	305	iPc	52	01.30	-0.1		0.7s	239.10nm			6.2mb	
KSU	20.63	219	iP+	50	34.37	-0.1		0.7s	278.00nm			6.2mb	KRA	34.63	319	iPc	52	43.40	0.0	
AMAN	20.68	263	iPc	50	35.30	0.5			i	52	08.60			0.8s	471.00nm			6.4mb		
AKSR	20.69	262	iPc	50	35.50	0.6	EVR	29.83	300	eP	52	01.00	-0.8	Z	12s	35.00um			6.3mszX	
KOT	20.71	280	eP	50	34.50	-0.7	GRG	29.84	304	P	52	01.90	0.2			i	52	45.60		
AGAL	20.92	262	iPc	50	38.50	1.2	COZ	29.94	313	ePc	52	02.50	-0.2			i	52	58.10		
GBR	20.92	218	iP+	50	38.03	0.5	OBN	30.10	338	iPc	52	04.60	0.8			iS	58	06.00		
AKRL	20.95	263	iPc	50	38.10	0.5		1.7s	2300.00nm			6.7mb	HVAR	34.67	306	iPc	52	42.70	-1.1	
AGMR	21.14	262	iPd	50	41.50	2.0	Z	22s	140.00um			6.6msz	ATN	34.67	297	Pd	52	44.80	0.9	
HLW	21.14	280	eP	50	39.50	0.0			iS	56	58.00		SRO	34.74	314	iP	52	44.80	0.5	
FRU	21.25	42	iPc	50	41.40	0.8	WMO	30.11	50	iPc	52	03.97	-0.2			i	52	54.90		
		iS	54	42.00			5.0s	8800.00nm			6.9mb X				i	53	06.00			
BBTK	22.01	308	iP	50	52.00	3.6X	Z	20s	79.70um			6.4msz			i	54	16.10			
KAS	22.03	312	iPc	50	49.10	0.6			ePd	52	06.62	9kmX	MGR	34.80	300	Pc	52	45.70	0.7	
BCK	22.77	300	iP	50	56.10	0.2			ed	52	11.92		MEU	35.02	295	P	52	48.40	1.3	
ELL	23.11	298	iP	51	01.30	2.0			PP	53	04.00		PZI	35.03	295	P	52	48.30	1.2	
KSL	23.22	296	iPc	51	01.10	0.9			S	57	04.00		SGO	35.04	301	Pc	52	48.10	1.1	
ALT	23.62	304	iP	51	04.80	0.6	TNR	30.12	314	iPd	52	03.00	-1.2	MNO	35.26	297	P	52	50.50	1.3
SIM	23.79	320	iPc	51	08.00	2.3	KZN	30.15	302	iPc	52	04.60	0.1	ZST	35.63	315	iPc	52	51.70	-0.3
		iS	55	22.00			FNA	30.55	303	P	52	08.20	0.2			i	52	54.40		
HYB	23.81	112	iPc	51	08.00	1.9	VLS	30.65	298	eP	52	08.00	-0.9			i	53	02.00		
	1.0s	880.00nm			6.3mb		SKO	30.80	305	iPc	52	10.00	-0.1			i	53	10.10		
		eS	55	28.00				1.5s	664.00nm			6.3mb			i(PP)	54	22.00			
KHL	23.83	302	iP	51	08.50	2.3	N	11s	1.50um				GIB	35.79	297	P	52	53.50	0.0	
GPA	23.92	307	iP	51	08.30	1.3	E	11s	128.60um				DUI	35.84	303	Pd	52	54.70	0.8	
IZI	24.53	306	iP	51	14.70	1.7			i	52	13.00		PUL	35.88	338	iPc	52	54.50	0.6	
HRT	24.57	307	eP	51	13.70	0.3			i	52	26.80				iS	58	34.00			
YLV	24.68	307	iP	51	15.70	1.2			iPP	53	09.00		FAI	36.03	295	P	52	57.50	2.0	
CIN	24.73	299	eP	51	06.00	-8.8X			iS	57	31.00		VBY	36.04	310	iPc	52	56.40	0.9	
AAE	24.76	223	iP	51	18.70	3.1X			i	57	52.50		MCT	36.08	296	P	52	57.70	1.6	
KAP	25.04	294	iPc	51	18.00	0.2			i	58	03.00			2.8s	6169.50nm			7.0mb		
ISK	25.09	308	eP	51	18.00	-0.3			iSS	58	59.50		VKA	36.15	314	iPc	52	56.50	0.1	
GBA	25.11	121	Pd	51	18.40	-0.2			iSSS	59	26.00			3.3s	5492.00nm			6.8mb X		
	1.3s	199.30nm			5.6mb		KBN	30.93	303	iPc	52	11.50	0.3	Z	16s	93.10um			6.7mszX	
IZM	25.56	301	iP	51	24.50	1.8	LSK	30.99	302	eP	52	11.40	-0.5			i	53	33.20		
CTT	25.56	307	iP	51	23.20	0.5	OHR	31.05	304	iPc	52	12.50	0.1			i	53	58.90		
EDC	25.69	305	iP	51	25.00	1.1		1.2s	1128.00nm			6.6mb			i	54	36.10			
GKN	25.71	84	P	51	24.60	0.2			i	52	16.20				i	58	35.00			
SMG	25.72	299	iPc	51	25.50	1.4	IGT	31.07	300	P	52	11.30	-1.3			i	59	04.00		
DMN	26.17	84	P	51	29.20	0.4	LSA	31.18	79	iPc	52	14.30	0.1			LR	10	41.00		
NPS	26.26	293	iPc	51	31.00	1.7	Z	12s	29.00um			6.2mszX	SDI	36.32	303	P	52	57.90	0.0	
DMK	26.28	308	eP	51	29.50	0.1			P	52	22.00	27kmX	USI	36.50	298	P	52	57.61	-1.8	
KKN	26.30	84	P	51	30.20	0.2			S	57	20.00			1.9s	2978.00nm			6.8mb		
PKI	26.44	84	P	51	31.40	0.0	SRN	31.39	301	iP	52	15.20	-0.1	RIY	36.60	309	eP	52	59.80	-0.3
PRK	26.52	302	eP	51	33.10	1.5	PHP	31.45	305	iPc	52	14.80	-1.0	AZI	36.64	303	Pc	53	01.60	1.1
APE	26.60	297	eP	51	33.50	1.0	TPE	31.46	302	eP	52	14.50	-1.5	CEY	36.66	310	ePc	53	01.10	0.3
PSN	26.76	312	iPc	51	35.00	1.3	BMR	31.47	317	ePd	52	33.00	17.0X	LJU	36.67	310	ePc	53	01.00	0.2
GUN	26.81	83	P	51	35.00	0.2	KEK	31.51	301	iPc	52	06.10	-10.3X			eS	58	42.00		
ALN	27.17	305	P	51	38.10	0.5	BERA	31.59	303	iPd	52	16.30	-0.7	AQU	36.72	304	P	53	02.40	1.1
TLB	27.26	314	ePc	51	38.00	-0.3	TIR	31.79	304	iPd	52	18.00	-0.8	KSP	37.08	318	eP	53	03.30	-0.9
JMB	27.33	309	iPc	51	40.00	1.0			iS	57	44.00				iC	53	04.40			
VAM	27.42	293	eP	51	41.20	1.3	BZS	31.82	312	eP	52	19.00	-0.1			iPP	54	36.00		
CFR	27.47	315	eP	51	39.50	-0.7	VLO	31.88	302	iP	52	18.10	-1.5	VOY	37.10	310	ePc	53	04.50	0.0
RDO	27.62	306	iPc	51	42.00	0.4	BCL	31.89	306	eP	52	19.00	-0.6	TRI	37.11	309	ePd	53	03.30	-1.1
KDZ	27.86	307	eP	51	43.00	-0.9	PUK	31.93	305	eP	52	19.40	-0.6			i	01	46.00		
DIM	27.91	307	eP	51	45.00	0.7	LACI	31.97	304	iPc	52	19.80	-0.6	RDP	37.14	303	P	53	03.80	-1.1
ATH	28.19	298	iPc	51	48.00	1.2	PVY	32.01	306	eP	52	22.00	1.1	RMP	37.16	303	P	53	05.80	0.9
		eS	56	44.00			TIM	32.13	312	iPc	52	23.00	1.3	ARV	37.24	306	Pd	53	06.20	0.6
RZN	28.37	306	iPc	51	49.00	0.3	IVA	32.14	307	eP	52	22.20	0.2	PTS	37.37	295	P	53	06.90	0.2
BUC	28.43	312	iPc	51	49.50	0.6	SDA	32.21	305	iPd	52	21.70	-0.8	ASS	37.37	305	Pd	53	07.80	1.0
BUC1	28.45	312	iPc	51	48.00	-1.0	BEO	32.32	310	iP	52	22.00	-1.4	KMR	37.48	313	iP+	53	08.30	0.8
ISR	28.45	314	ePc	51	50.00	0.8	ULC	32.38	305	eP	52	23.00	-1.0			iPP	54	31.60		
PVL	28.47	310	iPc	51	50.00	0.7	TIG	32.48	305	eP	52	24.00	-0.8			iPPP	54	53.50		
OUR	28.51	303	P	51	53.00	3.3X			eS											

			PP	54	44.00		CKI	40.70	306	P	53	33.80	-0.6			e	55	30.40			
			eS	59	00.00		FIN	40.73	306	P	53	33.51	-1.2			e	55	33.20			
CRE	37.97	306	Pd	53	12.30	0.5	CHG	40.78	94	iPc	53	36.20	0.9		HFS	42.53	330	eP	53	48.90	-0.2
FVI	37.98	311	P	53	11.80	0.1		1.2s	347.66nm				5.9mb		Z	0.5s	232.70nm			6.2mb	
VVI	38.08	310	P	53	13.00	0.3			eS	59	52.00					18s	60.08um			6.5MsZ	
SFI	38.09	306	Pd	53	14.50	1.9	CHTO	40.78	94	iPc	53	35.40	0.1				LR	11	06.00		
KHC	38.14	315	iPc	53	13.50	0.3			epPd	53	38.71	11kmX		HAU	42.55	311	eP	53	48.00	-1.6	
	1.0s	756.00nm				6.4mb			esPd	53	40.20				1.1s	228.95nm				5.8mb	
Z	20s	11.00um				5.7MsZ	STU	40.84	313	iPc	53	34.00	-1.5	BNS	42.61	316	iPc	53	50.60	0.7	
N	18s	62.00um						1.1s	278.48nm				5.9mb			iSS	03	41.00			
E	18s	53.00um					IMI	40.92	305	P	53	36.38	0.1	VITF	42.83	312	P	53	51.23	-0.5	
		e	59	06.00			ROB	40.98	306	P	53	36.07	-0.7	PLH	42.84	316	ePc	53	52.70	1.0	
GTA	38.15	61	iPc	53	14.60	1.2	ORX	41.08	308	P	53	35.97	-1.6	SOD	42.84	344	iP	53	53.00	1.4	
Z	22s	68.60um				6.4MsZ	SLE	41.09	311	iPc	53	37.00	-0.6	NST	43.05	97	iPc	53	56.00	2.1	
		pP	53	23.50		30kmX	ZLA	41.10	311	iPc	53	37.40	-0.3	GSH	43.05	315	ePc	53	54.80	1.2	
		sP	53	26.00			MMK	41.15	309	iPd	53	38.20	-0.2	WTS	43.08	317	iPc	53	54.90	1.2	
		PP	54	43.00			SAOF	41.17	306	P	53	38.24	-0.1		1.0s	456.00nm				6.2mb	
		S	59	04.00			SBF	41.24	305	eP	53	37.90	-1.1	MUD	43.11	324	iPc	53	55.80	1.9	
		sS	59	16.00			AUTN	41.26	306	P	53	39.47	0.2		0.4s	127.40nm				6.0mb	
		SS	01	40.00			ENR	41.29	306	P	53	37.92	-1.5	MEM	43.26	315	iPc	53	56.41	1.2	
PGD	38.17	306	Pc	53	15.10	1.5	AURF	41.32	305	P	53	39.69	0.0			id	53	59.35			
BHG	38.19	312	iPc	53	13.80	0.2	LZH	41.35	66	iPc	53	40.35	0.3	IRK	43.26	42	iPc	53	54.00	-1.3	
	1.6s	1040.00nm				6.3mb		7.0s	5350.00nm				6.4mb X			eS	00	23.00			
NUR	38.36	336	iP	53	15.20	0.5		Z	26s	78.90um			6.5MsZ	ENN	43.34	315	iPc	53	57.20	1.3	
	0.8s	173.10nm				5.8mb		N	13s	50.40um					1.0s	821.00nm				6.4mb	
		i	53	19.10				E	12s	25.40um						iPc	53	57.20		1.2	
		e	54	40.00					epPd	53	43.66	11kmX		WIT	43.37	318	iPc	53	57.20	1.2	
		e	59	00.00					esPd	53	45.15			LOE	43.76	94	iPc	54	00.50	0.8	
MAO	38.38	304	P	53	16.00	0.8			e	55	26.87			LBF	44.00	310	eP	54	00.20	-1.2	
BRG	38.48	318	iPc	53	16.00	0.1			iS	59	55.06			NB2	44.04	331	P	54	01.00	-0.4	
	1.4s	480.00nm				6.0mb			eSS	03	00.05			DOU	44.05	314	iPc+	54	02.30	0.7	
		i	53	19.40			STV	41.36	306	P	53	38.63	-1.3			S	00	35.00			
		iS	59	04.00			TOUF	41.39	306	P	53	40.40	0.1	SMF	44.06	309	eP	54	00.80	-1.0	
		i	02	08.00			BDT	41.42	96	iPc	53	41.50	0.9	DBN	44.08	317	iP+	54	03.00	1.1	
WET	38.59	315	iPc	53	16.80	-0.1		1.2s	726.60nm				6.3mb		Z	16s	20.00um			6.1MsZ	
		iS	59	12.50			FEL	41.43	311	eP	53	39.77	-0.7			ePP	55	48.00			
CTI	38.62	309	Pc	53	17.30	0.0	MVIF	41.45	305	P	53	40.79	0.0			iS	00	36.00			
MME	38.95	306	P	53	21.15	0.9	BHB	41.47	307	P	53	38.94	-1.8	LOR	44.11	310	eP	54	00.90	-1.4	
WATA	38.96	311	iPc	53	19.70	-0.4	RSP	41.52	307	P	53	39.15	-2.1		1.4s	612.65nm				6.3mb	
		i	53	23.10			APA	41.53	347	iPc	53	42.00	1.2		Z	18s	92.50um			6.7MsZ	
		i	53	29.80			DIX	41.53	309	iPc	53	41.10	-0.4	KONO	44.14	328	iPc	54	02.51	0.3	
BDI	39.00	306	Pd	53	20.00	-0.5	PZZ	41.55	306	P	53	39.35	-2.2			iPP	55	45.88			
PII	39.01	306	P	53	19.30	-1.1	LSD	41.63	308	P	53	41.81	-0.5	PLDF	44.14	308	P	54	02.16	-0.4	
SOTA	39.17	311	iPc	53	21.50	-0.4	TNS	41.65	315	ePc	53	44.80	2.7	SNF	44.32	315	iP	54	04.72	0.9	
	0.6s	213.00nm				6.0mb	BBS	41.69	311	P	53	42.18	-0.3	UCC	44.32	315	Pc+	54	04.90	1.1	
		i	53	26.90			STR	41.72	312	P	53	42.18	-0.5			S	00	35.00			
		i	53	30.00			FRF	41.79	305	eP	53	41.90	-1.4	SSF	44.33	310	eP	54	03.00	-1.0	
CLL	39.19	318	iPc	53	21.90	0.1		1.0s	114.00nm				5.6mb	LBL	44.35	307	P	54	03.85	-0.3	
	2.0s	680.00nm				6.0mb	RRL	41.82	307	P	53	43.35	-0.5	AVF	44.41	309	eP	54	03.50	-1.1	
		i	53	27.00			CD2	41.83	74	P	53	43.20	-0.7	AGO	44.49	308	P	54	05.25	-0.1	
		iS	59	22.60				N	18s	110.00um				ESEL	44.50	299	iPc	54	06.00	0.6	
OGA	39.22	311	iPc	53	22.70	0.3		E	16s	65.60um				PYM	44.55	308	P	54	05.72	-0.2	
SAL	39.31	308	Pc	53	23.40	0.5	EMS	41.86	309	iPc	53	43.30	-0.9	PCT	44.59	98	eP	54	09.00	2.6	
FUR	39.35	313	iPc	53	23.10	-0.1	LMR	41.87	304	eP	53	43.00	-1.0		0.9s	9.00nm				4.7mb X	
Z	17s	111.00um				6.8MsZ		1.7s	264.70nm				5.7mb	GRC	44.65	310	P	54	06.67	0.1	
		i	53	26.30			BNI	41.91	307	Pc	53	43.90	-0.6	KEV	44.65	346	iP	54	07.30	1.0	
SUF	39.43	339	eP	53	24.20	0.5	LPG	41.91	308	eP	53	43.40	-1.3		0.9s	442.70nm				6.4mb	
BRN	39.46	320	iPc	53	25.00	1.0		0.9s	396.70nm				6.1mb			e	56	00.00			
CGL	39.55	299	P	53	26.50	1.4	LPL	41.93	308	eP	53	43.40	-1.3	BGF	44.73	309	eP	54	06.10	-1.2	
HOF	39.55	316	iPc	53	25.20	0.3	WLS	41.96	312	P	53	43.82	-0.9	MAF	44.90	308	eP	54	07.70	-0.9	
	1.6s	200.00nm				5.5mb	LRG	41.98	305	eP	53	44.20	-0.7	KTk1	44.92	344	iPc	54	08.61	0.2	
Z	17s	80.00um				6.6MsZ		1.5s	240.25nm				5.7mb	TCF	45.15	308	eP	54	09.80	-0.8	
		i	53	28.70			MOF	42.00	311	P	53	44.67	-0.5	CAF	45.16	306	eP	54	10.00	-0.8	
LWI	39.69	225	iPc	53	27.70	1.1	CDF	42.01	312	eP	53	43.80	-1.4	GYA	45.24	80	P	54	10.80	-0.9	
LWI	39.69	225	iP+	53	28.00	1.4	ECH	42.05	312	P	53	45.12	-0.3		Z	16s	22.30um			6.2MsZ	
GRF	39.78	315	iPc	53	27.50	0.7	LOMF	42.12	310	P	53	46.04	-0.1		N	15s	61.10um				
	1.5s	1260.00nm				6.4mb	ABH	42.13	314	eP	53	45.97	-0.1		E	15s	63.40um				
Z	19s	81.00um				6.6MsZ	KMI	42.15	83	Pc	53	46.50	-0.3			S	00	51.00			
		e	53	30.70			KMI	42.15	83	P+	53	47.00	0.2X	BLS2	45.26	327	iPc	54	12.10	0.7	
		e	53	37.60				1.5s	700.00nm				6.2mb	RGS	45.30	333	eP	54	11.20	-0.3	
MOX	39.81	316	iPc+	53	27.50	0.5		Z	18s	38.70um			6.3MsZ	NSS	45.47	335	eP	54	12.55	-0.3	
	2.0s	1054.00nm				6.2mb		N	13s	16.10um				RJF	45.57	307	eP	54	13.40	-0.6	
Z	20s	72.20um				6.5MsZ		E	13s	17.10um					Z	19s	105.00um			6.8MsZ	
		pP	53	27.80		0.0										e	54	13.10		-1.2	
MDI	39.90	309	P	53	28.80	0.7			sP	54	01.50			XAN	45.69	69	iPc	54	14.70	-0.4	
BOB	39.92	307	Pd	53	28.80	0.7			S	00	05.00				1.0s	200.00nm				6.0mb	
PGF	39.98	304	eP	53	27.60	-1.0	BSF	42.23	311	eP	53	45.70	-1.3	LPO	45.78	306	eP	54	14.90	-0.7	
VDL	40.19	310	iPc	53	30.50	0.0	BCAO	42.33	243	iPc	53	48.15	0.1	NPA	45.85	202	iP	54	15.00	-1.4	
SAX	40.42	311	iPc	53	32.10	-0.3		0.9s	170.00nm				5.8mb		1.5s	440.00nm				6.2mb	
PCP	40.53	307	P	53	31.97	-1.1			epPd	53	51.63	12kmX				e	56	25.00	</		

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BKB2	65.70	106	ePc	56	42.00	2.6	COOL	85.88	128	eP	58	33.50	0.0				ePS	15	13.27		
TRT	65.71	114	ePd	56	37.80	-1.6	JAY	86.99	94	ePd	58	40.20	0.8	ALO	114.87	344	ePd	00	49.00	3.6X	
TKSJ	65.98	63	eP	56	39.80	-1.1	WARB	87.19	122	iPd	58	40.80	0.8	ALO	114.87	344	ePKP	04	29.00	-6.2X	
TSRJ	66.99	61	P	56	45.60	-1.7		0.6s	21.00nm			5.6mb					e	04	37.70		
WKYJ	67.12	62	eP	56	47.40	-0.9	SVW	87.44	15	ePc	58	42.20	1.4	FRI	114.95	356	ePKP	04	20.30	-14.7X	
MBO	68.00	275	iPc	56	54.40	0.4	ADK	88.06	29	e(P)	58	45.40	1.6	LLA	115.39	357	ePKP	04	31.50	-4.4X	
MTMJ	68.04	59	P	56	52.90	-1.2		Z 18s	38.10um			6.9Msz		PRS	115.69	357	ePKP	04	36.60	0.1	
YSS	68.14	47	iPc	56	52.00	-2.4	PMR	88.29	11	iPc	58	45.50	0.8	PRI	115.85	357	ePKP	04	24.00	-13.0X	
			eS	05	52.00			1.4s	705.60nm			6.8mb		ISA	116.17	354	ePKP	04	37.00	-0.5	
MAT	68.36	59	iPc	56	54.20	-1.8		Z 21s	67.70um			7.0Msz		GSC	116.37	353	ePKP	04	41.00	3.1X	
			eS	05	51.00		TOA	88.29	10	iPc	58	46.60	1.7	SBB	117.08	354	ePKP	04	43.00	3.7X	
SAP	68.48	52	eP	56	55.00	-1.5	YKA	89.22	355	eP	58	49.00	-0.2	TPC	117.46	352	ePKP	04	42.00	2.0X	
IIDJ	68.49	60	P	56	55.50	-1.4		1.0s	151.90nm			6.2mb		DZM	117.97	101	iPKPc	04	44.00	2.7X	
MRRJ	68.50	53	eP	56	54.20	-2.5	CBM	89.51	325	P	58	52.00	1.1	SPA	118.09	180	iPKPc	04	39.50	-0.8	
AOMJ	68.62	55	eP	56	58.40	0.9	WB5	89.97	113	iPc	58	53.00	-0.3		1.1s	83.33nm					
NIIJ	68.72	58	P	56	56.80	-1.4	WRA	89.98	113	P	58	53.00	-0.4		Z 20s	3.60um				6.0Msz	
ASAJ	69.03	50	P	56	58.50	-1.5		1.3s	72.20nm			5.7mb		PLM	118.30	353	PKP	04	42.00	0.2	
CHJJ	69.12	60	P	56	59.50	-1.2	HYT	90.62	6	Pc	58	57.40	1.5	BAR	118.95	352	ePKP	04	44.00	1.2	
DAV	69.17	93	eP	57	02.00	0.7	KDC	91.17	15	ePc	58	59.30	1.0	SIV	120.53	267	PKPc	04	46.00	-0.2	
	2.4s	3280.00nm			7.1mb		SDN	91.23	20	e(P)	59	00.60	2.0			i	06	09.40			
YAMJ	69.17	57	P	57	00.00	-1.0		Z 19s	63.70um			7.1Msz		HON	121.06	37	PKP	04	55.00	7.9X	
KAKJ	69.96	59	P	57	04.20	-1.6	HBVT	93.79	326	P	59	12.60	1.9		Z 21s	27.37um				6.9Msz	
OFUJ	70.06	56	P	57	06.20	-0.1	HRV	94.35	324	ePc	59	14.07	0.8	UPA	122.90	304	ePKP	04	50.50	-0.3	
HOJ	70.06	52	eP	57	04.90	-1.4			ePP	02	57.77			Z 20s	35.46um				7.0Msz		
CER	70.22	212	iPc	57	07.00	-0.3	RSNY	94.37	327	iPc	59	13.00	-0.3			i	04	53.60			
	0.9s	246.15nm			6.3mb			1.3s	90.09nm			6.0mb				i	06	28.00			
KUSJ	70.79	51	eP	57	08.80	-1.9	SIT	94.54	6	e(P)	59	17.20	3.4X	MZX	125.95	339	(PKP)	04	59.00	2.5X	
CRZF	74.40	183	iPc	57	36.00	4.3X		Z 22s	43.00um			6.9Msz		IISM	126.19	328	(PKP)	04	59.00	1.9	
			ePP	00	30.00		QIS	94.59	111	eP	59	14.00	-0.6	PPM	126.70	329	(PKP)	04	59.00	0.3	
			eS	07	15.00		FFC	95.11	347	iPc	59	17.30	0.7	ZOBO	126.86	270	ePKP	04	54.00	-5.2X	
			eSS	12	10.00			1.0s	141.00nm			6.4mb				i	04	59.00			
			eSSS	15	30.00		MAW	95.72	177	eP	59	20.00	1.3	CRX	126.87	330	(PKP)	04	59.00	0.2	
PET	75.31	37	iPc	57	38.00	1.0		Z 19s	40.00um			6.9Msz		LPB	126.94	270	PKP	05	00.00	0.9	
			eS	07	12.00		PMG	95.86	97	eP	59	20.50	-0.1			i	06	55.00			
MBC	75.71	359	iPc	57	39.30	0.4		1.1s	68.35nm			6.0mb				eLR	54	20.00			
	1.0s	426.00nm			6.5mb		WVLY	97.87	328	P	59	28.80	-0.5	CNCB	126.94	270	PKP	05	00.00	0.7	
KUPT	76.06	110	eP	57	33.00	-8.9X	RAB	97.87	91	eP	59	28.00	-1.7			i	06	54.00			
	0.7s	345.50nm			6.6mb		EDM	98.29	353	iPc	59	32.00	0.9	MRX	127.25	332	(PKP)	05	02.00	2.9X	
ILT	76.09	18	iPc	57	42.00	0.8	PDCR	99.81	261	eP	59	39.50	1.1	OXX	127.51	326	(PKP)	05	01.00	1.1	
		iS	07	25.00			CTA	99.92	107	iPc	59	38.10	-0.7	AIA	127.68	208	ePKP	05	00.00	1.5	
NANU	76.86	125	eP	57	45.60	-0.7		1.1s	48.10nm			6.0mb		III	127.68	329	(PKP)	05	01.00	0.8	
BRW	78.17	10	eP	57	54.10	1.4		iSKS	10	18.00			KHZ	128.60	123	ePKP	05	00.70	-0.3		
FRB	78.33	338	ePc	57	54.00	0.3	CTAO	99.92	107	iPdIfc	59	37.47	-1.3	ACX	129.18	329	(PKP)	05	00.00	-2.8X	
PAF	78.36	170	iP	57	55.00	1.1		ePd	59	39.95		8kmX	SNZO	129.37	122	PKP	05	15.00	12.5X		
			ePP	00	50.00			eSPd	59	43.10					SKP	08	32.00				
			eS	07	50.00		SES	100.79	351	ePdIf59	43.00	0.8	ARE	129.90	272	ePKP	05	06.00	1.4		
			eSS	12	50.00		PNT	102.66	357	ePdIf59	55.00	4.5X	ANT	131.46	262	e(PKP)	04	52.50	-14.5X		
			eSSS	16	40.00		NEW	103.55	355	ePdIf59	55.70	1.2	CFA	131.55	252	ePKPd	05	08.00	1.0		
MRWA	81.33	130	eP	58	10.00	-0.4		1.2s	35.98nm			6.0mb		PEL	133.85	250	iPKPd	05	12.00	0.6	
MEKA	81.50	126	eP	58	12.00	0.7		Z 21s	59.09um			7.1Msz		CHCH	133.94	249	ePKP	05	12.00	0.5	
ANM	82.16	17	ePc	58	15.30	1.2	LHS	105.15	324	PKP	04	20.00	3.5X	LVN	134.57	249	ePKP	05	14.50	1.9	
BAL	82.68	130	eP	58	16.30	-1.1	LRM	105.47	351	ePdIf00	12.60	9.2X	RAR	147.32	86	PKP	05	40.00	4.4X		
	1.0s	189.00nm			6.2mb		RSCP	106.62	328	PKP	04	25.00	5.7X		S.D.	= 1.0	on 558 of 615 obs.				
GUMO	83.18	78	eP	58	16.20	-4.0X		Z 18s	33.55um			6.9Msz									
	0.8s	122.99nm			6.2mb		CCM	107.04	333	ePdIf59	53.68	-16.6X									
PJG	83.18	78	eP	58	16.20	-4.0X			iPP	04	37.91										
MUN	83.21	132	eP	58	19.20	-0.8			eSKS	10	47.44										
	1.1s	7.00nm			4.8mb X			iPS	13	54.50											
GUA	83.24	78	e(P)	58	19.00	-1.6			ePPS	14	53.68										
	Z 17s	14.93um			6.4MszX		BWA	107.61	120	e(PKP)	04	17.80	-3.4X								
KNA	83.28	112	eP	58	20.00	-0.6			e	04	42.50										
SMY	83.30	33	eP	58	20.80	0.6	CAN	108.39	121	e(PKP)	04	25.20	2.5X	BBU	4.81	246	ePn	31	35.70	2.3	
	Z 18s	28.60um			6.7Msz				e	04	50.40			DHR	5.03	249	iP+	31	39.00	2.5	
IMA	83.36	12	ePc	58	21.30	0.8	GLD	110.00	344	PKP	04	31.00	5.3X	TEH	8.21	337	ePc	32	22.00	0.8	
	1.4s	542.70nm			6.6mb			Z 20s	48.00um			7.1Msz		RYD	8.59	248	iP+	32	25.00	-1.5	
INK	83.50	3	iPc	58	21.70	0.7	GOL	110.08	344	PKP	04	20.00	-6.0X	MAIO	8.77	22	iPd	32	31.20	2.2	
	1.0s	293.00nm			6.4mb			Z 20s	38.35um			7.0Msz			1.0s	30.75nm				5.5mb	
SCH	83.60	330	ePc	58	22.00	0.3	TUL	110.67	335	e(PdIf00	31.20	4.7X			9.29	258	iP+	32	34.00	-2.2	
	0.5s	87.00nm			6.2mb			0.9s	4.00nm					QUE	10.31	76	iPd	32	51.70	1.4	
KLB	84.00	131	eP	58	23.10	-1.0	UYO	111.70	333	e(PKP)	04	22.00	-6.9X			1.0s	278.50nm			6.6mb X	
	0.7s	54.00nm			5.9mb		ORV	112.48	357	ePKP	04	13.20	-17.0X	QASM	10.75	261	iP+	32	54.00	-2.3	
NWAO	84.48	132	iPc	58	25.71	-0.7	MEO	112.68	337	e(PKP)	04	26.70	-4.0X	AFIF	11.69	252	eP	33	10.70	1.6	
	1.0s	198.00nm			6.3mb		TNP	113.66	354	PKP	04	34.00	1.2	UOSK	11.85	261	iP+	33	10.00	-1.2	
		ePd	58	29.35	12kmX		CMB	113.95	356	ePKP	04	19.20	-14.0X	TAB	12.38	325	eP	33	19.00	0.6	
RKG	85.05	133	eP	58	31.00	1.7	CMB	113.95	356	ePdIf00	49.50	8.4X	KMSA	12.62	234	eP	33	18.00	-3.6X		
	0.8s	83.00nm			6.0mb				eSKS	11	22.43		CSTJ	16.50							

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PRNI	17.89	282	iPc	34	29.70	0.1	SRO	34.68	314	iPc	37	10.10	-0.5	EMS	41.81	309	ePd	38	09.90	-0.5
RMN	18.22	282	iPc	34	34.20	0.5	MGR	34.73	301	P	37	11.20	0.0	BNI	41.85	307	Pc	38	09.70	-1.0
BOM	18.48	116	eP	34	31.80	-5.1X	SGO	34.98	301	P	37	13.90	0.7	LPG	41.85	308	eP	38	09.50	-1.4
NDI	19.22	83	iPc	34	44.00	-1.9	ZST	35.58	315	iP	37	17.10	-1.2		0.6s	26.60nm			5.1mb	
	1.2s	203.13nm			5.3mb		DUI	35.77	303	P	37	21.40	1.3	LPL	41.87	308	eP	38	09.60	-1.4
POO	19.50	116	iP	34	49.30	0.0	VBY	35.98	310	ePc	37	22.10	0.4		0.7s	31.40nm			5.2mb	
	1.3s	53.85nm			4.7mb		VKA	36.10	314	iPc	37	22.50	-0.2	CD2	41.92	74	eP	38	10.40	-0.9
KSH	20.41	51	eP	35	01.00	2.1		2.2s	213.00nm			5.6mb	CDF	41.96	312	eP	38	09.80	-1.7	
AKSR	20.60	262	iPc	35	01.90	1.1	SDI	36.26	303	P	37	24.30	0.2		1.1s	19.55nm			4.7mb	
AGAL	20.84	262	iPc	35	04.00	0.8	AZI	36.58	303	P	37	27.50	0.8	BSF	42.17	311	eP	38	11.90	-1.4
AGMR	21.05	262	iPc	35	07.50	2.0	LJU	36.61	310	ePc	37	25.50	-1.5		1.1s	43.95nm			5.1mb	
BBTK	21.96	308	iPd	35	17.00	2.4	KSP	37.04	318	ePc	37	29.80	-0.7	KMI	42.24	83	Pc	38	18.50	4.3X
KAS	21.98	312	iPd	35	16.20	1.4		1.5s	50.00nm			5.1mb		2.5s	260.00nm			5.5mb		
ELL	23.04	298	iP	35	27.30	1.9		e	38	53.50	437kmX			pP	38	25.00	22km			
KSL	23.15	296	eP	35	29.00	2.7		e	43	37.50			BCAO	42.24	243	iPc	38	15.00	0.9	
ALT	23.56	304	iP	35	29.80	-0.6	RDP	37.08	303	P	37	31.50	0.5		0.5s	23.00nm			5.2mb	
KHL	23.76	302	iP	35	34.50	2.2	ARV	37.18	306	P	37	42.00	10.2X		ic	39	40.00	446kmX		
GPA	23.86	307	iP	35	33.80	0.6	ASS	37.31	305	P	37	34.60	1.6	HAU	42.50	311	eP	38	14.30	-1.5
HYB	23.89	112	eP	35	35.00	1.4	PRU	37.77	316	P	37	36.10	-0.6		1.1s	31.75nm			5.0mb	
	1.2s	157.20nm			5.4mb			e	38	42.00	333kmX		HFS	42.50	330	eP	38	15.00	-0.6	
IZI	24.47	306	iP	35	39.70	0.5	FVI	37.92	311	P	37	38.10	0.1		1.2s	110.60nm			5.5mb	
KAP	24.96	294	eP	35	45.50	1.6	SFI	38.03	306	P	37	40.70	1.8	SOD	42.83	344	iP	38	18.70	0.4
GBA	25.17	121	P	35	48.10	2.1	KHC	38.09	315	iPc	37	40.00	0.5	WTS	43.03	317	eP	38	21.00	0.9
IZM	25.49	301	iP	35	50.00	1.1		1.4s	132.00nm			5.5mb		1.1s	49.00nm			5.2mb		
CTT	25.50	307	eP	35	49.00	0.1		e	43	31.50			MUD	43.07	324	iPc	38	21.00	0.7	
BNT	25.59	305	eP	35	50.00	0.3	PGD	38.11	306	P	37	41.30	1.4		0.6s	15.90nm			4.9mb	
EDC	25.62	305	eP	35	51.00	0.9	BHG	38.14	312	iPc	37	39.50	-0.3	NST	43.13	97	eP	38	23.50	2.2
SMG	25.65	299	eP	35	48.00	-2.3		1.7s	235.00nm			5.7mb	MEM	43.21	315	Pc	38	22.80	1.3	
GKN	25.79	84	P	35	51.40	-0.6	GTA	38.23	61	P	37	41.20	0.4	ENN	43.29	315	iPc	38	23.00	0.8
NPS	26.19	293	eP	35	58.00	2.6		2.0s	380.00nm			5.8mb		1.0s	89.00nm			5.5mb		
DMN	26.26	84	P	35	56.20	-0.2	NUR	38.34	336	eP	37	42.00	0.7	LOE	43.84	94	iPd	38	28.00	0.9
KKN	26.39	84	P	35	57.20	-0.3		0.7s	24.00nm			5.1mb	LBF	43.94	310	eP	38	26.20	-1.4	
PRK	26.46	302	eP	35	58.50	0.7	BRG	38.43	318	iPc	37	42.00	-0.2		1.3s	68.60nm			5.3mb	
PKI	26.53	84	P	35	58.60	-0.4		1.4s	48.00nm			5.1mb	DOU	43.99	314	P	38	28.90	1.0	
EZN	26.58	303	iP	35	59.30	0.4		e	39	18.60	545kmX		SMF	44.00	309	eP	38	26.80	-1.3	
PSN	26.70	312	eP	36	02.00	2.0	WET	38.53	315	iPc	37	42.70	-0.5	NB2	44.01	331	P	38	27.00	-0.9
GUN	26.90	83	P	36	02.00	-0.4		1.7s	177.00nm			5.5mb		1.2s	46.50nm			5.2mb		
ALN	27.11	305	P	36	01.30	-2.4	CTI	38.57	309	Pc	37	43.50	-0.1	LOR	44.06	310	eP	38	27.00	-1.5
TLB	27.21	314	eP	36	04.00	-0.6	MME	38.89	306	P	37	48.68	2.2		1.5s	78.35nm			5.3mb	
JMB	27.28	309	eP	36	02.00	-3.3X	BDI	38.94	306	P	37	46.80	0.1	SNF	44.26	315	P	38	30.70	0.6
CFR	27.42	315	eP	36	06.00	-0.5	SQTA	39.12	311	iPc	37	47.40	-0.8	SSF	44.27	310	eP	38	28.90	-1.4
RDO	27.55	306	eP	36	08.30	0.5		0.5s	34.30nm			5.3mb	AVF	44.35	309	eP	38	29.60	-1.3	
KDZ	27.80	307	eP	36	19.00	8.9X		i	37	51.50	14km			1.5s	107.05nm			5.5mb		
DIM	27.85	308	eP	36	06.00	-4.5X	CLL	39.14	318	iPc	37	48.10	0.0	KEV	44.64	346	iP	38	33.40	0.5
RZN	28.31	306	iPc	36	15.00	0.1		1.5s	105.00nm			5.3mb		0.7s	24.00nm			5.2mb		
PVL	28.41	310	iPd	36	16.00	0.5	OGA	39.16	311	eP	37	48.50	-0.2	PCT	44.67	98	eP	38	36.00	2.2
VRI	28.63	316	ePc	36	17.00	-0.5		1.5s	97.00nm			5.3mb	BGF	44.67	309	eP	38	32.40	-1.1	
PLG	28.86	303	eP	36	20.30	0.7	SAL	39.25	309	P	37	49.50	0.4		1.2s	71.40nm			5.4mb	
MLR	28.94	314	ePc	36	21.00	0.6	FUR	39.30	313	iPc	37	48.90	-0.6	MAF	44.84	308	eP	38	34.00	-0.9
CVO	28.95	315	eP	36	21.00	0.6		1.5s	144.00nm			5.5mb		1.2s	59.50nm			5.4mb		
SRS	28.95	305	P	36	20.60	0.2	SUF	39.42	339	eP	37	47.60	-2.7	TCF	45.09	308	eP	38	35.80	-1.1
PGB	28.98	308	iPc	36	21.00	0.3		0.6s	5.80nm			4.5mb		0.7s	23.15nm			5.2mb		
MMB	28.99	306	eP	36	21.00	0.2	GRF	39.73	315	iPc	37	53.30	0.2	CAF	45.10	306	eP	38	36.00	-1.0
SOH	29.04	304	P	36	21.60	0.3		1.5s	286.00nm			5.8mb		1.1s	42.75nm			5.3mb		
CMP	29.42	313	ePc	36	24.00	-0.6	MOX	39.76	317	iPc	37	53.50	0.2	RJF	45.51	307	eP	38	39.40	-0.8
KNT	29.46	305	P	36	25.20	0.1		1.7s	65.00nm			5.1mb		1.2s	101.15nm			5.6mb		
KKB	29.53	306	iPc	36	25.00	-0.6	MDI	39.84	309	P	37	53.80	-0.2	LSF	45.56	308	eP	38	39.30	-1.3
VTS	29.66	307	iPc	36	28.00	1.0	BOB	39.86	307	Pd	37	54.80	0.5		1.2s	47.60nm			5.3mb	
VAY	29.75	305	iP	36	27.70	0.1	VDL	40.13	310	ePd	37	56.80	0.1	LPO	45.72	306	eP	38	41.10	-0.7
EVR	29.77	300	eP	36	30.00	2.1	SAX	40.36	311	ePc	37	58.00	-0.7		1.3s	61.35nm			5.4mb	
GRG	29.77	304	P	36	27.90	0.0	TMA	40.48	309	ePd	37	58.90	-0.6	XAN	45.78	69	Pd	38	42.40	-0.1
COZ	29.89	313	eP	36	28.00	-1.0	VAI	40.51	309	P	38	01.50	2.0	LFF	46.04	306	eP	38	43.50	-0.9
KZN	30.08	302	eP	36	31.00	0.3	LLS	40.53	310	ePc	37	59.00	-0.9		1.2s	98.20nm			5.6mb	
WMO	30.19	50	iPc	36	30.70	-0.9	UPP	40.67	332	iP	37	59.70	-0.9	BTO	46.07	60	P	38	45.60	0.8
FNA	30.48	303	P	36	34.50	0.3	CHG	40.86	94	iPc	38	03.70	1.0	MFF	46.74	309	eP	38	48.50	-1.3
VLS	30.59	298	eP	36	21.00	-14.1X		1.3s	55.29nm			5.1mb	LDF	46.85	311	eP	38	49.10	-1.6	
SKO	30.74	305	iP	36	35.60	-0.7		40.86	94	iP	38	03.20	0.5		1.1s	48.85nm			5.5mb	
OHR	30.99	304	iPc	36	38.40	-0.2	CHTO	41.03	311	ePc	38	02.90	-0.9	FLN	47.11	312	eP	38	51.00	-1.7
	1.2s	109.00nm			5.6mb			1.6s	87.27nm			5.2mb		1.2s	89.25nm			5.7mb		
IGT	31.01	300	P	36	38.40	-0.3	SLE	41.05	311	ePd	38	03.60	-0.4	HMC	47.23	59	eP	38	54.00	0.0
LSA	31.27	79	eP	36	40.60	-1.1	ZLA	41.08	324	iPc	38	05.20	1.2	LPF	47.42	311	eP	38	53.80	-1.4
BMR	31.43	317	ePc	37	01.00	18.7X	COP	1.0s	204.00nm			5.8mb		1.1s	51.30nm			5.5mb		
BZS	31.77	312	eP	36	45.00	-0.4							TIY	48.16	63	Pc	39	01.00	-0.3	
BEO	32.27	310	eP	36	47.50	-2.2	MMK	41.09	309	ePd	38	04.30	-0.3		1.4s	200.00nm			6.0mb	
LCL	32.95	301	P	37	01.50	5.8X	SBF	41.18	305	eP	38	04.10	-1.1	Z	18s	7.90um			5.7msz	
PSZ	33.73	315	eP	37	02.90	0.3		0.8s	53.75nm			5.3mb	N	15s	0.40um					
ORI	34.04	301	P	37	05.00	-0.3	FEL	41.37	311	eP	38	05.24	-1.							

BJI	50.81	60	eP	39	20.00	-1.4
	2.0s	280.00nm			5.9mb	
EHOR	50.93	297	eP	39	21.20	-1.2
WHN	50.94	72	P	39	22.50	0.0
ETA	51.02	316	eP	39	22.20	-0.6
ECP	51.09	316	eP	39	22.40	-0.9
KRI	51.27	212	iPc	39	13.10	-12.2X
EJIF	51.31	296	eP	39	25.00	-0.3
IFR	51.56	292	eP	39	23.50	-3.9X
		i	39	27.00	12km	
EVAL	52.14	297	eP	39	31.00	-0.6
AVE	53.47	292	iP	39	41.50	0.0
		i	39	56.50	56kmX	
TIO	53.89	289	iP	39	44.90	0.1
NJ2	54.34	69	Pd	39	47.10	-0.7
	1.4s	100.00nm			5.7mb	
BUL	54.61	211	eP	39	48.40	-1.7
SSE	56.50	70	Pc	40	02.80	-0.7
TEGH	56.98	258	eP	40	06.50	-0.7
KUK	57.02	258	eP	40	08.00	0.5
LEGH	57.13	258	eP	40	07.50	-0.7
CN2	57.16	54	Pc	40	07.70	-0.4
WEGH	57.28	258	eP	40	08.30	-1.0
AKU	57.84	332	eP	40	07.40	-5.1X
	0.7s	19.18nm			5.2mb	
DAG	59.10	345	iPd	40	19.80	-1.4
	0.9s	21.85nm			5.3mb	
MDJ	59.95	53	eP	40	25.50	-2.0
LKO	60.00	265	Pc	40	26.74	-1.6
	0.6s	32.00nm			5.6mb	
KIC	60.73	261	Pc	40	32.38	-0.9
	0.6s	17.00nm			5.3mb	
TIC	60.84	261	P	40	33.00	-1.0
	0.7s	18.50nm			5.3mb	
BAG	60.85	86	eP	40	34.50	0.3
LIC	61.05	261	Pc	40	34.50	-0.9
	0.7s	23.00nm			5.4mb	
MAT	68.44	59	(P)	41	22.00	-1.2
DAV	69.26	93	eP	41	28.00	-0.5
MBC	75.72	359	ePc	42	05.00	-0.6
	0.5s	13.00nm			5.2mb	
BRW	78.20	10	eP	42	21.10	1.6
FRB	78.31	338	eP	42	21.00	0.8
MRWA	81.39	130	eP	42	37.00	-0.3
MUN	83.27	132	eP	42	46.00	-1.0
IMA	83.39	11	ePc	42	47.30	0.0
	1.4s	50.50nm			5.5mb	
INK	83.52	3	eP	42	47.00	-0.7
SCH	83.57	330	eP	42	51.00	2.8
KLB	84.06	131	eP	42	50.50	-0.5
NWAO	84.53	132	eP	42	50.70	-2.7
FBA	85.43	10	ePc	42	57.30	-0.1
	1.7s	71.20nm			5.6mb	
SVW	87.47	14	eP	43	09.80	2.2
PMR	88.32	11	eP	43	11.60	0.1
	1.4s	56.40nm			5.7mb	
TOA	88.32	10	eP	43	12.60	0.9
YKA	89.23	355	eP	43	17.00	1.1
	1.4s	29.70nm			5.4mb	
WB5	90.04	113	eP	43	04.80	-15.5X
WRA	90.05	113	P	43	20.00	-0.4
	1.0s	16.40nm			5.2mb	
FFC	95.10	347	eP	43	43.00	-0.2
	0.9s	16.00nm			5.5mb	
SIV	120.44	267	PKP	49	12.00	-0.7
ZOBO	126.77	270	PKP	49	26.00	0.4
LPB	126.85	270	ePKP	49	36.00	10.4X
CNCB	126.86	270	PKP	49	27.00	1.3

S.D. = 1.1 on 246 of 262 obs.

* NOV 06, 1990 20h 06m 11.04±0.86s
 12.450 N ±13.1km 144.223 E ±21.6km
 DEPTH = 33.0km (normal)
 SOUTH OF MARIANA ISLANDS (210)

GUA	1.27	32	eP	06	33.20	0.6
			eS		06 47.00	
GUMO	1.29	29	eP	06	32.70	-0.2
PJG	1.29	29	eP	06	32.50	-0.4
JAY	15.27	193	eP	09	46.00	0.0
MAT	24.59	348	(P)	11	35.00	5.5X
WB5	33.56	197	eP	13	02.00	11.7X
BJI	36.96	323	eP	13	23.00	4.0X
GKN	57.50	295	P	16	00.00	0.0
LPB	148.47	101	PKP	26	09.00	15.3X
CNCB	148.56	102	PKP	26	04.00	10.0X

S.D. = 0.5 on 5 of 10 obs.

NOV 06, 1990 20h 14m 29.74±0.10s
 53.452 N ±2.4km 169.871 E ±1.8km
 DEPTH = 24.8km (geophysicist)
 6.3mb (88 obs.) 7.0Msz (23 obs.)
 KOMANDORSKY ISLANDS REGION (4)
 Ms 6.8 (BRK), 6.5 (PAS).
 Mo=5.0*10**19 Nm (PPT). Felt
 (IV) on Attu and Shemya. Two
 events about 1.5 seconds apart.
 Depth from broadband
 displacement seismograms, based
 on second event.
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=53 Dip=84 Slip=90
 NP2: 233 6 90
 Principal Axes:
 T P1g=51 Azm=323
 P 39 143
 Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.
 RADIATED ENERGY
 No. of sta: 14 Focal mech. M
 Energy 4.9±1.2*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 24 No. of sta: 18
 Moment Tensor: Scale 10**19 Nm
 Mrr=1.32 Mtt=0.60
 Mff=-1.92 Mrt=3.33
 Mrf=2.45 Mtf=-1.08
 Principal axes:
 T Vol=4.53 P1g=51 Azm=342
 N 0.14 18 228
 P -4.67 33 126
 Best Double Couple:Mo=4.6*10**19
 NP1:Strike=166 Dip=21 Slip=27
 NP2: 51 81 109
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 43C M.W.: 9S, 24C
 Centroid Location:
 Origin Time 20:14:39.9 0.1
 Lat 53.77N 0.01 Lon 169.41E 0.02
 Dep 26.6 0.7 Half-duration 10.0
 Moment Tensor: Scale 10**19 Nm
 Mrr=1.32 0.03 Mtt=-3.00 0.03
 Mff=1.68 0.02 Mrt=4.33 0.16
 Mrf=2.89 0.11 Mtf=-0.02 0.02
 Principal Axes:
 T Vol=5.61 P1g=48 Azm=304
 N 0.41 21 60
 P -6.01 34 165
 Best Double Couple:Mo=5.8*10**19
 NP1:Strike=308 Dip=23 Slip=159
 NP2: 57 82 69

SMY	2.65	104	iPd	15	11.70	-0.1
ADK	8.32	95	ePd	16	29.70	-2.0
ILT	15.49	16	eP	18	10.00	2.1
			iS	21	22.00	
KUR	16.48	249	iPc	18	22.00	1.4
ANM	16.79	39	ePc	18	26.50	2.1
SDN	17.30	72	ePd	18	34.60	3.8X
Z	18s	514.30um				
YSS	18.45	261	iPc	18	46.00	0.8
			iS	22	06.00	
SVW	19.96	54	ePc	19	01.90	-0.7
TTA	20.09	48	ePc	19	03.40	-0.6
KDC	21.50	63	ePc	19	17.60	-0.7
SAP	21.52	253	iP	19	19.60	0.9
			eS	23	25.00	
IMA	21.88	41	ePc	19	21.40	-0.9
PMR	23.12	53	iPd	19	32.00	-2.3
Z	19s	259.80um			6.7Msz	
BRW	23.12	27	ePc	19	34.50	0.2
COL	24.01	45	ePd	19	39.87	-3.1X
FBA	24.01	45	ePc	19	43.00	0.0
TOA	24.53	52	ePc	19	48.30	0.2
MID	24.56	58	eP	19	48.60	0.3
TIK	25.42	331	iPc	19	56.00	-0.4
			eS	24	26.00	
MDJ	27.52	268	Pd	20	14.60	-1.4
	8.0s	*****nm			6.8mb X	
		pP	20	20.50	21kmX	

			sP	20	25.50	
			PP	21	02.00	
			S	24	55.00	
MAT	27.74	245	iPc	20	17.60	-0.5
			eS	25	05.00	
HYT	28.77	54	P	20	26.70	-0.6
INK	29.96	38	ePc	20	36.50	-1.2
	1.0s	515.00nm			6.3mb	
CN2	30.45	270	iPc	20	40.00	-2.3
	5.0s	9700.00nm			6.9mb X	
N	16s	545.00um				
E	16s	700.00um				
			S	25	43.00	
SIT	30.73	61	eP	20	42.10	-2.5
Z	18s	238.10um			6.9Msz	
HIA	31.05	283	ePc	20	45.21	-2.4
			ec	20	46.70	
			ec	20	52.99	
			ed	20	58.13	
			iPP	21	52.00	
			eS	25	51.07	
SHK	32.27	249	eP	20	59.40	1.1
SNY	32.72	268	iPc	21	00.00	-2.1
	8.0s	*****nm			6.9mb X	
N	13s	213.00um				
E	14s	500.00um				
			sP	21	15.00	
			iS	26	16.00	
MBC	34.38	24	ePc	21	15.40	-0.8
	1.0s	395.00nm			6.3mb	
DL2	35.70	266	P	21	28.00	0.1
	1.0s	700.00nm			6.5mb	
BJI	38.24	272	ePc	21	48.14	-1.0
	9.0s	*****nm			6.7mb X	
N	15s	540.00um				
E	17s	443.00um				
			ec	21	49.96	
			ec	21	56.92	
			ed	22	01.55	
			ePP	23	20.00	
			iPP	23	24.06	
			eS	27	40.75	
			iSS	30	31.25	
			eScS	31	59.00	
IRK	38.34	296	iPc	21	49.00	-0.9
			eS	27	52.00	
YKA	38.81	46	eP	21	53.20	-0.5
	0.9s	89.90nm			5.5mb	
OPA	40.04	130	P	22	05.00	0.7
TIA	40.17	266	P	22	04.30	-1.0
	7.5s	9600.00nm			6.6mb X	
N	16s	548.00um				
E	16s	394.00um				
			eS	28	12.00	
HHC	40.49	276	eP	22	07.40	-0.6
	1.6s	800.00nm			6.2mb	
Z	18s	686.00um			7.5Msz	
			pP	22	20.00	47kmX
			PP	23	48.00	
			S	28	08.00	
PGC	40.81	69	eP	22	11.00	0.7
	1.3s	994.00nm			6.4mb	
SSE	41.36	257	iPc	22	16.50	1.5
	7.0s	*****nm			6.8mb X	
N	14s	158.00um				
E	14s	179.00um				
			pP	22	27.00	36kmX
			PP	23	56.00	
			iS	28	28.00	
			SS	31	28.00	
BTO	41.56	277	iPd	22	17.00	0.2
	7.0s	*****nm			6.9mb X	
N	15s	151.00um				
E	15s	164.00um				
			sP	22	30.00	
			PP	23	58.00	
			S	28	31.50	
TIY	41.97	272	Pc	22	20.20	0.1
	8.0s	*****nm			6.8mb X	
E	15s	353.00um				
			S	28	31.00	
			eS	28	46.00	
			ScS	32	13.00	
NJ2	42.03	260	Pc	22	20.00	-0.6
	9.0s	*****nm			6.6mb X	
N	15s	266.00um				
E	15s	333.00um				

			iLR	35	05.00	
SAO	49.29	81	e(P)	23	19.00	0.7
PRS	49.63	81	eP	23	20.20	-0.7
LLA	49.69	80	eP	23	21.80	0.4
DAG	49.93	3	iPd+	23	20.80	-1.9
	0.9s	553	.78nm			6.6mb
FR1	50.16	79	eP	23	24.80	-0.1
TNP	50.88	76	P	23	30.50	-0.2
SYP	51.70	82	eP	23	37.00	0.2
CD2	51.84	272	P	23	36.50	-1.4
	1.2s	450.00	nm			6.3mb
N	14s	106.00	um			
		S		30	58.00	
GZH	51.96	257	Pd	23	39.20	0.5
	8.0s	*****	nm			6.9mb X
Z	20s	116.00	um			6.9MsZ
N	13s	94.50	um			
E	13s	92.80	um			
		sP		23	52.00	
		iS		31	00.00	
HKC	52.08	256	iP	23	41.40	1.8
BW06	52.09	67	iPd	23	39.00	-0.8
Z	20s	203.25	um			7.2MsZ
CLC	52.21	79	iP	23	41.00	0.4
WMO	52.27	295	ePc	23	40.13	-0.9
	6.0s	*****	nm			7.2mb X
		ec		23	41.79	
		ec		23	48.24	
		ed		23	52.55	
		ePP		25	44.03	
		eS		31	17.24	
		eSS		34	52.70	
		e		34	56.83	
		e		35	22.21	
MCO	52.58	256	eP	23	45.40	2.0
DAU	52.72	70	P	23	45.00	0.3
SBB	52.85	80	eP	23	46.00	0.6
GSC	53.03	79	ePc	23	46.74	0.0
		ed		23	54.19	
		e		27	50.88	
		e		28	35.90	
		eScP		29	02.06	
		iS		31	10.52	
		esS		31	28.31	
		e		31	38.24	
		eScS		33	32.45	
PAS	53.03	81	eP	23	45.00	-1.6
		ePP		25	38.00	
		ePPP		26	55.00	
		ePcS		29	10.00	
		eS		31	08.00	
		eSS		34	56.00	
		eLg		36	08.00	
MWC	53.04	81	eP	23	46.00	-1.0
BAG	53.17	245	eP	23	47.60	-0.4
		eS		31	05.00	
GYA	53.36	266	Pc	23	48.40	-0.9
N	20s	166.00	um			
E	20s	162.00	um			
RVR	53.61	80	eP	23	50.00	-0.9
PEC	53.80	80	P	23	51.00	-1.4
KEV	54.17	345	iP	23	53.40	-1.1
	1.0s	74.00	nm			5.7mb
TPC	54.31	79	eP	23	55.00	-1.1
PLM	54.36	80	eP	23	56.00	-0.6
QCP	54.36	244	eP	24	16.00	19.5X
FRB	54.65	28	eP	23	57.00	-1.1
BAR	54.95	81	eP	24	01.00	0.2
TRO	55.41	348	eP	24	02.66	-0.9
KTK1	55.41	346	ePc	24	02.19	-1.5
GLA	55.77	79	eP	24	08.00	1.3
JNW	55.82	359	eP	24	07.70	1.2
SOD	56.39	344	iP	24	09.50	-1.2
GOL	56.49	67	P	24	12.00	-0.2
GLD	56.54	67	P	24	14.00	1.6
	1.0s	2000.00	nm			7.1mb
Z	19s	142.99	um			7.1MsZ
KMI	56.70	268	ePc	24	13.02	-0.7
	6.0s	*****	nm			7.2mb X
Z	20s	93.62	um			

QIZ	57.15	257	iS	32	04.00	
	7.0s	*****nm	iPc	24	17.00	0.3
	N	14s	209.00um			7.1mb
	E	15s	140.00um			X
			PcP	25	12.00	
			PP	26	24.50	
			S	32	06.00	
			SS	35	58.00	
DAV	58.46	234	eP	24	24.00	-1.9
ANMO	59.26	72	ePc	24	31.43	-0.1
			iS	32	41.80	
			esS	32	54.49	
			esP	32	57.80	
			e	33	02.22	
			e	34	21.67	
			eSS	36	37.39	
ALO	59.26	72	iPc	24	31.50	-0.1
	1.0s		500.00nm			6.6mb
	Z	20s	117.02um			7.0MsZ
			i	24	41.50	
RAB	59.33	201	iPd-	24	31.00	-0.9
			iS	32	46.00	
FRU	59.83	302	iPc	24	33.60	-1.6
			iS	32	46.00	
LSA	60.21	281	iPc	24	37.80	-0.6
	N	15s	34.90um			
	E	13s	54.50um			
			pP	24	42.00	14kmX
SUF	60.72	342	eP	24	39.40	-1.5
AKU	61.03	4	iPc	24	43.70	0.8
	1.5s		1866.67nm			7.0mb
			i	54	12.90	
NSS	61.12	349	iPc	24	42.14	-1.4
KSH	61.59	299	Pd	24	48.00	0.7
	Z	30s	148.00um			7.0MsZ
	E	15s	77.00um			
REY	62.39	6	iP	24	56.00	3.9X
PUL	62.56	338	iPc	24	52.00	-1.2
			iS	33	23.00	
RGS	62.75	350	eP	24	53.00	-1.5
SVO	62.94	191	eP	24	55.00	-1.2
NUR	63.04	342	iP	24	54.90	-1.5
	1.1s		695.80nm			6.7mb
LOE	63.20	263	iPc	24	56.00	-2.0
HNR	63.21	191	eP	24	57.00	-0.9
MOL	63.49	351	eP	24	58.33	-1.0
CHG	63.77	266	iPc+	25	00.90	-0.9
			eS	33	48.00	
CHTO	63.77	266	ePc	25	00.55	-1.2
			ec	25	02.84	
			ec	25	09.16	
			ed	25	14.29	
MEO	63.78	67	iPc	25	01.30	-0.4
KKM	64.13	243	ePc	25	05.50	1.2
	1.2s		465.00nm			6.5mb
SIO	64.30	64	iP	25	04.30	-0.8
TUL	64.45	64	iPc	25	05.20	-0.9
	1.9s		18.20nm			4.9mb
	Z	20s	74.50um			6.9MsZ
NB2	64.60	349	P	25	04.60	-2.1
GUN	64.62	283	P	25	06.00	-1.7
RLO	64.67	63	iPc	25	06.30	-1.2
UPP	64.86	345	iPc	25	06.80	-1.5
			i	25	15.50	
			iS	33	48.50	
			iP'P'	53	53.00	
BDT	64.95	265	eP	25	09.00	-0.4
	1.2s		652.90nm			6.6mb
HYA	64.99	351	eP	25	08.43	-0.7
KKN	65.06	283	P	25	09.00	-1.4
OBN	65.15	333	iPc	25	09.00	-1.3
	1.2s		900.00nm			6.8mb
	Z	18s	510.00um			7.8MsZ
			iS	33	48.00	
PKI	65.15	283	P	25	09.60	-1.5
HFS	65.17	347	eP	25	07.90	-2.4
	0.7s		178.80nm			6.3mb
	Z	21s	223.96um			7.3MsZ
			LR	47	29.00	

			esP	34	11.30			ePP	28	41.40		E	22s	73.00um					
			eSKS	35	01.24			ePPP	30	25.20		III	75.84	78 (P)	26	16.00	0.2		
GKN	65.28	284	P	25	10.00	-1.7		eS	35	12.70		WET	75.94	345 iPc	26	15.50	-0.2		
DMN	65.30	283	P	25	10.80	-1.2	KSP	73.73	343	iPc	26	02.30	-0.6		1.2s	405.00nm	6.3mb		
SLM	65.30	58	P	25	15.00	3.5X		iPP	28	47.50		ABH	75.97	348 eP	26	15.36	-0.5		
	Z	18s			106.30um	7.1MsZ		eS	35	33.50		IIIT	76.02	77 (P)	26	21.00	4.2X		
NST	65.50	263	eP	25	13.00	0.0	KRA	73.79	340	ePc	26	03.10	-0.2	CTA	76.03	203 iPd	26	15.40	-1.0
PCT	65.52	262	eP	25	14.00	0.9		1.1s	645.00nm		6.6mb		1.2s	237.50nm			6.1mb		
PMG	65.53	205	eP	25	11.50	-1.6	Z	17s	211.80um		7.5MsZ X			iS	35	59.00			
	1.5s	833.33nm			6.6mb			i	26	10.60		CTAO	76.03	203 eP	26	14.46	-1.9		
FVM	65.70	59	P	25	12.80	-1.3		i	26	20.10		DOU	76.08	350 P	26	16.30	-0.1		
	1.0s	650.00nm			6.7mb			i	28	54.00		S	35	58.00					
ASK	65.76	352	eP	25	13.48	-0.5		i	35	50.00		ZST	76.13	342 iPc	26	17.10	0.4		
BER	65.84	352	eP	25	11.14	-3.4X	MRX	73.80	79 (P)	26	07.00	3.3X	i	26	22.60				
DSH	65.97	303	iPc	25	14.00	-1.9	IPM	73.82	255 ePc	26	04.80	0.9	i(PP)	29	07.50				
			eS	34	01.00			1.1s	116.90nm		5.8mb	e	36	06.80					
ELF	66.08	49	P	25	16.00	-0.4		e	26	36.30		VRI	76.17	334 ePc	26	16.50	-0.5		
DLA	66.22	50	P	25	17.50	0.2	CLL	73.82	345 iPc	26	02.40	-1.0	VKA	76.20	342 iPc	26	17.30	0.1	
LDN	66.26	49	P	25	16.90	-0.6		1.7s	880.00nm		6.5mb		6.0s	*****nm			7.1mb X		
UYO	66.48	64	iPd	25	18.00	-1.1		i	26	17.00			i	36	03.00				
BLS2	66.77	351	eP	25	20.38	-0.3		eS	35	36.00			i	36	13.00				
CLE	67.32	51	iP	25	24.40	0.1	MTN	73.86	219 eP	26	04.00	0.0	LR	07	13.00				
MZX	68.02	80 (P)	25	29.00	0.1		0.4s	106.00nm		6.2mb		SRO	76.26	341 iP	26	18.10	0.7		
NDI	69.00	290	eP	25	36.00	1.0	WTS	73.97	349 eP	26	04.00	-0.2	i	26	25.20				
MUD	69.31	349 iPc	25	36.90	0.5		1.0s	243.00nm		6.2mb		i	26	44.30					
	1.1s	261.80nm			6.3mb		DBN	74.04	350 iP+	26	06.00	1.4	i(PP)	29	18.10				
SCP	69.54	49	ePc	25	36.88	-1.2	Z	20s	77.80um		7.0MsZ	e(S)	36	11.20					
			iS	34	41.17			ePP	29	00.00		e	53	36.70					
			esS	34	52.20			iS	35	39.00		BUD	76.43	340 iP	26	19.20	0.8		
			esP	35	01.86		BRG	74.09	344 iPc	26	04.40	-0.6	CFR	76.43	333 eP	26	18.00	-0.4	
			e	35	06.55			2.0s	340.00nm		6.0mb	TEH	76.47	313 eP	26	19.00	0.0		
COP	69.65	347 iPc	25	38.90	0.4		Z	17s	186.00um		7.4MsZ X	LVVM	76.53	75 (P)	26	10.00	-9.4X		
	1.2s	725.00nm			6.7mb		N	20s	42.00um			PSI	76.56	256 ePc	26	19.20	-0.4		
			i	25	44.00		E	20s	173.00um			1.0s	122.50nm			5.9mb			
			i	26	01.00			iS	35	40.00		IISM	76.58	76 (P)	26	21.00	1.4		
EDR	69.82	356 iPc	25	38.80	-0.7			iP'P'	53	42.40		TAB	76.63	317 iPc+	26	20.00	0.1		
BKB2	69.97	238	ePc	25	45.20	4.3X	ETA	74.17	358 iPc	26	05.30	-0.1	MLR	76.73	335 ePc	26	20.00	-0.3	
RSCP	70.01	57	P	25	39.00	-2.0		1.1s	580.00nm		6.5mb	KMR	76.79	344 iP+	26	21.20	0.8		
	Z	20s			82.49um	7.0MsZ	ECB	74.52	358 eP	26	08.00	0.6	ACX	76.80	80 (P)	26	25.00	4.1X	
EDU	70.21	356 iPc	25	41.30	-0.6		KUPT	74.53	228 eP	25	58.50	-9.4X	STU	76.84	347 iPc	26	20.00	-0.7	
ELO	70.31	356 iPc	25	42.00	-0.5			0.6s	315.80nm		6.5mb	1.0s	200.00nm			6.1mb			
EBH	70.53	356 iPc	25	43.50	-0.3		SPC	74.56	340 iP	26	08.50	0.5	GWF	76.85	348 P	26	20.56	-0.2	
EAB	70.62	357 iPc	25	44.20	-0.2			i	28	50.00		ISR	76.90	334 ePc	26	21.50	0.4		
	1.1s	750.00nm			6.7mb			e	35	18.80		HYB	76.98	282 iPc	26	21.00	-1.0		
			i	26	03.40			e	35	49.70		1.0s	830.00nm			6.7mb			
ESY	70.82	356 iPc	25	45.10	-0.5		KGM	74.58	252 ePd	26	08.90	0.6		eS	36	08.00			
	1.0s	479.00nm			6.6mb		UZH	74.64	338 iPc	26	09.00	0.8	TNR	76.99	336 ePc	26	22.00	0.4	
			i	26	04.30			eS	35	44.00		TLB	77.02	333 ePc	26	21.50	-0.2		
EDI	70.84	356 iPc	25	45.10	-0.6		KLM	74.66	254 eP	26	09.00	0.3	DEV	77.10	337 ePd	26	25.00	2.8	
	1.0s	270.00nm			6.3mb		MOX	74.67	346 iPc+	26	07.50	-0.9	FUR	77.14	345 iPc	26	22.70	0.3	
			i	26	04.40			1.8s	808.00nm		6.5mb		1.2s	131.00nm			5.8mb		
TXNY	70.84	46 iP	25	45.10	-0.9		Z	14s	101.00um		7.4MsZ X	CMP	77.16	335 ePc	26	22.00	-0.6		
HRV	70.85	43 ePc	25	44.30	-1.7		ECP	74.69	358 iPc	26	08.50	0.1	PMO	77.19	138 iP	26	24.80	1.9	
			e	25	46.78			1.0s	522.00nm		6.5mb		1.2s	170.00nm			6.0mb		
			ed	25	56.38		IAS	74.73	334 eP	26	11.00	2.3	MTUR	77.20	335 eP	26	22.00	-0.8	
			eS	34	55.47		PRU	74.85	344 Pc	26	09.10	-0.3	STR	77.21	348 P	26	23.03	0.3	
			esS	35	06.79			1.0s	130.10nm		5.9mb	TPT	77.28	138 iP	26	25.30	1.9		
			esP	35	15.34		Z	17s	238.80um		7.6MsZ X		1.2s	360.00nm			6.3mb		
			eSKS	35	41.82			e	26	12.90		BHG	77.32	344 eP	26	23.60	0.2		
			e	35	56.17			PP	29	00.00		1.2s	223.00nm			6.1mb			
			eSS	39	38.62		CRX	74.91	78 (P)	26	12.00	1.4	KNA	77.42	220 eP	26	23.00	-1.2	
PVC	70.91	182 iPc	25	51.00	4.5X		SIM	74.93	329 eP	26	10.00	0.1	WLS	77.43	348 P	26	23.89	-0.2	
EAU	70.93	356 iPc	25	46.20	-0.1		BNS	74.95	349 iPc	26	10.00	0.1	CDF	77.44	348 iPc	26	23.70	-0.4	
EBL	70.98	356 iPc	25	46.20	-0.4			iS	35	57.50		VAH	77.51	138 iP	26	26.30	1.7		
	1.2s	437.00nm			6.5mb		HOF	74.96	346 iPc	26	10.00	-0.1		1.2s	130.00nm			5.8mb	
			i	26	04.40			1.1s	93.00nm		5.7mb	RUV	77.56	138 iP	26	26.90	2.0		
PNJ	71.08	46 iP	25	47.60	0.2		Z	14s	108.00um		7.3MsZ X		1.2s	360.00nm			6.3mb		
GMTN	71.09	46 iP	25	46.20	-1.3		DZM	75.26	183 iPc	26	12.70	0.6	TIM	77.62	338 iPc	26	25.00	0.0	
BLA	71.24	53 iPc	25	48.00	-0.5		PTT	75.27	335 eP	26	14.00	2.1	TRT	77.64	239 iPc	26	24.10	-1.4	
	0.6s	363.64nm			6.7mb		BMR	75.28	337 ePc	26	29.00	17.1X		1.0s	138.00nm			5.9mb	
EKA	71.43	356 Pd	25	50.60	1.3		ENN	75.28	350 eP	26	13.50	1.7	BZS	77.65	338 eP	26	35.00	9.8X	
	1.1s	448.30nm			6.5mb			1.2s	932.00nm		6.7mb	ECH	77.65	348 P	26	24.98	-0.2		
ESK	71.45	356 iPc	25	49.30	-0.1		UCC	75.41	351 P+	26	12.20	-0.4	BUC	77.69	334 iPc	26	24.50	-0.9	
	1.0s	480.00nm			6.5mb			S	35	49.00		BUC1	77.77	334 iPc	26	24.00	-1.8		
SVA	71.65	171 eP	25	56.90	5.9X		MEM	75.43	349 P	26	09.90	-2.7	KVT	77.79	326 iP	26	27.50	1.4	
CBN	71.86	50 iPd	25	51.60	-0.5		CEI	75.50	338 eP	26	34.00	20.8X	VITF	77.79	349 P	26	25.96	0.1	
	1.0s	190.00nm			6.1mb		TNS	75.52	348 ePc	26	12.80	-0.5	PSN	77.81	333 eP	26	28.00	1.9	
SNG	71.96	257 eP	25	53.30	0.3		GRF	75.66	346 ePc	26	14.30	0.2	FLN	77.83	353 iPc	26	25.60	-0.5	
	1.5s	538.89nm			6.4mb			1.2s	276.00nm		6.2mb		1.0s	468.75nm			6.5mb		
MAIO	72.29	307 iPc	25	54.20	-0.7		Z	18s	12.00um		6.2MsZ	Z	22s	107.50um			7.1MsZ		
	1.0s	45.50nm			5.5mb		SNF	75.70	351 Pc	26	13.80	-0.4	KBA	77.87	344 iPc	26	27.80	1.2	
BRN	72.71	345 iPc	25	57.20	0.3		PSZ	75.84	340 iP	26	16.00	0.8		i	26	36.40			
WIT	73.18	349 eP	26	01.00	1.4		KHC	75.84	344 iPc	26	15.60	0.4	FEL	77.88	348 P	26	26.17	-0.4	
JSC	73.19	55 P	25	59.00	-1.1			1.0s	392.50nm		6.4mb	WATA	77.90	345 iPc	26	26.80	0.0		
LHS	73.25	54 P	25	59.00	-1.4		Z	20s	25.00um		6.5MsZ		1.1s	445.00nm			6.4mb		
QUE	73.43	298 iPc	26	00.30	-1.5		N	22s	80.00um				i	26	27.20				
	1.1s	221.52nm			6.1mb								ic	26	34.10				

06d 20h

DRA	77.91	336	ePd	26	29.00	2.4	TCF	80.08	351	iPc	26	38.40	-0.1	EZN	81.91	332	iP	26	47.80	-0.3
SLE	77.92	347	ePc	26	26.50	-0.2	ORX	80.09	347	P	26	38.25	-0.4	REVF	82.03	347	P	26	49.15	0.4
HAU	77.96	349	iPc	26	26.60	-0.3	CTT	80.09	331	iP	26	38.10	-0.4	THE	82.04	335	P	26	48.80	0.1
	1.0s	156.25nm			6.0mb		MAF	80.11	351	iPc	26	39.00	0.4	OUR	82.06	334	P	26	48.80	0.0
LDF	77.98	353	iPc	26	26.50	-0.4	GBZT	80.13	331	eP	26	38.00	-0.7	CALN	82.08	348	P	26	49.72	0.6
MOF	78.01	348	P	26	27.00	-0.3	VTS	80.13	336	iPc	26	40.00	1.1	TIR	82.10	338	iPc	26	49.00	-0.1
SQTA	78.07	345	iPc	26	27.70	0.0	LSF	80.18	352	iPc	26	38.90	-0.1	OHR	82.11	337	iPc	26	38.00	-10.4X
	1.0s	386.00nm			6.4mb		PLD	80.21	334	iP	26	40.00	0.9		1.9s	1322.00nm				
		ic		26	28.30		PLDF	80.26	350	P	26	40.23	0.7			i		26	51.80	
		i		26	35.30		PLE	80.32	339	eP	26	41.00	1.1			i		26	57.00	
BSF	78.07	348	iPc	26	27.00	-0.6	GPA	80.33	330	iP	26	39.80	-0.1	PLG	82.16	335	iPd	26	50.00	0.5
EVV	78.18	75	(P)	26	33.00	4.6X	YLV	80.35	331	iP	26	39.60	-0.4	FNA	82.28	336	P	26	49.80	-0.3
QIS	78.21	209	ePd	26	26.50	-2.0	LSD	80.37	348	P	26	40.92	0.6	COR	82.29	348	iPc	26	51.20	1.1
		e		26	38.00		KDZ	80.45	334	iPd	26	50.00	9.5X			i		27	10.60	
ZLA	78.22	347	ePc	26	28.40	0.0	IZI	80.53	330	iP	26	40.70	-0.3	FRF	82.30	348	iPc	26	50.20	0.1
GRR	78.23	354	iPc	26	27.90	-0.4	PYM	80.54	351	P	26	41.67	0.7	KHL	82.37	330	iP	26	51.00	0.3
PPI	78.27	253	eP	26	28.50	-0.5	GBA	80.64	280	Pd	26	39.90	-1.9	LRG	82.44	348	iPc	26	51.30	0.5
KAS	78.27	328	iPc	26	29.10	0.4		1.6s	547.70nm			6.3mb			1.2s	650.85nm			6.6mb	
SAX	78.31	347	ePc	26	29.60	0.4	IVA	80.64	338	eP	26	42.00	0.4	AQU	82.45	343	P	26	52.10	1.1
BBS	78.35	348	P	26	28.81	-0.3	RSP	80.65	348	P	26	41.74	0.1	PRK	82.46	332	iPc	26	51.00	0.0
FVI	78.44	344	P	26	29.40	0.0	BOB	80.73	346	Pd	26	43.10	1.1	PAIG	82.52	334	P	26	49.90	-1.4
OGA	78.45	345	iPc	26	30.70	0.9	BNI	80.82	348	Pc	26	43.70	1.1	LMR	82.54	348	iPc	26	51.80	0.5
	1.1s	113.00nm			5.8mb		KKB	80.84	336	iPc	26	44.00	1.4	KBN	82.57	337	eP	26	51.50	0.0
OXX	78.46	77	(P)	26	32.50	2.2	GAZ	80.88	323	iP	26	43.50	0.7	KZN	82.64	336	iPc	26	52.00	0.0
BST	78.49	356	P	26	29.80	0.0	PVY	80.89	338	eP	26	42.50	-0.4	LIT	82.66	335	P	26	51.70	-0.3
LOMF	78.54	348	P	26	30.33	0.1	RDO	80.89	334	iPc	26	43.20	0.5	BERA	82.70	337	eP	26	52.70	0.5
LPF	78.60	354	iPc	26	30.20	-0.1	NKY	80.90	339	eP	26	43.00	0.1	MAO	82.77	344	P	26	52.10	-0.5
ZAG	78.62	342	iPc	26	31.20	0.7	BRV	80.91	339	eP	26	43.00	0.0	TPX	82.78	75	(P)	26	57.00	4.0X
BEO	78.66	338	iP	26	31.00	0.3	RRL	80.94	348	P	26	44.61	1.3	AZI	82.79	343	P	26	53.60	1.0
		eS		36	32.00		MMB	80.94	335	iPd	26	44.00	0.9	DUI	82.92	342	P	26	53.90	0.4
LJU	78.67	343	eP	26	30.70	-0.1	BHB	80.96	348	P	26	42.46	-0.7	BAI	82.97	340	P	26	53.00	-0.6
LLS	78.74	347	ePc	26	31.90	0.5	ALN	80.99	333	P	26	43.30	0.1	PGF	82.97	346	iPc	26	54.00	0.3
AFR	78.76	141	iP	26	30.60	-0.9	EDC	80.99	332	iP	26	44.00	0.7	IZM	82.97	331	iP	26	53.60	-0.1
	1.2s	370.00nm			6.3mb		LBL	81.03	350	P	26	44.41	1.0	SDI	83.00	342	Pc	26	54.20	0.4
VOY	78.79	343	ePc	26	31.20	-0.4	HVAR	81.08	341	iPc	26	43.10	-0.6	VLO	83.02	338	iP	26	54.80	0.9
POO	78.83	286	iP	26	31.20	-0.9	PCP	81.08	347	P	26	43.48	-0.3	LSK	83.07	337	iPd	26	55.60	1.3
	1.0s	184.00nm			6.1mb		BCI	81.08	338	iPd	26	44.50	0.8	TPE	83.07	337	eP	26	54.00	-0.1
		iS		36	29.00		MME	81.11	345	P	26	46.00	1.8	RMP	83.10	343	Pd	26	55.00	0.7
PPT	78.87	141	iP	26	31.20	-0.9	RJF	81.12	352	iPc	26	43.80	-0.1	RDP	83.14	343	P	26	54.70	0.1
	1.2s	180.00nm			6.0mb			Z	20s	105.00um		7.2msz		NEO	83.22	335	eP	26	54.70	-0.3
PAE	78.95	141	iP	26	32.60	0.0	SKO	81.14	337	iPc	26	44.10	0.0	RFI	83.36	342	P	26	56.41	0.8
	1.2s	315.00nm			6.2mb			1.5s	290.00nm			6.1mb			0.8s	2207.60nm			7.4mb	X
LOR	78.95	350	iPc	26	32.00	-0.4			i		26	49.50		MADF	83.45	353	P	26	56.06	0.0
	0.9s	281.50nm			6.3mb		SFI	81.19	344	Pd	26	46.00	1.7	EMON	83.46	358	iPc	26	56.30	0.2
	Z	20s	155.00um		7.3msz		TTG	81.20	338	eP	26	44.50	0.1	SRN	83.47	337	iP	26	56.40	0.3
CEY	78.98	343	ePc	26	32.50	-0.1	CKI	81.23	347	P	26	44.60	0.1	CIN	83.47	330	eP	26	57.00	0.8
GRC	79.00	351	P	26	32.96	0.4	BDI	81.25	345	P	26	44.80	0.1	EPF	83.47	352	iPc	26	56.00	-0.3
PVL	79.01	334	iPd	26	33.00	0.4	PGD	81.25	344	Pc	26	46.30	1.4		1.0s	187.50nm			6.2mb	
VDL	79.05	346	ePc	26	34.00	0.9	PZZ	81.31	348	P	26	44.92	-0.2	LCI	83.49	339	P	26	56.40	0.1
VBY	79.06	342	ePc	26	33.30	0.4	HCY	81.35	339	eP	26	45.00	-0.2	ATE	83.50	353	P	26	56.30	0.0
VVI	79.09	344	P	26	33.20	0.1	ARV	81.42	343	Pd	26	46.70	1.2	BOH	83.50	353	P	26	56.48	0.0
TRI	79.13	343	eP	26	31.60	-1.7	ROB	81.42	347	P	26	45.53	0.0	JAU	83.52	353	P	26	56.63	0.0
BOM	79.14	287	iP	26	33.70	0.0	SRS	81.42	335	P	26	45.70	0.1	ISSF	83.56	353	P	26	56.58	-0.2
		iS		36	48.70		PUK	81.43	338	eP	26	46.10	0.5	LHE	83.66	353	eP	26	58.25	1.0
CTI	79.15	345	Pc	26	33.40	-0.2	BDV	81.44	339	eP	26	45.60	0.0	KEK	83.67	337	iPc	26	57.80	0.6
SSF	79.19	351	iPc	26	33.40	-0.2	CAF	81.45	351	iPc	26	46.30	0.6	ELL	83.71	329	iP	26	57.50	-0.1
WB5	79.20	214	iPd	26	33.00	-0.9	FIN	81.45	347	P	26	45.12	-0.6	IGT	83.72	337	P	26	57.50	0.0
LBF	79.22	350	iPc	26	33.40	-0.5	CRE	81.46	344	Pd	26	46.80	1.0	SGO	83.82	341	P	26	58.10	0.1
WRA	79.27	214	P	26	33.00	-1.3	VAY	81.49	336	iPc	26	46.00	0.1	EVR	83.95	335	iPd	26	59.00	0.2
	1.0s	150.20nm			6.0mb			1.3s	599.00nm			6.5mb		ETER	83.97	350	iPc	26	59.80	1.1
RIY	79.37	343	iPc	26	34.10	-0.5			i		26	49.70		STS	84.03	359	iPc	26	59.40	0.4
JMB	79.38	333	iPc	26	35.00	0.3			i		26	59.70		ORI	84.07	340	P	27	00.10	0.8
BLY	79.42	341	eP	26	44.40	9.5X	ALT	81.52	329	iP	26	45.80	-0.4	ECRI	84.09	354	iPc	27	00.20	0.8
AVF	79.48	351	iPc	26	35.00	-0.1	STV	81.54	347	P	26	45.23	-1.0	MGR	84.18	340	P	27	00.00	0.2
KER	79.49	315	ePc	26	35.50	-0.1	ENR	81.54	347	P	26	45.02	-1.3	TBI	84.20	143	iP	27	01.80	1.9
TMA	79.50	347	ePc	26	35.90	0.3	LFF	81.55	352	iPc	26	46.40	0.3		1.3s	360.00nm			6.4mb	
SMF	79.57	350	iPc	26	35.30	-0.4	SDA	81.55	338	iPd	26	46.80	0.7	CSS	84.23	325	eP	27	00.50	0.4
DMK	79.65	332	eP	26	36.00	-0.2	KNT	81.55	335	P	26	46.70	0.4	MMN	84.33	340	P	27	02.20	1.7
MMK	79.68	347	ePc	26	37.60	1.0	PII	81.59	345	P	26	46.60	0.2	ATH	84.35	334	iPc	27	00.60	0.0
MDI	79.71	346	Pd	26	36.00	-0.4	PHP	81.65	337	iPd	26	46.90	0.2	CSI	84.38	340	P	27	01.40	0.6
DIX	79.72	348	ePc	26	37.80	0.9	RMO	81.69	199	eP	26	45.00	-2.0	KSL	84.39	329	iPd	27	01.00	0.1
VAI	79.75	347	P	26	36.80	0.2			e		26	57.00		ERUA	84.50	358	iPc	27	02.20	0.8
SAL	79.75	345	Pc	26	36.80	0.2							ROI	84.52	340	P	27	02.50	0.9	
BGF	79.76	351	iPc	26	36.60	-0.1	SAOF	81.76	347	P	26	47.79	0.5	APE	84.70	33				

ITM	85.56	335	iPd	27 07.00	0.2	IFR	93.28	356	iP	27 44.00	0.4					e	34 13.00	
KAP	85.64	330	iPd	27 07.40	0.2	AVE	93.58	358	iP	27 45.00	0.3	BLF	144.05	298	iPKPd	34 02.00	-2.6X	
EBR	85.66	352	iP	27 08.00	0.9				i	28 04.50			1.0s	170.00nm				
EROO	85.66	352	iPc	27 07.80	0.6	PORP	93.85	53	P	27 46.20	0.1				i	34 15.50		
VLI	85.74	334	iPc	27 06.50	-1.1	CPD	94.20	52	P	27 48.20	0.4	AIA	150.98	135	ePKP	34 21.60	7.3X	
JARJ	85.77	322	Pc	27 08.64	0.7	WEL	94.46	176	eP	27 55.00	6.9X	CER	151.00	302	iPKPd	34 23.00	7.6X	
MML	85.78	323	eP	27 08.70	0.7				PP	31 50.00			0.9s	153.85nm				
ETOR	85.85	354	iPc	27 08.50	0.2				SKS	38 18.00			S.D. = 0.9	on 561 of 616 obs.				
MBL	85.93	226	eP	27 10.00	1.4				S	39 00.00								
CGL	86.05	345	P	27 12.52	3.2X	AKSR	94.63	321	iPd	27 50.00	0.4		NOV 06, 1990	20h 57m	33.71± 0.44s			
	0.8s	26.50nm			5.5mb	MRWA	94.64	225	eP	27 51.00	1.7		53.309 N	±11.1km	169.827 E	± 6.4km		
SALJ	86.07	322	Pd	27 15.46	6.0X	AKRL	94.72	321	iPd	27 51.50	1.5		DEPTH =	33.0km	(normol)			
ATN	86.11	340	P	27 09.50	0.0	UPA	94.79	68	eP	27 50.00	-0.5		4.7mb (5 obs.)					
GUD	86.14	355	iPc	27 09.40	-0.4	AGAL	94.89	321	iPd	27 51.00	0.2		KOMANDORSKY ISLANDS REGION			(4)		
MDSJ	86.20	322	Pc	27 10.12	0.0	AGMR	94.90	321	iPd	27 52.00	1.1							
MASJ	86.31	322	Pc	27 10.98	0.3	TIO	95.94	358	iP	27 56.20	0.4	SMY	2.65	101	iPc	58 14.70	-0.2	
NPS	86.37	331	iPd	27 10.00	-0.8	KLB	95.99	223	eP	27 57.50	2.0	ADK	8.34	94	eP	59 33.70	-1.4	
ESEL	86.47	350	eP	27 12.20	1.0	NWAO	97.37	222	eP	28 04.70	3.1X	IMA	22.01	40	eP	02 26.20	-0.3	
MKRJ	86.49	322	Pc	27 11.85	0.3	NAI	115.21	306	iPKPc	32 57.00	-13.9X	FBA	24.13	45	eP	02 47.40	0.3	
CSTJ	86.50	321	P	27 11.32	-0.3	LKO	117.13	355	PKP	33 12.42	-1.9	MAT	27.66	245	eP	03 33.00	12.8X	
GIB	86.56	341	P	27 17.50	5.7X		1.0s	20.00nm				NEW	44.60	66	eP	05 46.30	2.1	
VAM	86.63	333	eP	27 12.20	0.1	TIC	119.98	354	PKP	33 18.96	-0.7	LZH	48.17	277	eP	06 13.20	0.5	
EPLA	86.79	357	iPc	27 13.10	0.3		1.1s	34.50nm					pP	06 22.50	31kmX			
LISJ	86.83	322	Pc	27 13.52	0.5	KUK	120.01	349	ePKP	33 20.00	0.2	TNP	50.94	76	eP	06 33.80	-0.2	
LVI	86.88	342	P	27 13.10	-0.1			e	34 44.50			KEV	54.30	345	eP	07 07.00	8.7X	
TOL	86.89	355	iPc	27 13.16	-0.2	SHGH	120.23	348	ePKP	33 20.00	-0.1	SOD	56.52	344	iP	07 16.60	2.2	
	1.2s	250.00nm			6.3mb			e	34 43.00		GOL	56.57	67	eP	07 16.00	0.4		
		ec		27 14.99		KIC	120.24	354	PKP	33 19.46	-0.7	ALO	59.33	72	eP	07 35.00	0.1	
		ec		27 21.77			1.0s	35.00nm			SUF	60.85	342	eP	07 43.70	-0.9		
		ed		27 26.08		LIC	120.39	354	PKP	33 19.80	-0.7		0.7s	8.00nm		5.0mb		
		iPP		30 12.00			1.1s	37.50nm			GUN	64.63	283	P	08 10.20	-0.4		
		eHPP		30 37.33		TEGH	120.52	348	ePKP	33 27.00	6.3X	NB2	64.73	349	P	08 09.40	-1.0	
		iPP		30 39.32				e	34 54.00			0.7s	5.80nm		4.8mb			
		ePPP		32 35.00		LEGH	120.53	348	ePKP	33 20.00	-0.7	KKN	65.07	283	P	08 12.80	-0.4	
		iS		37 36.00				e	34 47.00		PKI	65.16	283	P	08 13.80	-0.2		
		iPS		38 46.00		WEGH	120.60	349	ePKP	33 20.00	-0.9	GKN	65.29	284	P	08 14.00	-0.5	
		iSS		43 28.00				e	34 44.00		HFS	65.30	347	eP	08 11.90	-2.1		
ECHE	87.00	353	eP	27 14.50	0.6	ZOBO	121.84	73	PKP	33 22.00	-1.8		0.5s	4.00nm		4.8mb		
GHZJ	87.12	321	Pc	27 15.35	0.7	DRV	121.90	194	PKP	33 38.00	16.3X	DMN	65.31	283	P	08 14.60	-0.2	
CMS	87.13	200	eP	27 15.00	0.8	LPB	122.07	74	PKP	33 26.00	1.9	EKA	71.57	356	P	08 54.00	1.1	
MKT	87.22	322	eP	27 15.40	0.4	CNCB	122.36	74	PKP	33 25.00	0.2		3.1s	223.80nm		5.7mb X		
MEU	87.24	340	P	27 15.40	0.3	BAO	132.03	53	e(PKP)	33 34.00	-8.9X	DZM	75.12	183	iPd	09 41.00	27.0X	
PZI	87.31	340	P	27 15.92	0.5	KRI	132.15	304	iPKPc	33 32.50	-10.6X	WB5	79.07	214	eP	09 36.20	0.2	
	1.1s	200.20nm			6.3mb			ePP	35 33.00		WRA	79.14	214	P	09 36.00	-0.4		
FAI	87.32	341	P	27 19.50	4.1X	PAF	132.22	241	ePKP	34 00.00	18.0X		0.9s	4.80nm		4.5mb		
RMN	87.82	323	eP	27 18.20	0.2			ePP	37 05.00		ASPA	82.75	213	eP	09 56.50	1.2		
RYD	88.00	310	iP+	27 18.00	-0.9			ePPP	40 15.00			0.9s	5.30nm		4.6mb			
EVIA	88.05	354	iPc	27 19.30	0.3			eSKKS	43 50.00			S.D. = 1.1	on 22 of 25 obs.					
QASM	88.18	314	eP	27 19.30	-0.4			eSP	47 12.00									
MBH	88.38	322	eP	27 20.60	-0.1			eSPP	49 25.00			NOV 06, 1990	22h 17m	27.81± 0.48s				
RIV	88.43	195	eP	27 28.00	7.6X			eSS	55 50.00			9.439 N	± 5.3km	145.439 E	± 14.1km			
Z	20s	25.25um			6.6msz			eSSS	00 47.00			DEPTH =	42.7km	(6 depth phases)				
		e		30 40.00		PEL	133.06	90	ePKP	33 47.50	3.2X		4.9mb (3 obs.)					
		e		38 08.00		PDCR	133.13	40	ePKP	33 42.90	-1.9		CAROLINE ISLANDS REGION			(614)		
EBAN	88.59	355	iPc	27 21.60	0.1			e	33 48.40			GUA	4.11	353	iPc	18 28.30	-1.5	
EALH	88.75	353	eP	27 21.30	-1.0			e	34 00.50				4.16	352	eP	19 12.60		
HOL	88.77	322	iP+	27 23.20	0.8			e	34 05.80				0.7s	721.73nm		18 28.80	-1.7	
AYN	88.77	321	iP+	27 23.30	0.8	LNV	133.19	91	ePKP	33 46.00	1.6	GUMO	4.16	352	iPc	18 28.80	-1.7	
UOSK	88.94	314	eP	27 24.00	0.5	MDZ	133.98	88	ePKP	33 47.10	1.0		18.80	175	eP	21 46.00	-0.5	
DHLJ	89.00	326	Pd	27 15.42	-8.1X	BUL	135.45	303	ePKP	33 41.00	-8.3X	PJG	27.07	351	P	23 09.60	1.3	
EHOR	89.00	356	iPc	27 23.50	0.1			i	33 51.00			CHJJ	27.13	348	P	23 11.30	2.4	
EVAL	89.29	357	eP	27 24.80	0.0	PPD	135.77	61	ePKP	33 49.10	-0.6	MAT	27.77	347 (P)		23 13.00	-1.7	
KOT	89.33	325	eP	27 24.50	-0.6			e	34 00.50			MTMJ	27.90	347	P	23 20.00	4.0X	
BADA	89.46	321	iP+	27 26.00	0.3	VAO	138.80	57	ePKP	33 46.20	-9.2X	NIJJ	28.28	349	P	23 18.70	-0.6	
ECOG	89.46	355	iPd	27 25.60	-0.2			e	34 06.50			YAMJ	29.02	351	eP	23 32.20	6.2X	
BWA	89.48	198	eP	27 25.80	0.3	JFO	139.49	52	ePKP	33 51.90	-4.8X	OFUJ	29.71	354	eP	23 46.20	14.1X	
		i		27 35.90		BMA	139.93	53	ePKP	34 01.10	3.7X	QIS	30.36	191	ePc	23 36.60	-1.4	
AFC	89.48	355	iPc	27 25.90	-0.1			e	34 08.40			WB5	31.11	200	iPc	23 43.20	-1.5	
ENIJ	89.69	354	eP	27 26.40	-0.3			e	34 20.00				31.18	200	P	24 00.00	14.7X	
EPUR	89.85	356	iPc	27 28.10	0.6	SLR	140.24	299	ePKP	33 52.45	-5.6X		0.8s	9.90nm				
RKT	89.90	131	iP	27 30.20	2.6		1.2s	140.63nm			SSE	31.19	317	eP	23 55.00	9.7X		
	1.4s	150.00nm			6.0mb			ePP	37 02.24			N	14s	158.40um				
MAL	90.05	355	iPd	27 29.00	0.6			eSKP	37 42.63			E	14s	179.40um				
AFIF	90.07	313	iP+	27 29.00	0.2	SLR	140.24	299	iPKPd	33 56.50	-1.5							
CNB	90.18	197	eP	27 30.00	1.3		1.2s	140.63nm										
		i		27 33.00		CRZF	140.63	254	iPKPd	33 58.00	0.1							
		i		27 41.50		SEK	142.67	297	ePKP	33 57.00	-5.3X							
CAN	90.24	197	eP	27 30.30	1.3		0.4s	21.19nm										
		i		27 40.90		WIN	142.88	316	iPKPc	34 00.00	-2.8X							
EJIF	90.37	356	iPc	27 30.50	0.6		1.0s	70.00nm				ASPA	34.78	199	iPc	24 15.60	-1.0	
WAJH	90.98	319	iP+	27 33.30	0.5	SPA	143.27	180	iPKPd	33 57.20	-4.9X		0.7s	11.00nm		4.9mb		
FORR	91.45	215	eP	27 36.00	1.5		1.0s	370.00nm				WHN	35.77	310	eP	24 25.70	0.8	
TAF	91.84	354	iPd	27 37.00	0.2		Z	20s	6.31um		6.4msz	BRS	37.30	169	iPc	24 38.00	0.2	
		i		27 57.00		SPA	143.27	180	iPKPd	34 06.00	3.9X	DZM	37.48	147	iPd	24 41.10	1.6	
ADE	92.11	205	eP	27 39.00	1.4	MAW	143.83	218	iPKP-	34 00.00	-2.8X	SNY	3					

06d 22h

CN2	38.40	337	pP	24	53.00	43km	XAN	46.28	270	pP	35	30.20	44km	MEM	75.20	349	P	38	45.40	5.6X
BJI	40.08	324	eP	24	47.00	0.2	WDC	46.36	77	ePd	35	24.80	0.9	KHC	75.60	344	P	38	43.00	0.8
TIY	40.94	319	Pc	25	08.90	0.9	SES	46.65	60	eP	35	26.00	-0.2	ZST	1.0s	3.50nm			4.3mb	
			pP	25	20.20	40km	ORV	47.63	78	ePd	35	33.90	-0.1	HYB	75.87	341	eP	38	44.50	0.8
BWA	43.71	176	eP	25	31.00	0.4	LZH	47.89	276	P	35	36.50	0.2	CDF	76.69	281	eP	38	59.00	10.2X
BTO	44.12	321	P	25	35.20	1.2		2.0s	61.00nm			5.3mb	FLN	77.22	348	eP	38	51.00	-0.3	
CD2	44.22	305	P	25	34.10	-0.8			pP	35	48.50	43km		77.63	353	eP	38	53.20	-0.3	
SNG	44.39	271	eP	25	48.60	12.2X			sP	35	55.00		HAU	0.8s	10.75nm			4.9mb		
CAN	44.64	176	eP	25	38.20	0.1	GTA	48.04	282	iPc	35	37.20	-0.1	LDF	77.73	348	eP	38	53.80	-0.3
CHTO	45.92	287	e(P)	25	49.00	0.4		0.8s	10.00nm			4.9mb		77.77	353	eP	38	54.00	-0.2	
			pP	26	00.20	39km	BKS	48.31	80	e(P)	35	49.90	47km	SQTA	0.7s	5.50nm			4.7mb	
LZH	46.11	312	eP	26	02.00	12.0X	FFC	48.49	51	ePc	35	39.00	-1.5		77.84	345	iPc	38	56.00	1.2
	2.0s	54.00nm						0.6s	10.00nm			5.0mb	BSF	0.8s	12.80nm			5.0mb		
PSI	46.70	265	ePd	26	04.50	9.8X	LRM	48.71	66	iPd	35	42.10	-0.5	GRR	77.85	348	eP	38	54.40	-0.4
TOO	46.76	180	iPc	25	56.00	1.1	MHC	49.02	80	eP	35	45.30	0.4	LPF	78.03	353	eP	38	55.60	0.0
MUN	49.77	213	eP	26	17.30	-1.0	ARN	49.08	80	eP	35	45.50	0.2	LOR	0.6s	9.00nm			5.0mb	
GTA	50.39	314	Pc	26	24.20	1.0	CMB	49.29	79	eP	35	47.40	0.5		78.39	353	eP	38	57.80	0.1
	0.8s	10.00nm				4.9mb	DAG	49.77	2	iPc	35	48.70	-1.3	CTI	78.73	350	eP	38	59.40	-0.2
			pP	26	36.00	42km		0.6s	8.00nm			4.9mb	SSF	0.7s	7.15nm			4.8mb		
GUN	58.79	297	P	27	26.20	1.3	PRS	49.87	81	eP	35	51.60	0.3		78.91	344	P	39	01.00	0.3
PKI	59.17	296	P	27	28.20	0.7	LLA	49.92	80	eP	35	52.30	0.6	LBF	78.97	350	eP	39	00.90	0.0
KKN	59.30	297	P	27	28.40	0.1	KVN	49.93	76	P	35	52.40	0.4		0.7s	4.40nm			4.5mb	
DMN	59.44	296	P	27	28.60	-0.7	FRI	50.39	79	eP	35	55.50	0.3	WB5	79.20	213	eP	39	02.80	0.4
GKN	59.89	297	P	27	30.80	-1.5	PR1	50.41	81	eP	35	56.50	0.9	AVF	79.26	350	eP	39	02.60	0.2
WMO	60.43	315	eP	27	36.00	0.4	PTI	50.65	69	eP	35	58.00	0.6		0.7s	8.80nm			4.8mb	
HYB	65.28	285	eP	28	21.00	13.0X	CD2	51.57	271	P	36	03.20	-1.2	WRA	79.27	213	P	39	03.00	0.2
QUE	75.40	299	eP	29	22.20	12.6X	WMO	51.96	295	P	36	06.60	-0.6		1.0s	5.10nm			4.4mb	
MAIO	81.23	305	eP	29	56.00	14.8X	ISA	52.03	79	eP	36	07.00	-0.8	SMF	79.35	350	eP	39	03.00	0.0
PNT	86.13	41	eP	30	19.00	13.3X	DUG	52.19	71	eP	36	09.00	-0.1		0.6s	4.05nm			4.6mb	
	0.6s	5.00nm					BW06	52.26	67	eP	36	09.00	-0.7	MFF	79.75	353	eP	39	05.40	0.3
HFS	100.82	338	ePd	31	26.70	13.4X	CLC	52.43	79	eP	36	11.00	0.2	TCF	79.87	351	eP	39	05.90	0.1
	0.5s	1.40nm					DAU	52.91	70	eP	36	15.00	0.3	MAF	79.90	351	eP	39	06.50	0.6
NB2	101.10	339	Pd	31	23.70	9.1X	SBB	53.09	80	eP	36	16.00	0.3		0.9s	6.55nm			4.6mb	
	0.6s	2.20nm				4.9mb	GSC	53.25	79	eP	36	17.00	0.1	GBA	80.35	280	P	39	10.00	1.3
LKO	145.54	302	PKP	37	03.60	-0.5	PAS	53.26	81	eP	36	16.00	-0.9	BOB	80.50	346	P	39	11.00	1.8
KIC	146.40	297	PKP	37	13.84	8.3X	TPC	54.54	79	eP	36	26.00	-0.3	BNJ	80.60	348	P	39	11.00	1.2
LPB	146.60	106	ePKP	37	25.00	18.7X	PLM	54.59	80	eP	36	27.00	0.1	RJF	80.91	351	eP	39	11.40	0.2
ZOBO	146.62	105	ePKP	37	10.00	3.5X	FRB	54.62	28	ePd	36	24.90	-1.6	BDI	81.01	345	P	39	14.00	2.1
CNCB	146.68	106	PKP	37	11.00	4.4X	BAR	55.19	81	eP	36	30.00	-1.1	ARV	81.17	343	P	39	14.00	1.3
	S.D. = 1.1	on 34 of 52 obs.					SOD	56.14	344	eP	36	37.00	-0.5	CAF	81.23	351	eP	39	13.80	0.8
									i			36 47.00 33km			0.7s	7.15nm			4.8mb	
NOV 06, 1990 22h 27m 00.27 ± 0.18s							KMI	56.44	267	eP	36	40.00	-0.4	LFF	81.33	352	eP	39	13.40	-0.1
53.628 N ± 5.0km 169.426 E ± 2.4km							GOL	56.67	67	P	36	42.30	0.3	LPO	81.55	352	eP	39	15.20	0.6
DEPTH = 40.4km (6 depth phases)								0.6s	20.06nm			5.3mb		0.6s	10.80nm			5.0mb		
5.0mb (38 obs.)							GLD	56.72	67	P	36	43.20	1.0	SDI	82.75	342	P	39	21.50	0.5
KOMANDORSKY ISLANDS REGION (4)								1.0s	42.50nm			5.4mb	ASPA	82.89	212	eP	39	21.40	-0.3	
SMY	2.95	106	eP	27	44.50	-1.3	ANMO	59.46	72	P	37	01.80	0.4		0.8s	7.30nm			4.8mb	
ADK	8.61	96	ePc	29	02.00	-3.2X		0.8s	11.19nm			5.0mb	EPF	83.26	352	eP	39	23.80	0.2	
ANM	16.82	39	eP	30	56.30	2.3	ALO	59.46	72	eP	37	01.20	-0.3	ORI	83.81	339	P	39	28.50	2.1
SDN	17.50	72	eP	31	02.80	0.3		1.0s	16.25nm			5.1mb	BWA	89.56	197	eP	39	56.10	1.8	
SVW	20.07	54	ePc	31	32.20	-0.5	SUF	60.47	342	eP	37	07.10	-0.6				e	40 06.90 34km		
TTA	20.17	49	ePd	31	33.50	-0.2	KSH	61.27	298	P	37	13.50	-0.2	CAN	90.34	197	e(P)	40	10.70 12.9X	
KDC	21.66	64	eP	31	47.40	-1.3	NUR	62.79	341	iP	37	22.70	-0.6	LPB	122.27	73	ePKP	45	51.00 -1.8	
IMA	21.92	41	ePd	31	51.00	-0.5			e			37 35.00 42km	CNCB	122.56	73	PKP	45	54.00 0.5		
	1.3s	85.20nm				5.0mb	CHG	63.51	266	iPc	37	28.80	0.2	SIV	125.75	66	PKP	45	59.00 -0.1	
BRW	23.09	27	ePc	32	03.10	0.4		0.9s	13.66nm			5.0mb		S.D. = 0.8	on 131 of 136 obs.					
PMR	23.22	53	eP	32	03.60	-0.5	CHTO	63.51	266	eP	37	28.20	-0.4		NOV 06, 1990 23h 02m 28.83 ± 0.37s					
FBA	24.08	45	iPd	32	12.80	0.4		0.9s	12.79nm			5.0mb		53.381 N ± 9.3km 169.761 E ± 5.6km						
TOA	24.63	52	ePd	32	18.10	0.2	MEO	63.95	66	iPd	37	31.00	-0.4		DEPTH = 31.4km (4 depth phases)					
MDJ	27.26	267	Pd	32	41.00	-1.4	GUN	64.32	283	P	37	33.40	-0.9		4.9mb (14 obs.)					
MAT	27.57	244	eP	32	45.00	-0.3		0.6s	19.00nm			5.3mb		KOMANDORSKY ISLANDS REGION (4)						
CN2	30.19	269	Pc	33	07.00	-1.7	NB2	64.37	348	P	37	32.70	-1.1	SMY	2.70	102	eP	03	11.50 0.5	
	1.0s	70.00nm				5.4mb		0.8s	9.50nm			4.9mb	ADK	8.38	95	eP	04	29.40 -1.6		
BJI	37.97	271	eP	34	15.00	-0.6	KKN	64.76	283	P	37	36.00	-1.0	IMA	21.98	40	eP	07	21.90 0.4	
YKA	38.88	46	eP	34	22.20	-0.7		0.6s	14.00nm			5.2mb	TOA	24.62	52	eP	07	51.30 4.0X		
	0.7s	19.10nm				5.0mb	PKI	64.85	283	P	37	36.80	-0.9	MAT	27.65	245	eP	08	17.00 1.5	
HHC	40.21	276	eP	34	34.60	0.3		0.4s	13.00nm			5.4mb	CN2	30.39	270	Pc	08	38.60 -1.3		
SSE	41.14	257	P	34	44.20	2.3	HFS	64.93	347	eP	37	35.50	-1.8	PNT	42.65	66	eP	10	30.00 6.3X	
	0.7s	10.00nm				4.7mb		0.5s	3.30nm			4.7mb		0.6s	8.00nm			4.6mb		
BTO	41.28	277	eP	34	44.40	1.3	GKN	64.98	284	P	37	37.20	-1.0	LZH	48.12	277	Pc	11	08.00 0.3	
MCW	41.32	68	eP	34	44.00	0.7		0.6s	14.00nm			5.2mb		1.3s	32.00nm			5.2mb		
TIY	41.70	271	Pc	34	47.00	0.4	DMN	65.00	283	P	37	37.80	-0.7			pP	11	17.50 32km		
NJ2	41.80	260	Pc	34	47.50	0.2	FVM	65.84	58	eP	37	42.20	-1.2	GTA	48.28	283	iPc	11	09.00 0.1	
GMW	41.98	70	eP	34	49.50	0.8	OLY	67.20	61	eP	37	50.50	-1.7		1.0s	10.00nm			4.8mb	
RMW	42.58	69	eP	34	54.40	0.8	PWLA	69.36	59	eP	38	04.50	-1.1			pP	11	19.00 34km		
PNT	42.73	66	iPd	34	55.60	0.8	EKA	71.23	356	P	38	17.00	0.4	CD2	51.78	272	eP	11	34.20 -1.4	
	0.7s	43.00nm				5.3mb		0.8s	7.60nm			4.7mb	WMO	52.24	295	eP	11	39.00 0.0		
LON	42.98	70	eP	34	57.00	0.1	QUE	73.												

CHTO 63.70 266 eP 13 00.00 0.5
1.0s 5.00nm 4.6mb
pP 13 08.80 28km
GUN 64.57 283 P 13 05.00 -0.6
0.8s 46.00nm 5.6mb
NB2 64.65 349 P 13 04.70 -0.5
0.7s 5.30nm 4.8mb
KKK 65.01 283 P 13 07.80 -0.4
0.9s 26.00nm 5.3mb
PKI 65.10 283 P 13 08.60 -0.3
0.8s 32.00nm 5.5mb
HFS 65.22 347 eP 13 07.00 -1.8
0.9s 10.70nm 4.9mb
GKN 65.23 284 P 13 09.00 -0.5
0.8s 27.00nm 5.4mb
DMN 65.25 283 P 13 09.80 0.0
EKA 71.49 356 Pc 13 49.00 1.2
0.9s 4.20nm 4.5mb
PRU 74.90 344 eP 14 09.00 1.2
KHC 75.89 344 P 14 15.20 1.6
ZST 76.17 342 eP 14 16.10 1.0
HYB 76.93 282 eP 14 20.00 0.2
e 14 30.00 32km
WB5 79.11 214 eP 14 31.80 0.2
WRA 79.18 214 P 14 32.00 0.1
0.8s 1.90nm 4.2mb
GBA 80.59 280 P 14 40.00 0.4
ASPA 82.79 213 eP 15 01.20 10.3X
0.8s 4.90nm
S.D. = 0.9 on 29 of 32 obs.

* NOV 06, 1990 23h 22m 53.15 ± 0.69s
53.404 N ± 17.1km 169.835 E ± 8.0km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
KOMANDORSKY ISLANDS REGION (4)

SMY 2.66 103 eP 23 33.80 -0.8
IMA 21.93 41 eP 27 46.00 0.8
FBA 24.06 45 eP 28 05.90 0.0
TOA 24.58 52 eP 28 12.30 1.3
CHTO 63.74 266 eP 33 24.90 1.0
1.0s 3.00nm 4.4mb
GUN 64.61 283 P 33 30.00 0.1
NB2 64.64 349 P 33 28.40 -0.8
0.7s 3.10nm 4.5mb
KKK 65.05 283 P 33 32.60 0.0
PKI 65.14 283 P 33 33.30 0.0
HFS 65.21 347 eP 33 31.00 -1.8
0.5s 2.10nm 4.5mb
GKN 65.27 284 P 33 33.80 -0.1
DMN 65.29 283 P 33 34.20 0.1
S.D. = 1.0 on 12 of 12 obs.

* NOV 06, 1990 23h 38m 23.53 ± 0.89s
34.126 N ± 19.3km 63.219 E ± 10.8km
DEPTH = 179.2 ± 11.2 km
4.5mb (2 obs.)
NORTHWESTERN AFGHANISTAN (349)

MAIO 3.74 306 eP 39 22.00 0.0
QUE 5.04 140 eP 39 38.90 0.0
GKN 19.32 103 P 42 40.00 2.7X
KKK 19.93 103 P 42 44.00 0.5
PKI 20.12 103 P 42 45.60 0.0
GUN 20.37 102 P 42 47.60 -0.5
LKO 67.18 266 P 49 00.46 0.0
0.9s 11.50nm 4.6mb
KIC 68.23 263 P 49 07.00 0.0
0.9s 7.00nm 4.4mb
LIC 68.54 263 P 49 05.20 -3.7X
S.D. = 0.4 on 7 of 9 obs.

& NOV 07, 1990 01h 37m 16.78s
59.872 N 151.870 W
DEPTH = 59.9km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

HOM 0.24 152 iP 37 26.18 -0.4
eS 37 33.51
NNL 0.34 59 eP 37 27.68 0.4
CNPM 0.47 137 eP 37 27.85 -0.7
eS 37 36.85
INE 0.63 288 eP 37 29.43 -1.0
eS 37 39.52
INW 0.66 288 eP 37 30.00 -0.8

iS 37 40.57
RED 0.71 321 eP 37 30.89 -0.5
OPT 0.72 253 iP 37 30.68 -0.8
eS 37 41.78
RSO 0.74 324 eP 37 31.43 -0.4
iS 37 42.76
RS2 0.74 324 eP 37 31.50 -0.3
eS 37 43.15
REF 0.75 326 eP 37 31.47 -0.4
eS 37 42.96
RDN 0.78 326 eP 37 31.49 -0.8
eS 37 43.00
AUE 0.92 237 eP 37 33.30 -0.6
AUI 0.96 236 eP 37 33.90 -0.5
SLKM 1.04 52 eP 37 35.44 -0.1
SEW 1.24 78 eP 37 38.54 0.4
BGL 1.42 350 eP 37 41.15 0.4
CGLM 1.44 357 eP 37 41.17 0.1
NCG 1.54 355 eP 37 42.74 0.2
KNIM 2.12 75 eP 37 51.59 1.1
19 obs. associated

* NOV 07, 1990 03h 04m 00.24 ± 1.46s
32.697 S ± 18.9km 69.695 W ± 8.2km
DEPTH = 28.1 ± 9.8 km
MENDOZA PROVINCE, ARGENTINA (139)

MDZ 0.74 105 iPd 04 14.10 -0.4
iS 04 29.70
JACH 0.76 271 iPc 04 15.10 0.2
iS 05 31.50
FCH 0.80 218 iPd 04 17.00 1.1
iS 04 35.10
PEL 0.94 242 eP 04 17.50 -0.1
iS 04 35.00
SAN 1.11 227 eP 04 19.50 -0.4
iS 04 39.20
ROCH 1.14 256 iPd 04 19.50 -1.1
iS 04 38.80
PCH 1.15 216 iPc 04 20.80 0.2
iS 04 41.50
TACH 1.41 227 iPc 04 22.50 -1.8
iS 04 45.50
CHCH 1.47 213 iPc 04 23.80 -1.3
iS 04 48.00
LNV 1.91 228 eP 04 20.00 -11.4X
iS 04 53.60
S.D. = 1.1 on 9 of 10 obs.

* NOV 07, 1990 04h 09m 00.81 ± 0.92s
28.221 N ± 17.5km 55.201 E ± 10.5km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
SOUTHERN IRAN (353)

MJMA 9.15 257 eP 11 13.30 -0.3
QUE 10.45 76 eP 11 31.20 -0.5
OASM 10.61 261 eP 11 32.30 -1.3
AFIF 11.55 252 eP 11 51.00 4.5X
MLR 28.85 315 ePc 14 59.00 0.6
KHC 38.00 315 iPd 16 18.40 1.0
1.0s 3.50nm 4.2mb
BCAO 42.11 243 ePc 16 54.00 2.3
0.5s 3.00nm 4.3mb
HFS 42.44 331 eP 16 53.80 0.0
0.9s 12.00nm 4.6mb
NB2 43.95 331 P 17 05.60 -0.6
0.7s 2.60nm 4.1mb
LKO 59.85 265 P 19 05.08 -0.8
KIC 60.59 261 P 19 10.50 -0.4
WRA 90.18 112 P 22 09.00 9.6X
0.6s 0.60nm 4.0mb
S.D. = 1.2 on 10 of 12 obs.

NOV 07, 1990 04h 12m 40.96 ± 0.88s
27.617 S ± 5.3km 71.696 W ± 12.2km
DEPTH = 59.5 ± 11.0 km
4.7mb (2 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ANT 4.06 17 iPc 13 42.20 0.2
RTBS 4.48 155 e(P) 13 50.20 2.4
RTCB 4.61 147 ePd 13 50.80 1.0
S 14 40.20
RTLL 4.65 144 ePc 13 50.60 0.3
eS 14 39.20
ZON 4.71 147 eP 13 52.30 1.1

CFA 4.99 144 ePd 13 55.50 0.4
JACH 5.14 170 eP 13 58.00 0.7
iS 14 57.00
CYA 5.28 100 e(P) 13 58.00 -1.2
ROCH 5.37 174 eP 14 00.50 -0.1
iS 14 58.00
PEL 5.58 171 iPd 14 03.00 -0.4
iS 15 05.50
MDZ 5.80 156 iP 14 07.70 1.3
i(S) 15 33.80
FCH 5.82 168 eP 14 07.50 0.5
iS 15 10.40
LCCH 5.84 179 iPc 14 06.00 -1.0
eS 15 06.00
SAN 5.88 172 ePc 14 07.70 0.1
iS 15 17.00
TACH 6.05 174 iP 14 09.50 -0.5
iS 15 14.00
PCH 6.07 171 eP 14 09.70 -0.6
iS 15 16.50
LNV 6.32 178 iP 14 12.00 -1.7
iS 15 18.00
CHCH 6.36 172 eP 14 12.50 -1.8
iS 15 20.50
ARE 11.10 1 eP 15 21.00 1.2
eS 17 20.00
CNCB 11.29 18 P 15 13.00 -9.5X
CCH 11.40 28 eP 15 23.00 -0.8
LPB 11.52 18 eP 15 13.00 -12.5X
ZOB0 11.77 17 P 15 13.00 -15.9X
iS 15 35.00
SIV 15.19 43 LR 19 24.00
iS 16 18.40
PPD 19.31 78 eP 17 02.50 -1.6
VAO 22.81 84 eP 17 39.10 -0.6
BAO 25.00 66 eP 18 00.00 -0.9
LIC 72.56 73 P 24 04.90 0.9
KIC 72.87 73 Pc 24 07.00 1.2
0.5s 4.00nm 4.6mb
LKO 73.83 70 P 24 11.92 0.5
0.8s 10.00nm 4.8mb
S.D. = 1.1 on 26 of 30 obs.

NOV 07, 1990 06h 50m 08.57 ± 0.72s
39.482 N ± 6.9km 17.693 E ± 5.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)
MD 2.9 (ATH).

LCI 0.87 13 P 50 25.00 -0.3
eSg 50 37.10
ROI 0.87 276 P 50 25.40 0.0
TDS 1.06 280 P 50 28.00 -0.6
eSg 50 45.10
ORI 1.12 302 P 50 29.40 -0.2
eSg 50 46.80
CSI 1.12 286 P 50 28.60 -1.0
eSg 50 42.50
CZI 1.24 258 P 50 32.90 1.3
MMN 1.38 288 P 50 34.60 0.9
KEK 1.64 81 ePb 50 41.90 4.3X
BAI 1.75 339 P 50 40.00 0.8
MGR 1.77 292 P 50 39.20 -0.3
eSg 51 03.50
SGO 2.12 301 P 50 44.50 0.0
eSn 51 11.30
ATN 2.19 234 P 50 44.90 -0.6
VLS 2.61 119 ePn 50 51.50 0.0
OHR 2.88 55 ePn 51 04.50 9.1X
KZN 3.24 74 ePb 51 09.00 8.4X
S.D. = 0.8 on 12 of 15 obs.

% NOV 07, 1990 07h 00m 54.99 ± 0.84s
36.338 N ± 10.5km 24.055 E ± 8.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.4 (ATH).

VAM 0.94 173 ePg 01 12.60 -0.3
VLI 0.98 293 ePg 01 12.60 -0.9
APE 1.39 58 ePb 01 20.00 -0.5
NPS 1.66 130 ePg 01 27.50 3.2X
ITM 1.90 297 ePb 01 29.00 1.2
KAP 2.65 106 ePn 01 39.00 0.5
S.D. = 1.2 on 5 of 6 obs.

07d 07h

NOV 07, 1990 07h 25m 02.17±0.50s
 37.068 N ± 5.1km 3.650 W ± 6.3km
 DEPTH = 22.5 ± 4.8 km
 SPAIN (377)
 mbLg 4.0 (MDD). Felt (VI) in the
 Durcal area.

AFC	0.20	25	iPgc	25	07.10	-0.7
ECOG	0.22	18	iPgc	25	07.30	-0.7
			eSg	25	12.90	
MAL	0.70	241	iPnd	25	12.20	-3.4X
			iSg	25	23.00	
EBAN	1.10	354	iPgc	25	23.60	1.4
			eSg	25	38.90	
ENIJ	1.15	94	iPgc	25	23.80	0.8
			eSg	25	41.10	
EHOR	1.48	301	iPnc	25	28.90	1.4
			eSn	25	48.40	
EJIF	1.58	248	ePn	25	27.50	-1.6
			eSn	25	50.30	
OJEN	1.80	238	iP	25	35.00	2.7
EVIA	1.81	30	iPnc	25	34.30	1.8
EMEL	1.85	162	ePn	25	33.00	0.0
			eSn	25	55.00	
GIBL	1.86	263	iP	25	37.50	4.4X
EALH	1.94	65	iPnd	25	36.50	2.2
			eSn	26	00.60	
PLAT	1.94	242	iP	25	39.50	5.2X
TAF	2.46	156	iP	25	42.00	0.2
			i	26	06.00	
			i	26	11.00	
EVAL	2.52	283	ePn	25	42.40	-0.2
			eSn	26	13.30	
TOL	2.83	354	iPn	25	51.50	4.6X
			iPb	25	58.00	
			iPg	26	01.00	
			iSn	26	18.00	
			iSb	26	32.00	
			iSg	26	36.00	
ECHE	3.28	39	iPnc	25	54.70	1.3
			eSn	26	33.60	
EPLA	3.55	328	iPnd	25	58.40	1.2
			eSn	26	41.00	
GUD	3.59	354	iPnc	25	58.70	0.8
			eSn	26	41.70	
IFR	3.74	199	iP	25	58.00	-2.1
			i	26	00.00	
			i	26	42.00	
ETOR	3.95	18	ePn	26	03.50	0.6
			eSn	26	48.70	
AVE	4.86	220	iP	26	17.50	1.7
			i	27	13.00	
EROO	4.91	39	iPnd	26	17.20	0.8
			eSn	27	13.60	
EBR	4.95	39	eP	26	18.00	1.1
			eS	27	47.00	
ECRI	5.60	9	iPnd	26	27.40	1.1
			eSn	27	29.80	
ESEL	5.80	60	ePn	26	30.60	1.5
ERUA	5.96	334	ePn	26	32.10	0.8
			eSn	27	38.70	
EPF	6.70	26	Pn	26	42.50	0.8
			Pg	27	10.40	
			Sg	28	35.30	
TIO	6.82	207	eP	26	41.50	-2.5
			i	26	48.50	
LPO	8.44	24	Pn	27	05.00	-1.0
LFF	8.53	21	P	27	06.60	-0.7
CAF	8.96	27	Pn	27	12.20	-1.0
RJF	9.10	24	Pn	27	13.20	-1.9
MFF	9.88	14	Pn	27	24.00	-1.8
LSF	9.96	21	Pn	27	25.40	-1.5
TCF	10.20	24	Pn	27	28.30	-2.0
MAF	10.26	25	Pn	27	29.30	-1.7
BGF	10.64	25	Pn	27	34.10	-2.2
LPF	11.12	9	Pn	27	42.60	-0.2
SSF	11.31	26	Pn	27	44.20	-1.2
MLR	23.68	60	eP	30	14.00	1.0
S.D. = 1.5 an 37 of 41 obs.						

% NOV 07, 1990 08h 04m 23.45±0.62s
 40.474 N ± 8.9km 28.194 E ± 5.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

BNT 0.24 241 ePg 04 29.00 0.4

EDC 0.28 243 iPg 04 29.00 -0.4
 iSg 04 34.00
 CTT 0.70 15 ePg 04 37.00 -0.2
 ISK 0.88 48 ePg 04 41.00 0.6
 YLV 0.90 84 iPg 04 40.50 -0.3
 IZI 0.99 98 ePg 04 42.50 0.3
 eSg 04 56.50
 HRT 1.17 72 ePn 04 45.00 -0.4
 S.D. = 0.5 an 7 of 7 obs.

NOV 07, 1990 08h 20m 38.76±0.28s
 27.026 S ± 6.1km 63.411 W ± 5.0km
 DEPTH = 580.0 ± 5.8 km
 4.0mb (4 obs.)
 SANTIAGO DEL ESTERO PROV., ARG. (132)

CYA	2.54	236	iPd	21	53.00	-1.3
RTLL	6.16	225	iPc	22	20.50	-0.4
RTRS	6.17	238	iPd	22	21.40	0.5
CFA	6.21	222	iPc	22	21.50	0.1
RTCB	6.47	225	iPd	22	24.20	0.4
ANT	7.15	296	eP	22	29.50	-0.4
MDZ	7.50	218	iPd	22	34.20	0.8
			i	24	05.80	
ITB1	8.47	76	Pd	22	42.50	0.0
ITB7	8.52	79	Pd	22	43.10	0.0
IT8	8.58	77	Pd	22	43.80	0.2
CCH	9.92	345	eP	22	57.00	-0.3
CNCB	11.01	336	P	23	09.00	0.6
			i	25	09.00	
SIV	11.19	12	iPd	23	09.60	0.0
LPB	11.31	336	P	23	11.00	-0.2
			e	25	18.00	
ZOBO	11.56	337	P	23	14.00	0.2
	1.0s	15.50nm				4.2mb
			i	24	17.00	
PPD	12.08	68	eP	23	17.90	-0.5
VAO	15.43	79	eP	23	52.40	1.0
BMA	18.00	80	eP	24	15.80	-0.3
BAO	18.28	55	eP	24	19.70	0.9
PDCR	26.95	62	eP	25	36.60	-0.2
LIC	65.40	69	P	30	26.80	-0.1
TIC	65.64	68	P	30	28.40	0.0
KIC	65.71	69	Pd	30	28.80	-0.1
	0.5s	7.50nm				4.4mb
LKO	66.79	65	Pd	30	34.90	-0.6
ANMO	73.87	324	eP	31	15.20	-1.6
	0.8s	1.31nm				3.5mb
BW06	81.42	328	eP	31	58.90	2.0
	0.7s	2.05nm				3.8mb
BUL	82.81	109	iPc	32	03.70	-0.6
HYB	143.63	97	ePKP	39	10.00	-0.2
S.D. = 0.7 on 28 of 28 obs.						

& NOV 07, 1990 09h 53m 58.92s
 60.123 N 152.557 W
 DEPTH = 90.5km
 4.3mb (2 obs.)
 SOUTHERN ALASKA (2)
 <AGS-P>.

INE	0.26	256	iP	54	11.93	-0.7
INW	0.29	259	eP	54	12.02	-0.7
RED	0.32	340	iP	54	12.11	-0.7
RSO	0.35	344	iP	54	12.56	-0.6
RS2	0.36	344	iP	54	12.61	-0.6
REF	0.37	349	iP	54	12.69	-0.6
RDN	0.41	345	iP	54	12.59	-0.8
RDT	0.46	9	iP	54	13.01	-0.7
			eS	54	24.60	
NCT	0.48	337	eP	54	13.06	-0.8
OPT	0.58	216	iP	54	13.98	-0.7
NNL	0.64	97	iP	54	15.24	0.1
HOM	0.66	135	eP	54	15.06	-0.2
XLV	0.79	147	eP	54	15.93	-0.7
AUE	0.87	209	eP	54	16.44	-1.0
AUP	0.88	210	iP	54	16.81	-0.9
AGU	0.88	210	eP	54	17.17	-0.6
PDB	0.89	248	iP	54	16.71	-1.0
			eS	54	30.47	
CNPM	0.90	131	eP	54	16.55	-1.3
			iS	54	31.61	
NKA	0.90	46	iP	54	19.00	1.2
AUI	0.91	210	eP	54	16.76	-1.1
BRLK	0.92	112	eP	54	17.48	-0.5
SPU	1.09	13	iP	54	19.43	-0.6
BGL	1.15	4	iP	54	20.33	-0.5

			iS	54	37.61	
CRP	1.16	10	iP	54	20.62	-0.5
CGLM	1.22	13	iP	54	21.16	-0.5
SLKM	1.23	71	eP	54	20.29	-1.4
NCG	1.30	9	eP	54	22.10	-0.6
MCNL	1.30	225	iP	54	21.30	-1.3
			iS	54	38.42	
CDD	1.32	205	iP	54	21.44	-1.4
SYI	1.52	177	iP	54	24.34	-1.0
			eS	54	44.40	
SEW	1.56	89	eP	54	24.04	-1.7
SUA	1.61	33	eP	54	26.51	-0.2
SVW	1.81	305	iPd	54	27.50	-1.6
PMS	1.85	51	iP	54	28.94	-0.8
SKT	1.93	15	eP	54	29.27	-1.5
PWA	2.02	39	iP	54	31.25	-0.6
PLRM	2.23	47	iP	54	33.13	-1.6
PMR	2.23	47	iPc	54	33.10	-1.7
LTJ	2.36	90	iP	54	34.02	-2.5
KDC	2.38	179	ePd	54	34.00	-2.8
KNK	2.39	55	eP	54	35.16	-1.8
			eS	55	02.98	
KNIM	2.42	83	iP	54	34.32	-3.0
GHO	2.42	45	iP	54	35.91	-1.6
MTU	2.46	91	eP	54	35.76	-2.2
CUT	2.54	25	eP	54	37.94	-1.0
SML	2.66	49	iP	54	38.94	-1.8
GLI	2.81	72	eP	54	38.99	-3.6
SCM	3.07	54	eP	54	44.28	-2.1
VZW	3.11	70	eP	54	43.28	-3.5
HUR	3.19	25	eP	54	47.69	-0.2
			eS	55	25.72	
MID	3.22	100	iPc	54	46.60	-1.7
VLZ	3.23	69	eP	54	45.45	-2.9
TTA	3.27	331	ePd	54	47.10	-1.9
TRF	3.51	17	eP	54	50.92	-1.5
KLU	3.53	64	iP	54	49.94	-2.7
TOA	3.68	55	iPc	54	53.00	-1.7
RND	3.74	27	eP	54	54.36	-1.1
TZL	3.96	58	eP	54	56.33	-2.2
MCK	4.01	24	eP	54	58.38	-0.8
SDG	4.15	51	eP	54	59.01	-2.2
BWN	4.31	18	eP	55	02.62	-0.8
PAX	4.43	47	eP	55	03.17	-2.0
GLB	4.49	69	iP	55	02.77	-3.1
THY	4.62	41	eP	55	06.99	-0.7
NEA	4.76	18	eP	55	07.60	-1.9
WRH	4.84	24	eP	55	08.13	-2.5
DDM	4.85	38	eP	55	10.54	-0.3
TGL	4.86	78	eP	55	07.12	-4.0
HDA	5.03	29	eP	55	11.10	-2.3
CCB	5.05	24	eP	55	11.01	-2.6
BALM	5.12	75	eP	55	10.82	-3.9
MDM	5.25	21	eP	55	14.24	-2.2
FBA	5.28	23	iPc	55	14.60	-2.2
GLM	5.43	24	eP	55	16.34	-2.7
IMA	5.99	356	eP	55	24.10	-2.7
BCPM	6.48	86	eP	55	30.46	-2.9
PNL	6.64	88	eP	55	32.39	-3.2
HON	6.94	90	eP	55	35.92	-3.8
FYU	7.25	24	eP	55	40.78	-3.2
DWY	7.31	52	P	55	42.00	-2.8
HYT	7.47	78	P	55	44.10	-3.1
SIT	9.50	101	eP	56	11.50	-3.2
INK	11.61	37	P	56	39.00	-3.8
MBC	19.82	23	eP	58	20.00	-4.2
	0.7s		6.00nm			4.0mb
EKA	62.34	19	Pd	04	10.60	-2.7
	0.9s		4.60nm			4.5mb
85 obs. associated						

07d 10h

TACH 1.53 165 ePd 59 47.50 -0.1
 59 29.80 -0.1
 59 48.50
 LNV 1.78 180 iP 59 32.70 -0.7
 59 50.00
 59 56.00
 CHCH 1.87 161 iPd 59 34.60 -0.2
 59 50.40
 59 58.10
 MDZ 2.27 109 iP 59 41.20 0.7
 00 09.70
 ZON 2.40 76 iPc 59 42.90 0.5
 eS 00 40.00
 CFA 2.75 79 iPd 59 46.30 -0.9
 S.D. = 0.6 on 12 of 12 obs.

& NOV 07, 1990 11h 07m 52.80s
 33.780 N 116.730 W
 DEPTH = 10.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.4 (PAS). Felt (IV)
 at Idyllwild and (III) at
 Cathedral City and Palm Springs.

PEC 0.38 287 iPc 07 59.80 -0.7
 PLM 0.44 195 iPd 08 01.30 -0.5
 RVR 0.58 292 iPd 08 03.10 -1.4
 TPC 0.65 60 iPc 08 05.10 -0.8
 CPE 0.95 199 iPd 08 09.40 -1.5
 BAR 1.10 177 iPd 08 12.40 -1.0
 MWC 1.19 292 ePc 08 13.70 -1.4
 IKP 1.24 155 iPc 08 15.90 -0.1
 SBB 1.28 315 iPc 08 16.00 -0.6
 CIS 1.45 256 eP 08 18.00 -1.0
 GSC 1.52 358 iPd 08 19.40 -0.7
 GLA 1.75 114 eP 08 22.00 -1.4
 CLC 2.15 341 ePc 08 28.10 -1.2
 ABL 2.32 298 eP 08 30.60 -1.3
 BCH 3.10 298 eP 08 41.70 -1.1
 BLP 3.14 285 eP 08 41.00 -2.2
 TNP 4.31 355 eP 08 59.00 -1.1
 CMB 5.18 326 e(P) 09 11.00 -1.2
 18 obs. associated

NOV 07, 1990 12h 25m 50.46±0.59s
 44.376 N ± 5.0km 114.117 W ± 4.8km
 DEPTH = 5.0km (geophysicist)
 WESTERN IDAHO (33)
 ML 3.8 (BUT).

HPI 0.99 132 eP 26 09.50 -0.4
 MCMT 1.01 63 iPc 26 09.80 -0.5
 LTMT 1.44 83 iPnc 26 17.90 0.3
 BCMT 1.71 59 ePn 26 21.50 0.2
 HBMT 1.77 37 iPnc 26 22.30 0.0
 LRM 1.87 39 iPnc 26 23.50 -0.1
 PTI 1.97 139 eP 26 25.30 0.3
 BUT 1.97 33 ePn 26 25.40 0.4
 iPg 26 28.10
 eSn 26 50.50
 eSg 26 53.70
 MEMT 2.55 60 ePn 26 33.40 0.1
 SXM 2.71 48 ePn 26 35.80 0.1
 HRY 2.83 34 ePn 26 37.00 -0.3
 BW06 3.68 114 eP 26 53.00 3.5X
 NEW 4.41 333 eP 26 59.50 -0.1
 DPW 4.50 322 eP 27 01.00 0.1
 PNT 6.22 325 P 27 25.00 -0.1
 S.D. = 0.3 on 14 of 15 obs.

NOV 07, 1990 12h 31m 25.01±0.63s
 44.737 N ± 6.4km 9.946 E ± 4.9km
 DEPTH = 15.6 ± 7.9 km
 NORTHERN ITALY (545)

BOB 0.36 275 Pc 31 33.00 0.4
 eSg 31 39.80
 BDI 0.82 145 P 31 41.50 1.0
 eSg 31 52.00
 SAL 0.96 25 P 31 43.50 0.7
 eSn 31 57.50
 PCP 1.02 259 P 31 43.90 0.0
 S 31 59.28
 PII 1.10 158 P 31 44.70 -0.4
 eSg 32 01.00
 CKI 1.23 256 P 31 48.50 1.1
 eSg 32 07.90

FIN 1.35 248 P 31 48.51 -0.7
 S 32 07.07
 ROB 1.55 254 P 31 51.59 -0.5
 S 32 11.58
 ORX 1.65 303 P 31 52.92 -0.7
 IMI 1.69 241 P 31 52.51 -1.6
 CTI 1.78 42 P 31 54.40 -1.0
 eSg 32 17.00
 ENR 1.88 255 P 31 57.54 0.7
 BHB 1.91 274 P 31 58.77 1.5
 STV 1.94 256 P 31 57.33 -0.4
 PZZ 2.04 264 P 31 59.38 0.0
 CDR 3.19 252 e(Pg) 32 20.50 5.0X
 e(Sg) 32 24.70
 S.D. = 1.0 on 15 of 16 obs.

& NOV 07, 1990 12h 44m 04.83s
 19.341 N 155.056 W
 DEPTH = 10.3km
 HAWAII (613)
 <HVO-P>. MD 4.1 (HVO). Felt at
 Hilo, Kehana, Mountainview and
 Pahoa.

WHA 0.01 143 iPc 44 06.52 -0.2
 KAE 0.09 235 iPd 44 07.45 0.0
 MKA 0.11 285 iPd 44 07.50 -0.2
 PUH 0.16 283 iPd 44 08.27 -0.3
 eS 44 11.01
 MVH 0.16 358 iPd 44 08.64 0.0
 PWH 0.17 250 iPd 44 08.82 0.1
 ESR 0.19 292 iPd 44 08.83 -0.2
 AHA 0.20 279 iPd 44 09.04 -0.3
 iS 44 12.40
 RIM 0.22 285 iPd 44 09.23 -0.4
 OUT 0.22 283 iPd 44 09.31 -0.3
 KNH 0.22 268 iPd 44 09.41 -0.3
 POH 0.22 59 iPd 44 09.85 0.2
 NPH 0.23 289 iPd 44 09.30 -0.5
 UWE 0.24 290 iP 44 09.60 -0.4
 iS 44 12.10
 HBH 0.24 38 iPd 44 09.91 -0.1
 HLP 0.24 260 iPd 44 09.97 -0.1
 KPO 0.26 52 iPd 44 10.21 -0.1
 CPK 0.26 282 iPd 44 09.87 -0.6
 MLX 0.30 294 iPd 44 10.54 -0.6
 DES 0.31 269 iPd 44 10.70 -0.7
 HTC 0.34 253 ePd 44 11.76 -0.1
 MLH 0.35 296 iPd 44 11.62 -0.5
 KFH 0.35 283 iPd 44 11.78 -0.4
 HIL 0.38 355 iPc 44 14.06 1.5
 iS 44 20.26
 AIN 0.38 275 iPd 44 12.20 -0.6
 PPL 0.43 245 ePc 44 13.03 -0.5
 PLL 0.43 297 iPd 44 12.74 -0.9
 WOH 0.43 258 iPd 44 13.11 -0.5
 TRH 0.47 279 iPd 44 13.78 -0.7
 HMH 0.48 303 iPd 44 13.93 -0.8
 MWH 0.53 286 iPc 44 14.74 -0.9
 WOB 0.54 292 iPd 44 14.67 -1.1
 KHU 0.54 260 iPc 44 14.48 -1.3
 DAI 0.58 272 iPc 44 14.98 -1.8
 HPU 0.58 319 iPc 44 15.73 -1.1
 KIH 0.69 284 ePc 44 16.68 -1.9
 WKH 0.77 312 iPc 44 17.95 -2.0
 KUH 0.77 265 iPc 44 17.48 -2.4
 HUH 0.81 295 iPc 44 18.96 -1.8
 CPH 0.83 280 ePc 44 18.28 -2.5
 KOH 1.04 319 iPc 44 21.41 -3.1
 41 obs. associated

NOV 07, 1990 14h 36m 27.79±0.70s
 5.643 N ± 3.4km 125.247 E ± 4.8km
 DEPTH = 77.8 ± 6.5 km
 5.5mb (40 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 34C
 Centroid Location:
 Origin Time 14:36:29.4 0.3
 Lat 5.69N 0.02 Lon 125.46E 0.03
 Dep 47.1 2.2 Half-duration 2.3
 Moment Tensor: Scale 10**17 Nm
 Mrr=3.53 0.09 Mtt=-0.34 0.12
 Mff=-3.18 0.16 Mrt=0.98 0.17
 Mrf=0.58 0.14 Mtf=0.44 0.10

Principal Axes:
 T Val= 3.82 Plg=75 Azm=338
 N -0.55 14 174
 P -3.28 4 83
 Best Double Couple: Mo=3.5*10**17
 NP1: Strike=158 Dip=43 Slip= 69
 NP2: 6 50 109

DAV 1.47 13 iPd 36 53.80 0.8
 KKM 8.99 273 eP 38 36.50 -0.8
 1.3s 173.60nm 5.7mb
 OCP 9.83 336 eP 39 03.00 14.4X
 BAG 11.64 337 eP 39 13.60 0.5
 eS 41 26.00
 KUPT 15.77 186 eP 40 01.00 -5.7X
 0.6s 330.20nm 5.7mb
 JAY 17.44 117 ePd 40 23.50 -4.0X
 TRT 18.28 224 iPc 40 40.00 2.2
 1.2s 52.60nm 4.6mb
 MTN 19.28 162 eP 40 47.30 -1.9
 HKC 19.72 328 iP 40 55.10 1.3
 iS 44 38.00
 ANP 19.76 350 eP 40 52.00 -2.3
 QIZ 20.06 313 eP 40 57.80 0.4
 1.2s 200.00nm 5.3mb
 N 14s 2.80um
 E 15s 3.40um
 eS 44 40.00
 QZH 20.22 342 Pc 40 59.00 0.0
 6.0s 3100.00nm 5.8mb X
 Z 28s 15.50um 5.2MsZ X
 S 44 44.00
 GZH 20.80 328 Pd 41 06.00 1.1
 6.0s 4100.00nm 5.9mb X
 Z 20s 7.80um 5.1MsZ
 N 17s 5.50um
 E 16s 6.30um
 iS 44 55.00
 GUMO 20.88 66 eP 41 16.20 10.4X
 PJG 20.88 66 eP 41 15.50 9.7X
 KNA 21.54 171 eP 41 11.20 -1.2
 e 41 20.00
 KGM 22.17 261 eP 41 22.50 3.8X
 KLM 23.67 265 eP 41 36.50 3.3X
 IPM 24.15 269 ePc 41 40.00 2.1
 0.9s 175.60nm 5.5mb
 e 42 51.60
 SNG 24.52 275 eP 41 43.40 1.9
 1.1s 139.24nm 5.3mb
 eS 46 02.00
 PCT 25.10 293 eP 41 49.00 2.1
 SSE 25.61 352 Pc 41 51.00 -0.5
 9.0s 880.00nm 5.3mb X
 sP 42 07.80
 LOE 25.80 299 eP 41 54.00 0.5
 PSI 26.41 265 ePd 42 00.40 1.3
 PMG 26.46 124 eP 41 59.50 0.0
 1.0s 200.00nm 5.6mb
 NST 26.58 294 eP 42 01.00 0.3
 WHN 26.81 339 eP 42 03.10 0.5
 7.0s 900.00nm 5.4mb X
 Z 20s 4.40um 5.0MsZ
 N 16s 4.10um
 E 16s 1.40um
 WB5 26.90 161 iPc 42 02.60 -0.9
 NJ2 26.95 348 eP 42 04.40 0.6
 Z 20s 4.40um 5.0MsZ
 N 15s 2.80um
 MBL 27.16 191 eP 42 05.20 -0.6
 BDT 28.14 296 eP 42 14.50 -0.3
 RAB 28.61 109 iPd 42 20.00 1.0
 1.0s 400.00nm 6.0mb
 eS 47 06.00
 CHG 28.79 299 ePc 42 20.40 -0.3
 1.5s 125.00nm 5.3mb
 eS 47 02.00
 CHTO 28.79 299 eP 42 20.50 -0.1
 1.8s 1558.10nm 6.3mb
 pP 42 29.10 30kmX
 KMI 28.99 314 Pc 42 23.00 0.3
 KMI 28.99 314 P+ 42 24.00 1.3X
 1.5s 220.00nm 5.6mb
 Z 28s 7.70um 5.2MsZ X
 N 15s 1.20um
 E 15s 2.70um
 pP 42 38.00 56kmX
 PP 43 20.00

			PPP	43	38.00		KLB	37.71	190	eP	43	34.70	-2.8		1.2s	687.50nm		6.7mb	X		
			S	47	12.00			0.4s	18.00nm			5.4mb				e(S)	54	42.90			
			sS	47	36.00		CN2	38.00	0	Pc	43	39.00	-0.9		SMY	61.59	31	eP	46	40.90	1.7
TKSJ	29.36	15	eP	42	24.50	-1.1		8.0s	800.00nm			5.7mb	X		THZ	64.11	142	eP	46	56.00	-0.1
NANU	29.60	198	eP	42	26.00	-1.8	Z	26s	3.80um			5.1msz	X		KHZ	64.87	142	P	47	00.50	-0.4
OIS	29.61	152	ePc	42	27.00	-1.0	N	15s	1.30um							0.4s	19.00nm		5.4mb		
			e	42	39.00		E	15s	0.80um						MNG	65.09	140	eP	47	00.80	-1.6
WKYJ	30.01	17	eP	42	29.50	-1.9			sP	44	01.00				ADK	66.24	35	eP	47	09.50	0.0
ASPA	30.33	164	iPd	42	33.10	-1.2			PP	45	11.00					1.5s	106.40nm		5.6mb		
	0.4s								eS	49	24.00				MAIO	67.19	307	eP	47	15.00	-1.0
Z	23s								eSS	52	06.00						eS	56	32.00		
			eS	47	14.80		MUN	38.39	192	eP	43	43.00	-0.3		SHI	72.22	299	eP	47	45.00	-2.0
YONJ	30.36	13	eP	42	34.70	0.3	MDJ	39.00	5	Pd	43	49.00	0.8		SDN	76.44	34	eP	48	10.50	0.0
TIA	31.32	347	eP	42	41.40	-1.5		1.0s	100.00nm			5.7mb		TAB	77.82	308	eP	48	19.00	0.3	
Z	22s						Z	25s	3.10um			5.0msz	X	SVW	79.83	29	ePc	48	30.00	0.9	
N	18s						N	12s	0.80um					TTA	79.88	27	eP	48	29.90	0.6	
E	15s						E	12s	1.00um						1.5s	139.50nm		5.7mb			
			epP	44	04.00	59kmX				44	04.00			IMA	81.25	24	iPc	48	37.40	0.8	
TSRJ	31.35	17	eP	42	42.80	-0.3			iS	49	44.00				1.1s	87.30nm		5.6mb			
WARB	31.67	178	eP	42	46.50	0.5			SS	52	32.00			PMR	82.99	29	eP	48	45.20	-0.2	
	0.6s								is	52	32.00				1.3s	258.00nm		6.0mb			
XAN	32.06	334	P	42	49.40	0.0	NWAO	39.10	191	eP	43	49.50	0.3		FBA	83.64	25	ePc	48	48.30	-0.4
	1.0s							0.5s	14.00nm			5.1mb			0.6s	32.30nm		5.5mb			
CD2	32.24	324	P	42	50.60	-0.4	MRRJ	39.23	19	P	43	52.40	2.3		TOA	84.39	28	ePc	48	53.00	0.4
	1.4s						RMO	39.23	146	eP	43	49.00	-1.4		MAW	85.03	200	iP	48	56.00	0.4
Z	20s								e	43	56.00			KVT	85.73	311	eP	49	00.30	0.5	
E	15s								e	45	58.00			SBA	86.42	172	iPd	49	04.70	2.4	
			pP	43	06.00	63kmX	HOOJ	39.94	21	P	43	57.90	1.9			S	59	38.80			
CHJJ	32.79	21	eP	42	53.20	-2.5															

UPA 151.34 60 ePKP 56 09.00 0.3
 NNA 157.29 108 i(PKP) 56 20.00 3.1X
 1.2s 32.81nm
 CNCB 162.94 132 PKP 56 26.00 2.6X
 LPB 163.03 131 PKP 56 25.00 1.6
 PDCR 163.12 245 e(PKP) 56 23.50 0.5
 ZOBO 163.17 130 PKP 56 25.00 1.3
 1.4s 41.44nm
 SKS 07 32.00
 LR 53 36.00
 SIV 167.99 149 PKPc 56 27.20 0.2
 S.D. = 1.3 on 131 of 166 obs.

• NOV 07, 1990 14h 59m 37.59±0.50s
 58.669 S ±12.2km 25.633 W ±16.5km
 DEPTH = 33.0km (normal)
 4.9mb (4 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SPA 31.50 180 iPc 05 58.70 0.4
 1.0s 10.50nm 4.6mb
 PPD 40.98 322 eP 07 18.70 0.0
 PDCR 47.16 342 eP 08 06.20 -2.3
 e 08 24.30
 SIV 49.99 313 P 08 29.40 -1.1
 CNCB 52.05 305 P 08 48.00 1.2
 LPB 52.35 305 (P) 08 55.00 6.2X
 ZOBO 52.59 305 P 08 52.00 1.1
 LIC 66.77 22 P 10 18.44 -9.2X
 KIC 66.96 23 P 10 29.50 0.7
 TIC 67.18 22 P 10 31.56 1.3
 LKO 69.90 21 Pc 10 47.16 0.1
 0.6s 6.50nm 4.9mb
 BCAO 72.05 47 iPc 11 01.60 1.5
 0.5s 9.00nm 5.0mb
 ic 11 24.00
 LTZ 77.82 193 eP 11 33.20 0.4
 FORR 88.16 158 eP 12 26.00 0.0
 0.4s 15.00nm 5.6mb
 HFS 122.40 22 ePKP 18 27.90 -1.4
 0.4s 1.00nm
 DMN 123.87 92 PKP 18 33.00 -0.6
 GKN 123.94 91 PKP 18 32.20 -1.4
 PKI 123.99 92 PKP 18 33.20 -0.7
 KKN 124.10 92 PKP 18 33.20 -0.8
 YKA 138.66 315 ePKP 18 59.70 -0.5
 0.6s 6.10nm
 MBC 146.72 334 ePKPc 19 16.00 2.1
 0.7s 16.00nm
 INK 148.34 318 ePKP 19 20.00 3.4X
 BJI 149.50 111 ePKP 19 23.50 4.2X
 2.0s 55.00nm
 S.D. = 1.2 on 19 of 23 obs.

% NOV 07, 1990 15h 38m 13.65±0.67s
 44.391 N ±5.7km 7.379 E ±6.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (GEN).

STV 0.15 195 P 38 17.24 0.0
 S 38 19.09
 ENR 0.17 170 P 38 17.25 -0.3
 S 38 19.73
 PZZ 0.23 300 P 38 18.79 0.1
 S 38 22.87
 ROB 0.37 105 P 38 21.72 0.5
 S 38 26.70
 BHB 0.46 350 P 38 22.78 -0.2
 S 38 29.14
 FIN 0.62 107 P 38 25.73 -0.5
 S.D. = 0.5 on 6 of 6 obs.

NOV 07, 1990 16h 18m 59.28±0.95s
 36.474 N ±8.3km 70.834 E ±7.4km
 DEPTH = 185.7 ±11.7 km
 4.4mb (6 obs.)
 HINDU KUSH REGION (718)

KSH 5.04 52 Pc 20 16.00 1.3
 S 21 13.50
 QUE 7.06 208 iPd 20 43.00 1.8
 0.8s 708.96nm 6.0mb X
 eS 22 01.00
 MAIO 9.15 272 eP 21 07.00 -1.6
 eS 22 48.00
 NDI 9.45 143 eP 21 12.50 0.1

0.4s 25.42nm 5.0mb
 GKN 14.40 122 P 22 14.40 -1.6
 WMO 14.82 55 P 22 19.80 -1.3
 S 25 05.50
 DMN 14.97 122 P 22 22.20 -1.0
 KKN 14.98 121 P 22 21.60 -1.6
 PKI 15.20 122 P 22 25.00 -1.1
 GUN 15.32 120 P 22 27.40 -0.1
 LSA 18.30 106 P 23 04.80 2.6
 HYB 20.18 158 eP 23 21.50 0.4
 GTA 23.00 74 eP 23 50.40 1.7
 GBA 23.53 164 Pc 23 55.00 1.2
 0.5s 8.10nm 4.6mb
 CHG 30.33 118 eP 24 55.70 0.3
 CHTO 30.33 118 eP 24 55.20 -0.2
 0.5s 2.30nm 4.2mb
 BDT 31.42 120 eP 25 05.20 0.3
 TIY 33.01 75 eP 25 19.00 0.3
 PSI 42.44 136 ePd 26 37.30 0.0
 HFS 43.00 322 eP 26 41.70 0.3
 0.4s 2.20nm 4.1mb
 NB2 44.32 323 P 26 51.80 -0.2
 0.6s 3.10nm 4.0mb
 WB5 82.07 122 eP 30 59.00 -1.1
 ASPA 84.35 125 iPc 31 10.50 -1.1
 0.5s 10.40nm 4.8mb
 S.D. = 1.3 on 23 of 23 obs.

% NOV 07, 1990 16h 41m 41.38±0.67s
 43.882 N ±9.2km 11.561 E ±5.1km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

PGD 0.12 93 Pd 41 45.50 1.0
 eSg 41 49.50
 SFI 0.21 79 Pd 41 45.80 -0.2
 iSg 41 50.10
 CRE 0.38 132 P 41 49.60 0.4
 eSg 41 57.60
 BDI 0.72 285 P 41 55.70 0.1
 PII 0.77 258 P 41 56.20 -0.1
 eSg 42 09.00
 ARV 1.07 110 Pc 42 00.50 -1.1
 eSg 42 17.50
 FVI 2.85 17 P 42 27.50 -0.1
 S.D. = 0.8 on 7 of 7 obs.

NOV 07, 1990 16h 48m 38.76±0.10s
 20.701 S ±3.0km 178.293 W ±2.8km
 DEPTH = 541.7km (2 depth phases)
 5.3mb (59 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.8.: 15S, 29C
 Centroid Location:
 Origin Time 16:48:46.4 0.9
 Lat 20.39S 0.07 Lon 178.62W 0.07
 Dep 570.4 3.3 Half-duration 1.8
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.07 0.06 Mtt=0.25 0.11
 Mtf=0.82 0.10 Mrt=-1.01 0.10
 Mrf=-0.23 0.09 Mtf=0.58 0.09
 Principal Axes:
 T Val= 1.43 Plg=19 Azm=131
 N 0.19 22 229
 P -1.62 61 4
 Best Double Couple: Mo=1.5*10**17
 NP1: Strike=190 Dip=33 Slip=-133
 NP2: 58 67 -66

SVA 4.00 309 iP 50 01.00 0.3
 eS 51 16.00
 VUN 4.07 311 eP 50 01.10 -0.1
 MBU 4.66 322 iPd 50 07.00 1.0
 NDF 4.97 305 eP 50 08.50 -0.1
 PVC 12.99 281 iPc 51 29.50 1.5
 DZM 14.28 262 iPd 51 42.30 1.2
 HBZ 17.10 189 eP 52 09.70 1.3
 0.8s 62.00nm 5.3mb
 PUZ 17.57 189 eP 52 15.40 2.3
 WLZ 17.89 196 P 52 19.20 3.1X
 NOZ 18.14 189 eP 52 20.50 2.0
 NGZ 19.15 195 eP 52 29.30 0.9
 CNZ 19.18 195 eP 52 28.90 0.2
 PGZ 20.39 192 P 52 38.70 -1.0
 0.3s 17.00nm 5.2mb

MNG 20.55 194 eP 52 39.90 -1.4
 0.3s 14.00nm 5.1mb
 MTW 21.07 193 eP 52 44.80 -1.2
 CAW 21.11 194 eP 52 45.30 -1.1
 BLW 21.27 193 eP 52 48.60 0.8
 WDW 21.28 194 P 52 47.60 -0.3
 MRW 21.31 195 P 52 47.50 -0.7
 TCW 21.40 196 P 52 48.20 -0.8
 THZ 22.28 198 P 52 57.10 0.0
 KHZ 22.72 196 P 53 00.10 -0.8
 0.5s 48.00nm 5.4mb
 LTZ 23.40 198 P 53 05.70 -1.5
 HNR 23.78 295 P 53 17.00 6.3X
 MQZ 24.15 196 eP 53 13.10 -0.8
 TBI 26.84 101 iP 53 38.60 0.9
 0.6s 75.00nm 5.5mb
 AFR 27.11 88 iP 53 40.00 -0.1
 0.8s 130.00nm 5.6mb
 BRS 27.21 250 iPc 53 42.50 1.5
 PAE 27.27 89 iP 53 41.20 -0.3
 0.8s 60.00nm 5.3mb
 PPT 27.29 88 iP 53 41.60 -0.2
 0.8s 85.00nm 5.4mb
 PPN 27.43 88 iP 53 42.60 -0.4
 0.8s 40.00nm 5.1mb
 TVO 27.56 89 iP 53 43.80 -0.3
 0.8s 75.00nm 5.4mb
 COO 28.55 244 iPc 53 54.00 1.3
 PMO 29.45 84 iP 54 00.10 -0.4
 0.8s 40.00nm 5.1mb
 VAH 29.64 85 iP 54 01.40 -0.7
 0.8s 25.00nm 4.9mb
 TPT 29.72 84 iP 54 02.30 -0.5
 0.8s 50.00nm 5.2mb
 RUV 29.88 85 iP 54 03.90 -0.3
 0.8s 80.00nm 5.4mb
 RMQ 30.69 253 iPd 54 11.00 0.0
 i 56 52.00
 CAN 32.17 236 eP 54 26.20 2.7
 e 56 57.20
 i 59 51.30
 BWA 32.36 238 eP 54 25.20 0.1
 e 56 57.50
 i 59 51.50
 CTA 33.20 265 iPc 54 32.90 0.7
 0.8s 67.16nm 5.3mb
 iPcP 56 59.40
 iS 59 13.00
 iScS 03 57.80
 CMS 33.83 244 iPc 54 39.00 1.6
 QLP 34.74 253 iPd 54 46.10 1.0
 e 56 45.60
 i 57 05.00
 PMG 35.12 283 eP 54 46.00 -2.3
 TOO 35.56 234 eP 54 53.70 1.9
 QIS 39.32 263 iPc 55 23.00 0.3
 i 57 18.00
 RKT 40.16 102 iP 55 30.20 0.8
 1.2s 80.00nm 5.2mb
 ASPA 44.21 257 iPd 56 01.50 -0.1
 0.7s 110.00nm 5.5mb
 Z 18s 0.25um 4.2MsZ
 iPcP 57 34.30
 iPcS 01 26.30
 iS 01 53.50
 iScS 05 01.20
 WB5 44.28 262 iPd 56 01.50 -0.7
 iPcP 57 35.00
 eS 01 54.80
 WRA 44.30 262 P 56 00.00 -2.3
 0.6s 71.90nm 5.4mb
 MTN 48.89 271 eP 56 36.00 -1.3
 FORR 48.93 247 iPc 56 36.90 -0.4
 0.4s 17.00nm 4.9mb
 GUA 49.65 310 eP 56 42.20 -0.7
 GUMO 49.72 310 eP 56 43.00 -0.3
 0.7s 243.96nm 5.8mb
 PJG 49.72 310 eP 56 42.90 -0.4
 WARB 50.51 253 eP 56 49.00 -0.1
 0.8s 60.00nm 5.1mb
 MBL 57.45 258 iPd 57 37.30 -0.9
 0.8s 137.00nm 5.3mb
 e 58 24.00 205kmX
 SBA 57.65 184 iPc 57 42.00 3.2X
 KLB 57.72 245 eP 57 39.00 -0.9
 0.8s 50.00nm 4.9mb
 NWA0 58.03 243 eP 57 40.00 -2.1

07d 16h

BAL	58.72	246	eP	57	46.10	-0.7	GYA	86.51	300	P	00	26.80	1.2	EAB	144.28	6	iPKPd	07	12.70	-1.3
MUN	58.99	244	eP	57	48.20	-0.3	PNT	86.97	34	iPd	00	28.00	0.8	EBH	144.29	5	iPKPd	07	12.90	-1.1
MRWA	59.52	248	eP	57	52.00	0.0		0.9s	120.00nm				5.6mb	KVT	144.53	313	ePKP	07	14.90	-0.1
NANU	61.08	255	eP	58	01.70	-0.7	DAU	87.02	45	P	00	28.30	0.3	ESY	144.69	4	ePKPd	07	13.90	-0.8
SPA	69.43	180	iPc	58	55.30	1.3	TIY	87.21	312	iPd	00	29.10	0.5		1.0s	140.00nm				
	1.0s	75.00nm				5.2mb		1.4s	100.00nm				5.4mb	EAU	144.70	5	iPKPd	07	14.30	-0.5
		i	00	47.40	537km		PTI	87.56	42	P	00	30.80	0.5	EBL	144.80	5	ePKPd	07	14.50	-0.4
KKM	69.54	285	eP	58	54.50	-0.9	NEW	87.70	36	P	00	30.20	-0.5		1.0s	202.00nm				
	1.0s	87.30nm				5.2mb		0.8s	56.25nm				5.4mb	LWI	145.01	233	iPKPd	07	18.20	1.4
MAT	70.21	324	iPd	58	57.40	-1.4	ALO	87.74	51	eP	00	31.30	-0.1	EKA	145.23	5	PKP	07	15.00	-0.6
	1.4s	90.70nm				5.1mb		1.0s	40.00nm				5.2mb		0.9s	89.40nm				
OFUJ	70.29	328	eP	58	58.00	-1.1		e	02	07.00	416kmX			ESK	145.24	5	iPKPd	07	15.50	-0.2
KUSJ	72.03	332	eP	59	08.30	-0.9	ANMO	87.74	51	P	00	31.40	0.0		0.9s	108.00nm				
ADK	72.28	1	iPd	59	08.70	-1.7		0.9s	34.66nm				5.2mb	KAS	145.95	314	ePKP	07	18.00	0.6
	0.6s	321.70nm				6.0mb	XAN	88.03	307	Pd	00	34.00	1.4	IAS	146.26	328	ePKP	07	21.00	3.4X
MRRJ	73.15	330	eP	59	15.10	-0.5		1.0s	100.00nm				5.6mb	CSTJ	147.01	296	PKPd	07	22.70	3.3X
SMY	73.42	355	ePd	59	15.30	-1.5	IMA	88.49	10	iPd	00	33.60	-0.5	HLBJ	147.14	297	PKP	07	22.90	3.3X
	0.9s	338.50nm				5.9mb		0.8s	49.00nm				5.4mb	BHL	147.25	301	PKP	07	22.00	2.3X
ASAJ	73.75	332	eP	59	19.60	0.6	FBA	88.50	13	iPd	00	32.90	-1.0	BBTK	147.33	313	iPKPd	07	19.50	-0.2
OZH	76.29	304	eP	59	33.50	0.1	LRM	89.04	40	iPd	00	33.75	-3.4X			i	07	23.00		
SDN	77.24	10	iPd	59	36.70	-1.2	KMI	89.20	297	Pd	00	39.50	1.2	KRA	147.33	338	iPKPd	07	18.80	-0.4
	0.7s	406.40nm				6.0mb		1.5s	120.00nm				5.6mb		0.8s	113.00nm				
SSE	77.61	310	Pd	59	40.50	0.1	HMC	89.30	314	P	00	39.00	0.7		i		07	21.90		
	1.2s	1042.00nm				6.1mb	BW06	89.30	43	P	00	37.80	-0.6			i	07	26.10		
SYR	78.01	46	iPd	59	43.80	1.1		0.8s	42.86nm				5.4mb	SHMJ	147.44	299	PKP	07	23.60	3.6X
PRS	78.15	44	ePd	59	44.20	0.9	BDT	89.42	289	iPd	00	40.20	1.1	ETA	147.48	9	ePKP	07	22.10	2.8X
GCC	78.17	43	ePd	59	44.00	0.7		1.0s	74.50nm				5.6mb		0.7s	51.00nm				
PCC	78.21	42	iPd	59	44.30	0.8	CHG	90.05	290	iPd	00	43.80	1.7	VRI	147.58	327	iPKPd	07	22.00	2.2X
BCH	78.32	45	P	59	44.90	0.6		1.0s	50.75nm				5.4mb	WAJH	147.62	286	ePKP	07	20.00	-0.4
SAO	78.36	43	ePd	59	44.80	0.4	CHTO	90.05	290	iPd	00	43.40	1.3	WIT	147.72	354	iPKP	07	21.90	2.2X
NWRM	78.48	41	P	59	45.00	0.1		0.9s	48.81nm				5.4mb	KSP	147.80	343	ePKPd	07	19.50	-0.5
PRI	78.50	44	ePd	59	46.30	1.1	BTO	90.22	314	P	00	43.00	0.5			id	07	23.70		
BRK	78.51	42	ePd	59	45.80	0.7	GOL	90.66	48	P	00	44.80	0.0			e	09	31.00		
BKS	78.53	42	iPd	59	46.30	1.1		1.0s	26.25nm				5.2mb	CVO	147.90	327	ePKPd	07	23.00	2.7X
	0.8s	241.00nm				5.7mb	CD2	90.67	303	P	00	45.10	0.4	AYN	147.91	292	ePKP	07	20.70	-0.1
MHC	78.58	43	ePd	59	46.70	1.0	GLD	90.78	48	P	00	46.00	0.8	SPC	147.95	337	ePKP	07	19.70	-0.8
LLA	78.60	44	ePd	59	46.50	0.9		1.6s	64.81nm				5.4mb			i	07	24.40		
ARN	78.66	43	P	59	46.90	1.0	SES	92.19	36	iPd	00	51.50	0.2	ECP	147.96	9	ePKP	07	23.30	3.2X
ABL	78.71	46	P	59	46.80	0.3		1.0s	184.00nm				6.1mb		0.9s	144.00nm				
PAS	79.02	47	iPd	59	48.40	0.5	EDM	92.43	33	iPd	00	52.00	-0.3	DSI	148.01	297	e(PKP)	07	15.00	-5.9X
BAR	79.25	49	iPd	59	49.70	0.5	LZH	92.67	308	iPd	00	54.50	0.5	ISR	148.17	326	ePKPd	07	24.00	3.2X
FHC	79.28	39	ePd	59	50.20	1.1		2.0s	71.00nm				5.4mb	CLL	148.19	347	iPKP	07	20.00	-0.5
RVR	79.48	48	iPd	59	51.00	0.7	BRW	92.97	7	eP	00	54.00	-0.3			i	07	24.20		
PLM	79.49	48	iPd	59	51.70	1.1	INK	94.54	15	ePd	01	00.60	-1.0			pPKP	09	32.00		
SBP	79.56	47	iPd	59	51.50	0.7		1.0s	40.00nm				5.5mb			eSKP	10	11.00		
FRI	79.62	44	iPd	59	51.40	0.5	YKA	96.81	25	eP	01	10.90	-1.0	PSN	148.19	322	iPKPd	07	25.00	4.2X
ISA	79.67	46	iPd	59	52.30	1.0		0.8s	6.80nm				5.0mb	MLR	148.24	327	ePKPd	07	19.00	-2.0X
NJ2	79.79	310	Pd	59	52.50	0.6	GTA	96.89	309	eP	01	12.80	-0.2	BRG	148.38	345	iPKPd	07	20.40	-0.4
	1.2s	100.00nm				5.1mb		0.6s	10.00nm				5.3mb			i	07	25.20		
CMB	79.80	43	iPd	59	52.40	0.5	GKN	105.43	294	PKP	06	00.40	-1.7			i	07	30.00		
KGM	79.86	276	eP	59	54.00	1.3	WMO	106.85	311	ePKP	06	02.70	-1.5	PRNI	148.56	295	e(PKP)	07	20.00	-1.8
WDC	80.00	40	iPd	59	53.60	0.8	KSH	114.76	305	ePKP	06	20.00	0.5	HOL	148.68	292	ePKP	07	22.00	0.0
ORV	80.01	41	ePd	59	53.40	0.5	BNH	116.22	50	PKP	06	21.20	-0.7	MBH	148.75	293	ePKP	07	22.00	-0.2
CLC	80.35	46	iPd	59	55.70	0.9	QUE	121.02	293	iPKPd	06	32.00	0.3	GPA	148.77	315	iPKP	07	25.20	3.4X
TPC	80.47	48	iPd	59	56.60	1.1		1.0s	430.00nm					BADA	148.82	291	ePKP	07	22.20	0.0
MDJ	80.52	325	iPd	59	55.80	0.4	DAG	122.95	6	iPKPd	06	32.00	-1.8	CMP	148.86	327	ePKP	07	37.00	15.2X
	1.2s	100.00nm				5.2mb		0.9s	14.29nm				TNR	148.97	329	ePKPd	07	26.00	4.1X	
GSC	80.60	47	iPd	59	57.00	0.8	CER	123.68	198	ePKP	06	27.40	-9.2X	PRU	149.05	344	PKPd	07	21.20	-0.7
LBFM	80.86	39	P	59	57.90	0.3	SEK	125.21	208	iPKPd	06	40.20	0.3		1.3s	18.10nm				
KDC	81.06	14	ePd	59	57.50	-0.4	SWZ	127.19	207	iPKPd	06	43.20	-0.5	MOX	149.11	348	iPKP	07	22.00	0.0
DL2	81.69	317	P	00	01.40	-0.1		0.6s	40.00nm						1.4s	34.00nm				
KVN	81.84	43	P	00	02.80	0.2	MAIO	127.61	300	iPKPd	06	43.50	-0.6			i	07	27.00		
TNP	81.87	44	P	00	03.00	0.3		1.0s	12.50nm					HOF	149.37	347	iPKPd	07	22.00	-0.4
SNY	82.18	320	Pd	00	04.00	0.1	PDCR	128.02	126	ePKP	06	44.20	-1.2	DEV	149.45	330	ePKPd	07	30.00	7.4X
	0.8s	20.00nm				4.7mb		e	09	13.20			ALT	149.51	313	iPKP	07	26.30	3.2X	
CN2	82.29	323	iPd	00	04.40	0.0	KEV	128.61	349	iPKP	06	43.00	-1.8	SRO	149.80	337	iPKP	07	27.60	4.5X
	4.0s	500.00nm				5.4mb X	SOD	130.74	348	ePKP	06	44.00	-5.0X			e	08	47.00		
WHN	82.34	307	Pd	00	06.00	1.1	BUL	131.62	215	iPKPd	06	49.60	-2.6X	ENN	149.81	355	iPKP	07	23.00	0.0
	1.5s	100.00nm				5.1mb		1.0s	10.00nm						1.0s	24.00nm				
IPM	82.92	278	ePd	00	10.10	1.9		iSKP	09	25.60						iP'P'd	07	28.50		
	1.1s	99.40nm				5.3mb	KRI	133.73	218	ePKP	06	43.90	-12.4X			i	07	36.00		
BMW	83.31	35	P	00	10.00	0.5		iSKP	09	25.00										
SVW	83.55	11	ePd	00	09.90	-0.5	SUF	134.80	344	ePKP	06	43.40	-13.4X							
PSI	84.20	275	ePd	00	14.70	0.1	NUR	137.05	344	ePKP	07	00.60	-0.5							
GMW	84.22	34	P	00	14.20	0.2		1.0s	64.00nm											
LON	84.24	35	P	00	14.00	-0.2				07	00.30									
SNG	84.25	280	eP	00	16.80	2.1	NB2	139.15	353	PKP	06	54.40	-10.6X							
PGC	84.58	33	eP	00</																

UCC	149.89	357	iPKP-	07 29.00	5.9X	1.1s	130.00nm		KAKJ	1.94	247	P	56 51.30	-1.2		
ZST	149.89	339	ePKP	07 23.20	0.0		i	07 37.60				S	57 14.90			
			i	07 28.20				07 53.40		OFUJ	2.16	345	iP+	56 55.10	-0.4	
			i	07 36.40		TMA	153.99	349 ePKPc	07 29.20	-0.2		eS	57 22.00			
BCK	149.90	310	ePKP	07 37.00	13.3X	SMF	154.06	357 ePKP	07 29.30	0.1	YAMJ	2.21	303	P	56 55.80	-0.4
MEM	149.96	355	PKPc	07 23.40	0.2		1.0s	12.00nm				eS	57 21.60			
			ed	07 28.70		MFF	154.12	3 ePKP	07 29.00	-0.3	NIJ	2.71	276	P	57 03.80	0.4
TNS	150.06	351	iPKPd	07 28.80	5.3X		1.0s	14.00nm				S	57 32.50			
KHC	150.09	344	PKPd	07 23.50	0.0	SAL	154.12	346 PKP	07 29.50	0.2	CHJJ	2.89	252	P	57 04.70	-1.2
GRF	150.10	348	ePKPd	07 23.60	0.1	BGF	154.19	358 ePKP	07 29.30	-0.1			S	57 37.70		
			id	07 29.60			1.0s	19.00nm			MAT	3.38	264	eP	57 13.00	0.0
			e	07 37.30		MMK	154.20	350 ePKPc	07 30.50	0.8			eS	57 53.00		
SNF	150.18	357	PKPd	07 29.40	5.9X	VAI	154.24	349 PKP	07 29.00	-0.4	MTMJ	3.70	265	P	57 18.70	1.2
			e	07 37.30		DIX	154.26	351 ePKPc	07 30.70	0.8	IIDJ	3.92	249	P	57 21.10	0.5
BZS	150.24	331	ePKP	07 23.00	-0.8	EMS	154.34	352 ePKPc	07 30.30	0.4			S	58 06.80		
KHL	150.26	312	iPKP	07 30.20	6.0X	TCF	154.47	359 ePKP	07 29.70	-0.1	GUN	47.93	279	P	05 00.00	1.1
DOU	150.58	356	PKPc	07 23.90	-0.3		1.0s	20.00nm			WRA	57.13	189	P	06 18.00	11.0X
			ed	07 30.20		LSF	154.52	0 ePKP	07 29.40	-0.4						
			i	07 38.90			1.1s	22.00nm								
ELL	150.70	309	iPKP	07 30.80	5.8X	MAF	154.54	359 ePKP	07 29.90	0.0						
DIM	150.73	322	ePKP	07 31.00	6.3X		1.2s	20.85nm								
KDZ	151.05	321	iPKPd	07 32.00	6.8X	LPL	154.91	352 ePKP	07 30.80	0.1						
PLD	151.17	323	iPKP	07 32.00	6.7X		1.0s	8.00nm								
PGB	151.18	324	iPKP	07 32.00	6.6X	LPG	154.92	352 ePKP	07 31.00	0.2						
BEQ	151.38	331	iPKPc	07 32.00	6.5X		1.0s	8.00nm								
			i	07 42.50		SFI	155.35	342 PKP	07 31.50	0.5						
RZN	151.43	322	iPKP	07 32.00	6.0X	BNI	155.37	352 PKP	07 31.90	0.7						
FUR	151.53	346	iPKPc	07 26.00	0.3	RJF	155.46	0 ePKP	07 31.10	-0.1						
			i	07 32.50			0.8s	14.80nm								
			i	07 43.60		CRE	155.59	342 PKP	07 36.00	4.5X						
BHG	151.57	344	iPKPc	07 25.70	0.0	LFF	155.81	2 ePKP	07 31.40	-0.2						
			i	07 32.10			1.2s	35.70nm								
			i	07 44.10		CAF	155.84	359 ePKP	07 31.90	0.2						
VTS	151.67	325	iPKP	07 33.00	6.8X		1.2s	17.85nm								
FLN	151.95	3	ePKP	07 25.80	-0.4	PII	155.89	344 PKP	07 40.50	8.8X						
	1.0s		54.00nm			LPO	156.08	1 ePKP	07 32.10	0.1						
KBA	152.04	343	iPKPc	07 25.70	-1.0		1.2s	23.80nm								
	0.6s		35.90nm			SBF	156.41	350 ePKP	07 31.90	-0.6						
			i	07 32.00			1.3s	46.95nm								
LDF	152.13	3	ePKP	07 26.10	-0.4	SDI	156.69	337 PKP	07 34.00	1.1						
	1.2s		50.60nm			BCAO	156.99	228 iPKPd	07 34.70	0.6						
KKB	152.23	324	iPKP	07 33.00	6.1X		0.5s	15.00nm								
WATA	152.25	346	iPKPc	07 26.40	-0.5			ic	08 09.90							
	0.9s		84.20nm					id	10 12.60							
			i	07 33.80		LMR	157.08	351 ePKP	07 32.70	-0.6						
			i	07 46.70			1.0s	16.00nm								
PTJ	152.28	338	ePKP	07 26.00	-0.9	EPF	157.71	3 ePKP	07 34.20	0.1						
GRR	152.30	4	ePKP	07 26.50	-0.2		1.2s	19.35nm								
	1.2s		41.65nm			LIC	164.20	155 PKPd	07 41.48	0.0						
FEL	152.41	351	ePKP	07 25.60	-1.5		0.9s	25.00nm								
SOTA	152.44	346	iPKPc	07 27.00	-0.1	KIC	164.43	155 PKPd	07 41.48	-0.2						
	0.8s		64.70nm				0.9s	24.50nm								
			i	07 34.20		TIC	164.58	154 PKP	07 41.70	-0.1						
			i	07 47.40		LKO	166.87	147 PKPd	07 42.64	-1.0						
SLE	152.45	350	ePKPc	07 26.90	-0.1		1.0s	31.00nm								
LJU	152.62	340	ePKPd	07 34.50	7.2X											
BSF	152.62	353	ePKP	07 27.00	-0.4											
	1.0s		14.00nm													
FVI	152.63	343	PKP	07 33.90	6.7X											
LPF	152.64	4	ePKP	07 27.00	-0.2											
	0.8s		8.05nm													
ZLA	152.74	350	ePKPc	07 27.50	0.0											
SAX	152.80	349	ePKPc	07 27.80	-0.1											
OGA	152.82	346	iPKPc	07 28.10	0.3											
			i	07 35.50		JAY	1.65	18 iPc	52 19.70	-0.5						
			i	07 49.50				iS	52 43.00							
VBY	152.86	339	iPKPd	07 35.30	7.7X	MNDI	4.00	121 eP	52 55.00	1.7						
VAY	152.88	324	iPKP	07 34.70	6.9X	PMG	8.69	128 eP	53 57.00	-1.2						
	1.1s		96.00nm			MTN	12.49	225 eP	54 50.00	0.5						
			i	07 49.50				eS	57 03.00							
CEY	152.93	340	ePKPd	07 35.20	7.5X	OIS	16.37	182 iPd	55 38.50	-1.4						
SKO	153.04	326	iPKP	07 35.20	7.2X			e	57 36.00							
			i	07 49.00				eS	58 36.00							
TRI	153.16	341	PKP	07 35.50	7.5X	WB5	16.68	199 eP	55 43.90	0.1						
LLS	153.23	349	ePKPc	07 28.40	0.0			eS	58 47.20							
VVI	153.29	343	PKP	07 36.00	7.8X	WRA	16.75	199 P	55 56.00	11.3X						
CTI	153.43	344	PKP	07 28.00	-0.5		0.4s	4.60nm								
LOR	153.44	357	ePKP	07 28.20	-0.2	ASPA	20.38	197 eP	56 27.00	0.3						
	1.2s		23.80nm				0.9s	24.20nm								
VDL	153.51	348	ePKPc	07 28.80	0.1	KIC	145.02	275 PKP	11 25.40	0.2						
SSF	153.66	357	ePKP	07 28.60	-0.1	LKO	145.62	281 PKP	11 26.40	0.2						
	1.4s		47.90nm													
LBF	153.72	356	ePKP	07 28.60	-0.2											
	1.2s		22.30nm													
AVF	153.94	357	ePKP	07 28.80	-0.2											
	1.0s		8.00nm													
OHR	153.99	326	iPKP	07 28.30	-1.1											

S.D. = 1.0 on 9 of 10 obs.									
NOV 07, 1990 19h 05m 27.97± 0.14s									
55.974 S ± 4.3km 27.538 W ± 4.4km									
DEPTH = 47.6km (geophysicist)									
5.9mb (19 obs.) 5.3Msz (6 obs.)									
SOUTH SANDWICH ISLANDS REGION (153)									
Depth from broadband									
displacement seismograms.									
FAULT PLANE SOLUTION: P-Waves									
NP1:Strike=220 Dip=81 Slip= 90									
NP2: 40 9 90									
Principal Axes:									
T Plg=54 Azm=130									
P 36 310									
Comment: The focal mechanism is									
poorly controlled and									
corresponds to reverse									
faulting. The preferred fault									
plane is NP2.									
MOMENT TENSOR SOLUTION									
Dep 40 No. of sto: 5									
Moment Tensor: Scale 10**17 Nm									
Mrr= 1.23 Mtt=-2.87									
Mff= 1.65 Mrt=-1.73									
Mrf=-2.82 Mtf=-1.06									
Principal axes:									
T Val= 4.29 Plg=44 Azm= 95									
N -0.02 34 227									
P -4.27 26 336									
Best Double Couple:Mo=4.3*10**17									
NP1:Strike=115 Dip=36 Slip= 163									
NP2: 219 80 55									
CENTROID, MOMENT TENSOR (HRV)									
Data Used: GDSN									
L.P.B.: 18S, 38C									
Centroid Location:									
Origin Time 19:05:34.1 0.2									
Lat 55.97S 0.03 Lon 27.55W 0.05									
Dep 51.5 3.6 Half-duration 2.5									
Moment Tensor: Scale 10**17 Nm									
Mrr= 0.29 0.07 Mtt= 0.99 0.11									
Mff=-1.28 0.10 Mrt=-2.59 0.14									
Mrf=-3.22 0.16 Mtf= 0.19 0.10									
Principal Axes:									
T Val= 4.32 Plg=45 Azm=143									
N -0.06 15 37									
P -4.26 41 293									
Best Double Couple:Mo=4.3*10**17									
NP1:Strike=315 Dip=16 Slip= 7									
NP2: 218 88 105									
AIA	19.97	227	eP	10 00.80	2.2				
			e(S)	13 45.00					
LPA	29.58	303	iP-	11 30.80	0.5				
Z	22s		4.44um		5.0Msz				
SPA	34.21	180	iPc	12 11.90	1.2				
	1.0s		175.00nm		5.9mb				
Z	20s		14.19um		5.7Msz				
			i	14 44.80					
BMA	35.44	333	iPd	12 22.60	1.2				
			e	12 34.90	45kmX				
VAO	35.92	329	eP	12 26.70	1.2				
			e	12 43.70	68kmX				
			e	12 54.10					
JFO	36.16	335	eP	12 29.30	1.8				
			e	12 44.70	60kmX				
ITB7	36.42	317	eP	12 31.00	1.4				
ITB	36.73	317	Pc	12 36.20	4.00				

CHCH	36.80	288	eP	12 32.00	-0.8	MORO	74.74	318	eP	17 04.50	-0.1	KKN	125.22	92	PKPd	24 23.64	-1.1
			i	12 47.50	61kmX	NAI	74.83	69	eP	17 10.00	4.7X		0.9s		43.00nm		
ITB1	36.93	317	eP	12 35.00	1.1	BBL	76.72	326	eP	17 15.00	-0.6	SUF	125.49	27	ePKP	24 23.40	-0.4
PCH	36.97	289	eP	12 33.50	-0.8	MGG	77.05	327	eP	17 17.00	-0.4	CHG	125.57	111	ePKPd	24 24.90	-0.5
FCH	37.07	289	eP	12 34.50	-1.0	SEG	77.56	327	eP	17 20.00	-0.2		1.0s		15.00nm		
			e	12 50.00	61kmX	UPA	77.66	307	eP	17 20.50	-0.3	CHTO	125.57	111	ePKP	24 24.20	-1.2
TACH	37.17	288	eP	12 34.50	-1.4	BPA	78.27	327	eP	17 40.23	16.1X	GUN	125.65	92	PKPd	24 24.82	-0.9
			i	12 49.50	58kmX	NEV	78.58	326	eP	17 42.09	16.3X		0.9s		70.00nm		
LNv	37.19	288	eP	12 34.00	-2.0	SKI	78.82	326	eP	17 42.88	15.7X	FFC	125.89	316	ePKP	24 25.00	0.1
CFA	37.35	293	iPc	12 35.50	-1.9	LTZ	80.19	195	P	17 34.50	0.1		1.3s		31.00nm		
PEL	37.43	289	iPd	12 37.50	-0.6	THZ	81.10	195	P	17 39.20	0.0	FHC	125.89	291	ePKPc	24 26.10	0.7
			i	12 53.00	61kmX	WEL	81.28	197	P	17 40.20	0.2	SES	126.49	308	ePKPc	24 25.00	-1.3
RTLL	37.69	294	ePc	12 38.60	-1.7		1.2s	*****nm		8.3mb	X	KSH	128.69	75	ePKP	24 29.00	-1.9
ROCH	37.73	289	eP	12 33.50	-7.4X	PGZ	81.67	198	eP	17 41.70	-0.4	SOD	129.44	24	iPKP	24 31.20	-0.1
PPD	38.21	323	eP	12 44.90	0.2		0.8s		80.00nm		5.8mb				i	24 48.00	
			e	12 50.10	18kmX	CNZ	83.18	198	P	17 50.20	0.1				i	27 44.00	
			e	13 00.90		NGZ	83.19	198	P	17 49.80	-0.4	EDM	129.50	309	ePKP	24 31.10	-0.8
RTRS	39.12	294	iPd	12 52.50	0.3	NWAO	86.49	151	iPd	18 07.10	0.5	PNT	129.69	302	ePKPc	24 32.50	0.1
CER	39.24	75	iPc	12 55.00	1.8	Z	20s		0.70um		5.1Msz	LSA	129.98	95	PKP	24 34.00	-0.1
	0.9s	215.38nm			6.0mb	TOO	86.63	174	ePd	18 07.90	0.6	KEV	131.44	22	ePKP	24 33.00	-2.0X
MAW	40.33	144	iPc+	13 03.00	1.3			e		21 29.00					e	27 50.00	
	1.0s	263.00nm			6.0mb	BFD	86.83	172	ePd	18 10.70	2.5	DAG	132.60	3	iPKPc	24 37.00	0.0
			iS	18 46.40		MUN	87.10	150	iPd	18 09.90	0.3		0.9s		6.72nm		
BAO	43.20	331	ePd	13 26.90	1.0		0.9s		182.00nm		6.3mb	KMI	132.74	110	ePKP	24 39.00	-0.1
PDCR	44.27	344	iPd	13 34.40	-0.1	KLB	87.89	151	iPd	18 14.00	0.6	GYA	135.88	113	PKP	24 46.00	1.1
			e	13 48.50	54kmX		0.8s		99.00nm		6.1mb	YKA	135.98	318	ePKP	24 42.90	-0.9
			i	14 20.70		TIO	88.27	17	iP	18 18.00	2.9		1.0s		23.00nm		
			i	19 02.40				i		18 33.00	51kmX	WMO	138.08	79	PKP	24 42.80	-5.8X
ANT	44.91	298	eP	13 38.50	-1.0	BAL	88.53	150	eP	18 16.00	-0.5	LZH	141.81	101	PKP	24 57.50	1.9
SBA	46.14	184	iPc	13 50.50	1.8	CAN	89.02	177	eP	18 19.00	0.2		6.0s		500.00nm		
SWZ	47.30	75	iPc	13 58.00	-0.6	CNB	89.03	177	iPc	18 19.70	0.8	Z	30s		0.86um		5.3MszX
	0.6s	186.67nm			6.2mb	COOL	89.46	153	eP	18 21.30	0.4	GTA	141.92	93	ePKP	24 49.00	-6.7X
SIV	47.38	314	iPd	13 59.30	0.1	MRWA	89.63	149	eP	18 22.00	0.2		6.0s		510.00nm		
SEK	47.67	78	iPc	14 01.50	0.0	BWA	89.89	177	eP	18 23.20	0.2	Z	30s		1.40um		5.5MszX
	1.0s	100.00nm			5.8mb	FORR	91.06	159	iPc	18 29.00	0.7	XAN	143.05	108	PKPd	24 54.30	-3.3X
CRZF	48.02	114	eP	14 10.00	6.1X		0.4s		69.00nm		6.4mb	WHN	143.11	117	ePKP	24 54.00	-3.7X
			ePP	16 05.00		IFR	91.17	19	iPc	18 32.00	3.4X	INK	145.62	321	ePKPd	25 00.10	-0.7
			eS	21 15.00		WARB	95.27	157	iPd	18 48.00	0.2		0.6s		68.00nm		
			LR	21 25.00			0.4s		4.00nm		5.2mb				pP	25 18.00	
CNCB	49.65	305	iPd	14 18.00	0.7	PPM	95.52	296	(P)	18 51.00	1.6	NJ2	146.55	121	PKPc	25 04.60	1.1
			S	21 18.00		RMQ	97.81	177	iPc	18 58.20	-1.1				pPKP	25 21.50	
EVA	49.89	78	iPd	14 17.00	-1.7			e		22 55.00		SSE	146.84	125	iPKPc	25 05.80	1.8
LPB	49.94	305	P	14 20.00	0.6	ASPA	99.12	163	iPc	19 04.50	-0.8	Z	20s		0.60um		5.4Msz
	1.2s	281.25nm			6.2mb		1.2s		48.40nm		5.9mb	N	18s		0.70um		
			S	21 24.00				iPP		23 02.20					pPKP	25 19.00	
			LR	28 48.00		WRA	102.84	163	Pdiff	19 20.00	-1.8				ePP	28 30.00	
SLR	50.06	77	iPc	14 19.00	-0.9		0.7s		10.50nm		5.7mb	TIY	147.69	107	ePKP	25 04.00	-1.3
ZOBO	50.19	306	iPd	14 21.80	0.3	WB5	102.91	163	ePdiff	19 21.00	-1.1	Z	24s		1.00um		5.5MszX
			S	21 24.00				e		23 31.30		BTO	148.43	101	PKP	25 06.00	-0.4
			LR	28 12.00		GBA	109.54	95	PKPd	23 53.90	-0.8	TOA	148.93	307	ePKPd	25 11.30	4.8X
ARE	51.59	302	iPd	14 32.00	0.2		0.8s		5.10nm			TIA	149.02	115	PKP	25 06.90	-0.4
BUL	54.74	73	iPc	14 51.70	-3.2X	ALO	112.51	299	ePKP	24 00.00	-0.1	HHC	149.45	102	ePKP	25 08.00	0.0
	0.9s	131.09nm			6.0mb	HYB	113.25	93	ePKP	24 01.00	-0.8	PMR	150.13	305	ePKP	25 12.90	4.7X
			iP	15 18.00	109kmX	IPM	114.51	121	ePKPc	24 04.60	0.2	FBA	150.32	312	ePKPd	25 13.00	4.6X
DRV	57.32	174	eP	15 12.40	-0.3	MAIO	117.64	66	ePKP	24 09.00	-0.8		1.2s		1760.61nm		
KRI	58.00	72	iPc	15 05.70	-12.5X	HFS	120.29	22	ePKP	24 12.90	-1.0	KDC	150.55	297	ePKP	25 14.30	5.4X
			iP	15 20.50	55kmX		0.4s		1.00nm			KAGJ	150.95	140	PKP	25 16.00	5.6X
NNA	58.04	299	iPd	15 17.20	-1.2	NB2	120.60	21	PKP	24 14.60	0.1	BJI	151.38	108	ePKP	25 10.00	-0.7
	1.4s	232.56nm			6.1mb		0.9s		5.80nm			Z	32s		0.53um		5.1MszX
LIC	64.71	25	Pd	16 03.14	0.0	PRI	120.69	290	ePKPc	24 16.60	1.0				ePKP	25 22.00	
	1.3s	145.00nm			5.9mb	FRI	120.83	291	ePKPc	24 15.60	-0.1				ePP	29 00.00	
Z	20s	1.02um			5.0Msz			ePKP		34 19.40		KUMJ	152.14	138	ePKP	25 18.30	6.2X
KIC	64.91	25	Pd	16 04.50	0.0	LLA	121.20	290	ePKPc	24 17.00	0.6	IMA	152.92	314	ePKPd	25 19.70	7.4X
	1.3s	142.50nm			5.9mb	PRS	121.21	290	ePKPc	24 17.10	0.7	SVW	153.04	303	ePKP	25 18.90	6.4X
TIC	65.11	25	Pd	16 05.76	0.0	SAO	121.58	290	e(PKP)	24 17.10	0.0	DL2	153.37	117	PKP	25 13.20	-0.4
	1.2s	143.50nm			5.9mb	CMB	121.97	292	ePKPc	24 18.40	0.5	TTA	153.56	306	ePKP	25 21.00	7.7X
LEGH	65.41	30	eP	16 08.00	0.3			ePKKP		34 15.50		SHNJ	153.66	137	ePKP	25 22.10	7.9X
TEGH	65.45	30	eP	16 14.50	6.6X	GCC	122.07	290	ePKP	24 18.60	0.6	BRW	153.82	325	ePKP	25 22.00	8.7X
SHGH	65.72	30	eP	16 10.00	0.3	MHC	122.11	290	ePKPc	24 19.20	0.9	SDN	153.85	288	ePKP	25 21.50	7.8X
KUK	65.88	30	eP	16 10.50	-0.2	PCC	122.62	290	ePKPc	24 19.20	0.2	MAT	158.29	148	(PKP)	25 19.00	-1.1
LKO	67.79	23	Pd	16 22.26	-0.6	BKS	122.82	290	ePKPc	24 21.60	2.2X	CN2	158.92	114	ePKP	25 20.00	-0.5
VC1	68.66	304	eP	16 29.00	0.1		1.0s		87.00nm			Z	22s		1.00um		5.6Msz
COTA	69.48	304	eP	16 25.50	-8.5X	BRK	122.83	290	ePKP	24 20.00	0.6				pPKP	25 31.00	
LWI	69.91	62	iPc	16 37.60	1.4	NUR	123.24	28	ePKP	24 19.00	-0.5	MDJ	161.59	119	PKPd	25 23.00	-0.3
MBO	70.66	11	iP	16 41.90	1.6			e		27 53.00			S.D. = 1.0		on 138 of 168 obs.		
BCAO	71.01	49	iPd	16 43.10	0.5	ORV	123.68	292	ePKPc	24 21.40	0.3						
	0.6s	74.00nm			5.8mb	LRM	123.80	303	ePKP	24 21.70	0.2						
			id	16 56.40	46kmX	BDT	124.30	112	ePKP	24 21.40	-1.5						
			id	17 18.20			0.7s		26.00nm								
BOG	71.38	310	eP	16 46.00	0.8	WDC	124.98	292	iPKPc	24 23.20	-0.4						
			eS	25 56.00				ePKKP		34 12.60							
CUM	72.87	322	eP	16 53.00	-0.6	DMN	124.98	92	PKPd	24 23.22	-1.1						
CEOS	73.06	318	iPd	16 54.50	-0.3		0.9s		58.00nm			PSI	7.52	115	iP	44 21.00	1.8
GUAC	73.73	319	eP	16 59.50	0.7	GKN	125.02	91	PKPd	24 22.98	-1.3	SNG	8.58	81	eP	44 58.00	24.8X
SDV	73.82	315	eP	17 01.50	2.2		0.9s		89.00nm			IPM	9.01	98	ePd	44 39.00	-0.8
LLAV	73.82	320	eP	16 59.00	-0.2	PKI	125.12	92	PKPd	24 23.48	-1.2				e	46 14.20	

CHG	14.50	27	eP	45	54.00	0.2
CHTO	14.50	27	eP	45	53.90	0.1
GBA	16.34	299	Pc	46	16.20	-1.3
	1.7s	21.50nm			4.0mb	
HYB	17.50	312	eP	46	24.00	-8.3X
			eS	49	29.00	
OIZ	21.69	51	eP	47	18.80	-0.3
N	12s	1.10um				
KMI	21.70	27	Pd	47	19.00	-0.3
	1.3s	30.00nm			4.6mb	
		pP	47	29.00	38km	
POO	21.78	307	eP	47	20.00	0.0
PKI	22.49	344	PKP	47	30.60	3.3X
DMN	22.61	344	PKP	47	32.80	4.4X
GUN	22.69	346	PKP	47	30.00	0.7
KKN	22.73	344	PKP	47	31.20	1.7
GKN	23.11	343	PKP	47	34.00	0.8
LSA	23.71	358	P	47	40.60	1.2
GYA	24.75	33	P	47	49.60	0.5
LZH	31.95	18	P	48	53.00	-1.1
	2.0s	25.00nm			4.8mb	
Z	20s	0.49um			4.2msz	
		pP	49	02.30	32km	
XAN	32.08	27	Pc	48	53.40	-1.8
QUE	33.83	319	eP	49	10.30	-0.3
TIY	36.71	27	eP	49	33.80	-1.1
WMO	37.99	355	eP	49	45.30	-0.2
BJI	40.33	29	eP	50	05.50	0.6
	1.0s	8.00nm			4.4mb	
CN2	47.80	33	eP	51	04.80	-0.3
WB5	48.84	123	eP	51	14.30	0.8
WRA	48.85	123	P	51	14.00	0.5
	0.9s	13.50nm			5.0mb	
MLR	69.18	317	eP	53	30.00	-4.5X
ZST	75.63	318	eP	54	22.20	9.8X
	S.D. = 1.0	on 23	of 29 obs.			

% NOV 07, 1990 20h 57m 41.11±0.53s						
46.597 N ± 9.2km 2.910 E ± 7.4km						
DEPTH = 10.0km (geophysicist)						
FRANCE (538)						
ML 3.0 (LDG).						
BGF	0.06	228	Pg	57	43.30	-0.1
AVF	0.36	57	Pg	57	48.90	0.4
			Sg	57	54.10	
MAF	0.44	212	Pg	57	48.60	-1.6
			Sg	57	53.00	
TCF	0.57	238	Pg	57	51.40	-1.4
			Sg	57	58.00	
SSF	0.62	41	Pg	57	53.70	0.1
			Sg	58	02.80	
SMF	0.64	85	Pg	57	52.90	-1.1
			Sg	58	01.00	
LBF	0.83	62	Pg	57	56.90	-0.3
			Sg	58	07.80	
			Sn	58	10.20	
LOR	0.93	44	Pg	57	59.30	0.3
			Sg	58	12.20	
			Sn	58	14.20	
LSF	1.02	251	Pg	57	59.90	-0.4
			Sg	58	12.80	
RJF	1.62	217	P	58	09.80	0.0
			Sn	58	26.80	
			Sg	58	39.20	
CAF	1.77	200	Pg	58	12.20	0.1
			Sg	58	34.60	
MFF	2.11	271	Pn	58	16.60	-0.3
			Pg	58	19.80	
			Sg	58	47.00	
LFF	2.25	223	Pg	58	20.90	2.0
			Sg	58	49.70	
LPO	2.26	213	Pg	58	21.20	2.1
			Sg	58	50.00	
LDF	2.86	315	Pg	58	35.80	8.2X
			Sn	59	01.50	
			Sg	59	11.00	
LPL	2.87	111	Pg	58	34.50	6.5X
LPG	2.89	111	Pg	58	34.80	6.5X
LPF	3.05	300	Pg	58	39.10	8.9X
			Sn	59	04.50	
			Sg	59	17.00	
	S.D. = 1.1	on 14	of 18 obs.			

% NOV 07, 1990 21h 32m 52.84±0.71s
40.536 N ± 6.7km 23.659 E ± 8.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)						
ML 2.2 (THE).						
OUR	0.32	129	ePd	32	59.84	0.4
SOH	0.37	321	iPc	33	00.61	0.2
THE	0.54	281	eP	33	03.96	0.3
SRS	0.58	355	ePc	33	04.34	-0.3
			eS	33	12.56	
PAIG	0.61	178	iPc	33	04.65	-0.4
			eS	33	14.16	
KNT	0.85	318	ePc	33	09.16	-0.1
			eS	33	21.28	
	S.D. = 0.4	on 6	of 6 obs.			

* NOV 08, 1990 00h 38m 42.75±1.59s						
10.912 S ± 8.6km 112.814 E ± 13.1km						
DEPTH = 63.5 ± 16.5 km						
4.8mb (8 obs.) 3.6msz (1 obs.)						
SOUTH OF JAVA (282)						
TRT	3.19	357	iPc	39	31.10	-0.5
			iS	40	06.80	
KUPT	10.64	87	eP	41	08.60	-6.3X
			eS	42	57.20	
NANU	11.87	168	iPc	41	21.00	-10.5X
	0.3s	21.00nm				
			eS	43	21.00	
MBL	12.22	147	eP	41	37.00	0.9
			iS	43	30.00	
MRWA	18.45	171	eP	42	51.00	-4.8X
			eS	46	00.00	
IPM	19.35	322	ePd	43	06.50	0.4
BAL	19.93	170	eP	43	13.00	0.9
			eS	46	36.00	
WARB	20.04	141	eP	43	11.00	-2.3
	0.3s	2.00nm			3.9mb	
			eS	46	38.00	
KLB	21.08	168	eP	43	24.00	0.0
			eS	47	03.00	
MUN	21.20	172	eP	43	26.00	0.9
			eS	47	03.00	
COOL	21.32	160	eP	43	28.00	1.6
			eS	47	05.00	
WB5	22.59	116	eP	43	38.90	-0.2
			eS	47	42.20	
ASPA	23.75	125	iPd	43	50.40	0.0
	0.8s	28.20nm			4.8mb	
Z	18s	0.20um			3.6msz	
			eS	48	05.10	
FORR	24.39	147	iPd	43	54.60	-1.8
	0.4s	11.00nm			4.7mb	
			eS	47	16.00	
OIS	27.47	114	eP	44	25.00	-0.1
CHG	32.55	335	eP	45	12.60	2.5X
CHTO	32.55	335	eP	45	11.30	1.2
	1.2s	4.51nm			4.2mb	
KMI	37.14	345	eP	45	55.00	5.5X
GBA	42.72	304	Pd	46	33.40	-2.1
	0.8s	15.40nm			4.8mb	
HYB	44.02	309	eP	46	46.00	-0.1
PKI	46.57	326	P	47	06.80	0.2
GUN	46.58	327	P	47	07.20	0.5
DMN	46.77	326	P	47	08.40	0.3
KKN	46.81	326	P	47	08.60	0.2
GKN	47.34	325	P	47	12.50	0.0
POO	48.31	307	iPd	47	19.50	-0.5
	0.9s	23.53nm			5.2mb	
BJI	50.79	3	eP	47	39.50	1.0
QUE	60.13	314	eP	48	46.00	-0.4
MAIO	68.71	316	eP	49	42.00	0.0
BUL	80.93	251	iPd	50	50.10	-2.3
	0.8s	11.19nm			4.8mb	
BCAO	95.02	274	iPc	52	02.40	2.0
	0.6s	6.00nm			5.2mb	
LKO	119.46	275	PKP	57	28.04	0.3
CNCB	152.45	178	ePKP	58	31.00	3.3X
			i	58	37.80	
SIV	152.59	193	PKP	58	36.00	8.8X
LPB	152.72	178	PKP	58	38.00	10.1X
ZOBO	152.98	178	ePKP	58	31.00	2.6X
	1.1s	8.70nm				
			i	58	38.00	
	S.D. = 1.2	on 27	of 36 obs.			

NOV 08, 1990 00h 46m 16.02±0.85s
44.481 N ± 9.7km 10.346 E ± 6.9km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)						
ML 3.3 (GEN).						
BDI	0.46	157	P	46	27.60	2.3
			eSg	46	34.00	
BOB	0.70	294	P	46	33.90	4.0X
			eSg	46	46.80	
PII	0.77	170	P	46	31.10	0.1
			eSg	46	41.30	
SFI	1.22	117	P	46	37.80	-0.9
			eSg	46	52.00	
PCP	1.29	273	P	46	40.77	0.8
			S	46	59.70	
MDI	1.37	341	P	46	42.30	1.2
			eSg	47	00.90	
CRE	1.44	126	P	46	40.80	-1.4
FIN	1.56	261	P	46	43.75	-0.1
			S	47	04.15	
ROB	1.78	265	P	46	46.92	-0.2
			S	47	09.71	
CTI	1.82	30	P	47	05.50	17.8X
			eSg	47	14.50	
IMI	1.86	253	P	46	46.47	-1.7
			S	47	10.78	
ENR	2.11	264	P	46	51.85	-0.1
			S	47	18.63	
STV	2.18	265	P	46	52.93	0.0
			S	47	19.40	
S.D. = 1.3 on 11 of 13 obs.						

& NOV 08, 1990 01h 41m 07.73s						
63.198 N 150.691 W						
DEPTH = 136.5km						
CENTRAL ALASKA (1)						
<AGS-P>.						
CUT	0.82	166	iP	41	29.54	-0.4
			eS	41	45.98	
RND	0.86	75	eP	41	29.78	-0.6
MCK	0.95	55	iP	41	30.80	-0.3
SKT	1.28	198	iP	41	33.71	-0.6
			eS	41	53.89	
NEA	1.56	27	eP	41	36.38	-0.9
PWA	1.60	166	eP	41	37.54	-0.2
GHO	1.65	149	iP	41	38.05	-0.4
			eS	42	01.43	
WRH	1.72	41	eP	41	38.39	-0.7
SUA	1.74	181	eP	41	40.10	0.6
PLRM	1.77	155	iP	41	39.14	-0.5
SML	1.77	141	iP	41	38.93	-0.9
			eS	42	03.66	
NCG	1.93	201	eP	41	41.18	-0.5
CCB	1.93	40	iP	41	40.92	-0.7
CGLM	1.99	199	iP	41	42.95	0.4
PMS	2.03	164	eP	41	42.30	-0.6
			eS	42	08.40	
MDM	2.07	30	iP	41	42.65	-0.7
KNK	2.07	149	eP	41	42.75	-0.7
BGL	2.10	203	eP	41	44.10	0.3
GLM	2.31	37	eP	41	45.77	-0.6
PAX	2.39	93	eP	41	47.24	-0.1
SDG	2.45	104	eP	41	48.09	-0.1
SLKM	2.71	175	iP	41	51.04	-0.4
KLU	2.81	125	eP	41	51.39	-1.3
23 obs. associated						

? NOV 08, 1990 03h 06m 18.10± 1.59s						
52.227 N ±30.2km 166.263 W ±20.5km						
DEPTH = 33.0km (normol)						
4.3mb (3 obs.)						
FOX ISLANDS, ALEUTIAN ISLANDS (9)						
ADK	6.44	271	eP	07	53.00	0.0
IMA	15.26	20	eP	10	01.50	8.9X
INK	22.44	32	eP	11	20.00	5.0X
NB2	67.07	1	P	17	09.80	0.1
	0.9s		2.30nm			4.3mb
HFS	67.99	0	eP	17	15.30	-0.1
	0.5s		2.30nm			4.5mb
WRA	88.44	234	P	19	08.00	0.0
	0.9s		1.00nm			4.1mb
S.D. = 0.2 on 4 of 6 obs.						

08d 03h

ML 2.8 (ATH).
 NEO 0.41 359 ePb 29 51.60 -0.3
 eSb 29 59.50
 ATH 1.00 158 ePb 30 02.60 0.1
 eSb 30 17.50
 EVR 1.11 271 ePb 30 04.00 -0.5
 PLG 1.48 6 ePb 30 10.00 -0.3
 KZN 1.80 322 ePn 30 16.00 1.0
 S.D. = 0.9 on 5 of 5 obs.

? NOV 08, 1990 03h 30m 45.26±3.34s
 31.140 S ±14.3km 68.142 W ±34.1km
 DEPTH = 33.0km (normol)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.34 236 iPc 30 52.60 -1.0
 CFA 0.47 190 eP 30 55.00 -0.5
 S 31 03.60
 RTCB 0.66 238 iPc 30 58.60 0.4
 eS 31 07.00
 RTCV 0.79 205 iPd 31 01.10 1.0
 RTRS 1.49 310 iPc 31 10.10 0.1
 eS 31 29.60
 S.D. = 1.1 on 5 of 5 obs.

% NOV 08, 1990 04h 11m 22.54±0.81s
 39.776 N ±8.5km 27.648 E ±8.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

EDC 0.59 16 ePg 11 34.00 -0.5
 eSg 11 43.50
 BNT 0.62 20 iPg 11 34.60 -0.4
 eSg 11 43.10
 KCT 0.72 49 iPg 11 36.70 0.0
 EZN 1.02 273 iPg 11 42.40 0.6
 iSg 11 55.90
 IZM 1.41 192 ePn 11 47.60 -0.7
 IZI 1.51 68 ePn 11 50.70 1.0
 HRT 1.87 55 iPn 11 57.70 2.9X
 S.D. = 0.9 on 6 of 7 obs.

% NOV 08, 1990 04h 18m 49.81±0.54s
 46.531 N ±7.6km 2.915 E ±6.0km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.0 (LDG).

BGF 0.05 300 Pg 18 52.00 0.0
 Sg 18 53.40
 MAF 0.39 218 Pg 18 57.60 -0.3
 Sg 19 02.90
 TCF 0.55 244 Pg 19 00.30 -0.5
 Sg 19 07.60
 SMF 0.65 79 Pg 19 01.90 -0.9
 SSF 0.67 37 Pg 19 03.40 0.3
 Sg 19 11.70
 LBF 0.86 58 Pg 19 06.00 -0.4
 Sg 19 16.60
 Sn 19 19.60
 LOR 0.98 41 Pg 19 09.20 0.7
 Sg 19 21.10
 Sn 19 23.30
 LSF 1.00 254 Pg 19 08.60 -0.2
 Sg 19 21.30
 CAF 1.71 201 Pg 19 21.10 1.2
 Sg 19 43.40
 S.D. = 0.8 on 9 of 9 obs.

NOV 08, 1990 04h 45m 23.40±0.77s
 44.558 N ±4.9km 6.825 E ±6.4km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.3 (GEN).

PZZ 0.20 105 P 45 28.71 0.8
 S 45 32.41
 RRL 0.36 355 P 45 30.56 -0.4
 S 45 36.71
 BHB 0.42 48 P 45 32.30 0.3
 S 45 38.15
 STV 0.48 131 P 45 33.12 0.0
 S 45 39.69
 ENR 0.54 128 P 45 33.23 -1.1
 S 45 40.71

RSP 0.67 27 P 45 36.71 -0.1
 S 45 46.97
 ROB 0.79 109 P 45 39.07 0.2
 S 45 50.66
 CDR 1.17 221 eP 45 45.50 0.3
 e 46 00.10
 S.D. = 0.7 on 8 of 8 obs.

? NOV 08, 1990 05h 05m 52.61±7.49s
 11.782 S ±62.7km 117.916 E ±42.0km
 DEPTH = 33.0km (normol)
 4.2mb (2 obs.)

SOUTH OF SUMBAWA ISLAND (291)

MBL 9.50 169 iPd 08 09.80 -0.5
 iS 09 48.00
 NANU 10.96 192 eP 08 30.20 0.0
 0.2s 3.00nm 5.1mb X
 eS 10 22.00
 WARB 16.52 151 eP 09 44.00 0.5
 0.4s 8.00nm 4.2mb
 eS 12 37.00
 MRWA 17.44 186 eP 09 58.00 2.9X
 iS 12 55.00
 WB5 17.75 119 eP 09 58.00 -1.0
 eS 13 03.00
 ASPA 19.25 130 eP 10 18.50 1.2
 0.5s 6.70nm 4.2mb
 S.D. = 1.2 on 5 of 6 obs.

? NOV 08, 1990 05h 10m 11.31±2.79s
 27.857 N ±31.0km 55.327 E ±10.3km
 DEPTH = 67.9 ±19.2 km
 4.1mb (1 obs.)

SOUTHERN IRAN (353)

SHI 3.04 307 eP 10 58.00 -0.2
 MAIO 9.13 22 eP 12 23.00 0.2
 QUE 10.44 74 eP 12 40.70 0.0
 BBTK 22.16 308 eP 15 03.00 0.1
 KHC 38.34 315 P 17 28.00 0.9
 NB2 44.32 331 P 18 15.00 -1.0
 0.7s 2.30nm 4.1mb
 S.D. = 1.0 on 6 of 6 obs.

NOV 08, 1990 07h 06m 16.84±1.64s
 9.919 S ±8.0km 116.511 E ±9.5km
 DEPTH = 71.7 ±15.9 km
 5.1mb (14 obs.)

SUMBAWA ISLAND REGION (285)

TRT 4.42 300 iPd 07 23.70 0.8
 iS 08 09.70
 KUPT 6.99 93 eP 07 48.50 -10.3X
 eS 09 03.30
 MBL 11.62 164 eP 08 54.40 -7.6X
 eS 10 48.00
 NANU 12.61 184 eP 09 39.10 24.1X
 KNA 13.28 117 eP 09 20.70 -3.1X
 eS 11 38.00
 KKM 15.86 359 eP 10 01.00 3.7X
 MEKA 16.72 174 eP 10 05.00 -2.9X
 WARB 18.81 151 iPd 10 32.80 -0.8
 0.4s 30.00nm 4.9mb
 eS 13 47.00
 MRWA 19.21 181 eP 10 34.00 -4.0X
 eS 13 49.00
 WB5 19.88 122 eP 10 44.00 -1.1
 eS 14 13.00
 BAL 20.58 180 eP 10 51.00 -1.3
 eS 14 24.00
 IPM 21.11 312 ePd 10 59.90 2.2
 0.6s 57.40nm 5.1mb
 COOL 21.30 169 eP 11 02.00 2.5X
 eS 14 36.00
 ASPA 21.51 132 iPd 11 01.40 -0.3
 0.5s 75.80nm 5.3mb
 Z 23s 0.40um 3.8mszX
 iS 14 52.40
 KLB 21.60 177 eP 11 07.00 4.5X
 eS 14 47.00
 MUN 21.95 181 eP 11 06.00 0.0
 eS 14 56.00
 NWA0 22 91 178 eP 11 15.00 -0.3
 eS 15 17.00
 SNG 23.22 316 eP 11 20.10 1.7
 1.3s 196.15nm 5.4mb

FORR 23.45 154 eP 11 20.00 -0.6
 0.4s 32.00nm 5.1mb
 eS 15 31.00

RKG 24.04 179 eP 11 48.20 21.9
 0.4s 20.00nm
 eS 15 56.00

QIS 24.63 118 iPd 11 32.60 0.4
 0.2s 16.00nm 5.1mb
 e 11 53.00
 i 16 12.00

QIZ 29.51 347 eP 12 18.30 1.6
 CTA 30.41 113 iPd 12 25.20 0.5
 0.9s 17.65nm 4.8mb

BDT 32.06 327 eP 12 39.00 -0.1
 CHG 33.40 329 eP 12 51.00 0.2
 CHTO 33.40 329 eP 12 51.00 0.2
 1.3s 15.52nm 4.7mb

BWA 38.03 135 eP 13 31.00 1.0
 BRS 38.31 122 iP 13 33.60 1.2
 i 13 53.00

CAN 38.91 136 eP 13 38.20 0.8
 CD2 42.40 344 P 14 06.00 0.0
 SVO 42.69 93 P 14 15.00 6.4

KOD 43.70 296 eP 14 17.00 -0.1
 GBA 45.28 300 P 14 28.60 -0.8
 0.8s 17.00nm 5.0mb

HYB 46.31 306 ePc 14 37.00 -0.6
 LZH 47.29 346 eP 14 45.00 -0.2
 2.0s 61.00nm 5.2mb

GUN 47.89 323 P 14 49.80 -0.4
 PKI 47.92 322 P 14 49.70 -0.8
 DMN 48.14 322 P 14 51.40 -0.7

KKN 48.16 322 P 14 51.40 -0.8
 0.6s 27.00nm 5.4mb
 GKN 48.71 322 P 14 55.60 -0.7

MAT 50.52 23 iPc 15 08.10 -1.8
 0.7s 6.85nm 4.8mb
 POO 50.70 304 iPc 15 10.30 -1.3

GTA 51.47 343 eP 15 17.00 -0.2
 0.6s 10.00nm 5.0mb
 NDI 53.97 317 iPc 15 33.00 -2.7

0.6s 100.00nm 6.0mb
 WMO 59.55 336 iPc 16 14.50 -0.8
 KSH 61.87 325 eP 16 31.50 0.3

QUE 62.11 312 eP 16 31.40 -1.6
 MAIO 70.58 314 iPc 17 26.40 -0.2
 DSI 87.68 302 eP 19 01.00 1.9

MML 87.85 303 eP 19 02.00 2.1
 ADI 88.15 304 eP 19 04.00 2.7
 KIC 121.79 271 PKP 25 06.00 0.8

TIC 122.11 272 PKP 25 06.70 0.9
 PPD 146.08 201 ePKP 25 51.40 1.3
 CNCB 153.07 170 PKP 26 12.00 10.4

LPB 153.33 170 (PKP) 26 12.00 10.2
 SIV 154.15 185 ePKP 26 06.00 3.6
 S.D. = 1.1 on 42 of 57 obs.

* NOV 08, 1990 07h 27m 03.65±1.02s
 37.666 N ±11.0km 26.781 E ±9.1km
 DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

MD 3.5 (ATH).

SMG 0.06 46 iPg 27 05.30 -0.6
 IZM 0.82 27 iPg 27 18.70 -0.9
 iSg 27 31.70

CIN 1.04 93 ePg 27 24.00 0.8
 iSg 27 32.00
 APE 1.16 240 ePg 27 25.00 -0.4
 eSb 27 39.50

PRK 1.63 346 ePb 27 33.50 1.1
 S.D. = 1.2 on 5 of 5 obs.

& NOV 08, 1990 07h 54m 05.68s
 60.820 N 151.158 W
 DEPTH = 52.3km

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

NKA 0.09 207 iP 54 15.58 3.4
 SLKM 0.56 124 iP 54 17.55 -0.3
 eS 54 27.64

SPU 0.57 310 iP 54 17.53 -0.5
 iS 54 27.79
 CGLM 0.64 320 iP 54 18.36 -0.6
 eS 54 28.90

CRP 0.66 313 iP 54 18.89 -0.4

RDT	0.66	249	eS	54	29.65	
			eP	54	18.46	-0.8
			eS	54	29.07	
SUA	0.68	17	iP	54	18.94	-0.5
CKL	0.69	304	eP	54	18.98	-0.6
BGL	0.75	307	eP	54	19.71	-0.6
			eS	54	31.05	
NCG	0.76	321	iP	54	19.84	-0.7
			eS	54	31.29	
NNL	0.78	185	iP	54	21.09	0.4
REF	0.83	247	eP	54	20.93	-0.6
			eS	54	33.25	
RDN	0.85	249	eP	54	21.23	-0.5
			eS	54	33.71	
RSO	0.86	246	eP	54	21.43	-0.6
			eS	54	34.07	
RS2	0.87	246	eP	54	21.23	-0.8
			eS	54	33.80	
PMS	0.89	61	eP	54	21.58	-0.6
			eS	54	33.83	
NCT	0.91	254	eP	54	21.85	-0.7
PWA	1.04	36	eP	54	23.55	-0.6
SKT	1.18	351	iP	54	25.23	-0.9
			eS	54	40.90	
HOM	1.19	192	eP	54	25.90	-0.4
INE	1.21	232	eP	54	25.51	-1.2
			eS	54	41.72	
INW	1.24	233	eP	54	25.84	-1.2
			eS	54	42.58	
PLRM	1.25	51	eP	54	25.96	-1.1
CNPM	1.30	182	eP	54	26.78	-1.0
			eS	54	43.77	
KNK	1.44	64	eP	54	28.22	-1.6
GHO	1.44	47	eP	54	28.73	-1.1
			eS	54	46.75	
OPT	1.56	222	eP	54	30.53	-1.0
CUT	1.65	15	eP	54	31.78	-0.8
SML	1.69	53	eP	54	31.84	-1.4
KNIM	1.75	104	eP	54	31.26	-2.9
CDD	2.27	215	eP	54	40.58	-0.9
VLZ	2.37	80	eP	54	40.18	-2.7
KLU	2.63	73	eP	54	43.88	-2.7

33 obs. associated

? NOV 08, 1990 08h 13m 47.34±0.90s
6.608 S ±10.7km 129.952 E ±18.4km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)

BANDA SEA (280)

MTN	6.31	169	eP	15	24.00	3.5X
KUPT	7.20	240	ePd	15	28.60	-4.4X
			eS	16	42.30	
KNA	9.16	187	eP	16	00.50	0.2
			eS	17	30.00	
WB5	13.87	162	eP	17	01.90	-2.1
			eS	19	25.00	
QIS	16.73	147	eP	17	42.00	1.1
			eS	20	36.00	
ASPA	17.38	168	iPc	17	49.80	0.7
	0.4s	10.60nm				4.3mb
			iS	20	48.00	
MBL	17.47	213	eP	17	50.40	0.2
			eS	20	48.00	
WARB	19.72	189	eP	18	20.00	2.7X
	0.4s	2.00nm				3.8mb
			eS	21	40.00	
GUN	54.66	311	P	23	16.00	-0.1
PKI	54.84	310	P	23	17.40	0.0
KNK	55.05	311	P	23	19.00	0.2
GKN	55.64	310	P	23	22.60	-0.4

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

* NOV 08, 1990 08h 46m 38.78±0.93s
4.989 S ±17.3km 101.768 E ±23.0km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)

SOUTHERN SUMATERA (274)

IPM	9.53	356	eP	48	57.10	0.2
CHTO	23.82	353	eP	51	49.30	-0.5
	0.9s	3.62nm				3.9mb
WB5	35.00	118	eP	53	31.00	0.5
PKI	36.02	335	P	53	39.30	-0.1
ASPA	36.10	124	eP	53	39.40	-0.4
	0.5s	5.30nm				4.7mb
GUN	36.12	336	P	53	40.50	0.2

DMN	0.4s	32.00nm			5.6mb X
	36.18	334	P	53	40.60 -0.1
KKN	36.27	335	P	53	41.30 0.0
	0.4s	14.00nm			5.2mb X
GKN	36.73	334	P	53	45.40 0.3
	0.4s	10.00nm			5.0mb

S.D. = 0.4 on 9 of 9 obs.

NOV 08, 1990 09h 23m 19.01±0.65s
44.299 N ±6.3km 7.480 E ±4.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG), 2.1 (GEN).

ENR	0.08	211	P	23	20.44 -1.2
			S	23	21.47
STV	0.12	244	P	23	21.36 -0.8
			S	23	23.34
ROB	0.28	91	P	23	25.87 0.9
			S	23	31.02
PZZ	0.34	307	P	23	25.77 -0.3
			S	23	31.07
SBF	0.44	184	Pg	23	28.00 0.1
			Sg	23	34.10
IMI	0.49	143	P	23	27.72 -1.2
			S	23	35.31
FIN	0.53	99	P	23	29.77 0.0
			S	23	37.56
PCP	0.80	72	P	23	34.59 0.0
			S	23	47.00
FRF	0.95	219	Pg	23	38.30 1.2
LRG	1.17	224	Pg	23	41.80 1.0
			Sg	23	58.00
LMR	1.19	216	Pg	23	41.70 0.5
			Sg	23	57.70

S.D. = 0.9 on 11 of 11 obs.

& NOV 08, 1990 09h 30m 59.00s
36.818 N 121.455 W
DEPTH = 2.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).

SAO	0.05	171	iPd	31	00.30 0.1
LLA	0.46	116	ePc	31	07.80 -0.3
GCC	0.48	296	ePc	31	08.00 -0.6
ARN	0.53	353	eP	31	09.20 -0.5
MHC	0.54	344	iPc	31	10.00 0.1
			eS	31	18.60
PRI	0.93	136	ePc	31	18.10 0.5
PCC	1.01	313	ePc	31	17.50 -1.3
BKS	1.23	330	eP	31	24.50 2.0
			eS	31	40.40
BRK	1.23	329	eP	31	21.40 -1.2
			eS	31	40.40
PHAM	1.30	139	eP	31	24.00 0.2
FRI	1.41	82	eP	31	23.90 -1.8
			eS	31	43.20
CMB	1.48	35	eP	31	25.40 -1.4

12 obs. associated

* NOV 08, 1990 09h 53m 55.89±1.31s
14.026 N ±11.3km 92.514 W ±11.5km
DEPTH = 43.6 ±11.8 km
4.8mb (7 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)
Felt in the Puerto Madero area.

TPX	0.91	16	iP	54	13.50 1.1
			iS	54	26.00
SCX	2.70	358	iP	54	41.50 3.7X
			(S)	55	16.00
OXX	5.07	307	iP	55	11.00 -0.6
			iS	56	10.00
EVV	5.18	329	(P)	55	11.50 -1.4
IISM	6.79	317	(P)	55	40.00 4.5X
			iS	56	55.00
LVVM	6.81	327	eP	55	34.00 -1.9
IIT	7.45	313	(P)	55	57.00 11.9X
ACX	7.62	293	(P)	56	33.00 45.7X
PPM	7.71	311	eP	55	50.00 1.0
			(S)	57	19.00
CRX	8.70	309	(P)	56	21.00 18.5X
MRX	10.04	305	(P)	56	21.00 0.4
MEO	21.38	346	iPc	58	41.80 -0.1
ALO	24.33	331	ePc	59	12.20 1.2
	0.7s	6.85nm			4.3mb

ANMO	24.34	331	eP	59	12.70 1.6
	0.9s	4.20nm			4.0mb
PV09	28.47	332	eP	59	50.20 0.8
ZOBO	38.56	140	eP	01	17.00 -0.1
	24s	0.09um			3.5mszX
			eLR	13	16.00
LPB	38.78	141	eP	01	21.00 2.3
CNCB	39.06	141	P	01	22.00 0.7
PNT	41.63	333	eP	01	42.00 0.6
	0.7s	13.00nm			4.8mb
SIV	43.07	133	P	01	52.20 -1.4
YKA	50.89	347	eP	02	53.60 -0.8
	0.7s	21.90nm			5.3mb
PDCR	59.12	114	eP	03	52.60 -2.2
			e	03	55.40
INK	60.27	344	eP	04	02.00 0.0
MBC	63.83	353	eP	04	25.00 -0.6
	0.9s	10.00nm			4.9mb
EKA	78.24	36	P	05	52.00 -0.5
	0.6s	8.40nm			4.9mb
LKO	84.78	82	P	06	26.66 -0.9
	0.8s	14.00nm			5.2mb
TIC	86.00	84	P	06	34.30 0.6
LIC	86.09	85	P	06	34.70 0.6
KIC	86.33	84	P	06	36.00 0.7
WRA	134.92	256	PKP	13	23.00 10.2X
	0.7s	1.00nm			
CHTO	145.47	341	ePKP	13	31.00 -0.7
	1.0s	6.00nm			
BDT	146.91	340	ePKP	13	33.50 -0.6
GBA	150.80	20	PKPc	13	45.90 5.7X
	0.8s	9.10nm			

S.D. = 1.2 on 26 of 33 obs.

* NOV 08, 1990 10h 01m 43.60±0.71s
36.540 N ±12.7km 71.594 E ±7.0km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.43	213	eP	03	32.40 -0.2
			eS	04	50.50
MAIO	9.76	272	ePn	04	05.00 0.2
			eSn	04	41.00
GKN	13.92	124	P	05	01.20 0.3
KKN	14.49	123	P	05	08.40 -0.1
DMN	14.50	124	P	05	08.90 0.4
PKI	14.72	123	P	05	11.10 -0.5
GUN	14.83	121	P	05	12.20 -0.7
NB2	44.64	323	P	09	53.90 -0.6
	0.7s	1.70nm			4.0mb
WRA	81.61	122	P	14	01.00 1.2
	2.1s	1.20nm			3.5mb

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

NOV 08, 1990 10h 02m 12.13±0.61s
36.858 N ±5.6km 83.005 W ±3.3km
DEPTH = 1.0km (geophysicist)
TENNESSEE (506)
MD 2.7 (TEIC). Probable mine collapse.

SMTN	0.50	197	eP	02	22.24 0.2
CCVA	0.59	245	eP	02	23.16 -0.7
RICH	0.95	171	eP	02	30.64 -0.4
GFM	1.22	127	eP	02	35.44 -0.4
BRBC	1.26	152	eP	02	36.36 -0.1
TKL	1.35	208	eP	02	36.86 -1.0
			eS	03	00.68
PLVA	1.49	97	eP	02	39.00 -1.3
RBNC	1.50	179	eP	02	40.26 -0.1
GBTN	1.54	220	iPc	02	40.00 -0.8
WSSR	1.64	197	eP	02	42.34 -0.1
BENN	1.69	139	eP	02	43.88 0.9
PKNC	1.70	118	eP	02	43.42 0.3
TRYN	1.72	159	eP	02	44.06 0.7
NAV	1.83	75	eP	02	44.90 -0.1
BHT	1.86	238	eP	02	45.68 0.2
ETT	1.93	218	eP	02	46.48 0.0
BBG	2.09	199	eP	02	49.68 0.9
			eS	03	18.32
BLA	2.10	80	eP	02	49.40 0.5
GMC	2.41	215	eP	02	53.60 0.2
RSCP	2.42	240	eP	02	54.20 0.6
PRM	2.82	169	eP	02	59.90 0.7
JSC	2.94	151	e(P)	03	01.00 0.1
LHS	2.97	142	eP	03	00.50 -0.8

08d 10h

S.D. = 0.6 on 23 of 23 obs.

NOV 08, 1990 10h 08m 28.25±0.63s
 36.877 N ± 6.1km 83.011 W ± 3.3km
 DEPTH = 1.0km (geophysicist)

TENNESSEE (506)
 MD 3.2 (TEIC). Probable mine
 collapse.

SMTN	0.51	196	iP	08	38.62	0.1
CCVA	0.59	243	eP	08	39.24	-0.9
			eS	08	51.08	
RICH	0.97	171	eP	08	47.10	-0.4
			eS	09	03.32	
GFM	1.23	128	iPd	08	51.58	-0.6
			eS	09	12.82	
BRBC	1.28	153	iP	08	52.62	-0.3
			eS	09	14.26	
TKL	1.36	207	eP	08	53.30	-1.0
PLVA	1.50	97	eP	08	55.66	-0.8
			eS	09	19.60	
RBNC	1.52	179	iPc	08	56.70	-0.1
			eS	09	21.12	
GBTN	1.55	219	eP	08	56.16	-0.9
			eS	09	20.50	
WSSR	1.66	196	eP	08	58.60	-0.2
			eS	09	25.14	
BENN	1.70	140	eP	09	00.14	0.8
			eS	09	23.00	
PKNC	1.71	118	iPd	08	59.72	0.3
			eS	09	25.66	
TRYN	1.74	159	iP	09	00.38	0.6
NAV	1.83	75	eP	09	01.00	-0.1
BHT	1.87	237	iPd	09	01.80	0.1
			eS	09	29.06	
ETT	1.94	218	eP	09	02.92	0.2
BLA	2.10	80	eP	09	05.60	0.6
BBG	2.10	198	ePd	09	06.10	0.9
			eS	09	34.40	
GMG	2.42	214	iPd	09	09.92	0.2
			eS	09	41.82	
RSCP	2.43	239	eP	09	10.40	0.6
RCG	2.68	226	iP	09	15.38	2.0
			eS	09	52.44	
PRM	2.84	169	eP	09	16.20	0.6
JSC	2.96	151	eP	09	17.30	0.0
LHS	2.99	143	eP	09	16.90	-0.8
PWLA	4.52	247	eP	09	38.50	-0.9

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

NOV 08, 1990 10h 15m 46.15±0.21s
 28.881 S ± 5.7km 176.187 W ± 5.1km
 DEPTH = 50.6km (11 depth phases)
 5.5mb (23 obs.)

KERMADEC ISLANDS REGION (177)

Felt on Rooul Island.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 28C

Centroid Location:

Origin Time 10:15:49.9 0.6

Lat 28.20S 0.06 Lon 176.12W 0.06

Dep 15.0 BDY Half-duration 1.6

Moment Tensor: Scale 10¹⁶ Nm

Mrr=-5.30 0.31 Mtt=-2.59 0.41

Mff=7.88 0.38 Mrt=-3.85 0.90

Mrf=-3.62 1.29 Mtf=3.07 0.36

Principal Axes:

T Val=10.09 Plg=17 Azm=109

N -1.96 27 208

P -8.13 57 351

Best Double Couple: Mo=9.1*10¹⁶

NP1: Strike=165 Dip=37 Slip=-140

NP2: 40 67 -60

RAO	1.56	256	P	16	17.00	5.1X
			S	16	37.50	
HBZ	9.84	207	eP	18	03.90	-3.9X
PUZ	10.27	205	eP	18	11.40	-2.3
			eS	20	08.60	
NOZ	10.83	205	eP	18	19.60	-1.7
WLZ	11.27	215	eP	18	27.30	0.1
SVA	11.78	334	eP	18	26.00	-8.2X
PGZ	13.24	206	eP	18	50.00	-3.4X
MNG	13.56	208	eP	18	52.40	-5.2X
KIW	14.00	209	eP	18	58.30	-5.1X
MTW	14.01	207	eP	18	58.30	-5.2X

WEL	14.41	208	P	19	10.00	1.3
			S	21	45.00	
TCW	14.56	210	eP	19	04.00	-6.7X
THZ	15.62	212	eP	19	22.70	-1.7
KHZ	15.86	209	eP	19	22.10	-5.3X
LTZ	16.71	211	eP	19	36.40	-1.8
DZM	17.08	289	iPc	19	46.40	3.4X
MOZ	17.29	208	eP	19	46.40	1.0
PVC	18.02	305	iPc	19	54.00	-0.6
PAE	26.81	71	eP	21	25.00	1.5
			1.5s	185.00nm	5.5mb	
BRS	27.37	266	iP	21	30.10	1.4
			i	21	44.50	59km
HNR	29.60	306	eP	21	44.00	-4.7X
			0.7s	136.99nm	5.8mb	
SVO	29.88	306	eP	21	50.00	-1.3
CAN	30.08	249	eP	21	55.20	2.2
BWA	30.53	250	eP	21	56.50	-0.5
RMO	31.07	266	eP	22	02.00	0.3
CMS	32.83	256	eP	22	19.00	1.9
CTA	35.16	276	iPd	22	36.90	-0.4
			1.0s	45.00nm	5.4mb	
			iS	28	39.00	
PMG	39.45	292	eP	23	11.00	-2.3
OIS	40.81	271	eP	23	24.00	-0.5
ASPA	44.80	265	iPd	23	56.50	-0.5
			1.1s	25.70nm	4.9mb	
Z	19s				1.60um	5.0msz
WB5	45.65	270	eP	24	02.80	-0.9
			e	30	43.50	
WRA	45.65	270	P	24	02.00	-1.7
			0.6s	42.70nm	5.5mb	
FORR	47.93	253	eP	24	22.00	0.5
			0.4s	41.00nm	5.8mb	
SBA	49.67	185	iPd	24	43.10	8.8X
			e(S)	32	02.80	
NANU	61.10	259	iPc	25	57.10	-0.5
			0.4s	7.00nm	5.1mb	
SPA	61.28	180	iPd	26	04.50	6.0X
			1.0s	25.00nm	5.3mb	
			i	26	18.20	49km
KKM	73.61	287	ePd	27	15.50	-1.0
MAW	74.28	200	iP	27	25.00	5.7X
BAG	75.87	298	eP	27	27.20	-2.3
KAKJ	76.66	325	P	27	32.00	-1.3
CHJJ	77.14	324	P	27	34.80	-1.2
IIDJ	77.26	323	P	27	35.40	-1.3
MAT	77.92	324	iPd	27	38.60	-1.7
			1.0s	64.00nm	5.6mb	
			eS	37	42.00	
MTMJ	78.16	324	P	27	40.70	-1.0
OFUJ	78.20	328	P	27	41.10	-0.6
YAMJ	78.27	326	P	27	41.40	-0.7
ADK	80.41	360	eP	27	51.60	-1.7
			0.9s	83.80nm	5.7mb	
SYP	82.44	44	eP	28	05.00	0.4
BCH	82.82	43	P	28	06.80	0.3
GCC	82.96	41	ePd	28	06.70	-0.3
PCC	83.07	40	eP	28	07.20	-0.4
SAO	83.10	41	ePd	28	07.40	-0.3
ABL	83.12	44	P	28	07.80	-0.4
			pP	28	21.40	46km
PRI	83.12	42	eP	28	08.30	0.3
PAS	83.29	45	eP	28	08.00	-0.8
BRK	83.40	40	eP	28	09.10	-0.1
BKS	83.42	40	iPc	28	09.90	0.6
			1.0s	87.00nm	5.7mb	
ARN	83.45	41	P	28	09.80	0.2
NWRM	83.46	39	P	28	09.40	-0.1
			pP	28	24.20	51km
PLM	83.60	46	iPd	28	11.00	0.4
RVR	83.69	46	eP	28	11.00	0.2
PEC	83.76	46	P	28	10.80	-0.4
SBH	83.86	45	iPd	28	11.50	-0.3
ISA	84.11	44	iPd	28	13.50	0.5
FRI	84.27	42	ePd	28	13.50	-0.1
SSE	84.32	310	Pd	28	07.50	-6.5X
FHC	84.53	37	ePd	28	15.30	0.4
CMB	84.58	41	ePd	28	15.00	-0.3
TPC	84.60	46	iPd	28	16.00	0.6
			e	28	30.00	48km
CLC	84.75	44	iPd	28	16.50	0.3
			e	28	31.00	50km
GSC	84.90	45	iPd	28	17.00	0.0
			e	28	32.00	52km
ORV	85.00	39	ePd	28	17.00	-0.3

WDC	85.15	38	ePd	28	18.70	0.7
GZH	85.26	299	Pc	28	20.40	1.5
QIZ	85.79	294	eP	28	23.00	1.4
IPM	85.89	277	ePd	28	24.60	2.3
			1.0s	27.70nm	5.4mb	
LBFM	86.04	38	P	28	22.40	-0.3
TNP	86.47	43	P	28	24.50	-0.4
			0.8s	24.51nm	5.5mb	
			pP	28	39.50	52km
NJ2	86.48	310	Pd	28	25.40	0.7
MDJ	88.29	325	Pd	28	33.30	0.1
BMW	88.98	33	P	28	36.30	-0.2
SNY	89.65	320	Pc	28	40.00	0.3
Z	23s				0.30um	4.7msz
			sP	29	00.00	
			eS	39	24.00	
MSU	89.80	45	P	28	41.60	0.8
LOX	89.86	34	P	28	39.80	-0.9
CN2	89.90	322	Pd	28	40.00	-0.8
			4.0s	300.00nm	6.0mb	
Z	20s				0.30um	4.7msz
			pP	28	54.00	47km
GMW	89.95	33	P	28	41.10	0.1
TIA	90.11	312	Pd	28	43.00	1.0
			1.2s	100.00nm	6.0mb	
RMW	90.36	33	P	28	42.60	-0.4
DUG	90.45	43	P	28	43.50	-0.1
			pP	28	57.60	48km
SVW	91.22	10	eP	28	45.90	-0.7
BSI	91.33	275	ePd	28	27.80	-20.3X
			0.8s	18.10nm		
ALO	91.39	50	eP	28	47.00	-1.2
			1.2s	23.44nm	5.5mb	
			e	29	03.00	55km
DAU	91.52	44	P	28	49.00	0.2
LOE	91.58	289	eP	28	51.00	1.9
GYA	92.18	299	P	28	53.40	1.5
PTI	92.36	41	P	28	52.70	0.3
DPW	92.42	35	P	28	51.80	-0.6
PNT	92.70	33	eP	28	52.00	-1.6
			0.9s	14.00nm	5.4mb	
PMR	92.78	13	eP	28	53.00	-0.6
			1.1s	34.38nm	5.7mb	
TTA	92.90	9	eP	28	53.70	-0.6
BJI	92.97	315	eP	28	55.50	0.5
			1.5s	78.00nm	5.9mb	
NEW	93.22	35	P	28	55.10	-1.0
			1.2s	11.36nm	5.2mb	
BW06	93.96	43	P	28	58.70	-1.1
TIY	94.05	311	iPc	29	01.40	1.2
LRM	94.13	39	eP	28	59.90	-0.7
XAN	94.47	306	P	29	03.60	1.5
CHG	94.57	289	eP	29	05.70	2.8
CHTO	94.57	289	eP	29	05.20	2.3
			1.0s	8.00nm	5.1mb	
GOL	94.78	47	P	29	03.60	-0.1
GLD	94.91	47	P	29	05.60	

BER 148.48 359 ePKP 35 28.10 3.8X
 KVT 151.09 303 iPKP 35 35.10 6.1X
 BCAO 151.96 213 iPKPc 35 35.00 3.9X
 0.9s 63.00nm
 id 35 41.90
 ic 35 56.00
 id 36 09.00
 id 37 06.60
 id 40 16.50
 BHL 152.43 289 PKP 35 40.00 8.7X
 DSI 152.64 284 iPKPd 35 40.50 9.0X
 KAS 152.66 305 ePKP 35 41.00 9.7X
 MKT 152.80 282 ePKP 35 41.00 9.2X
 MBH 152.94 280 ePKP 35 41.50 9.4X
 EKA 153.09 9 PKPc 35 40.20 8.8X
 1.8s 60.40nm
 BBTk 153.83 302 ePKP 35 42.00 8.9X
 KRA 155.56 334 ePKP 35 35.80 0.9
 e 35 45.10
 LIC 155.96 158 PKP 35 39.60 3.1X
 KSP 156.13 340 ePKP 35 36.00 0.3
 i 35 46.80
 i 36 03.50
 SPC 156.14 333 ePKP 35 37.10 1.1
 KIC 156.18 159 PKP 35 39.50 2.6X
 TIC 156.36 158 PKP 35 40.00 2.9X
 CLL 156.56 345 ePKP 35 37.00 0.8
 1.1s 50.00nm
 i 35 47.20
 i 36 04.40
 BRG 156.74 344 ePKP 35 37.50 1.0
 i 35 47.90
 i 36 05.60
 ZST 158.15 336 ePKP 35 39.80 1.6
 e 35 53.70
 e 36 12.70
 KHC 158.44 342 PKPc 35 40.20 1.6
 i 36 14.00
 IFR 171.06 57 iPKPd 35 52.50 2.6X
 S.D. = 1.1 on 110 of 148 obs.
 & NOV 08, 1990 10h 46m 53.77s
 34.449 N 106.856 W
 DEPTH = 6.1km
 4.4mb (2 obs.)
 NEW MEXICO (496)
 <SNM>. MD 4.3 (SNM). Felt (IV)
 at Bosque, Joroles and La Joya;
 (III) at Edgewood, Lemitar,
 Mountoinir, Peralto, Polvadero,
 Socorro and Tome. Also felt at
 Belen, Bernardo and Los Lunos.

BDNM 0.07 309 P 46 56.10 0.5
 LPM 0.23 126 P 46 58.35 -0.2
 LAZ 0.24 259 P 46 58.30 -0.4
 BNM 0.36 148 P 47 00.75 -0.3
 BNM 0.38 243 P 47 01.15 -0.3
 WTX 0.38 191 P 47 00.95 -0.6
 CRNM 0.51 168 P 47 03.45 -0.5
 SBM 0.54 210 P 47 04.10 -0.6
 ALO 0.59 34 iPc 47 05.00 -0.7
 ANMO 0.60 33 iPc 47 05.30 -0.4
 SMNM 0.68 192 P 47 06.70 -0.8
 PV09 4.44 336 eP 48 03.50 0.1
 GOL 5.37 12 ePn 48 18.00 1.3
 1.0s 142.50nm 5.6mb X
 iPg 48 34.50
 i 49 44.00
 GLD 5.45 13 ePn 48 18.00 0.3
 1.0s 100.00nm 5.4mb X
 ePg 48 35.40
 MSU 5.90 315 eP 48 26.00 2.0
 GLA 6.78 260 e(P) 48 42.00 5.7
 MEO 6.83 85 eP 48 35.20 -1.7
 DAU 6.90 331 ePn 48 38.50 0.2
 i 48 56.50
 i 49 10.00
 DUG 7.44 322 ePn 48 46.40 0.7
 ePg 49 11.80
 TPC 7.62 270 eP 48 49.00 1.0
 GSC 8.22 279 eP 48 58.00 1.5
 PLM 8.39 265 eP 48 58.00 -1.0
 BW06 8.58 347 ePn 49 01.70 0.1
 iPg 49 33.00
 i 49 53.30
 CLC 8.90 282 eP 49 43.50 37.5

SBB 9.05 275 eP 49 13.00 5.0
 e 49 42.00
 TNP 9.12 296 ePn 49 09.70 0.6
 i 49 50.70
 UYO 10.26 88 iPd 49 23.00 -1.6
 FRI 10.75 287 eP 49 38.10 6.8
 e 52 34.00
 CMB 11.49 292 e(P) 49 47.00 5.5
 e 50 38.20
 e 52 52.20
 LRM 12.13 341 eP 50 03.00 12.7
 OLY 12.67 81 eP 49 54.50 -2.7
 MIN 13.11 301 e(P) 50 18.00 14.6
 FVM 13.73 70 eP 50 11.80 0.5
 WDC 13.86 301 e(P) 50 22.70 9.6
 ELC 14.57 74 eP 50 22.00 -0.4
 SES 16.23 350 eP 50 50.00 6.1
 RSCP 17.47 80 eP 51 00.00 0.3
 FFC 20.56 8 eP 51 36.00 0.4
 0.8s 18.00nm 4.5mb
 LHS 21.46 82 eP 51 44.50 -0.5
 BLA 21.59 75 eP 51 47.50 1.2
 FBA 39.14 334 eP 54 24.40 0.9
 IMA 41.86 334 eP 54 48.70 2.7
 1.2s 6.63nm 4.2mb
 ZOBO 62.46 137 P 57 21.00 0.0
 LNB 62.68 137 eP 57 21.00 -1.3
 CNCB 62.97 138 P 57 21.00 -3.3
 SIV 66.41 131 P 57 44.00 -2.1
 46 obs. associated
 & NOV 08, 1990 11h 03m 46.51s
 34.453 N 106.861 W
 DEPTH = 8.9km
 NEW MEXICO (496)
 <SNM>. MD 3.1 (SNM). Felt in the
 Bernardo oreo.

BDNM 0.06 309 P 03 49.20 0.6
 LPM 0.23 127 P 03 51.30 -0.3
 LAZ 0.24 258 P 03 51.20 -0.4
 BNM 0.37 148 P 03 53.60 -0.4
 BNM 0.37 242 P 03 53.80 -0.4
 WTX 0.39 191 P 03 53.90 -0.5
 CRNM 0.51 168 P 03 56.30 -0.6
 SBM 0.55 209 P 03 57.00 -0.6
 ANMO 0.59 34 iPc 03 58.20 -0.3
 SMNM 0.69 191 P 03 59.50 -0.8
 GOL 5.37 12 e(P) 05 21.80 12.8
 11 obs. associated
 * NOV 08, 1990 11h 37m 33.24 ± 0.51s
 2.550 N ± 9.2km 126.649 E ± 14.6km
 DEPTH = 33.0km (normol)
 4.9mb (7 obs.)
 MOLLUCA PASSAGE (266)

KKM 10.97 289 eP 40 16.50 5.4X
 WB5 23.54 162 eP 42 41.50 -0.1
 MBL 24.49 195 eP 42 53.00 2.2
 OIS 26.24 152 iPd 43 06.80 -0.5
 ASPA 27.00 165 eP 43 13.10 -1.1
 0.4s 13.90nm 4.9mb
 eS 47 39.00
 WARB 28.56 180 eP 43 30.00 1.6
 0.5s 15.00nm 4.9mb
 CHG 31.57 303 eP 43 55.40 0.2
 CHTO 31.57 303 eP 43 55.20 0.0
 0.8s 4.21nm 4.3mb
 FORR 33.24 178 iPd 44 08.90 -0.6
 0.4s 43.00nm 5.7mb
 MAT 35.47 16 eP 44 28.00 -0.7
 CD2 35.55 325 eP 44 27.00 -2.5
 BJI 38.51 347 eP 44 54.00 -0.2
 1.0s 22.00nm 4.9mb
 BRS 38.99 142 eP 44 56.00 -2.4
 LZH 39.48 330 eP 45 03.50 0.9
 2.0s 39.00nm 4.8mb
 Z 24s 0.53um 4.3mszx
 pP 45 12.00 29kmX
 CN2 41.09 359 eP 45 18.00 2.5
 BWA 42.09 153 eP 45 25.10 1.2
 CAN 43.10 153 eP 45 32.70 0.5
 GTA 44.06 330 eP 45 41.00 1.0
 GUN 46.36 307 P 45 58.90 0.1
 PKI 46.59 306 P 46 00.20 -0.4
 KKN 46.79 307 P 46 02.40 0.4

DMN 46.85 306 P 46 02.20 -0.4
 GKN 47.39 306 P 46 07.40 0.7
 HYB 49.45 291 eP 46 21.00 -1.6
 GBA 49.84 286 Pd 46 24.20 -1.4
 0.6s 4.30nm 4.7mb
 WMO 53.64 326 eP 46 55.00 1.1
 S.D. = 1.3 on 25 of 26 obs.
 ? NOV 08, 1990 11h 52m 25.36 ± 5.56s
 37.962 N ± 49.0km 21.215 E ± 12.7km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 MD 3.4 (ATH).

VLS 0.54 294 ePg 52 36.50 0.2
 EVR 1.06 26 ePb 52 48.00 2.6X
 AGG 1.37 39 eP 52 50.50 -0.1
 IGT 1.71 337 eP 52 54.20 -1.2
 KZN 2.38 10 ePn 53 05.00 -0.1
 FNA 2.82 2 eP 53 06.80 -4.6X
 OHR 3.16 354 eP 53 17.30 1.2
 S.D. = 1.2 on 5 of 7 obs.
 NOV 08, 1990 13h 12m 54.92 ± 0.17s
 11.757 N ± 3.5km 85.872 W ± 3.1km
 DEPTH = 163.3km (6 depth phases)
 4.9mb (50 obs.)
 NICARAGUA (75)
 Felt (II) at San Salvador, El
 Salvador. Also felt in parts of
 northern Costa Rica.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 32C
 Centroid Location:
 Origin Time 13:12:59.6 0.5
 Lat 12.03N 0.05 Lon 86.40W 0.05
 Dep 156.5 1.5 Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.23 0.06 Mtt=-0.40 0.09
 Mff=-0.83 0.09 Mrt=-0.97 0.07
 Mrr=-1.21 0.07 Mtt=-0.05 0.09
 Principal Axes:
 T Val= 2.11 Plg=60 Azm= 47
 N -0.58 8 151
 P -1.53 29 245
 Best Double Couple: M=1.8*10**17
 NP1: Strike=356 Dip=18 Slip= 117
 NP2: 148 74 82

RIN3 1.07 153 iP+ 13 22.00 0.0
 JUD 1.62 169 iP+ 13 26.00 -1.1
 JTS 1.71 148 iP+ 13 27.70 -0.4
 VACR 1.73 137 iP+ 13 29.60 1.3
 EPA 2.16 144 iP+ 13 32.70 -0.4
 CAO 2.18 160 iP+ 13 32.70 -0.6
 POA2 2.24 134 iPd 13 35.60 1.3
 PTCR 2.42 144 eP+ 13 36.90 0.6
 HDC2 2.43 135 P 13 37.80 1.4
 IRZ2 2.63 132 iPd 13 40.80 1.7
 OCM 2.64 134 ePd 13 40.00 1.0
 VTU 2.70 130 iPd 13 41.80 1.8
 VSM 2.87 306 iPc 13 42.20 0.2
 OPS 2.90 144 P 13 41.60 -0.4
 CDM 3.01 136 eP+ 13 45.70 1.7
 S 14 19.50
 QZA 3.52 300 eP 13 49.80 -0.2
 TIG 3.70 137 eP+ 13 54.10 1.7
 LFU 3.73 302 eP 13 54.70 1.9
 SJAS 3.73 301 eP 13 53.60 0.7
 VSS 3.83 301 iPc 13 55.00 0.8
 TME 4.07 304 iPc 13 57.50 0.3
 CTCR 4.18 133 iP+ 14 00.70 2.0
 YPE 4.39 303 eP 14 04.30 2.7
 DVD 4.72 134 ePc 14 07.20 1.6
 UPA 6.82 113 iPc 14 35.60 2.0
 1.0s 300.00nm 5.6mb
 TPX 6.96 297 iP 14 36.00 0.5
 EVV 11.32 307 (P) 15 33.00 0.1
 OXX 11.77 298 iP 15 39.46 0.4
 LVVM 12.90 309 (P) 15 53.56 0.1
 IISM 13.22 304 iP 15 56.93 -0.5
 COTA 13.59 146 eP 16 05.50 2.7
 BOG 13.66 120 eP 16 08.00 4.5X
 eS 18 50.00
 GGP 13.88 148 eP 16 10.00 3.4X
 QUR 13.91 148 eP 16 10.00 3.2X

08d 13h

IIT	13.99	303	iP	16 09.37	1.7	GSC	36.53	315	iP+	19 47.50	1.0	MBC	66.92	352	ePc	23 29.50	-1.7
CAYA	14.00	145	eP	16 11.80	3.9X	MWC	36.86	313	eP	19 39.00	-10.4X		0.5s	33.00nm		5.4mb	
PPM	14.28	302	iPd	16 13.04	1.6	PAS	36.91	312	eP	19 50.00	0.5			pP	24 09.00	165km	
IIA	14.34	302	iPc	16 13.76	2.0	SIV	36.91	138	iPc	19 49.00	-0.7	PMR	67.14	332	ePc	23 31.10	-1.6
VC1	14.38	148	eP	16 17.50	4.7X	SBB	36.93	313	iP+	19 50.50	0.7		0.7s	8.79nm		4.7mb	
ACX	14.47	292	iP	16 15.00	1.6	DUG	36.98	325	iPc	19 50.40	0.2	FBA	67.68	336	ePc	23 34.30	-1.8
ANGL	14.63	145	eP	16 05.50	-10.3X				iPcP	22 07.80			0.6s	22.90nm		5.2mb	
III	14.68	298	iP	16 18.16	1.9	BW06	37.13	331	P	19 50.50	-1.1	SVW	70.03	331	ePc	23 48.50	-2.1
SDV	15.26	99	iPc	16 25.90	2.5		0.9s	31.07nm		5.0mb		IMA	70.38	336	ePc	23 50.70	-2.1
CRX	15.32	301	(P)	16 27.03	2.8			pP	20 25.50	158km			1.0s	10.20nm		4.6mb	
TOV	15.92	96	iPc	16 33.60	2.2	CLC	37.35	315	iP+	19 54.00	0.7	BRW	72.84	341	ePc	24 05.60	-1.4
MRX	16.72	300	(P)	16 44.00	2.9	ISA	37.88	314	iP+	19 59.00	1.2	AVE	74.05	59	iP	24 14.20	-0.7
MORO	17.24	91	iP	16 47.60	0.1	ABL	38.01	313	iP	19 59.40	0.4			i	24 55.00	168km	
CEOS	17.46	97	iP	16 49.90	-0.3			iPcP	22 11.30			IFR	75.95	58	iP	24 25.50	-0.3
PLAV	18.14	94	iP	16 57.90	0.1	CBM	38.13	20	P	20 01.20	1.6	GUD	76.19	51	iPc	24 26.60	-0.4
GUAC	18.33	93	iP	17 00.30	0.6	TNP	38.34	319	iPc	20 02.40	0.6	MAL	76.27	55	iPd	24 28.00	0.7
LLAV	18.75	92	iP	17 04.20	0.1			iPcP	22 12.20			EKA	76.28	36	P	24 26.00	-1.0
PORP	19.61	69	P	17 14.80	2.0	SYN	38.40	312	eP	20 04.00	1.8		0.5s	10.20nm		4.8mb	
SJG	20.07	69	P	17 29.50	11.9X	BLP	38.72	312	iP	20 05.50	0.8	TOL	76.32	52	eP	24 22.50	-5.1X
CPD	20.26	70	P	17 21.20	1.7			iPcP	22 13.40			ECOG	76.90	54	eP	24 31.00	0.0
LPR	20.38	69	P	17 22.00	1.3	PKEM	39.23	314	P	20 10.00	1.1	AFC	76.92	54	eP	24 31.00	-0.1
CUM	21.33	91	iP	17 30.00	-0.1	PHAM	39.32	313	iP	20 10.40	0.7	ECRI	77.28	49	eP	24 32.70	-0.2
PRM	22.45	8	P	17 43.80	2.9			iPcP	22 15.50			ETOR	77.77	51	eP	24 35.30	-0.3
MZX	22.63	303	(P)	17 40.00	-2.8	FRI	39.41	315	iPc	20 10.20	-0.2	LFF	77.92	43	eP	24 35.20	-1.0
SKI	23.06	73	eP	17 49.60	2.6			iPcP	22 15.10				0.8s	32.25nm		5.1mb	
NEV	23.18	74	eP	17 50.48	2.4	KVN	39.46	319	P	20 11.70	0.7	GRR	78.02	43	eP	24 35.60	-1.1
PWLA	23.20	355	P	17 49.00	0.8	PRI	39.66	314	ePc	20 12.90	0.3		0.7s	33.05nm		5.2mb	
BPA	23.84	74	eP	17 55.04	0.6			ePcP	22 17.30			FLN	78.24	42	eP	24 37.00	-0.9
GBTN	23.85	3	P	17 56.80	2.4	LLA	40.09	314	ePc	20 15.80	-0.1		1.0s	52.00nm		5.2mb	
TKL	23.87	4	P	17 56.80	2.2			ePcP	22 18.20			Z	20s	0.13um		4.2Msz	
DOG	23.92	77	eP	17 57.44	2.2	CMB	40.41	316	iPc	20 19.00	0.4	AIA	78.48	171	eP	24 39.00	0.2
CPB	23.97	73	eP	17 52.78	-2.9			e	21 06.10	223kmX		LDF	78.49	43	eP	24 38.30	-1.0
BBL	23.99	78	eP	17 58.20	2.2			iPcP	22 18.80				0.6s	16.25nm		4.9mb	
TRN	24.03	90	eP	17 55.71	-0.5	SAO	40.51	314	eP	20 19.60	0.2	MFF	78.64	45	eP	24 39.10	-1.1
SEG	24.07	76	eP	17 58.45	1.8			ePcP	22 19.20				0.5s	17.50nm		5.0mb	
OLY	24.18	349	P	17 57.50	0.0	LRM	40.79	331	iPc	20 21.80	0.0	LKO	78.67	83	Pc	24 38.94	-2.0
MGG	24.19	77	eP	17 59.94	2.2			iP	22 20.40				0.9s	39.50nm		5.2mb	
FDF	24.24	80	eP	18 00.00	1.7	ARN	40.86	315	iP	20 23.00	0.7	EPF	79.33	48	eP	24 43.40	-0.7
	0.1s	1.85nm		4.6mb				iPcP	22 20.80				0.8s	18.80nm		4.9mb	
SFG	24.35	77	eP	18 01.00	1.8	MHC	40.93	315	ePc	20 23.90	1.0	LFF	79.42	46	eP	24 43.30	-1.1
DEG	24.48	76	eP	18 01.02	0.4			ePcP	22 21.30				0.8s	26.85nm		5.0mb	
ELC	25.60	354	P	18 10.80	0.2	GCC	41.03	314	ePc	20 24.20	0.6	TIC	79.75	85	Pc	24 45.22	-1.6
MEO	25.67	335	iPc	18 10.30	-1.1			ePcP	22 21.00				1.0s	28.00nm		4.9mb	
BLA	25.81	10	iPc	18 15.20	2.5	PCC	41.52	314	iPc	20 28.20	0.6	LPO	79.76	46	eP	24 45.20	-1.1
	1.2s	609.38nm		6.1mb X		BKS	41.60	315	iPc	20 29.40	1.1		0.8s	21.50nm		4.9mb	
NAV	25.86	9	P	18 14.80	1.7		0.8s	178.00nm		5.7mb		LIC	79.82	86	Pc	24 45.68	-1.4
FVM	26.43	352	P	18 17.70	-0.6	BRK	41.61	315	iPc	20 29.50	1.1	LSF	79.83	45	eP	24 45.30	-1.3
CBN	27.41	15	iPd	18 29.70	2.6			ePcP	22 23.10				0.8s	8.05nm		4.5mb	
	1.2s	299.00nm		5.9mb		ORV	41.95	318	ePc	20 31.70	0.6	RJF	79.93	46	eP	24 46.00	-1.1
ALO	29.71	324	ePc	18 47.50	-0.4			ePcP	22 24.10				1.0s	24.00nm		4.9mb	
	1.0s	30.50nm		5.0mb		MIN	42.43	319	e(P)	20 34.70	-0.5	Z	20s	0.17um		4.4Msz	
		epP	19 21.00	160km		LBFM	43.15	320	iP	20 40.30	-0.8	KIC	80.08	86	Pc	24 47.08	-1.4
ANMO	29.71	324	P	18 47.80	-0.1			iPcP	22 27.80			CAF	80.36	46	eP	24 48.40	-1.0
	1.3s	61.30nm		5.2mb		WDC	43.16	318	iPc	20 38.60	-2.3		0.6s	8.10nm		4.6mb	
CLE	29.86	7	iP	18 49.90	1.0			iPcP	22 26.80			MAF	80.55	45	eP	24 49.20	-1.2
LVNJ	30.55	17	P	18 56.60	1.6	SES	43.71	337	ePc	20 44.80	-0.6		0.8s	13.45nm		4.7mb	
TBR	31.01	17	P	19 00.10	1.1		0.6s	33.00nm		5.1mb		BGF	80.70	44	eP	24 49.90	-1.2
DLA	31.21	6	P	19 01.30	0.6	FHC	44.22	318	ePc	20 49.90	0.4		0.6s	14.45nm		4.9mb	
WVLY	31.25	10	P	19 02.00	0.8			ePcP	22 32.20			SSF	81.08	44	eP	24 51.40	-1.7
LDN	31.43	7	P	19 03.15	0.5	NEW	44.76	331	P	20 52.30	-1.4		1.0s	21.00nm		4.8mb	
ARE	31.44	153	eP	19 04.00	0.7	DPW	45.02	329	P	20 54.70	-1.1	LOR	81.29	44	eP	24 52.70	-1.5
ELF	31.57	6	P	19 04.10	0.2	LON	46.20	326	iP	21 03.80	-1.3		1.0s	27.00nm		4.9mb	
GLD	32.73	332	P	19 13.80	-0.4			iPcP	22 07.30			Z	20s	0.20um		4.5Msz	
	1.3s	43.10nm		5.0mb		BAO	46.33	125	ePc	21 05.00	-1.6	SMF	81.37	44	eP	24 53.10	-1.5
GOL	32.75	332	P	19 13.60	-1.0	ROCH	46.68	163	iPc	21 09.00	-0.3		1.0s	16.00nm		4.7mb	
ZOBO	32.92	147	Pc	19 16.20	-0.3	PNT	46.69	330	iPc	21 08.40	-0.5	DOU	81.39	41	P	24 54.00	-0.6
	Z	20s	0.32um	4.0Msz			0.5s	26.00nm		5.1mb		LBF	81.41	44	eP	24 53.10	-1.8
		S	24 20.00			BMW	46.82	325	iP	21 08.70	-1.3		0.8s	6.70nm		4.4mb	
		LR	29 24.00					iPcP	22 10.30			ENN	82.13	40	eP	24 52.50	-6.0X
LPB	33.15	148	P	19 19.00	0.7	PEL	46.94	162	iPc	21 10.70	-0.4		1.0s	20.00nm		4.8mb	
		e	21 56.00				1.0s	35.00nm		4.9mb				e	25 06.00	46kmX	
CNCB	33.44	148	P	19 20.70	-0.3	GMW	47.21	326	P	21 11.00	-2.0			e	25 38.50		
		i	21 59.00			FCH	47.23	162	iPc	21 14.00	0.3	MEM	82.21	40	P	24 57.80	-1.0
RSNY	34.10	15	P	19 26.50	0.8	SAN	47.24	163	eP	21 12.50	-0.9	WTS	82.49	39	eP	24 59.90	-0.4
BNH	35.04	18	P	19 35.40	1.6	TACH	47.34	163	iPc	21 13.90	-0.3		1.0s	26.00nm		5.0mb	
TPC	35.37	314	iP+	19 37.50	0.8	LVN	47.49	164	iPc	21 14.60	-0.6			e	25 07.00	22kmX	
MSU	35.49	323	iP	19 38.40	0.6	CHCH	47.69	163	iPc	21 16.20	-0.7			e	25 40.00		
		iPcP	22 04.00			PPD	47.72	135	eP	21 13.40	-3.8X	HAU	82.85	43	eP	25 01.00	-1.3
PLM	35.57	312	iP+	19 40.00	1.5	MCW	47.92	328	P	21 17.00	-1.5		0.7s	13.25nm		4.8mb	
PEC	36.05	313	iPc	19 43.00	0.6	PGC	48.23	327	eP	21 20.00	-0.7	Z	20s	0.15um		4.4Msz	
	1.0s	23.33nm		4.8mb		VAO	51.42	132	eP	21 42.70	-2.9	NAO	83.08	29	P	25 02.40	-0.8
		iPcP	22 04.80			PDCR	52.30	116	eP	21 48.30	-3.8X		1.0s	14.60nm		4.7mb	
RVR	36.26	313	iP+	19 45.00	0.9	YKA	54.69	344	eP	22 06.60	-2.4	BSF	83.17	43	eP	25 02.60	-1.5
DAU	36.27	326	i														

EMS	83.57	44	ePc	25	05.00	-1.2	CHG	149.26	351	ePKP	32	21.00	-0.9	CHTO	28.92	340	eP	16	35.80	-0.8
DIX	83.90	44	ePc	25	07.10	-0.9	CHTO	149.26	351	ePKP	32	21.00	-0.9		0.8s		6.77nm			4.3mb X
MMK	84.28	44	ePc	25	09.40	-0.4	RKG	149.52	220	ePKP	32	25.50	3.6X	OIS	31.92	115	eP	17	02.40	-0.8
SLE	84.31	43	ePc	25	08.50	-1.2	GBA	149.85	34	PKP	32	22.40	-0.4	KMI	34.01	350	Pd	17	23.00	-1.6
HFS	84.62	30	eP	25	09.00	-1.9	LOE	150.07	345	ePKP	32	27.00	3.9X		1.5s		50.00nm			5.2mb
	0.7s		7.90nm			4.6mb	NWAO	150.12	221	ePKP	32	23.00	0.2	Z	18s		5.40um			5.3Msz
Z	18s		0.12um			4.3Msz	KLB	150.59	224	ePKP	32	23.00	-0.6	N	15s		2.20um			
			LR	51	21.00		BDT	150.79	350	ePKP	32	28.00	3.8X	E	15s		3.10um			
LLS	84.82	43	ePc	25	11.70	-0.8	KUPT	151.02	270	ePKPd	32	23.50	-1.1				pP	17	36.00	50kmX
TMA	84.89	44	ePc	25	11.80	-1.0	MUN	151.39	222	ePKP	32	24.00	-0.8				sP	17	40.00	
SAX	84.98	43	ePc	25	12.50	-0.9	BAL	151.91	225	ePKP	32	22.00	-3.6X	GYA	34.87	356	P	17	29.80	1.1
VDL	85.22	44	ePc	25	13.60	-0.9	KOD	152.59	38	ePKP	32	33.00	5.7X	Z	20s		1.10um			4.6Msz
BOB	85.56	45	P	25	15.00	-1.0	MRWA	153.22	226	ePKP	32	35.00	7.5X	N	15s		1.70um			
GRF	85.68	40	ePc	25	17.00	0.6	MBL	153.67	246	ePKP	32	28.00	-0.3	E	15s		1.30um			
									i		32	35.70		KOD	36.46	300	eP	17	43.00	0.5
			e	28	42.00		BSI	162.82	356	ePKP	32	41.00	1.9	PMG	37.74	94	eP	17	54.00	1.0
			e	35	29.00			S.D. = 1.3	on 243 of 274 obs.					CTA	37.84	112	iPd	17	54.20	0.5
MOX	85.71	39	iPc	25	15.50	-1.1									1.0s		12.00nm			4.8mb
	1.2s		28.00nm			5.0mb		NOV	08, 1990	14h 10m	42.24 ± 1.46s					iS	23	38.00		
			i	25	21.50	19kmX			8.549 S ± 5.9km	108.939 E ± 5.8km				ADE	37.88	138	e(P)	17	54.00	0.1
SAL	86.13	44	P	25	18.00	-0.7			DEPTH = 73.6 ± 13.0 km					GBA	38.24	305	Pc	17	56.40	-0.7
SQTA	86.22	43	i(P)	25	17.90	-1.4			5.4mb (24 obs.)						1.0s		94.00nm			5.7mb
	0.9s		13.10nm			4.8mb	JAVA					(277)	WHN	39.21	7	Pd	18	09.00	4.0X	
CLL	86.40	38	eP	25	18.00	-1.9							CD2	39.55	353	eP	18	08.00	0.2	
	1.3s		26.00nm			4.9mb			CENTROID, MOMENT TENSOR		(HRV)			1.0s		50.00nm			5.4mb	
			epP	25	59.00	163km			Data Used: GDSN				Z	14s		2.33um			5.2MszX	
CTI	86.79	44	P	25	20.00	-2.1			L.P.B.: 15S, 31C				N	13s		1.46um				
WET	86.86	41	iPc	25	21.80	-0.4			Centroid Location:				HYB	39.59	311	ePc	18	07.50	-0.8	
	1.2s		52.00nm			5.3mb			Origin Time		14:10:44.4 0.5			1.0s		70.00nm			5.5mb	
BRG	87.09	39	iP	25	22.70	-0.5			Lat 9.20S 0.04 Lon 109.06E 0.06				SSE	41.13	16	iPc	18	23.00	2.3	
	1.8s		44.00nm			5.1mb			Dep 42.3 4.2 Half-duration 1.8					1.0s		39.00nm			5.2mb	
			i	25	28.60	19kmX			Moment Tensor: Scale 10**17 Nm				Z	20s		1.20um			4.8Msz	
			i	26	03.80				Mrr= 0.77 0.06 Mtt=-1.19 0.06				N	16s		1.00um				
			i	28	53.80				Mff= 0.42 0.11 Mrt= 0.37 0.12							pP	18	32.70	33kmX	
KHC	87.38	40	P	25	34.00	9.6X			Mrf= 0.05 0.09 Mtf= 0.15 0.06				CMS	41.19	129	e(P)	18	21.00	-0.3	
			e	26	05.50	122kmX			Principal Axes:						1.0s		100.00nm			5.6mb
SOD	87.61	21	eP	25	24.00	-1.4			T Vol= 0.85 Plg=75 Azm=317				NJ2	41.47	13	Pc	18	25.50	2.0	
PRU	87.69	39	eP	25	25.50	-0.6			N 0.42 11 93					1.0s		100.00nm			5.6mb	
			e	25	31.00	17kmX			P -1.27 10 185				Z	20s		0.50um			4.4Msz	
KSP	88.53	38	ePd	25	29.50	-0.6			Best Double Couple:Mo=1.1*10**17				LSA	41.70	336	P	18	25.60	-0.4	
			e	26	11.30	166km			NP1:Strike=288 Dip=36 Slip= 109				RMQ	41.72	120	e(P)	18	25.00	-0.8	
			e	28	59.00				NP2: 85 56 77				XAN	42.35	360	Pc	18	31.30	0.5	
ZST	89.81	41	eP	25	27.20	-9.0X	TRT	3.75	77	iPc	11	40.00	1.0		1.0s		100.00nm			5.6mb
			e	25	35.70	27kmX			iS	12	20.20		PKI	42.52	328	P	18	32.60	0.0	
KRA	90.99	38	eP	25	40.10	-1.5	KGM	11.90	332	eP	13	32.00	1.1	GUN	42.56	329	P	18	32.80	-0.1
SPA	101.68	180	iPd	26	31.20	1.3	KUPT	14.56	97	eP	13	54.70	-11.2X	DMN	42.71	328	P	18	34.20	0.1
	1.0s		7.50nm			5.3mb			0.6s 206.70nm				KKN	42.77	328	P	18	34.40	-0.1	
BCAO	103.14	83	ePd	26	18.00	-19.5X			eS	16	29.00		GKN	43.28	328	P	18	37.40	-1.1	
	0.4s		4.00nm				IPM	15.24	329	ePc	14	14.00	-0.7	POO	43.85	308	iPc	18	42.00	-1.2
MAT	116.52	321	iPKPc	31	19.90	-1.4	NANU	15.30	156	eP	14	01.30	-14.1X		1.0s		46.00nm			5.3mb
MAW	120.52	167	iPKPc	31	27.00	-0.9			0.3s 13.00nm				BWA	44.43	131	eP	18	49.20	1.5	
HHC	125.23	344	PKP	31	38.00	0.0			eS	16	33.00		LZH	44.65	354	Pc	18	50.70	1.1	
CAN	125.26	235	ePKP	31	37.90	-0.3			eP	14	25.80	-1.2		1.5s		170.00nm			5.7mb	
BWA	125.90	236	ePKP	31	38.50	-1.0			eP	14	17.00	-11.8X	Z	18s		2.52um			5.2Msz	
RMQ	126.72	246	ePKP	31	39.00	-2.2X			iS	17	17.00		N	13s		1.48um				
			e	32	21.30		SNG	17.69	332	eP	14	46.30	1.0	E	12s		0.56um			
			ePKP	31	41.50	-1.7			eS	15	38.50		TIA	45.18	9	Pc	18	53.60	0.1	
CMS	128.59	239	ePKP	31	44.00	-0.6	MEKA	20.14	154	eP	15	07.70	-5.3X		0.9s		100.00nm			5.7mb
			e	32	28.00				eS	18	36.00		CAN	45.25	132	eP	18	55.30	1.1	
GTA	128.82	354	PKPc	31	43.60	-1.4	KNA	20.65	112	eP	15	16.00	-2.3	BRS	45.42	120	iP	18	56.00	0.3
CTA	129.36	254	iPKPc	31	46.10	-0.3			0.5s 20.00nm			4.7mb				i	19	13.50		
	1.3s		107.69nm				MRWA	21.60	163	eP	15	22.00	-5.8X	TIY	46.13	4	iPc	19	01.90	0.8
			i	32	29.30				eS	19	06.00			0.8s		100.00nm			5.8mb	
QUE	130.77	31	ePKP	31	48.70	-0.3			eP	15	34.00	0.1	Z	18s		2.00um			5.1Msz	
WHN	133.66	336	PKPd	31	55.00	0.8	MTN	22.21	103	iPc	15	34.00	-8.9X	N	18s		2.60um			
GKN	139.42	13	PKP	31	56.20	-9.1X	DAV	22.72	47	eP	15	30.00	5.4X				eS	25	51.50	
KKN	139.76	12	PKP	31	57.20	-8.8X	BAL	23.12	163	eP	15	48.00		NDI	48.04	322	iPc	19	15.00	-1.1
GUN	139.77	11	PKP	31	57.00	-9.2X			eS	19	45.00			0.7s		130.14nm			6.0mb	
PKI	140.00	12	PKP	31	56.60	-10.0X	MUN	24.27	165	eP	15	50.00	-3.8X	GTA	48.46	351	Pc	19	20.10	0.7
ASPA	140.44	247	iPKPd	31	57.60	-9.5X			eS	20	10.00			1.2s		1060.00nm			6.7mb X	
			iPP	32	48.50		KLB	24.35	161	eP	15	50.00	-4.6X	Z	20s		2.40um			5.2Msz
			iSKP	35	27.70				eS	20	18.00		E	19s		3.40um				
			iSKKS	49	55.20		COOL	24.97	155	eP	16	11.00	10.5X		48.80		7 eP	19	22.50	0.7
WB5	140.53	253	ePKP	31	59.40	-7.9X			eS	20	24.00			1.2s		1097.00nm			6.7mb X	
			i	32	07.00		NST	25.60	340	eP	16	06.00	-0.4	Z	24s		1.02um			4.7MszX
			i	32	50.10		OCP	25.99	28	eP	16	08.50	-1.5	N	16s		0.72um			
			eSKP	35	28.10		LOE	26.75	345	eP	16	16.00	-1.0				eS	26	20.00	
WRA	140.55	253	PKP	31	58.00	-9.4X	WB5	27.06	117	eP	16	18.80	-1.0	BTO	48.91	1	P	19	23.00	0.2
	0.5s		27.10nm				BAG	27.34	25	eP	16	22.20	-0.4		N	16s	2.20um			
FORR	143.30	234	iPKPd	32	08.50	-3.3X	QIZ	27.42	2	eP	16	25.00	2.0		E	15s	0.50um			
	0.4s		67.00nm						N	20s		2.40um					eS	26	19.50	
MTN	143.85	264	ePKP	32	11.00	-2.2X	ASPA	28.23	125	iPc	16	29.40	-1.0	HHC	49.21	3	P	19	26.20	1.1
QIZ	145.71	333	PKP	32	16.60	0.4			1.1s 19.20nm			4.6mb		1.0s		40.00nm			5.4mb	
WARB	146.19	240	ePKP	32	17.00	0.1														

08d 14h

HNR	50.35	95	eP	19	34.00	-0.2
SNY	51.90	14	Pc	19	43.00	-2.4
Z	19s		1.10um			4.9Msz
			pP	19	57.00	52kmX
MTMJ	52.44	29	P	19	49.00	-0.7
MAT	52.61	30	iPc	19	49.50	-1.3
	1.3s	90	.38nm			5.6mb
Z	20s		0.71um			4.7Msz
			eS	27	34.00	
CHJJJ	52.61	31	P	19	49.60	-1.3
KAKJ	53.33	32	P	19	54.20	-1.9
CN2	54.21	15	Pc	20	01.20	-1.3
	1.0s	100	.00nm			5.8mb
Z	20s		1.50um			5.1Msz
N	20s		1.40um			
E	20s		0.70um			
			pP	20	12.00	36kmX
			PcP	21	06.00	
YAMJ	54.79	30	P	20	06.80	0.0
WMO	55.57	341	P	20	12.70	0.2
Z	20s		0.90um			4.8Msz
QUE	55.76	316	eP	20	12.30	-1.9
OFUJ	56.30	30	P	20	16.90	-0.8
KSH	56.70	330	P	20	21.00	0.3
MAIO	64.38	317	iPc	21	11.40	-1.5
SHI	66.19	308	iPc	21	23.00	-1.8
TAB	74.43	313	eP	22	14.00	-0.5
SBA	75.17	169	e(P)	22	19.20	1.3
EVA	77.20	245	eP	22	29.00	-1.5
KRI	77.41	255	ePKP	22	32.40	0.7
SLR	77.96	246	eP	22	33.00	-1.6
Z	20s		1.77um			5.4Msz
BUL	78.07	251	iPKPd	22	31.60	-3.7X
SEK	78.38	243	eP	22	36.00	-1.0
SWZ	80.50	244	eP	22	40.50	-7.8X
MBH	80.61	202	eP	22	49.00	0.2
AKSR	80.69	296	iPd	22	51.00	1.9
JVI	80.80	304	eP	22	50.00	0.3
ATZ	81.11	305	eP	22	52.00	0.7
SPA	81.51	180	iPd	22	52.10	-0.7
	1.0s		10.00nm			4.7mb
KAS	84.65	313	eP	23	11.00	1.7
BBTK	84.97	311	iPc	23	12.00	1.0
KHL	87.04	309	eP	23	22.00	0.9
I2M	88.79	309	eP	23	30.40	0.9
BCAO	91.05	274	iPd	23	41.20	0.7
	0.6s		11.00nm			5.4mb
NUR	94.57	330	iP	23	48.00	-7.6X
	0.9s		23.70nm			5.6mb
			i	24	13.60	
SOD	94.87	337	eP	23	57.00	0.1
			i	24	12.40	
SPC	95.55	319	eP	24	15.90	15.3X
SRO	96.68	317	eP	24	13.70	8.2X
ZST	97.53	318	eP	24	19.10	9.8X
HFS	99.97	330	eP	24	22.50	2.4X
	0.8s		3.10nm			5.0mb
NAO	101.37	330	Pdiff	24	28.40	2.0
	1.1s		10.70nm			5.4mb
PNT	122.69	36	ePKP	29	50.00	18.9X
ALO	138.29	46	ePKP	30	00.00	-1.6
MEO	143.69	40	iPKPd	30	09.70	-1.2
PPD	143.96	212	e(PKP)	30	19.90	8.2X
BAO	146.84	224	ePKP	30	18.50	1.7
SIV	153.69	202	PKP	30	27.20	0.2
CNCB	154.62	187	PKP	30	37.00	8.1X
LPB	154.91	187	(PKP)	30	41.00	11.9X
ZOBO	155.17	187	PKP	30	31.00	1.4
S.D. = 1.2 on 87 of 109 obs.						
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NOV 08, 1990 14h 28m 31.18± 0.38s						
41.820 N ±						

OHR	0.88	143	iSg	29	02.20	
	0.5s	225.00nm	iPg	28	46.60	-1.5
			iSg	28	58.60	
			Lg	29	03.90	
SKO	1.01	81	iPg	28	49.50	-0.8
	0.4s	1131.00nm				
			iSg	29	03.10	
			Lg	29	06.90	
BDV	1.06	296	ePg	28	51.00	-0.1
			eSg	29	08.00	
IVA	1.06	352	ePg	28	51.10	-0.1
			eSg	29	07.20	
BERA	1.12	186	iPnd	28	52.90	0.7
NKY	1.29	321	ePg	28	55.10	0.6
			eSg	29	13.00	
KBN	1.31	156	ePn	28	53.00	-2.4
HCY	1.35	298	iPg	28	55.90	-0.1
			iSg	29	17.00	
TPE	1.52	183	ePn	28	59.00	0.5
BRY	1.58	314	ePn	29	00.50	1.1
			eSn	29	26.20	
VAY	1.92	104	iPn	29	05.40	1.3
KZN	1.97	140	eP	29	07.00	2.0
			eS	29	33.00	
PLG	2.91	119	eP	29	20.00	1.6
HVAR	3.03	298	iPn	29	26.50	6.5X
			iSg	30	11.60	
EVR	3.18	155	eP	29	26.50	4.2X
VOY	6.15	315	e(Pn)	30	03.70	-0.6
			eSn	31	14.30	
S.D. = 1.1 on 23 of 25 obs.						
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NOV	08,	1990	14h 32m	32.00±	0.54s	
	41.827 N ±	4.6km		20.142 E ±	5.4km	
DEPTH = 10.0km (geophysicist)						
ALBANIA						(391)
MG 2.8 (TIR).						
PHP	0.26	122	iPg	32	37.00	-0.5
PUK	0.28	319	iPg	32	38.00	0.0
KKS	0.32	39	iPg	32	39.50	0.9
SDA	0.52	292	iPg	32	42.40	0.0
TIR	0.52	203	iPg	32	42.00	-0.6
BCI	0.54	354	iPg	32	42.70	-0.3
OHR	0.87	145	iPg	32	47.60	-1.1
	0.5s	296.00nm				
			iSg	33	01.10	
			Lg	33	04.30	
SKO	0.98	81	iPg	32	51.40	0.8
	0.4s	395.00nm				
			iSg	33	03.70	
			Lg	33	07.00	
BERA	1.13	187	ePn	32	54.80	1.6
KBN	1.30	157	ePn	32	54.60	-1.5
TPE	0.67	39	ePn	33	01.50	2.1
VAY	1.89	105	ePn	33	04.30	-0.3
VOY	6.17	315	e(Pn)	34	04.30	-1.1
			eSn	35	14.40	
S.D. = 1.2 on 13 of 13 obs.						
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& NOV	08,	1990	14h 44m	37.11s		
	58.850 N			154.256 W		
DEPTH = 110.4km						
ALASKA PENINSULA						(12)
<AGS-P>.						
CDD	0.33	76	iP	44	52.44	-0.9
MCNL	0.34	353	iP	44	52.62	-0.7
			eS	45	03.93	
AUI	0.65	41	eP	44	54.46	-0.9
AUH	0.66	39	eP	44	54.83	-0.7
AGU	0.67	39	eP	44	55.13	-0.5

KDC	1.45	139	ePd	45	01.80	-1.8
HOM	1.57	58	eP	45	04.24	-0.9
CNPM	1.70	65	eP	45	04.94	-1.8
			eS	45	25.68	
RS2	1.79	25	iP	45	06.76	-1.3
RSO	1.79	25	iP	45	06.73	-1.4
REF	1.82	25	iP	45	07.11	-1.4
			eS	45	29.57	
RDN	1.83	24	iP	45	06.77	-1.8
NCT	1.84	21	iP	45	07.38	-1.3
NNL	1.93	50	eP	45	08.61	-1.1
BRK	1.96	61	eP	45	08.81	-1.3
			eS	45	31.46	
RDT	1.97	28	eP	45	08.43	-1.8
			iS	45	32.72	
SVW	2.37	344	iPd	45	14.30	-1.1
NKA	2.44	37	eP	45	15.63	-0.6
CKL	2.54	21	eP	45	16.15	-1.7
SPU	2.59	24	eP	45	16.30	-2.1
BGL	2.60	20	iP	45	17.18	-1.3
SLKM	2.64	49	eP	45	16.43	-2.6
CRP	2.64	23	eP	45	17.76	-1.5
CGLM	2.71	24	eP	45	18.16	-1.9
NCG	2.77	21	eP	45	19.20	-1.6
SUA	3.16	32	eP	45	24.33	-1.7
PMS	3.36	42	eP	45	26.29	-2.5
SKT	3.42	22	eP	45	27.34	-2.2
PWA	3.56	36	eP	45	28.81	-2.5
MTU	3.56	69	eP	45	28.99	-2.5
KNIM	3.64	63	eP	45	28.82	-3.7
PLRM	3.76	41	eP	45	30.56	-3.5
PMR	3.76	41	eP	45	30.50	-3.5
KNK	3.88	46	eP	45	32.29	-3.4
GHO	3.95	40	eP	45	33.25	-3.6
CUT	4.07	27	eP	45	35.22	-3.1
GLI	4.14	58	eP	45	35.09	-4.3
SML	4.18	42	eP	45	36.32	-3.6
TTA	4.18	349	ePd	45	38.30	-1.7
VZW	4.46	57	eP	45	40.49	-3.2
SCM	4.56	46	eP	45	41.75	-3.4
VLZ	4.59	57	eP	45	41.89	-3.5
KLU	4.93	54	eP	45	46.40	-3.9
TOA	5.16	47	ePc	45	50.10	-3.3
RND	5.27	27	eP	45	50.96	-3.9
SDG	5.65	46	eP	45	56.27	-3.8
GLB	5.83	59	eP	45	57.24	-5.3
PAX	5.95	42	eP	46	00.83	-3.4
NEA	6.25	21	eP	46	03.69	-4.6
WRH	6.36	25	eP	46	05.08	-4.6
BALM	6.37	65	eP	46	06.60	-3.5
DDM	6.39	36	eP	46	07.78	-2.4
YAH	6.53	71	eP	46	09.41	-2.9
HDA	6.57	29	eP	46	08.06	-4.6
CCB	6.57	25	eP	46	07.84	-4.8
MDM	6.76	22	eP	46	10.67	-4.5
FBA	6.79	24	eP	46	10.90	-4.8
GLM	6.96	25	eP	46	13.42	-4.5
IMA	7.25	2	eP	46	19.70	-2.4
HYT	8.66	70	P	46	40.80	-0.4
68 obs. associated						
NOV 08, 1990 14h 56m 00.48± 0.41s						
13.809 S ± 9.0km 66.221 E ± 7.4km						
DEPTH = 10.0km (geophysicist)						
5.1mb (11 obs.) 5.0Msz (5 obs.)						
MID-INDIAN RISE (429)						
CENTROID, MOMENT TENSOR (HRV)						
Dato Used: GDSN						
L.P.B.: 14S, 32C						
Centroid Location:						
Origin Time 14:56: 8.3 0.8						
Lat 13.40S 0.06 Lon 66.00E 0.07						
Dep 15.0 FIX Half-duration 1.7						
Moment Tensor: Scale 10**16 Nm						
Mrr=-0.47 0.32 Mtt=-6.15 0.36						
Mff= 6.62 0.47 Mrt= 0.00 0.00						
Mrf= 0.00 0.00 Mtf= 3.24 0.33						
Principal Axes:						
T Vol= 7.40 Plg= 0 Azm=103						
N -0.47 90 180						
P -6.92 0 13						
Best Double Couple:Mo=7.2*10**16						
NP1:Strike=148 Dip=90 Slip=-180						
NP2: 238 90 0						
HYB	33.33	22	eP	02	41.50	0.6
KRI	35.40	260	iPc</			

BUL 36.46 255 iPd 03 06.00 -1.9
1.0s 21.00nm 4.9mb
SLR 37.49 246 iPd 03 16.50 0.0
1.5s 69.44nm 5.2mb
Z 18s 3.44um 5.2msz
LWI 38.73 284 e(P)c 03 28.80 1.7
SWZ 40.37 244 iPd 03 40.50 0.0
1.3s 38.46nm 4.9mb
NDI 43.56 14 eP 04 06.50 0.2
QUE 43.75 1 eP 04 08.40 0.4
DMN 45.06 24 P 04 19.50 0.7
PKI 45.15 24 P 04 19.80 0.2
SHI 45.17 243 eP 04 19.00 -0.6
GKN 45.23 23 P 04 19.20 -0.9
1.2s 57.00nm 5.4mb
KKN 45.29 24 P 04 21.00 0.4
1.0s 40.00nm 5.3mb
GUN 45.64 25 P 04 23.40 -0.1
CHG 45.72 46 eP 04 27.50 3.6X
CHTO 45.72 46 eP 04 25.80 1.9
MAIO 50.24 353 eP 04 58.00 -0.9
BCAO 50.67 288 iPd 05 03.40 0.9
0.9s 25.00nm 5.2mb

id 05 17.50
ic 05 30.00
ic 11 46.50
ed 15 23.00
ic 18 42.00

GYA 56.10 44 P 05 43.00 0.3
CD2 57.26 39 P 05 51.40 0.7
WMO 60.61 18 P 06 13.00 -0.8

Z 20s 1.10um 5.0msz
GTA 61.51 29 eP 06 19.00 -1.1
1.4s 30.00nm 5.3mb
XAN 62.57 39 P 06 27.40 0.2
ASPA 64.35 110 eP 06 38.50 -0.6

0.8s 5.30nm 4.8mb
Z 22s 1.30um 5.1msz
WRA 65.10 106 P 06 43.00 -1.0
0.7s 11.80nm 5.2mb

TIY 67.13 38 eP 06 56.30 -0.4
Z 20s 0.50um 4.7msz
HHC 68.69 35 eP 07 05.00 -1.5
SSE 69.11 49 P 07 23.00 13.9X

2.0s 184.00nm
KIC 73.21 281 P 07 33.92 -0.2
LIC 73.45 281 P 07 35.66 0.2

Z 20s 0.49um 4.8msz
TIC 73.56 281 P 07 36.30 0.2
SPC 74.70 331 eP 07 41.30 -1.0
LKO 74.93 284 P 07 43.22 -0.9

ZST 75.57 329 e(P) 07 55.90 8.8X
SPA 76.28 180 iPd 07 52.80 1.7
1.5s 22.73nm 5.0mb

KHC 77.97 328 P 08 01.50 1.0
e 08 12.50
PRU 78.01 329 eP 08 04.00 3.4X
e 08 12.00

CHTO 77.69 293 eP 01 16.90 -0.8
1.0s 3.25nm 4.3mb
BTO 78.02 317 eP 01 19.00 -0.3
CD2 78.12 306 eP 01 24.00 4.1X

LZH 80.22 311 eP 01 31.30 -0.1
1.5s 28.00nm 5.0mb
Z 25s 0.83um 5.0mszX
TTA 81.04 15 eP 01 46.60 11.6X

PCC 81.14 48 eP 01 39.50 3.6X
PRS 81.39 49 eP 01 37.50 0.2
SYP 81.70 51 eP 01 39.00 -0.1

PRI 81.83 50 eP 01 39.90 0.2
PMR 81.85 18 eP 01 39.00 -0.1
WDC 82.35 45 eP 01 42.00 -0.2

ORV 82.64 46 eP 01 43.20 -0.5
CMB 82.80 48 eP 01 43.50 -1.2
FRI 82.88 49 eP 01 44.60 -0.4
MWC 83.05 52 eP 01 46.00 -0.2

TOA 83.16 19 eP 01 37.20 -8.8X
ISA 83.28 51 eP 01 47.00 -0.2
SBB 83.40 52 eP 01 47.00 -0.8
RVR 83.49 53 eP 01 48.00 -0.2

PLM 83.65 53 iPd 01 49.00 -0.3
CLC 84.00 51 iPd 01 51.00 0.2
IMA 84.22 14 eP 01 51.50 0.1
GSC 84.41 52 iPd 01 52.50 -0.4

GTA 84.50 313 eP 01 53.60 0.3
1.2s 1020.00nm 6.9mb X
Z 24s 0.60um 4.9mszX
TPC 84.56 53 iPd 01 53.50 -0.2

S.D. = 0.6 on 6 of 6 obs.
NOV 08, 1990 16h 49m 22.16 ± 0.23s

NOV 08, 1990 16h 20m 12.69 ± 3.28s
44.334 N ± 19.6km 8.527 E ± 23.6km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 1.8 (GEN).

PCP 0.21 4 P 20 17.18 -0.1
S 20 20.36
FIN 0.26 241 P 20 17.90 -0.3
S 20 22.11

ROB 0.47 265 P 20 21.70 -0.6
S 20 27.03
ENR 0.80 263 P 20 28.98 0.6
S 20 38.53

STV 0.87 264 P 20 30.00 0.5
S 20 40.11
PZZ 1.04 280 P 20 32.15 -0.2
S 20 43.84

14.054 S ± 5.6km 170.514 E ± 5.2km
DEPTH = 33.0km (normal)
5.0mb (11 obs.) 4.8msz (3 obs.)

VANUATU ISLANDS REGION (185)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 175, 27C

Centroid Location:
Origin Time 16:49:25.6 0.7
Lat 14.11S 0.08 Lon 170.25E 0.07

Dep 15.0 FIX Half-duration 1.8
Moment Tensor: Scale 10**16 Nm
Mrr=-2.88 0.45 Mtt= 4.10 0.71
Mff=-1.22 0.62 Mrt= 0.39 1.88
Mrf= 0.34 1.72 Mtf= 8.90 0.43

Principal Axes:
T Val= 10.75 Plg= 2 Azm=323
N -2.90 88 143
P -7.85 0 53

Best Double Couple: Mo=9.3*10**16
NP1:Strike= 98 Dip=88 Slip= 2
NP2: 8 88 178

PVC 4.23 210 iPd 50 24.70 -1.3
SVA 8.64 119 eP 51 28.00 0.1
DZM 8.86 205 iPd 51 30.60 -0.5

HNR 11.32 293 eP 52 04.00 -0.7
eS 54 10.00
SVO 11.56 294 eP 52 06.00 -1.9
BRS 21.21 228 iPd 54 08.40 1.0

i 54 21.60
COO 23.76 223 iPd 54 35.10 2.5
RMO 23.82 235 iPd 54 33.70 0.5

1.2s 382.00nm 5.8mb
CTA 23.94 252 iPd 54 35.20 0.8
1.9s 310.53nm 5.5mb

iS 58 52.00
MNG 26.82 172 P 54 59.90 -1.4
0.5s 19.00nm 5.0mb

WB5 35.01 255 eP 56 12.00 -1.9
ASPA 35.85 249 iPd 56 17.80 -3.3X
0.9s 19.90nm 5.0mb

Z 21s 1.70um 4.8msz
MAT 58.83 330 (P) 59 20.00 0.1
eS 07 26.00

SBA 63.84 181 iPd 59 53.30 0.2
CN2 70.74 327 eP 00 38.00 1.0
Z 20s 0.50um 4.8msz

eS 09 54.00
BJI 73.76 319 eP 01 04.50 9.6X
1.5s 26.00nm 5.0mb

Z 24s 0.38um 4.6mszX
TIY 74.93 316 eP 01 01.30 -0.7
Z 30s 0.80um 4.8mszX

SPA 76.04 180 iPd 01 07.00 -0.9
1.0s 10.00nm 4.8mb
HHC 77.14 318 eP 01 15.30 0.9

CHTO 77.69 293 eP 01 16.90 -0.8
1.0s 3.25nm 4.3mb
BTO 78.02 317 eP 01 19.00 -0.3

CD2 78.12 306 eP 01 24.00 4.1X
LZH 80.22 311 eP 01 31.30 -0.1
1.5s 28.00nm 5.0mb

Z 25s 0.83um 5.0mszX
TTA 81.04 15 eP 01 46.60 11.6X
PCC 81.14 48 eP 01 39.50 3.6X

PRS 81.39 49 eP 01 37.50 0.2
SYP 81.70 51 eP 01 39.00 -0.1
PRI 81.83 50 eP 01 39.90 0.2

PMR 81.85 18 eP 01 39.00 -0.1
WDC 82.35 45 eP 01 42.00 -0.2
ORV 82.64 46 eP 01 43.20 -0.5

CMB 82.80 48 eP 01 43.50 -1.2
FRI 82.88 49 eP 01 44.60 -0.4
MWC 83.05 52 eP 01 46.00 -0.2

TOA 83.16 19 eP 01 37.20 -8.8X
ISA 83.28 51 eP 01 47.00 -0.2
SBB 83.40 52 eP 01 47.00 -0.8

RVR 83.49 53 eP 01 48.00 -0.2
PLM 83.65 53 iPd 01 49.00 -0.3
CLC 84.00 51 iPd 01 51.00 0.2

IMA 84.22 14 eP 01 51.50 0.1
GSC 84.41 52 iPd 01 52.50 -0.4
GTA 84.50 313 eP 01 53.60 0.3

1.2s 1020.00nm 6.9mb X
Z 24s 0.60um 4.9mszX
TPC 84.56 53 iPd 01 53.50 -0.2

FBA 84.79 17 eP 01 54.00 -0.1
1.2s 2.30nm 4.2mb
PNT 87.93 38 eP 02 10.00 0.2
0.5s 6.00nm 5.1mb

ALO 92.34 55 eP 02 30.00 -1.0
1.2s 6.64nm 4.9mb
WMO 94.51 314 eP 02 41.20 0.6
GRR 145.03 350 ePKP 08 57.20 -0.5

0.9s 16.40nm
LOR 145.06 344 ePKP 08 58.40 0.5
1.0s 14.00nm
Z 20s 0.35um 5.1msz

SFI 145.08 333 PKP 08 56.00 -1.9
PGD 145.18 333 PKP 09 00.00 1.6
LBF 145.29 344 ePKP 08 59.10 0.8
1.0s 20.00nm

SSF 145.34 344 ePKP 08 59.60 1.3
1.0s 26.00nm
LPF 145.40 350 ePKP 08 58.40 0.0
1.0s 16.00nm

AVF 145.64 344 ePKP 09 00.50 1.7
1.2s 26.80nm
SMF 145.64 344 ePKP 09 00.40 1.5
1.0s 12.00nm

LPL 145.77 340 ePKP 09 01.70 2.3X
1.0s 10.00nm
LPG 145.78 340 ePKP 09 01.80 2.3X
1.0s 12.00nm

BGF 145.98 345 ePKP 09 00.30 0.9
1.0s 18.00nm
BNI 146.19 339 PKP 09 02.00 2.0X
MAF 146.37 345 ePKP 09 01.60 1.5

1.2s 11.90nm
BCAO 150.77 254 iPKPc 09 17.00 9.1X
0.5s 4.00nm
S.D. = 1.0 on 53 of 63 obs.

NOV 08, 1990 17h 21m 14.98 ± 0.58s
44.630 N ± 3.3km 6.779 E ± 5.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.1 (GEN), 2.0 (LDG).

PZZ 0.26 118 P 21 20.75 0.2
S 21 24.55
BHB 0.40 58 P 21 23.49 0.2
S 21 29.57

STV 0.55 134 P 21 27.01 0.9
S 21 33.14
ENR 0.61 131 P 21 27.36 0.0
S 21 34.80

RSP 0.62 33 P 21 27.83 0.2
S 21 36.96
ROB 0.85 113 P 21 31.11 -0.3
S 21 42.49

LPG 0.87 359 Pg 21 31.90 0.0
Sg 21 44.80
LSD 0.87 18 P 21 31.83 -0.1
S 21 44.13

LPL 0.89 358 P 21 32.00 -0.2
SBF 0.90 148 Pg 21 30.00 -2.3
Sg 21 42.50
FRF 1.07 185 Pg 21 34.90 -0.3
Sg 21 50.70

IMI 1.07 132 P 21 36.42 1.2
FIN 1.11 112 P 21 36.12 0.3
LRG 1.21 195 Pg 21 38.00 0.5
Sg 21 55.10

PCP 1.27 93 P 21 37.78 -0.7
LMR 1.31 189 Pg 21 39.60 0.4
Sg 21 56.90
S.D. = 0.8 on 16 of 16 obs.

NOV 08, 1990 17h 29m 57.86 ± 2.33s
61.869 N ± 14.5km 4.920 E ± 20.0km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 2.1 (BER).

SUE 0.82 185 eP 30 14.59 0.9
eS 30 25.38
HYA 0.93 139 eP 30 16.71 1.1
eS 30 29.96

ASK 1.40 174 eP 30 23.12 -0.2
eSg 30 42.65
MOL 1.42 59 iPd 30 24.24 0.6
eSg 30 43.18

08d 17h

KMY 2.67 176 eP 30 40.72 -0.9
 eS 31 09.85
 BLS2 2.77 158 eP 30 42.78 -0.4
 eS 31 13.14
 NRA0 3.39 107 Pn 30 50.70 -1.1
 Sg 31 41.30
 S.D. = 1.1 on 7 of 7 obs.

* NOV 08, 1990 17h 49m 50.70 ± 0.99s
 35.940 N ± 9.6km 35.968 E ± 11.6km
 DEPTH = 10.0km (geophysicist)
 JORDAN - SYRIA REGION (374)

GAZ 1.59 39 iPn 50 18.80 -0.1
 CSS 2.36 246 eP 50 28.80 -1.4
 HRI 2.67 184 eP 50 34.00 -0.6
 PPCY 3.14 251 eP 50 42.50 1.4
 SHMJ 3.21 183 Pd 50 43.20 1.0
 BURJ 3.69 182 Pd 50 49.50 0.4
 BBTk 4.65 328 eP 51 09.00 6.3X
 eS 52 23.00
 PRNI 5.64 189 eP 51 21.50 4.9X
 MBH 6.22 189 eP 51 24.00 -0.7
 S.D. = 1.2 on 7 of 9 obs.

% NOV 08, 1990 17h 58m 40.31 ± 2.90s
 44.610 N ± 8.6km 6.757 E ± 22.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.8 (GEN).

PZZ 0.27 113 P 58 46.01 0.0
 S 58 50.22
 BHB 0.43 57 P 58 48.99 -0.1
 S 58 53.81
 STV 0.55 132 P 58 51.24 -0.2
 S 58 58.63
 RSP 0.65 33 P 58 53.40 0.0
 S 59 00.47
 ROB 0.86 111 P 58 56.99 0.1
 S 59 09.08
 LSD 0.89 18 P 58 57.60 0.0
 S 59 10.21
 S.D. = 0.1 on 6 of 6 obs.

? NOV 08, 1990 18h 21m 37.65 ± 6.23s
 48.641 N ± 27.9km 2.126 W ± 41.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.0 (LDG).

GRR 0.88 106 Pg 21 54.40 -0.1
 Sg 22 00.40
 LPF 0.95 130 Pg 21 56.60 0.9
 Sg 22 04.00
 FLN 1.10 83 Pg 21 59.30 1.1
 Sg 22 08.60
 Sn 22 12.50
 LDF 1.33 91 Pg 22 03.20 1.0
 Sg 22 15.20
 MFF 2.44 146 Pn 22 19.70 1.5
 Pg 22 24.40
 Sg 22 51.60
 LSF 3.45 133 Pn 22 32.10 -0.3
 Pg 22 42.60
 Sg 23 21.60
 TCF 3.77 127 Pn 22 37.10 0.0
 Pg 22 48.20
 Sg 23 31.60
 BGF 3.96 120 Pn 22 40.00 0.3
 Pg 22 52.10
 Sg 23 36.20
 MAF 4.00 125 Pn 22 40.10 -0.2
 Pg 22 52.20
 Sg 23 39.00
 SSF 4.11 111 Pn 22 41.30 -0.5
 Pg 22 54.00
 Sg 23 40.00
 AVF 4.14 115 Pn 22 41.90 -0.3
 Pg 22 54.10
 Sg 23 42.50
 RJF 4.17 142 Pg 22 56.00 13.3X
 Sg 23 44.50
 LOR 4.25 107 Pn 22 42.60 -1.3
 Pg 22 56.40
 Sg 23 45.40
 LBF 4.43 110 Pn 22 44.70 -1.8

SMF 4.50 114 Pg 23 02.00 14.6X
 Sg 23 53.90
 CAF 4.70 141 Pn 22 50.00 -0.3
 Pg 23 06.30
 Sn 23 37.00
 Sg 24 00.80
 S.D. = 1.0 on 14 of 16 obs.

NOV 08, 1990 19h 38m 49.15 ± 0.81s
 47.672 N ± 6.8km 7.630 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.6 (LDG).

FEL 0.33 51 ePg 38 55.46 -0.6
 BSF 0.59 286 Pg 39 00.90 -0.2
 Sg 39 09.30
 CDF 0.78 342 Pg 39 05.50 1.1
 Sg 39 17.70
 HAU 0.93 292 Pn 39 06.10 -0.8
 Pg 39 06.70
 Sg 39 20.50
 LPL 2.24 196 Pg 39 27.40 0.3
 LPG 2.26 196 Pg 39 27.50 0.1
 LBF 2.58 256 Pg 39 35.80 4.1X
 Sg 40 07.30
 LOR 2.59 262 Pg 39 36.60 4.8X
 Sg 40 08.50
 SMF 2.78 250 Pg 39 39.40 4.8X
 Sg 40 14.20
 BGF 3.45 253 Pg 39 52.00 8.0X
 Sg 40 36.00
 S.D. = 0.9 on 6 of 10 obs.

NOV 08, 1990 19h 50m 22.80 ± 0.89s
 39.464 N ± 6.0km 26.157 E ± 11.0km
 DEPTH = 1.0km (geophysicist)
 TURKEY (366)
 MD 3.4 (ISK), 3.3 (ATH).

PRK 0.24 158 iPg 50 20.50 1.0
 EZN 0.38 20 iPg 50 32.70 2.2
 IZM 1.37 141 ePn 50 47.50 -1.5
 EDC 1.58 56 ePn 50 51.00 -1.0
 BNT 1.62 56 ePn 50 52.40 -0.2
 RDO 1.75 344 ePb 50 54.00 -0.4
 SMG 1.83 163 ePb 50 56.70 1.1
 eSb 51 22.00
 KDZ 2.25 346 iPd 51 02.00 0.2
 RZN 2.48 334 eP 51 04.00 -1.2
 IZI 2.70 70 ePn 51 07.90 -0.3
 S.D. = 1.3 on 10 of 10 obs.

* NOV 08, 1990 20h 02m 16.43s
 63.372 N 150.997 W
 DEPTH = 9.3km
 CENTRAL ALASKA (1)
 <AGS-P>.

RND 0.97 87 eP 02 34.83 -0.1
 eS 02 50.55
 CUT 1.03 161 eP 02 35.81 -0.1
 eS 02 51.39
 SKT 1.42 190 eP 02 41.86 -0.5
 PWA 1.80 163 eP 02 48.97 1.1
 GHO 1.87 148 eP 02 49.63 0.7
 CCB 1.90 46 eP 02 49.58 0.3
 eS 03 14.39
 MDM 2.00 36 eP 02 50.69 -0.1
 eS 03 16.42
 NCG 2.05 196 eP 02 50.63 -0.9
 CGLM 2.13 193 eP 02 52.63 0.0
 eS 03 20.62
 BGL 2.21 198 eP 02 55.17 1.2
 PMS 2.24 162 eP 02 55.74 1.5
 CKL 2.27 197 eP 02 54.98 0.2
 KNK 2.30 148 eP 02 55.46 0.4
 eS 03 25.23
 13 obs. associated

* NOV 08, 1990 20h 04m 08.10 ± 1.98s
 36.341 N ± 21.3km 69.980 E ± 10.3km
 DEPTH = 141.5 ± 32.7 km
 3.8mb (2 obs.)
 HINDU KUSH REGION (718)

QUE 6.64 203 eP 05 44.80 0.2
 MAIO 8.46 273 ePn 06 09.00 -0.1
 eSn 07 39.00
 NDI 9.78 139 eP 06 26.00 -0.4
 GKN 14.93 120 P 07 32.40 -0.8
 DMN 15.49 120 P 07 40.90 0.5
 KKN 15.51 119 P 07 40.80 0.3
 PKI 15.73 119 P 07 43.40 0.0
 GUN 15.86 118 P 07 45.60 0.5
 HYB 20.32 156 eP 08 41.50 6.5X
 GBA 23.61 162 Pc 09 14.70 7.6X
 0.6s 3.10nm 4.0mb
 CHTO 30.88 117 eP 10 13.00 -0.1
 1.0s 1.50nm 3.7mb
 S.D. = 0.5 on 9 of 11 obs.

* NOV 08, 1990 20h 38m 19.94 ± 0.73s
 4.800 S ± 9.4km 151.749 E ± 8.3km
 DEPTH = 162.5 ± 8.1 km
 4.7mb (8 obs.)
 NEW BRITAIN REGION (192)

RAB 0.74 35 iPc 38 44.00 -0.3
 iS 39 00.00
 PMG 6.46 225 eP 39 54.50 0.7
 eS 41 10.00
 SVO 9.10 119 P 40 29.00 0.1
 HNR 9.35 120 eP 40 32.00 -0.2
 eS 42 30.00
 OIS 19.62 216 eP 42 38.00 0.0
 MTN 21.87 247 eP 43 02.30 1.8
 WBS 22.61 227 iPc 43 08.80 1.1
 e 47 08.90
 ASPA 25.46 221 eP 43 32.10 -2.5
 0.5s 8.70nm 4.6mb
 eS 47 47.30
 WARB 32.08 226 iPc 44 33.70 0.1
 0.3s 6.00nm 4.8mb
 FORR 34.16 218 iPc 44 50.60 -0.9
 0.4s 34.00nm 5.4mb
 NANU 39.21 240 eP 45 33.20 -0.7
 0.4s 5.00nm 4.6mb
 CHTO 57.04 296 eP 47 52.20 0.7
 1.0s 4.75nm 4.3mb
 GUN 71.23 301 P 49 23.80 -0.2
 PKI 71.53 301 P 49 25.40 -0.4
 KKN 71.70 301 P 49 26.20 -0.4
 0.6s 11.00nm 4.8mb
 DMN 71.80 301 P 49 27.00 -0.3
 0.6s 11.00nm 4.8mb
 GKN 72.31 301 P 49 29.60 -0.5
 0.6s 11.00nm 4.8mb
 CNCB 135.25 120 ePKP 57 25.00 1.5
 i 57 38.00
 e 21 02.30
 ZOBO 135.35 119 PKP 57 24.00 0.3
 Z 24s 0.15um 4.6mszx
 i 57 32.00
 SKS 02 04.00
 LR 48 10.00
 S.D. = 1.0 on 19 of 19 obs.

* NOV 08, 1990 20h 53m 39.41 ± 0.93s
 3.754 S ± 9.1km 77.950 W ± 25.0km
 DEPTH = 10.0km (geophysicist)
 PERU-ECUADOR BORDER REGION (110)

TUNG 2.37 348 eP 54 19.50 0.2
 S 54 47.50
 VC1 3.13 352 P 54 30.50 0.3
 QTO 3.58 351 eP 54 44.00 7.5X
 QUR 3.60 351 eP 54 43.80 6.9X
 GGP 3.61 350 eP 54 41.00 3.8X
 YANA 3.67 350 eP 54 42.40 4.5X
 CAYA 3.81 359 eP 54 39.50 -0.4
 COTA 4.08 355 eP 54 49.50 5.8X
 NNA 8.25 172 iP 55 42.00 -0.1
 0.6s 8.00nm 5.2mb X
 e 55 52.20
 eS 57 14.00
 LPB 15.97 143 (P) 57 32.00 5.7X
 e 02 17.00
 SIV 20.57 127 iPc 58 21.80 0.5
 KIC 73.78 82 P 05 15.90 -0.5
 GKN 150.73 33 PKP 13 34.80 6.2X
 KKN 151.24 32 PKP 13 36.00 6.5X
 GUN 151.46 31 PKP 13 40.00 10.0X

PKI 151.48 32 PKP 13 36.40 6.4X
S.D. = 0.5 on 6 of 16 obs.

NOV 08, 1990 21h 26m 58.08 ± 0.92s
16.093 N ± 9.2km 95.745 W ± 8.1km
DEPTH = 60.3 ± 9.0 km
4.4mb (5 obs.)

OAXACA, MEXICO
Felt at Oaxaca.

OXX 1.36 316 iP 27 20.06 -1.3
iS 27 37.26
EVV 2.38 9 iP 27 37.50 2.1
iS 28 09.58
SCX 3.05 77 iP 27 48.85 3.9X
iS 28 28.84
IISM 3.27 332 iP 27 48.49 0.5
iS 28 30.96
TPX 3.56 109 iP 27 52.02 -0.1
(S) 28 29.60
LVVM 3.69 350 (P) 27 59.11 5.3X
(S) 28 45.84
IIT 3.80 320 iP 27 56.66 0.9
(S) 28 44.00
ACX 4.02 282 iP 27 53.57 -5.0X
(S) 28 31.66
PPM 4.04 318 iP 27 58.37 -0.9
iS 28 45.64
IIA 4.12 318 iP 28 00.88 1.0
(S) 29 04.17
III 4.22 303 iP 28 00.59 -1.0
(S) 28 42.85
UNM 4.59 315 (P) 28 18.00 11.1X
CRX 4.99 312 (P) 28 12.00 -0.6
MRX 6.31 306 (P) 28 06.50 -24.1X
(S) 29 37.00
UYO 18.03 3 iPd 31 05.80 -0.3
MEO 18.79 353 iPc 31 14.80 -0.5
ALO 21.09 335 ePd 31 39.70 -0.1
1.0s 17.00nm 4.3mb
e 31 52.00
ANMO 21.09 335 P 31 39.70 -0.1
1.0s 15.63nm 4.3mb
RSCP 21.45 23 P 31 41.00 -2.2
ELC 21.88 14 P 31 47.00 -0.5
TKL 22.23 27 P 31 50.00 -0.9
JSC 22.31 33 P 31 51.00 -0.7
LHS 22.70 33 P 31 56.00 0.5
GOL 24.98 342 P 32 19.00 1.2
0.8s 11.16nm 4.4mb
PLM 25.67 316 P 32 25.00 0.7
ZOBO 42.15 138 eP 34 35.00 -12.1X
LPB 42.36 139 P 34 42.00 -6.7X
CNCP 42.64 139 P 34 52.00 0.8
SIV 46.77 131 Pc 35 23.40 -0.2
i 35 32.20
YKA 48.21 348 eP 35 52.20 17.9X
0.8s 2.90nm
FRB 51.17 15 eP 35 58.00 1.1
INK 57.44 344 eP 36 44.00 1.4
NAO 83.93 28 P 39 21.40 -1.2
1.0s 4.20nm 4.4mb
LKO 87.55 81 P 39 46.10 4.8X
0.7s 8.00nm 5.0mb
HYB 146.23 10 ePKP 46 49.00 15.9X
S.D. = 1.1 on 25 of 35 obs.

NOV 08, 1990 23h 18m 25.65 ± 0.81s
28.123 N ± 8.6km 55.426 E ± 4.9km
DEPTH = 58.3 ± 11.2 km
4.0mb (1 obs.)

SOUTHERN IRAN (353)

SHI 2.96 301 eP 19 11.00 -0.4
eS 19 46.00
BBU 4.82 248 iPn 19 36.90 -0.4
eSn 20 24.50
BEE 4.85 245 ePn 19 37.00 0.1
MAIO 8.85 22 eP 20 34.00 0.5
eS 22 31.00
MJMA 9.32 258 eP 20 35.50 -4.5X
OUE 10.28 76 eP 20 53.00 -0.3
QASM 10.79 262 eP 20 55.50 -4.5X
AFIF 11.71 253 eP 21 12.50 0.1
PRNI 17.97 282 eP 22 34.00 1.1
HYB 23.80 112 eP 23 37.50 3.5X
GKN 25.75 83 P 23 52.40 -0.3

DMN 26.22 84 P 23 57.80 0.7
KKN 26.35 84 P 23 58.40 0.1
PKI 26.49 84 P 23 59.40 -0.3
GUN 26.85 83 P 24 03.20 0.1
KHC 38.21 315 P 25 41.40 0.0
NB2 44.13 331 P 26 28.80 -1.0
0.8s 2.50nm 4.0mb
S.D. = 0.6 on 14 of 17 obs.

* NOV 09, 1990 00h 11m 55.57 ± 0.90s
50.662 N ± 6.6km 7.115 E ± 9.5km
DEPTH = 10.0km (geophysicist)

GERMANY (543)
ML 2.0 (BNS).

BNS 0.30 7 iPg 12 01.90 0.0
0.3s 365.00nm
eSg 12 06.10
MEM 0.71 266 iPc 12 08.90 -0.6
i 12 18.90
iS 12 21.50
ABH 0.83 160 ePn 12 11.66 0.0
RUP 0.96 182 ePn 12 13.70 -0.2
DOU 1.71 252 iP 12 26.30 0.8
iS 12 47.30
S.D. = 0.7 on 5 of 5 obs.

% NOV 09, 1990 02h 05m 06.10 ± 2.77s
0.331 N ± 18.7km 78.124 W ± 12.2km
DEPTH = 10.0km (geophysicist)

COLOMBIA-ECUADOR BORDER REGION (106)

COTA 0.21 271 iP+ 05 11.20 0.2
S 05 15.00
CAYA 0.29 151 iP 05 12.10 -0.2
S 05 17.10
YANA 0.63 225 eP 05 18.60 -0.5
S 05 30.70
QUR 0.64 219 eP 05 19.20 -0.1
S 05 28.60
GGP 0.69 223 iPd 05 20.00 -0.2
ANGL 0.92 141 iP 05 12.30 -11.7X
eS 05 17.30
VC1 1.00 196 iP+ 05 26.20 0.7
iS 05 43.00
S.D. = 0.5 on 6 of 7 obs.

% NOV 09, 1990 03h 06m 02.72 ± 0.66s
60.522 N ± 5.7km 5.348 E ± 8.4km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.8 (BER).

ASK 0.09 243 iPd 06 05.81 0.6
eS 06 07.16
BER 0.14 183 eP 06 06.86 0.9
eS 06 08.30
SUE 0.61 332 iPc 06 14.37 -0.6
eS 06 22.25
HYA 0.77 32 eP 06 19.17 1.5
eS 06 30.55
KMY 1.32 182 eP 06 26.07 -0.9
eS 06 41.00
BLS2 1.47 146 eP 06 29.19 -0.1
eS 06 49.49
MOL 2.31 26 eP 06 40.43 -0.9
eSg 07 15.74
NRA0 3.06 83 Pn 06 51.60 -0.4
Lg 07 46.00
S.D. = 1.1 on 8 of 8 obs.

% NOV 09, 1990 03h 09m 24.26 ± 0.99s
60.520 N ± 5.6km 5.111 E ± 11.9km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.2 (BER).

ASK 0.06 132 iPd 09 27.53 1.1
eS 09 28.94
BER 0.18 141 eP 09 28.60 0.4
eS 09 29.93
SUE 0.57 342 iPc 09 36.05 0.3
eS 09 43.96
HYA 0.84 39 eP 09 40.89 0.5
eS 09 52.33
KMY 1.31 177 eP 09 47.71 -0.8
eS 10 02.19

BLS2 1.53 143 eP 09 52.16 0.4
eSg 10 11.26
MOL 2.37 29 eP 10 03.29 -0.4
eSg 10 37.54
NRA0 3.18 83 Pn 10 13.70 -1.5
Lg 11 07.70
S.D. = 1.0 on 8 of 8 obs.

NOV 09, 1990 03h 27m 35.10 ± 0.73s
31.073 S ± 7.5km 70.137 W ± 9.7km
DEPTH = 135.9 ± 11.8 km

CHILE-ARGENTINA BORDER REGION (127)

RTBS 0.83 135 iPc 27 57.00 -0.3
RTS 1.07 33 iPd 27 59.90 0.5
RTCB 1.22 110 eP 28 01.00 0.0
ZON 1.33 111 iPc 27 55.30 -6.9X
eS 28 13.30
RTLL 1.45 101 iP 28 00.10 -3.4X
RTCV 1.58 120 iPd 28 04.40 -0.5
JACH 1.65 193 iPd 28 06.00 0.2
iS 28 29.20
CFA 1.71 109 eP 28 05.90 -0.5
ROCH 2.03 201 iPc 28 10.00 -0.5
iS 28 36.50
MDZ 2.11 149 iP 28 12.00 0.8
iS 28 37.30
PEL 2.12 193 iP 28 11.40 0.1
i 28 38.00
iS 28 40.40
FCH 2.25 183 iPd 28 14.40 1.1
iS 28 44.00
SAN 2.41 190 iPd 28 15.00 0.0
iS 28 45.50
PCH 2.56 187 iPd 28 17.20 0.3
iS 28 29.80
LCCH 2.69 206 iPc 28 17.70 -0.7
CHCH 2.89 189 iPd 28 20.70 -0.4
iS 28 56.10
SIV 17.15 31 P 31 27.90 0.0
S.D. = 0.6 on 15 of 17 obs.

& NOV 09, 1990 03h 39m 15.90s
36.540 N 89.620 W
DEPTH = 8.9km

NEW MADRID, MISSOURI REGION (486)

<SLM>. MD 3.4 (SLM). mblg 3.6
(NEIS). Felt (V) at Conron,
Dexter and Morston; (IV) at Cape
Girardeau, Coiron, Lilbourn, New
Madrid and Portageville; (III)
at Canolou, Jackson, Keweenaw,
Matthews, Parma and Risco,
Missouri. Felt (IV) at
Tiptonville and Wynnburg,
Tennessee. Also felt at Samburg,
Tennessee and Paducah, Kentucky.

NRMS 0.06 154 iPc 39 17.92 0.0
NMMO 0.07 49 iPd 39 18.38 0.3
LDMO 0.14 160 iPc 39 19.10 0.1
S 39 21.94
OGTN 0.16 138 iPc 39 19.60 0.1
CBD 0.22 186 iPc 39 20.68 0.0
DWM 0.28 22 iPc 39 21.82 0.0
S 39 25.66
ACTN 0.32 128 eP 39 22.41 0.0
GRT 0.32 150 iPc 39 22.41 0.0
HATI 0.37 187 eP 39 22.58 -0.8
S 39 27.13
OHTN 0.40 168 iPc 39 23.82 -0.2
S 39 29.73
MFTN 0.42 154 iPc 39 24.30 -0.1
DRTN 0.45 153 iPc 39 24.82 -0.2
eS 39 31.08
ECD 0.54 208 eP 39 26.54 -0.3
S 39 33.83
UTMA 0.57 115 iPd 39 27.58 0.1
DON 0.68 339 iPc 39 28.80 -0.7
S 39 37.26
ELC 0.81 23 iPc 39 30.89 -0.8
S 39 41.86
WGAR 0.83 214 ePc 39 31.80 -0.2
S 39 43.13
MILT 1.00 134 eP 39 35.26 0.4
LRDO 1.04 237 eP 39 34.94 -0.7
eS 39 48.60

09d 03h

JHP 1.18 218 eP 39 37.74 -0.2
S 39 53.43
SFTN 1.22 195 iPc 39 38.42 -0.3
eS 39 55.14
CSIL 1.28 31 ePd 39 39.33 -0.3
S 39 56.06
EBZ 1.41 171 eP 39 41.12 -0.6
eS 40 00.46
FVM 1.58 336 iPc 39 44.20 0.1
AFAR 1.60 256 iPd 39 44.44 0.1
eS 40 05.24
WLA 1.62 214 eP 39 44.52 -0.1
eS 40 06.66
OLY 1.82 236 eP 39 47.32 -0.3
eS 40 12.02
CCM 1.99 320 eP 39 51.08 1.0
S 40 18.09
PWLA 2.01 140 eP 39 49.28 -1.0
LGAR 2.06 204 eP 39 50.80 -0.4
eS 40 18.76
HOGG 2.50 239 eP 39 57.30 -0.1
RSCP 3.41 105 eP 40 10.10 -0.3
GBTN 4.47 100 eP 40 24.60 -0.7
UYO 4.61 241 iPc 40 27.10 -0.3
TKL 4.81 99 eP 40 29.00 -1.3
BLA 7.40 82 eP 41 06.00 -0.8
MEO 7.50 259 e(P) 41 03.30 -4.9
GOL 12.80 289 e(P) 42 21.00 0.0
38 obs. associated

& NOV 09, 1990 07h 11m 19.80s
34.430 N 116.810 W
DEPTH = 4.0km
SOUTHERN CALIFORNIA (43)
<PAS>. ML 3.5 (PAS). Felt (IV)
at Fawnskin and (II) at Big Bear
City.

PEC 0.61 209 iPc 11 31.40 -0.6
TPC 0.71 117 ePd 11 33.40 -0.6
GSC 0.87 0 iPd 11 36.50 -0.6
SBB 0.88 287 iPc 11 36.30 -0.9
MWC 1.05 259 iPc 11 39.40 -0.9
PLM 1.07 182 iP 11 40.00 -0.7
CLC 1.53 335 ePd 11 46.80 -1.1
ABL 2.03 283 eP 11 54.30 -1.1
GLA 2.15 129 eP 11 56.50 -0.4
BCH 2.80 287 eP 12 03.70 -2.6
BLP 2.97 274 eP 12 07.00 -1.6
PHAM 3.26 297 eP 12 11.80 -0.9
TNP 3.66 355 eP 12 17.80 -0.8
CMB 4.61 322 e(P) 12 31.00 -1.0
14 obs. associated

& NOV 09, 1990 07h 12m 27.30s
34.430 N 116.800 W
DEPTH = 3.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS).

PEC 0.61 209 eP 12 39.00 -0.6
RVR 0.65 228 iPc 12 39.40 -0.8
SBB 0.88 287 eP 12 43.90 -1.1
PLM 1.08 183 eP 12 47.00 -1.3
4 obs. associated

NOV 09, 1990 07h 55m 49.42 ± 0.59s
38.566 N ± 5.3km 21.621 E ± 5.9km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
GREECE (364)
ML 3.3 (ATH). 3.2 (THE).

EVR 0.38 23 ePg 55 55.50 -1.7
AGG 0.72 50 ePc 56 02.04 -1.5
eS 56 11.84
VLS 0.90 245 ePg 56 04.00 -2.7
IGT 1.39 314 ePc 56 14.80 -0.1
eS 56 35.76
ITM 1.41 170 ePb 56 15.00 -0.1
NEO 1.45 59 ePb 56 15.50 -0.2
LIT 1.67 23 iPd 56 18.60 -0.3
eS 56 41.56
KZN 1.74 4 ePn 56 20.50 0.6
ATH 1.75 109 ePg 56 24.00 4.0X
LSK 1.77 334 iPn 56 21.10 0.8
PAIG 2.10 49 ePc 56 24.68 -0.3

VLI 2.12 150 ePb 56 27.50 2.1
TPE 2.13 325 ePn 56 25.80 0.3
FNA 2.22 355 ePc 56 27.60 0.7
eS 56 55.96
PLG 2.29 37 ePn 56 28.50 0.6
GRG 2.46 14 ePd 56 30.48 0.2
BERA 2.49 329 ePn 56 31.20 0.6
OHR 2.62 346 iPn 56 34.20 1.7
0.9s 185.00nm
iSn 57 11.00
Lg 57 23.40
SOH 2.62 30 ePc 56 32.88 0.4
KNT 2.77 20 eP 56 34.48 -0.2
eS 57 09.44
VAY 2.85 15 ePn 56 35.70 0.0
SRS 2.97 30 ePd 56 36.56 -0.8
TIR 3.09 335 ePn 56 46.50 7.5X
SKO 3.40 358 ePn 56 55.46 -8.2X
SDA 3.81 335 ePn 56 53.50 4.2X
NB2 23.42 347 P 00 55.80 -3.4X
0.6s 0.70nm 3.4mb
S.D. = 1.1 on 21 of 26 obs.

% NOV 09, 1990 08h 36m 45.92 ± 1.05s
39.074 N ± 7.8km 27.633 E ± 12.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

Izm 0.74 203 ePg 37 00.30 -0.1
eSg 37 14.30
EZN 1.26 307 ePn 37 09.50 0.2
EDC 1.28 8 ePn 37 09.00 -0.7
BNT 1.30 10 ePn 37 10.00 0.0
KCT 1.30 25 ePn 37 10.50 0.5
S.D. = 0.6 on 5 of 5 obs.

NOV 09, 1990 09h 05m 30.63 ± 0.62s
38.560 N ± 5.4km 21.625 E ± 5.9km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 3.0 (THE). MD 3.2 (ATH).

EVR 0.38 22 ePg 05 37.00 -1.4
AGG 0.72 50 ePd 05 43.46 -1.5
eS 05 54.86
VLS 0.90 245 ePg 05 45.60 -2.7
IGT 1.40 314 ePc 05 57.22 0.4
eS 06 19.22
ITM 1.40 170 ePg 05 56.80 0.0
NEO 1.45 59 ePb 05 57.00 -0.6
LIT 1.68 23 ePc 06 00.30 -0.5
eS 06 24.46
KZN 1.75 4 ePn 06 02.00 0.2
LSK 1.78 334 ePn 06 02.50 0.2
KEK 1.83 310 ePg 06 04.00 1.1
VLI 2.11 150 ePb 06 09.00 1.9
TPE 2.14 325 ePn 06 07.00 -0.4
FNA 2.23 355 ePc 06 09.74 0.9
eS 06 39.86
PLG 2.29 37 ePn 06 10.50 0.7
BERA 2.50 329 ePn 06 12.40 -0.2
SOH 2.62 30 eP 06 14.70 0.3
OHR 2.63 346 ePn 06 16.50 2.0
KNT 2.78 20 eP 06 16.30 -0.3
VAY 2.85 14 ePn 06 18.00 0.4
TIR 3.09 335 ePn 06 29.50 8.5X
PHP 3.25 344 ePn 06 28.60 5.3X
SKO 3.41 358 ePn 06 25.00 -0.6
S.D. = 1.2 on 20 of 22 obs.

% NOV 09, 1990 10h 34m 03.11 ± 0.72s
44.333 N ± 5.8km 8.249 E ± 5.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

FIN 0.13 193 P 34 06.24 0.0
S 34 08.39
ROB 0.27 262 P 34 09.11 0.2
S 34 13.51
PCP 0.30 45 P 34 09.31 0.0
S 34 14.03
IMI 0.50 212 P 34 13.31 0.1
ENR 0.60 260 P 34 15.22 -0.2
S 34 23.32
STV 0.67 263 P 34 16.41 -0.1

S 34 25.10
PZZ 0.84 282 P 34 19.08 -0.4
BHB 0.87 306 P 34 20.20 0.4
S.D. = 0.3 on 8 of 8 obs.

NOV 09, 1990 10h 39m 19.08 ± 0.52s
8.133 S ± 5.7km 74.412 W ± 6.5km
DEPTH = 147.5 ± 5.7 km
4.8mb (30 obs.)

PERU-BRAZIL BORDER REGION (112)

NNA 4.52 212 iPd 40 27.70 0.8
0.8s 167.91nm
iS 41 14.50
TUNG 7.79 329 eP 41 09.00 -2.2
VC1 8.44 332 P 41 20.50 0.4
ARE 8.76 161 e(P) 41 32.00 7.9X
CAYA 8.90 336 P 41 26.00 -0.2
GGP 8.94 332 eP 41 28.00 1.2
COTA 9.28 335 eP 41 32.50 1.3
PSO 9.71 342 iPd 41 37.00 0.2
ZOB0 10.16 143 P 41 42.00 -0.9
(S) 43 12.00
LPB 10.38 144 P 41 46.80 1.1
CNCB 10.67 145 P 41 50.00 0.4
BOG 12.68 2 eP 42 21.00 5.4X
SIV 15.20 122 P 42 46.60 -0.8
PPD 26.18 124 eP 44 40.10 -1.7
e 44 45.80
BAO 26.89 109 ePd 44 47.60 -0.8
OLY 46.29 341 eP 47 30.00 -1.6
e 47 44.00
e 48 08.50
FVM 48.25 343 eP 47 46.60 -0.2
i 47 59.30
e 48 38.50
MEO 48.42 333 iPc 47 48.00 -0.2
ALO 52.46 327 ePd 48 18.70 -0.4
1.0s 11.75nm 4.6mb
e 48 53.00
ANMO 52.46 327 iPc 48 18.70 -0.4
1.1s 12.66nm 4.6mb
i 48 52.00
i 48 55.50
PLM 57.69 318 P 48 56.90 0.2
PEC 58.21 318 P 49 00.20 0.0
DAU 59.05 328 P 49 05.90 -0.3
DUG 59.74 327 iP 49 10.60 -0.1
e 49 30.00
e 49 44.70
BW06 59.93 331 P 49 10.70 -1.4
1.2s 6.85nm 4.5mb
ABL 60.15 318 P 49 13.00 -0.7
BLP 60.77 317 P 49 17.00 -0.6
TNP 60.86 322 iPc 49 18.00 -0.5
0.7s 4.07nm 4.5mb
i 49 52.60
i 49 56.50
ARN 63.13 319 P 49 33.50 0.2
ORV 64.40 321 eP 49 42.00 0.4
e 50 16.80
LBFM 65.71 322 P 49 49.70 -0.5
SES 66.39 335 eP 49 54.00 -0.1
PNT 69.50 330 eP 50 14.00 0.6
0.7s 9.00nm 4.7mb
LIC 70.64 80 P 50 19.58 -1.4
TIC 70.73 80 P 50 20.16 -1.4
KIC 70.95 80 P 50 21.30 -1.5
0.7s 46.00nm 5.4mb
AFC 79.97 50 eP 51 14.80 1.2
EVIA 81.18 49 eP 51 21.00 1.1
ETOR 82.17 47 eP 51 26.00 1.0
ECHE 82.60 48 eP 51 28.50 1.4
BTH 84.17 45 iPc 51 36.00 1.1
EPF 84.53 45 eP 51 37.70 0.9
0.9s 13.90nm 4.8mb
LPF 85.07 40 eP 51 39.20 -0.1
0.8s 16.10nm 4.9mb
MFF 85.22 42 eP 51 40.40 0.3
0.6s 12.65nm 4.9mb
GRR 85.29 40 eP 51 40.40 0.0
1.6s 10.80nm 4.4mb
LFF 85.34 44 eP 51 40.90 0.2
0.8s 29.55nm 5.2mb
LPO 85.57 44 eP 51 42.20 0.3
0.8s 21.50nm 5.0mb
FLN 85.64 40 eP 51 42.30 0.1

0.7s	11.00nm	4.8mb	Sg	59 17.10	PWA	1.64 162 eP	35 22.30	0.3
LDF 85.82	40 eP	51 42.90 -0.1	SBF 0.88	83 Pg	59 16.10 -1.1	eS	35 44.96	
0.6s	6.30nm	4.6mb	STV 0.93	58 Pd	59 17.49 -0.6	GHO	1.72 147 eP	35 23.14 -0.1
RJF 85.97	43 eP	51 44.00 0.1		S	59 28.84	eS	35 46.44	
1.0s	12.00nm	4.7mb	PZZ 0.98	40 Pd	59 18.65 -0.3	WRH	1.78 44 eP	35 22.56 -1.4
EKA 86.19	33 Pd	51 45.70 1.0		S	59 31.87	PLRM	1.83 152 eP	35 24.84 0.1
2.4s	68.70nm	5.1mb	ENR 0.98	61 Pd	59 18.47 -0.5	PMR	1.83 152 ePc	35 25.10 0.4
INK 86.64	341 eP	51 47.00 0.3		S	59 31.87	SML	1.85 138 eP	35 25.04 -0.1
MAF 86.92	43 eP	51 48.50 0.0	IMI 1.22	82 P	59 23.57 0.7	NCG	1.91 198 eP	35 24.99 -1.0
0.8s	8.05nm	4.7mb	RRL 1.23	19 P	59 23.92 0.7	CGLM	1.98 195 eP	35 26.06 -0.9
BGF 87.19	42 eP	51 49.70 -0.1		S	59 39.51	CCB	1.99 42 eP	35 24.80 -2.2
0.8s	12.10nm	4.9mb	ROB 1.31	65 P	59 24.53 0.1	CRP	2.04 197 eP	35 27.07 -0.9
AVF 87.59	42 eP	51 51.30 -0.3		S	59 41.47	BGL	2.08 200 eP	35 27.99 -0.4
0.6s	4.05nm	4.6mb	BHB 1.32	34 P	59 24.35 -0.2	PMS	2.08 162 eP	35 28.97 0.6
SMF 87.88	42 eP	51 52.80 -0.3		S	59 42.35	eS	35 55.07	
0.7s	8.25nm	4.9mb	BNI 1.34	14 P	59 25.60 0.7	SPU	2.11 195 eP	35 28.57 -0.3
LOR 88.04	42 eP	51 53.20 -0.6		eSg	59 45.60	MDM	2.11 33 eP	35 26.35 -2.5
0.8s	8.05nm	4.8mb	FIN 1.50	72 P	59 28.09 0.9	HDA	2.13 54 eP	35 28.62 -0.4
LMR 88.97	46 eP	51 58.20 -0.1		S	59 45.76	CKL	2.13 199 eP	35 28.84 -0.4
0.8s	10.75nm	4.9mb	RSP 1.58	28 P	59 29.76 1.4	KNK	2.14 146 eP	35 29.88 0.6
FRF 89.12	46 eP	51 58.90 -0.1		S	59 47.54	SCM	2.17 128 eP	35 29.74 0.0
0.8s	9.40nm	4.9mb	CKI 1.63	65 Pd	59 30.70 1.8	FBA	2.18 38 iPc	35 31.00 1.2
LPL 89.59	44 eP	52 02.00 0.6		eSg	59 51.50	TTA	2.34 265 eP	35 31.80 -0.3
0.6s	11.70nm	5.1mb	LPG 1.78	12 Pg	59 33.70 2.3	DDM	2.34 74 eP	35 33.89 1.8
LPG 89.59	44 eP	52 02.20 0.6		Sg	59 57.40	GLM	2.36 39 eP	35 30.86 -1.5
0.6s	14.45nm	5.2mb	LPL 1.80	12 Pg	59 34.30 2.7	TOA	2.46 115 ePd	35 34.40 0.6
BSF 90.11	42 eP	52 03.20 -0.4		Sg	59 58.20	NKA	2.49 184 eP	35 36.28 2.2
0.6s	3.60nm	4.6mb	LSD 1.83	21 P	59 33.79 1.7	PAX	2.49 93 eP	35 35.13 0.8
CDF 90.54	41 eP	52 05.30 -0.3		S	59 56.25	SDG	2.56 103 eP	35 36.12 0.9
0.6s	3.60nm	4.6mb	PCP 1.85	64 P	59 33.15 1.0	SLKM	2.74 173 eP	35 38.12 0.4
BCAO 93.53	86 iPc	52 21.30 1.3		S	59 55.00	RDT	2.74 196 eP	35 37.19 -0.7
0.5s	5.00nm	5.0mb	ORX 2.26	33 P	59 39.19 1.0	NCT	2.83 201 eP	35 39.78 0.7
	ic	55 22.00		S	00 03.36	RDN	2.85 199 eP	35 38.67 -0.7
NB2 94.93	29 P	52 26.20 0.7	PGF 2.36	120 Pn	59 38.70 -1.0	REF	2.86 198 eP	35 39.19 -0.5
0.8s	3.80nm	4.8mb		Sn	00 06.50	RS2	2.90 198 eP	35 41.17 1.0
HFS 96.04	30 eP	52 30.00 -0.5	BOB 2.53	65 P	59 43.40 1.4	RSO	2.90 198 eP	35 40.01 -0.1
0.7s	4.60nm	5.0mb	MDI 3.20	50 P	59 52.00 0.6	KLU	2.90 124 eP	35 40.67 0.6
WRA 140.26	225 PKP	58 53.00 20.0X	CAF 3.20	293 Pn	59 51.80 0.3	GLI	2.96 141 eP	35 42.02 1.3
0.4s	1305.00nm		SMF 3.34	331 Pn	59 53.30 -0.2	VLZ	3.00 132 eP	35 42.13 0.8
NDI 146.36	49 ePKP	58 45.00 1.8		Sn	00 31.90	IMA	3.10 339 eP	35 38.90 -4.1
GBA 151.84	76 PKPd	58 59.20 7.2X	MAF 3.58	315 Pn	59 56.60 -0.2	DOT	3.11 79 eP	35 43.59 0.5
0.8s	7.80nm		LBF 3.59	335 Pn	59 56.60 -0.5	KNIM	3.25 151 eP	35 44.44 -0.6
GKN 152.03	42 PKP	58 59.20 7.0X		Pg	00 08.40	GLB	3.76 115 eP	35 53.40 1.1
0.6s	25.00nm			Sn	00 36.60	PDB	3.78 206 eP	35 50.97 -1.5
KOD 152.17	84 ePKP	59 01.00 8.1X		Sg	00 55.00	BALM	4.58 115 eP	36 03.82 -0.2
KKN 152.60	42 PKP	59 00.80 7.7X	AVF 3.65	327 Pn	59 57.80 0.0		50 obs. associated	
0.6s	12.00nm		BGF 3.68	321 Pn	59 58.50 0.2			
DMN 152.60	42 PKP	59 00.60 7.5X		Pg	00 41.20			
PKI 152.83	42 PKP	59 00.70 7.2X		Sg	00 58.60			
GUN 152.91	41 PKP	59 01.30 7.6X	RJF 3.70	296 Pn	59 58.60 0.0			
S.D. = 0.9 on 65 of 75 obs.				Pg	00 10.60			
				Sn	00 41.20			
				Sg	00 58.60			
			LPO 3.74	286 Pn	59 59.30 0.2	NKA	0.31 87 eP	09 25.18 1.6
			TCF 3.81	313 Pn	00 00.10 0.0	RDT	0.31 240 iP	09 23.10 -0.6
			SSF 3.82	331 Pn	00 00.10 -0.1	SPU	0.46 348 iP	09 24.02 -0.7
			LOR 3.88	336 Pn	00 00.50 -0.6	REF	0.48 240 iP	09 24.50 -0.5
				Pg	00 13.40	RDN	0.49 244 eP	09 24.33 -0.8
			BSF 4.09	5 Pn	00 02.90 -1.3	RSO	0.52 239 iP	09 24.81 -0.6
				Sn	00 49.00	iS	09 36.10	
			LSF 4.16	308 Pn	00 05.80 0.8	RS2	0.52 239 iP	09 24.86 -0.5
			HAU 4.25	1 Pn	00 04.60 -1.8	iS	09 36.81	
				Sn	00 51.00	CKL	0.52 334 iP	09 24.59 -0.7
			EPF 4.35	262 Pn	00 08.00 0.2	eS	09 35.79	
			CDF 4.71	9 Pn	00 10.60 -2.4	NCT	0.55 253 eP	09 24.87 -0.7
			BTH 4.72	264 (P)	00 18.00 4.9X	eS	09 36.11	
			MFF 5.32	305 Pn	00 21.90 0.3	CRP	0.56 345 eP	09 25.15 -0.5
			S.D. = 1.1 on 40 of 41 obs.			CGLM	0.58 353 iP	09 25.23 -0.6
						iS	09 37.32	
						BGL	0.59 335 iP	09 25.23 -0.7
						NCG	0.69 348 iP	09 26.19 -0.7
						NNL	0.75 158 eP	09 27.93 0.6
						SLKM	0.84 105 iP	09 27.65 -0.8
						INE	0.90 222 eP	09 28.26 -1.0
						INW	0.92 224 eP	09 28.55 -0.8
						HOM	1.08 174 eP	09 31.41 0.2
						PMS	1.24 64 eP	09 32.80 -0.4
						eS	09 50.18	
						CNPM	1.25 165 eP	09 32.68 -0.7
						SKT	1.26 7 iP	09 32.52 -1.0
						OPT	1.28 213 eP	09 33.55 -0.2
						PWA	1.33 45 eP	09 34.58 0.2
						PDB	1.50 232 iP	09 35.41 -1.1
						eS	09 54.86	
						PLRM	1.58 56 eP	09 36.36 -1.3
						GHO	1.76 52 eP	09 38.84 -1.3
						KNK	1.79 66 eP	09 39.08 -1.4
							</	

09d 12h

CUT	1.84	24	eP	09 48.78	-0.4
MCNL	1.99	220	eP	09 42.24	-0.9
SML	2.02	56	eP	09 41.88	-1.7
KNIM	2.08	99	eP	09 41.42	-2.9
			eS	10 05.96	
LTI	2.11	107	eP	09 42.16	-2.6
GLI	2.34	84	eP	09 44.47	-3.5
VLZ	2.73	79	eP	09 50.76	-2.5
KLU	2.98	73	eP	09 54.38	-2.5
SDG	3.51	56	eP	10 03.06	-1.1

36 obs. associated

? NOV 09, 1990 13h 17m 54.17±3.62s
11.039 N ±20.0km 61.799 W ±28.2km
DEPTH = 33.0km (normal)

WINDWARD ISLANDS (95)

MD 3.4 (TRN).

TCE	0.34	172	eP	18 02.75	0.2
			eS	18 13.64	
TRN	0.55	135	eP	18 06.01	0.5
			eS	18 19.95	
TPP	0.79	154	eP	18 08.36	-0.5
			eS	18 25.25	
TBH	0.91	127	eP	18 10.35	-0.2
			eS	18 28.37	
PIG	0.95	83	eP	18 11.54	0.4
			eS	18 31.12	
BOT	1.07	83	eP	18 12.42	-0.4
			eS	18 33.20	

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

* NOV 09, 1990 13h 30m 13.87±0.94s
42.490 N ±9.5km 24.179 E ±13.2km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)

MD 3.0 (ATH).

SRS	1.44	198	eP	30 40.30	0.3
KNT	1.64	216	eP	30 43.30	0.5
VAY	1.68	226	ePn	30 43.70	0.4
RDO	1.68	142	ePn	30 44.00	0.5
			eS	31 10.00	
SOM	1.78	201	eP	30 45.20	0.3
GRG	2.03	222	eP	30 51.30	2.8X
ALN	2.12	138	eP	30 53.90	4.1X
PLG	2.19	195	ePn	30 49.00	-1.8
MLR	3.26	22	eP	31 06.00	-0.1
BZS	3.63	33	ePc	31 17.50	6.2X

S.D. = 1.0 on 7 of 10 obs.

* NOV 09, 1990 14h 25m 12.41±0.81s
40.469 N ±8.7km 29.251 E ±6.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

YLV	0.13	44	iPg	25 15.40	-0.3
IZI	0.21	128	iPg	25 17.10	0.0
			iSg	25 20.40	
GBZT	0.35	25	ePg	25 20.00	0.3
			iSg	25 21.00	
KCT	0.72	252	ePg	25 27.40	0.8
BNT	1.02	264	ePn	25 30.90	-0.8

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

? NOV 09, 1990 14h 26m 37.73±0.84s
28.417 S ±12.3km 67.530 W ±15.8km
DEPTH = 140.0km (geophysicist)

LA RIOJA PROVINCE, ARGENTINA (138)

CYA	1.53	91	iPd	27 07.50	0.3
			S	27 26.50	
CFA	3.24	191	eP	27 28.00	-0.4
RTCB	3.25	199	iPc	27 29.10	0.4
			(S)	28 07.00	
ZON	3.27	197	eP	27 28.00	-0.9
JACH	5.00	211	iP	27 53.00	1.0
PEL	5.44	209	iP	27 57.30	-0.5
FCH	5.44	205	iPd	27 59.10	1.0
ROCH	5.44	213	iP	27 57.50	-0.5
PCH	5.78	206	iP	28 02.50	0.0
SIV	13.73	27	P	29 47.60	-0.1

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

NOV 09, 1990 14h 31m 51.48±0.57s
39.231 N ±5.3km 27.857 E ±6.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.6 (ISK), 3.5 (ATH).

IZM	0.95	209	iPg	32 08.90	-0.7
KCT	1.09	21	iPn	32 12.60	0.7
EDC	1.11	0	ePn	32 12.50	0.1
BNT	1.13	2	iPn	32 12.90	0.3
PRK	1.23	271	ePb	32 14.00	-0.4
KHL	1.59	124	iPn	32 19.80	0.0
CIN	1.64	174	ePg	32 19.00	-1.4
			iSg	32 41.00	
IZI	1.66	48	ePn	32 20.40	-0.5
			iSg	32 22.90	
SMG	1.72	208	ePb	32 23.50	2.0
ALT	1.76	95	ePn	32 23.10	0.8
YLV	1.77	41	ePn	32 20.40	-2.0
GBZT	1.98	38	ePn	32 27.50	2.2
			iSg	32 55.00	
ISK	2.05	26	ePn	32 26.00	-0.4
HRT	2.11	41	iPn	32 25.50	-1.8
GPA	2.17	60	iPn	32 29.70	1.6
DMK	2.59	358	ePn	32 33.00	-1.1
RDO	2.61	318	ePn	32 35.20	0.8
BBTK	3.84	79	eP	33 10.00	18.0X
			iS	33 55.00	

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

NOV 09, 1990 14h 35m 57.34±0.61s
39.238 N ±4.2km 27.800 E ±8.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK).

IZM	0.94	207	iPn	36 15.40	0.1
			eSg	36 29.90	
KCT	1.10	23	ePn	36 17.70	-0.3
EDC	1.11	3	ePn	36 18.00	-0.1
BNT	1.12	5	iPn	36 18.90	0.6
KHL	1.63	124	ePn	36 26.60	0.4
CIN	1.65	172	eP	36 26.00	-0.5
IZI	1.69	49	ePn	36 27.00	-0.2
YLV	1.80	42	ePn	36 28.40	-0.3
ALT	1.81	95	ePn	36 29.00	0.2

S.D. = 0.4 on 9 of 9 obs.

NOV 09, 1990 14h 40m 24.52±0.37s
11.869 N ±5.7km 143.587 E ±6.6km
DEPTH = 33.0km (normal)

SOUTH OF MARIANA ISLANDS (210)

GUA	2.10	38	eP	40 58.50	0.4
			eS	41 22.50	
GUMO	2.12	36	eP	40 58.70	0.4
PJG	2.12	36	eP	40 58.00	-0.3
PMG	21.43	170	eP	45 10.00	-2.1
WB5	32.83	196	eP	46 57.00	-0.4
ASPA	36.57	195	eP	47 31.20	1.8
			1.2s	7.40nm	4.5mb
BJI	37.05	324	P	47 33.00	-0.2
			Z 20s	0.30um	4.1msz
TIY	37.92	318	eP	47 40.00	-0.7
BRS	40.03	167	iP	47 59.00	0.7
DZM	40.50	146	iPc	48 02.50	0.2
CD2	41.36	304	P	48 09.60	0.3
GTA	47.40	313	eP	48 57.70	-0.2
LSA	51.69	298	P	49 31.60	0.3
GUN	56.08	296	P	50 03.60	0.0
PKI	56.48	295	P	50 05.80	-0.6
KKN	56.61	295	P	50 06.80	-0.4
DMN	56.75	295	P	50 08.20	-0.1
GKN	57.19	296	P	50 10.80	-0.5
WMO	57.43	315	P	50 12.70	0.1
HYB	62.92	284	eP	50 50.00	-0.4
GBA	64.37	279	P	51 01.00	1.1
INK	76.42	22	eP	52 11.50	-0.7
MAIO	78.36	305	eP	52 25.00	1.4

S.D. = 0.8 on 23 of 23 obs.

? NOV 09, 1990 14h 54m 26.40±5.42s
11.272 N ±52.6km 62.407 W ±58.6km
DEPTH = 116.9 ±28.4 km

WINDWARD ISLANDS (95)

TCE	0.86	132	eP	54 46.95	-0.1
			eS	54 58.57	

TRN	1.16	122	eP	54 49.91	-0.2
			eS	55 02.83	
TPP	1.34	135	eP	54 52.58	0.5
			eS	55 08.23	
TBH	1.53	121	eP	54 54.07	-0.3
			eS	55 12.62	
PIG	1.54	94	eP	54 54.88	0.4
			eS	55 13.93	
BOT	1.66	93	eP	54 55.74	-0.2
			eS	55 15.31	
ZOBO	27.94	192	P	00 10.00	1.5
			1.1s	12.18nm	4.5mb
LPB	28.19	192	(P)	00 11.00	0.4
CNCB	28.44	191	P	00 11.00	-2.0

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

NOV 09, 1990 15h 10m 47.16±1.01s
11.923 N ±5.9km 143.726 E ±6.2km
DEPTH = 48.1 ±9.3 km
5.0mb (17 obs.) 4.4msz (5 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	1.98	36	eP	11 18.80	0.0
			eS	11 45.00	
GUMO	1.99	34	eP	11 19.00	0.0
PJG	1.99	34	eP	11 19.10	0.1
DAV	18.53	257	eP	15 02.70	0.5
PMG	21.46	171	eP	15 32.50	-1.2
BAG	22.87	284	eP	15 48.20	0.4
MAT	25.01	349	eP	16 06.00	-2.2
			0.8s	10.45nm	4.4mb
Z 19s			0.69um		4.2msz
			eS	20 44.00	
WB5	32.92	196	eP	17 18.90	-0.4
ASPA	36.65	195	iPd	17 51.70	0.5
			0.6s	8.80nm	4.9mb
Z 20s			0.40um		4.2msz
			i	18 08.80	
BJI	37.09	324	eP	17 54.50	-0.1
			1.4s	27.00nm	5.0mb
Z 20s			0.60um		4.4msz
TIY	37.97	318	Pd	18 02.20	0.0
BRS	40.05	167	iP	18 20.00	0.4
DZM	40.47	147	iPc	18 24.00	0.9
BTO	41.15	320	P	18 28.80	0.3
CD2	41.44	303	P	18 30.80	-0.2
LZH	43.22	311	P	18 46.00	0.4
			2.0s	50.00nm	4.9mb
Z 20s			0.63um		4.5msz
CHTO	43.63	285	e(P)	18 49.20	0.2
			0.1s	6.99nm	5.3mb
GTA	47.47	313	iPc	19 19.30	-0.1
			1.0s	10.00nm	4.8mb
Z 20s			0.50um		4.5msz
LSA	51.78	298	P	19 53.80	0.7
GUN	56.18	296	P	20 24.40	-0.9
			0.8s	35.00nm	5.4mb
PKI	56.58	295	P	20 27.40	-0.7
KKN	56.71	295	P	20 28.40	-0.5
			0.9s	20.00nm	5.1mb
DMN	56.85	295	P	20 29.60	-0.3
GKN	57.29	296	P	20 31.80	-1.1
			0.6s	11.00nm	5.1mb
WMO	57.49	315	iPc	20 34.20	0.2
HYB	63.04	284	iPd	21 12.30	0.2
GBA	64.49	279	Pd	21 21.30	-0.4
			0.8s	11.20nm	5.0mb
KOD	64.91	276	eP	21 25.00	0.2
KSH	65.36	308	eP	21 29.00	1.9
POO	67.40	285	iPd	21 40.20	-0.1
IMA	68.21	23	ePc	21 44.80	0.1
			1.3s	17.90nm	4.9mb
PMR	68.77	28	eP	21 45.90	-2.1
BRW	69.24	17	ePc	21 51.40	0.6
FBA	70.20	25	eP	21 56.30	-0.4
			1.3s	49.00nm	5.3mb
TOA	70.26	28	eP	21 58.70	1.5
QUE	72.75	298	P	22 13.50	0.6
INK	76.32	22	eP	22 32.50	0.0
			1.0s	27.00nm	5.2mb
MAIO	78.44	305	iPc	22 46.70	1.8
YKA	84.84	27	eP	23 18.70	1.0
			0.6s	4.70nm	4.8mb
PNT	85.36	41	eP	23 22.00	1.4
			0.6s	9.00nm	5.1mb
SOD	89.04	340	iP	23 38.10	

0.6s 5.00nm 5.1mb
 NUR 93.26 334 eP 23 58.00 0.3
 NB2 98.20 339 P 24 21.96 1.7
 0.9s 2.80nm 4.8mb
 BCAO 123.13 283 iPKPc 29 43.50 2.4X
 0.6s 6.00nm
 KIC 143.76 298 PKP 30 17.90 -1.8
 TIC 143.86 299 PKP 30 18.10 -1.8
 LIC 144.07 298 PKPd 30 19.00 -1.2
 ZOBO 148.83 102 PKP 30 32.00 3.3X
 LPB 148.83 102 ePKP 30 31.00 2.5X
 CNCB 148.93 103 PKP 30 32.00 3.2X
 SIV 155.60 102 (PKP) 30 43.00 5.3X
 S.D. = 1.0 on 47 of 52 obs.

NOV 09, 1990 15h 47m 33.19±0.58s
 40.124 N ± 5.2km 20.578 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 2.7 (THE). MD 2.9 (ATH).

LSK 0.03 34 iPg 47 34.30 -1.0
 KBN 0.53 20 iPg 47 44.30 0.4
 IGT 0.62 198 ePc 47 45.10 -0.6
 eS 47 55.86
 KEK 0.73 236 ePb 47 48.00 0.5
 BERA 0.75 320 iPg 47 45.00 -2.9X
 FNA 0.90 43 ePc 47 49.90 -0.5
 eS 48 03.34
 KZN 0.93 78 ePb 47 51.50 0.5
 OHR 1.00 10 ePg 47 52.00 -0.2
 iSg 48 05.30
 TIR 1.34 336 ePn 47 58.50 0.7
 LIT 1.47 90 ePc 48 02.90 3.2X
 eS 48 24.58
 EVR 1.54 141 ePb 48 03.00 2.2X
 PHP 1.57 356 ePn 48 03.20 2.2X
 GRG 1.62 59 eP 48 02.38 0.5
 LACI 1.65 337 ePn 48 01.80 -0.4
 AGG 1.75 129 eP 48 07.30 3.6X
 eS 48 33.86
 S.D. = 0.7 on 10 of 15 obs.

NOV 09, 1990 15h 48m 07.30±0.61s
 40.747 N ± 5.7km 27.382 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).

EDC 0.54 137 ePg 48 18.00 -0.3
 eSg 48 25.50
 BNT 0.57 133 iPg 48 17.90 -0.9
 CTT 0.89 63 iPg 48 24.90 0.5
 KCT 0.89 123 iPg 48 24.90 0.4
 DMK 1.11 15 iPn 48 28.00 -0.1
 EZN 1.22 222 iPn 48 29.60 -0.5
 ISK 1.31 75 ePn 48 32.00 0.5
 RDO 1.45 287 eP 48 32.80 -0.8
 eS 48 52.00
 YLV 1.53 96 iPn 48 28.40 -6.3X
 PRK 1.72 210 eP 48 39.00 1.5
 eS 49 01.50
 HRT 1.74 87 ePn 48 37.00 -0.7
 S.D. = 0.9 on 10 of 11 obs.

? NOV 09, 1990 15h 53m 52.01±5.03s
 39.905 N ± 11.5km 30.691 E ± 46.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

GPA 0.48 323 ePg 54 01.70 -0.1
 ALT 0.96 208 iPg 54 10.50 0.1
 iSg 54 22.10
 IZI 1.03 295 ePg 54 11.90 0.4
 HRT 1.20 320 iPn 54 20.00 5.5X
 YLV 1.21 304 ePg 54 14.90 0.4
 KCT 1.82 282 ePn 54 22.90 -0.8
 S.D. = 0.7 on 5 of 6 obs.

NOV 09, 1990 16h 50m 42.70±0.28s
 30.632 N ± 5.9km 86.233 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 4.7mb (22 obs.) 3.9Msz (1 obs.)
 TIBET (306)

GUN 2.73 187 P 51 36.36 8.7X

0.4s 738.00nm
 KKN 2.95 197 P 51 38.98 8.3X
 GKN 2.97 208 P 51 39.02 8.2X
 0.3s 261.00nm
 PKI 3.13 193 P 51 41.84 8.5X
 0.3s 278.00nm
 DMN 3.17 198 P 51 42.16 8.4X
 LSA 4.36 101 Pn 51 55.60 4.7X
 Pg 52 02.40
 Sg 52 56.80
 NDI 8.08 258 iPnd 52 44.00 1.1
 0.5s 63.38nm 6.1mb X
 KSH 12.16 319 eP 53 35.20 -3.8X
 N 10s 2.00um

WMO 13.22 5 eP 53 53.00 0.0
 GTA 14.15 48 eP 54 10.40 5.0X
 Z 10s 0.40um
 E 13s 0.90um
 HYB 14.90 210 eP 54 16.00 0.8
 eS 56 53.00
 KMI 15.59 107 Pd 54 26.00 1.7
 LZH 15.68 65 eP 54 31.50 6.0X
 1.5s 20.00nm 4.1mb
 Z 13s 0.62um 3.6Msz
 E 10s 0.48um

CHG 16.47 133 eP 54 35.40 0.0
 1.0s 26.25nm 4.3mb
 CHTO 16.47 133 eP 54 34.20 -1.2
 POO 16.47 226 eP 54 41.00 5.5X
 QUE 16.64 273 eP 54 35.20 -2.6
 e 57 35.50
 BDT 17.69 136 eP 54 50.50 -0.3
 GYA 18.42 98 P 54 59.50 -0.4
 GBA 18.79 207 Pd 55 05.30 0.9
 0.7s 7.70nm 4.0mb
 XAN 19.46 74 P 55 09.50 -3.1X
 NST 19.59 136 eP 55 14.80 0.8
 BTO 21.69 56 eP 55 36.00 0.3
 KOD 21.87 204 eP 55 42.00 4.0X
 TIY 22.75 65 eP 55 44.80 -1.5

Z 12s 0.70um 4.3MszX
 MAIO 22.97 291 iPc 55 48.20 -0.3
 BJI 26.07 61 eP 56 19.00 1.1
 1.0s 18.00nm 4.7mb
 MLR 48.64 306 ePc 59 27.00 -1.7
 SUF 49.61 328 iP 59 34.70 -1.0
 NUR 49.94 325 eP 59 39.00 0.6
 SOD 50.49 334 eP 59 44.00 1.6
 UPP 53.39 324 iP 00 05.90 1.6
 HFS 55.36 325 eP 00 16.40 -2.4
 0.7s 18.10nm 5.2mb

BRG 56.06 313 iP 00 25.50 1.6
 NB2 56.54 326 P 00 24.20 -3.2X
 1.0s 11.40nm 4.9mb
 NANU 59.90 148 eP 00 50.80 -0.4
 MBL 60.78 144 eP 00 57.10 -0.1
 0.6s 11.00nm 5.2mb
 LPG 61.90 308 eP 01 03.00 -1.9
 0.7s 4.95nm 4.8mb
 LPL 61.90 308 eP 01 03.20 -1.7
 0.8s 7.40nm 4.9mb
 LOR 63.31 311 eP 01 14.40 0.5
 0.8s 2.70nm 4.5mb
 Z 20s 0.08um 3.9Msz

LBF 63.32 311 eP 01 14.50 0.5
 0.6s 2.25nm 4.5mb
 SSF 63.60 311 eP 01 16.50 0.7
 0.6s 3.60nm 4.7mb
 AVF 63.78 311 eP 01 17.60 0.6
 0.6s 2.25nm 4.5mb
 TCF 64.69 310 eP 01 23.30 0.3
 0.6s 3.60nm 4.7mb
 LSF 65.15 310 eP 01 26.40 0.5
 0.7s 4.40nm 4.8mb
 LDF 65.45 313 eP 01 28.80 1.0
 0.6s 9.00nm 5.1mb
 GRR 65.98 313 eP 01 31.80 0.6
 0.5s 5.10nm 5.0mb
 MFF 66.13 311 eP 01 32.90 0.7
 0.5s 2.90nm 4.7mb
 WB5 68.28 131 eP 01 45.80 -0.4
 WRA 68.31 131 P 01 45.00 -1.4
 1.2s 4.10nm 4.5mb
 BCAO 68.59 262 iPc 01 47.90 -0.4
 0.4s 5.00nm 5.1mb
 id 04 15.00

ASPA 70.74 134 iPd 02 01.00 -0.2
 0.6s 8.30nm 5.0mb
 BUL 74.92 235 iPc 02 22.90 -3.1X
 0.8s 3.73nm 4.5mb
 RMO 82.44 127 iPc 03 06.40 -0.3
 KIC 87.64 276 P 03 36.00 3.0X
 SIV 146.77 289 PKP 10 25.60 0.2
 ZOBO 152.56 296 PKP 10 35.00 0.1
 CNCB 152.76 294 PKP 10 36.00 0.8
 S.D. = 1.1 on 43 of 58 obs.

? NOV 09, 1990 18h 45m 26.55±1.03s
 17.160 N ± 27.9km 94.872 W ± 10.4km
 DEPTH = 33.0km (normal)
 CHIAPAS, MEXICO (61)

OXX 1.77 268 iPc 45 55.86 0.3
 eS 46 17.00
 SCX 2.18 101 iPc 46 01.21 0.0
 eS 46 26.84
 LVVM 2.97 330 (P) 46 30.66 18.2X
 (S) 47 05.19
 IISM 3.00 308 eP 46 13.08 0.2
 (S) 46 43.28
 PPM 4.04 299 (P) 46 32.04 3.8X
 (S) 47 22.11
 III 4.54 286 eP 46 34.51 -0.5
 eS 47 26.18
 S.D. = 0.6 on 4 of 6 obs.

NOV 09, 1990 19h 09m 23.47±0.33s
 30.733 N ± 6.9km 86.289 E ± 5.6km
 DEPTH = 10.0km (geophysicist)
 4.9mb (21 obs.) 4.4Msz (1 obs.)
 TIBET (306)

GUN 2.84 187 P 10 17.40 7.4X
 KKN 3.06 197 P 10 20.00 7.0X
 GKN 3.08 208 P 10 20.20 7.0X
 PKI 3.24 194 P 10 23.00 7.3X
 DMN 3.28 199 P 10 23.30 7.1X
 LSA 4.33 103 Pn 10 36.20 4.9X
 Pg 10 44.40
 Sn 11 22.00
 Sg 11 44.00

KSH 12.12 319 eP 12 19.00 -0.2
 Z 14s 3.00um
 E 12s 7.30um
 WMO 13.11 4 eP 12 36.80 4.4X
 Z 15s 1.20um
 N 12s 1.30um
 E 12s 1.10um
 GTA 14.04 48 eP 12 41.00 -3.8X
 Z 12s 1.20um
 E 13s 2.40um
 HYB 15.01 210 eP 12 56.00 -1.4
 1.0s 45.00nm 4.9mb
 eS 13 06.50
 eS 15 38.50

CD2 15.01 85 eP 12 58.60 1.2
 N 10s 1.81um
 eS 15 45.00
 KMI 15.57 107 Pd 13 09.00 4.1X
 1.0s 90.00nm 5.0mb
 Z 12s 1.60um 4.8Msz
 N 10s 1.00um
 E 10s 0.50um
 sP 13 15.50

LZH 15.60 65 eP 13 05.00 -0.1
 2.0s 29.00nm 4.2mb
 Z 12s 1.53um 3.6Msz
 E 10s 1.26um
 pP 13 09.50
 sP 13 13.50
 PP 13 19.00
 eS 15 55.00

CHG 16.50 133 eP 13 17.00 0.4
 1.2s 75.39nm 4.7mb
 CHTO 16.50 133 eP 13 09.10 -7.5X
 POO 16.58 226 eP 13 19.50 1.9
 QUE 16.69 273 eP 13 15.90 -3.2X
 eS 16 09.30
 e 20 34.80
 BDT 17.73 136 eP 13 08.00 -24.1X
 GYA 18.39 98 P 13 40.80 0.5
 Z 10s 0.60um
 pP 13 46.00

09d 19h				DEPTH = 10.0km (geophysicist)				SEK 81.24 230 eP 25 57.00 -0.6			
GBA	18.90	208 Pd	13 44.50 -2.0	4.9mb (23 obs.)				0.6s	13.33nm	5.2mb	
NST	19.63	137 eP	13 56.00 0.8	TIBET (306)				RMQ	82.55	127 iPc	26 05.00 0.7
PCT	21.17	136 eP	14 13.40 2.2					YKA	85.40	10 eP	26 16.80 -1.4
BTO	21.59	56 eP	14 14.00 -1.5					0.8s	5.40nm	4.8mb	
N	11s	0.40um		GUN	3.03	188 P	14 34.44 5.6X	KIC	87.69	276 P	26 30.60 0.4
E	12s	0.30um		KKN	3.25	197 P	14 37.04 5.1X	LIC	88.00	276 P	26 32.00 0.3
		eS	18 17.00	GKN	3.26	207 P	14 37.08 5.1X	SIV	146.75	289 PKP	33 22.60 0.3
KOD	21.99	204 eP	14 23.00 3.1X	PKI	3.43	194 P	14 39.90 5.3X	ZOBO	152.51	296 PKP	33 31.00 -0.8
TIY	22.67	65 eP	14 24.50 -1.7	DMN	3.47	198 P	14 40.26 5.2X	LPB	152.64	296 ePKP	33 37.00 5.2X
Z	12s	1.40um	4.6MsZ	LSA	4.34	105 Pn	14 53.40 5.7X	CNCB	152.71	295 PKP	33 33.00 0.9
E	10s	1.00um				Pg	15 00.60	S.D. = 1.0 on 45 of 59 obs.			
		S	18 34.50	NDI	8.22	257 ePn	15 44.00 2.1	* NOV 09, 1990 19h 44m 23.70±1.60s			
HHC	22.78	57 eP	14 25.00 -2.3			0.5s	66.90nm	33.006 S ±10.3km 68.137 W ±13.3km			
Z	14s	1.20um	4.5MsZ	GTA	13.90	49 eP	17 04.00 5.0X	DEPTH = 10.0km (geophysicist)			
E	13s	0.90um		Z	13s	1.00um		MENDOZA PROVINCE, ARGENTINA (139)			
		sP	14 35.00	E	15s	2.70um		Felt (III) at Mendoza.			
		sS	18 40.00	LZH	15.49	66 Pc	17 26.50 6.6X	MDZ	0.61	281 iP	44 34.20 -1.9
MAIO	22.98	291 iPc	14 29.00 -0.3			5.0s	360.00nm	RTCV	1.19	343 e(P)	44 45.70 -0.2
WHN	24.12	83 eP	14 43.50 3.2X	Z	12s	1.05um	4.2MsZ	ZON	1.53	342 iPd	44 50.70 -0.4
BJI	25.97	61 eP	15 00.00 2.1	E	10s	1.53um				eS	45 10.70
	1.2s	1024.00nm	6.4mb X	CHTO	16.61	134 eP	17 34.20 0.0	RTCB	1.62	339 ePc	44 52.70 0.3
CN2	33.47	56 eP	16 08.00 3.2X	GYA	18.38	99 P	17 58.00 1.6	RTLL	1.69	350 iPd	44 54.00 0.5
Z	16s	0.90um	4.6MsZ	GBA	19.08	207 Pc	18 05.90 1.0	RTBS	1.74	320 e(P)	44 55.10 1.0
N	15s	1.00um				0.9s	37.90nm	FCH	1.83	259 iPd	44 55.00 -0.8
E	15s	0.40um		NST	19.75	137 eP	18 13.00 0.3			iS	45 18.60
VR1	48.04	306 eP	18 05.00 0.2	BTO	21.46	57 eP	18 31.40 1.1	JACH	2.09	278 iPd	44 59.50 0.2
MLR	48.62	305 eP	18 09.00 -0.4	KOD	22.17	204 eP	18 28.20 -9.7X	PEL	2.14	266 iPc	45 00.00 0.0
SUF	49.54	328 eP	18 15.00 -1.0	TIY	22.56	65 eP	18 42.00 0.7			i	45 27.20
NUR	49.89	325 eP	18 21.00 2.3	Z	10s	1.00um	4.5MsZ	SAN	2.16	257 eP	45 00.50 0.2
KRA	52.31	312 eP	18 35.70 -1.5	MAIO	22.95	291 eP	18 47.00 1.8			iS	45 28.50
		e	18 43.40	CN2	33.34	56 eP	20 27.00 7.2X	CHCH	2.30	246 iPc	45 02.50 0.2
UPP	53.34	324 iP	18 44.00 -0.7	Z	16s	1.00um	4.6MsZ			iS	45 32.00
KSP	54.55	313 eP	18 56.00 2.2	N	15s	1.00um		ROCH	2.42	270 iPd	45 03.70 -0.4
		e	18 59.50	E	15s	0.40um				i	45 05.50
HFS	55.31	324 eP	18 57.20 -2.0	MLR	48.53	305 ePc	22 26.50 1.6	LNV	2.90	250 eP	45 12.00 1.3
	1.0s	26.50nm	5.2mb	SUF	49.40	328 eP	22 32.00 0.8			iS	45 48.00
Z	17s	0.26um	4.4MsZ	NUR	49.75	325 eP	22 30.00 -3.9X	RTRS	3.04	338 ePd	45 14.00 1.3
		LR	40 21.00	SOD	50.26	334 iP	22 40.30 2.6	CYA	4.97	25 e(P)	45 39.00 -1.2
PRU	55.77	312 eP	19 02.50 -0.2	KEV	50.80	337 eP	22 41.00 -0.8	S.D. = 0.9 on 15 of 15 obs.			
		e	19 05.00	UPP	53.20	324 iP	23 00.50 0.6	? NOV 09, 1990 19h 50m 23.47±3.11s			
BRG	56.02	313 iP	19 06.80 2.4	HFS	55.18	324 eP	23 14.00 -0.5	2.469 S ±27.7km 78.301 W ±62.1km			
	0.8s	16.00nm	5.1mb			0.5s	13.40nm	DEPTH = 10.0km (geophysicist)			
NB2	56.49	326 P	19 04.60 -3.1X	NB2	56.35	326 P	23 22.40 -0.6	ECUADOR (107)			
	1.1s	22.60nm	5.1mb			0.7s	11.40nm	VC1	1.82	357 P	50 53.80 -1.8
KHC	56.53	311 eP	19 10.70 2.5	NANU	60.11	149 eP	23 48.30 -1.2	OTO	2.26	354 eP	51 02.00 0.1
CLL	56.54	314 e(P)	19 07.00 -1.2	MBL	60.96	144 iPc	23 55.30 -0.1	QUR	2.29	354 eP	51 02.60 0.3
MOX	57.52	313 e(P)	19 17.00 1.9	LPG	61.78	308 eP	24 00.80 -0.3	GGP	2.30	353 eP	51 02.80 0.2
GRF	57.94	312 ePd	19 21.00 2.9X			0.7s	4.95nm	YANA	2.35	353 eP	51 03.20 0.0
Z	19s	0.30um	4.4MsZ	SBF	61.78	306 eP	23 59.90 -1.0	CAYA	2.55	7 P	51 06.10 0.0
NANU	59.96	149 eP	19 31.50 -0.9			0.8s	13.45nm			S	51 38.20
LPG	61.87	308 eP	19 45.90 0.4	LPL	61.79	308 eP	24 00.80 -0.3	COTA	2.79	359 P	51 10.50 1.1
	0.8s	5.35nm	4.8mb			0.8s	9.40nm	SIV	21.64	129 P	55 16.20 0.0
LPL	61.88	308 eP	19 45.90 0.4	LOR	63.18	311 eP	24 10.10 0.0	S.D. = 0.9 on 8 of 8 obs.			
	0.8s	8.05nm	5.0mb			0.8s	2.70nm	? NOV 09, 1990 20h 39m 28.80±0.71s			
LBF	63.29	311 eP	19 54.30 -0.3	LBF	63.19	311 eP	24 09.00 -1.1	39.186 N ± 6.1km 27.896 E ± 8.0km			
	0.8s	6.70nm	4.9mb			0.6s	1.80nm	DEPTH = 10.0km (geophysicist)			
SMF	63.48	310 eP	19 55.60 -0.2	SMF	63.38	310 eP	24 10.50 -0.9	TURKEY (366)			
	1.2s	13.40nm	5.0mb			0.8s	4.05nm	MD 2.9 (ISK).			
SSF	63.57	311 eP	19 56.10 -0.3	SSF	63.48	311 eP	24 11.00 -1.0	I2M	0.93	212 iPg	39 46.60 0.0
	1.0s	8.00nm	4.9mb			0.8s	8.05nm	KCT	1.12	18 iPn	39 49.50 -0.3
AVF	63.76	311 eP	19 57.50 -0.1	AVF	63.66	310 eP	24 12.30 -0.9	EDC	1.16	359 ePn	39 50.00 -0.5
	1.0s	6.00nm	4.7mb			0.8s	4.05nm	BNT	1.17	1 ePn	39 50.30 -0.3
MAF	64.45	310 eP	20 01.80 -0.4	BGF	64.06	310 eP	24 16.00 0.2	E2N	1.37	298 iPn	39 54.20 0.3
	1.0s	9.00nm	4.9mb			0.8s	6.05nm	KHL	1.54	124 ePn	39 56.00 -0.4
TCF	64.66	310 eP	20 03.20 -0.4	MAF	64.35	310 eP	24 17.90 0.1	I2I	1.67	46 ePn	39 57.70 -0.6
	1.0s	10.00nm	5.0mb			0.6s	2.25nm	YLV	1.79	39 iPn	40 01.70 1.7
LDF	65.41	313 eP	20 07.40 -1.0	TCF	64.57	310 eP	24 18.10 -1.1	S.D. = 0.9 on 8 of 8 obs.			
	0.6s	5.40nm	4.9mb			0.6s	3.60nm	? NOV 09, 1990 20h 59m 49.14±1.00s			
WB5	68.31	131 eP	20 27.00 -0.1	EKA	64.91	321 Pc	24 26.10 4.9X	11.522 S ± 9.8km 117.573 E ±12.2km			
WRA	68.34	131 P	20 26.00 -1.3			0.7s	5.60nm	DEPTH = 33.0km (normal)			
	1.1s	9.20nm	4.9mb	MEKA	64.97	148 eP	24 20.20 -1.7	4.5mb (5 obs.)			
BCAO	68.65	262 iPc	20 29.00 -0.4	LDF	65.31	313 eP	24 23.00 -0.9	SOUTH OF SUMBAWA ISLAND (291)			
	0.7s	8.00nm	5.0mb			0.6s	9.00nm	KUPT	6.08	78 e(P)	01 19.00 -0.1
ASPA	70.78	134 eP	20 41.90 -0.3	GRR	65.84	313 eP	24 25.90 -1.4	TRT	6.17	307 ePc	01 20.40 0.0
	1.1s	11.80nm	4.9mb			0.6s	10.80nm				
BUL	75.02	235 iPc	21 04.20 -3.2X	WB5	68.41	131 eP	24 43.90 0.0				
	0.9s	6.30nm	4.6mb	WRA	68.44	131 P	24 43.00 -1.1				
RMQ	82.46	127 iPc	21 47.70 0.1			0.9s	7.10nm				
KIC	87.67	276 P	22 13.60 -0.3	BCAO	68.71	262 iPd	24 45.50 -0.5				
SIV	146.78	289 PKP	29 03.20 -3.0X			0.4s	14.00nm				
ZOBO	152.56	296 PKP	29 18.00 2.3X	ASPA	70.88	134 eP	24 59.00 -0.1				
CNCB	152.76	295 PKP	29 17.00 1.0			0.5s	9.20nm				
S.D. = 1.3 on 45 of 65 obs.				BUL	75.15	235 iPd	25 20.90 -3.4X				
						0.9s	11.76nm				
NOV 09, 1990 19h 13m 39.68±0.27s				FBA	75.66	21 eP	25 27.20 0.8				
30.921 N ± 6.6km 86.327 E ± 5.7km				PMR	77.52	24 eP	25 37.30 0.5				

MBL	9.83	168	iPd	02 21.90	0.9s	2.10nm	4.0mb	KIC	67.68	72	P	56 47.70	-1.4			
	0.3s	46.00nm	02 11.20	-0.1	32.90	325	eP	18 14.00	-1.5	ALQ	69.74	326	ePd	57 01.00	-0.6	
				6.2mb X	1.0s	1.25nm	3.8mb				0.8s	8.96nm		4.6mb		
NANU	11.15	190	iPd	03 51.00	SIV	33.76	137	P	18 22.00	-1.0		e	57 46.00			
	0.3s	17.00nm	02 28.00	-1.4	GSC	39.65	316	eP	19 15.00	2.3	ANMO	69.75	326	eP	57 01.90	0.3
				5.7mb	SBB	40.03	315	eP	19 17.00	1.2		0.7s	6.68nm		4.5mb	
MTN	13.32	97	eP	04 18.00	BW06	40.31	331	eP	19 16.40	-1.8	BAR	73.83	318	eP	57 26.00	0.3
				6.0X	CLC	40.48	316	eP	19 21.00	1.6	PLM	74.41	318	eP	57 30.00	0.8
MEKA	15.04	177	eP	03 20.40	TNP	41.50	319	eP	19 29.10	1.2	TPC	74.44	319	eP	57 30.00	0.8
	0.3s	16.00nm	03 20.40	-0.6		0.8s	3.68nm	4.2mb			GSC	75.72	320	eP	57 37.00	0.6
				4.8mb	FRB	55.73	8	ePd	21 14.80	-2.5	SBB	75.90	319	eP	57 37.00	-0.5
WARB	16.91	151	eP	03 48.00	INK	67.41	342	eP	22 34.00	-1.9	CLC	76.54	320	eP	57 41.00	0.0
	0.3s	4.00nm	03 48.00	3.0X	MBC	69.83	352	eP	22 42.00	-8.7X	ISA	76.96	319	eP	57 43.00	-0.3
				4.0mb	KIC	78.57	85	P	23 42.60	0.1	DUG	77.01	326	eP	57 44.10	0.5
MRWA	17.67	185	eP	06 45.00	GRR	78.83	42	eP	23 42.80	-0.4	TNP	77.88	322	iP	57 49.10	0.6
				0.1		0.8s	8.05nm	4.8mb				0.9s	7.81nm		4.4mb	
WB5	18.17	119	eP	03 54.50	FLN	79.07	42	eP	23 45.60	1.1	SWZ	81.15	116	iPd	58 05.50	-0.7
				5.0X		0.8s	8.05nm	4.8mb				0.2s	227.78nm		6.6mb X	
BAL	19.01	182	eP	04 13.00	Z	20s	0.05um	3.8Msz			SEK	82.58	118	iPd	58 14.50	0.8
				2.1	LDF	79.31	42	eP	23 45.50	-0.3		0.4s	50.85nm		5.6mb	
COOL	19.55	171	eP	07 26.00		0.8s	8.05nm	4.8mb			BUL	86.71	110	iPd	58 32.20	-2.1
				2.8X	SSF	81.83	44	eP	24 10.20	11.0X		1.0s	35.50nm		5.2mb	
ASPA	19.67	130	eP	04 20.00	LOR	82.06	43	eP	24 09.00	8.6X	BCAO	87.60	84	iPc	58 40.50	2.0
	0.8s	5.20nm	04 26.50	7.9X		0.8s	4.05nm	4.3mb				0.6s	11.00nm		4.9mb	
				3.9mb	Z	20s	2.70nm	3.9Msz			KRI	88.94	108	iPd	58 35.40	-9.6X
KLB	19.97	180	eP	04 26.00	NB2	84.73	29	P	24 13.80	0.0	WRA	131.54	207	PKP	05 02.00	-0.5
MUN	20.40	183	eP	04 31.00		1.0s	5.10nm	4.7mb				0.7s	3.00nm			
				5.0X	HFS	86.09	30	eP	24 19.00	-1.5	GBA	144.72	101	PKPc	05 24.40	-2.2X
NWAO	21.31	181	eP	07 56.00	MOX	86.69	39	eP	24 25.00	1.3		0.6s	5.60nm			
FORR	21.57	155	eP	04 42.00	CLL	87.43	39	eP	24 28.00	0.8	HYB	147.04	95	ePKP	05 35.00	4.6X
	0.4s	11.00nm		4.6mb	BRG	88.10	39	e(P)	24 31.30	0.9		S.D. = 1.1 on 30 of 33 obs.				
PLM	125.85	57	ePKP	19 06.00	PRU	88.66	40	eP	24 31.60	-1.6		NOV 09, 1990 23h 06m 05.74± 1.18s				
TPC	126.38	56	ePKP	19 05.00	WB5	141.30	250	ePKP	31 02.00	-10.0X		11.835 N ± 6.4km 143.688 E ± 7.8km				
BAO	149.47	208	ePKP	19 49.00	WRA	141.31	249	PKP	31 11.00	-1.0		DEPTH = 37.9 ± 10.8 km				
	S.D. = 1.3 on 7 of 19 obs.					1.1s	2.20nm				4.9mb (14 obs.) 4.3Msz (3 obs.)					
					KMI	145.38	349	ePKP	31 19.50	0.4		SOUTH OF MARIANA ISLANDS (210)				
					HYB	148.62	33	ePKP	31 26.00	1.7		Felt at Andersen Air Force Base, Guam.				
					GBA	150.98	39	PKPd	31 33.40	5.6X						
						0.8s	4.50nm									
						S.D. = 1.3 on 30 of 37 obs.										

09d 23h

PNT 85.45 41 eP 18 42.00 1.2
0.5s 5.00nm 5.0mb
KEV 87.82 342 eP 18 52.00 0.0
SOD 89.11 340 iP 18 58.40 0.2
SUF 91.59 336 eP 19 08.00 -1.8
NUR 93.33 334 eP 19 09.00 -8.8X
HFS 97.96 337 eP 19 38.00 -1.0
0.7s 1.80nm 4.7mb
NB2 98.26 339 P 19 39.20 -1.2
0.8s 2.50nm 4.8mb
DVD 129.90 68 ePdiff 21 41.60 -20.7X
KIC 143.77 298 PKP 25 38.10 -1.5
LIC 144.08 298 PKP 25 39.20 -0.9
ZOBO 148.85 102 PKP 25 52.00 3.4X
1.0s 11.25nm
LPB 148.85 102 PKP 25 55.00 6.6X
CNCB 148.94 103 PKP 25 53.00 4.3X
S.D. = 0.9 on 38 of 43 obs.

NOV 09, 1990 23h 11m 13.15± 0.38s
11.809 N ± 6.3km 143.694 E ± 7.3km
DEPTH = 33.0km (normal)
4.8mb (5 obs.)

SOUTH OF MARIANA ISLANDS (210)

GUA 2.09 35 eP 11 46.50 -0.1
eS 12 12.00
GUMO 2.11 33 eP 11 46.30 -0.5
PJG 2.11 33 eP 11 46.20 -0.6
PMG 21.36 171 eP 15 59.00 -0.9
ASPA 36.53 195 ePc 18 16.60 -1.2
0.6s 8.10nm 4.8mb
TIY 38.04 318 eP 18 30.80 0.5
DZM 40.39 146 iPd 18 51.10 1.0
NANU 43.92 219 eP 19 19.00 0.3
GTA 47.52 313 eP 19 47.00 -0.5
GUN 56.20 296 P 20 52.80 -0.3
PKI 56.60 295 P 20 55.00 -0.9
KKK 56.73 295 P 20 56.60 -0.1
DMN 56.87 295 P 20 57.50 -0.2
GKN 57.31 296 P 21 00.20 -0.5
WMO 57.55 315 eP 21 02.40 0.4
GBA 64.48 280 Pc 21 49.40 0.1
0.7s 2.70nm 4.5mb
INK 76.44 22 eP 23 01.00 0.1
MAIO 78.48 305 eP 23 15.00 2.1
MBC 80.27 14 eP 23 22.00 0.3
0.5s 4.00nm 4.7mb
PNT 85.46 41 eP 23 54.00 5.1X
0.5s 5.00nm 5.0mb
APO 97.64 337 eP 24 45.20 -0.3
1.0s 13.70nm 5.4mb
BCAO 123.13 283 iPKPd 30 12.00 3.0X
0.4s 3.00nm
ZOBO 148.84 102 PKP 30 59.00 2.4X
LPB 148.84 102 PKP 30 52.00 -4.4X
CNCB 148.93 103 ePKP 30 58.00 1.3
S.D. = 0.8 on 21 of 25 obs.

* NOV 09, 1990 23h 40m 21.85± 0.87s
5.444 S ± 11.2km 149.229 E ± 9.9km
DEPTH = 139.4 ± 9.2 km
NEW BRITAIN REGION (192)

LAT 2.52 241 eP 41 03.00 -0.2
eS 41 41.00
RAB 3.18 67 iPd 41 12.00 0.2
BRS 22.09 172 iPd 45 05.80 -0.7
ASPA 23.37 218 eP 45 20.00 1.0
0.3s 38.70nm 5.3mb
MBL 32.50 239 eP 46 41.40 0.0
0.4s 12.00nm 5.0mb
NANU 36.72 239 eP 47 17.20 -0.1
GUN 69.43 302 P 51 18.00 0.5
PKI 69.72 302 P 51 19.60 0.3
KKK 69.90 302 P 51 20.40 0.2
DMN 69.99 302 P 51 21.40 0.6
GKN 70.51 302 P 51 22.00 -1.8
SBA 72.95 176 e(P) 52 04.10 26.9X
PPD 146.08 144 e(PKP) 59 46.80 0.0
S.D. = 0.8 on 12 of 13 obs.

? NOV 10, 1990 00h 13m 50.29± 7.55s
10.911 N ± 21.7km 61.878 W ± 62.0km
DEPTH = 33.0km (normal)
TRINIDAD (98)

TRN 0.54 119 eP 14 01.99 0.6
eS 14 06.77
TPP 0.72 145 eP 14 04.03 0.0
eS 14 09.88
TBH 0.90 118 eP 14 05.98 -0.6
eS 14 13.80
PIG 1.05 76 eP 14 08.70 0.0
eS 14 20.11
BOT 1.17 77 eP 14 10.06 -0.3
eS 14 22.97

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

* NOV 10, 1990 00h 54m 51.59± 1.13s
49.106 N ± 10.6km 6.862 E ± 8.7km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

RUP 0.61 12 ePg 55 02.84 -1.1
KTD 0.83 75 ePg 55 07.46 -0.2
ABH 0.90 30 ePg 55 08.13 -0.7
TOD 1.36 68 ePg 55 15.21 -1.4
FEL 1.45 148 ePg 55 18.53 0.6
TNS 1.52 42 ePn 55 20.70 1.8
eSn 55 40.30
MEM 1.60 340 P 55 21.40 1.4
ENN 1.77 340 iPn 55 24.20 1.8
0.8s 14.00nm eSn 55 46.00
DOU 1.78 305 iP 55 22.20 -0.3
iS 55 43.90
SNF 2.18 311 P 55 26.40 -2.0
GRF 2.91 77 ePg 55 45.70 6.9X
eSg 56 24.80

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

NOV 10, 1990 01h 14m 12.77± 0.89s
15.441 N ± 8.8km 94.703 W ± 5.9km
DEPTH = 39.4 ± 6.8 km
5.0mb (33 obs.) 4.2Msz (5 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

SCX 2.37 57 eP 14 51.70 1.7
iS 15 23.00
TPX 2.42 102 iPc 14 40.00 -2.8
iS 15 20.50
OXX 2.54 310 iPd 14 52.00 -0.6
iS 15 25.00
IISM 4.36 324 eP 15 19.50 1.3
(S) 16 08.00
IIT 4.95 316 iP 15 28.30 1.3
(S) 16 16.50
ACX 5.15 287 iP 15 24.70 -4.9X
(S) 16 15.00
CRX 6.17 310 iP 15 45.00 0.8
MRX 7.50 305 iPc 16 02.00 -0.5
UYO 18.65 1 iPc 18 29.20 -0.4
MEO 19.57 350 eP 18 40.00 -0.5
ALO 22.10 334 eP 19 06.90 0.3
1.0s 7.50nm 4.1mb
ANMO 22.11 334 eP 19 07.20 0.6
1.1s 11.08nm 4.2mb
ELC 22.29 12 e(P) 19 07.80 -0.4
GOL 25.91 341 eP 19 43.30 0.0
1.0s 7.50nm 4.2mb

PLM 26.83 316 iPd 19 51.60 -0.1
PEC 27.35 316 iPc 19 55.90 -0.4
DAU 28.76 333 iPc 20 09.80 0.6
DUG 29.29 331 e(P) 20 14.50 0.7
ABL 29.29 316 ePc 20 13.80 -0.2
TNP 30.06 323 ePd 20 20.30 -0.5
1.1s 8.12nm 4.4mb
BW06 30.08 338 eP 20 19.80 -1.2
1.1s 6.45nm 4.3mb
FRI 30.88 319 eP 20 26.40 -1.3
PRI 31.00 317 eP 20 28.90 -0.1
PTI 31.25 335 e(P) 20 31.30 0.1
LLA 31.45 317 eP 20 32.20 -0.7
CMB 31.94 320 eP 20 37.20 0.1
MHC 32.33 318 eP 20 39.90 -0.7
LCCM 33.56 338 eP 20 51.80 0.5
ORV 33.56 321 eP 20 52.00 0.8
LBFM 34.92 323 iP 21 02.30 -0.8
PNT 39.43 334 eP 21 41.00 0.3
ZOBO 41.00 139 P 21 55.00 0.4
LR 35 40.00
LPB 41.22 139 eP 21 39.00 -17.2X
CNCB 41.50 139 eP 21 54.00 -4.7X

SIV 45.59 132 P 22 25.40 -5.8X
YKA 49.05 348 eP 22 56.60 -1.1
0.6s 3.70nm 4.6mb
FRB 51.54 14 ePd 23 15.10 -1.5
BAO 55.51 122 eP 23 47.50 0.7
PPD 56.53 130 eP 23 55.40 1.5
INK 58.33 344 ePd 24 04.90 -1.0
VAO 60.34 128 eP 24 21.80 1.3
e 24 27.30
PDCR 61.62 114 eP 24 24.00 -5.3X
e 24 27.10
MBC 62.18 354 eP 24 31.00 -1.1
EKA 78.33 36 Pd 26 10.60 0.2
0.9s 27.00nm 5.3mb
GUD 80.52 50 e(P) 26 22.20 -0.6
TOL 80.76 51 eP 26 18.00 -5.9X
LPF 81.10 43 eP 26 25.40 0.0
1.0s 22.00nm 5.1mb
GRR 81.13 42 eP 26 25.60 0.0
0.6s 0.90nm 3.9mb X
FLN 81.29 42 eP 26 26.70 0.3
0.6s 8.10nm 4.9mb
Z 20s 0.10um 4.2Msz
ECRI 81.30 48 e(P) 26 26.60 -0.1
LDF 81.56 42 eP 26 27.90 0.1
0.8s 10.75nm 4.9mb
AFC 81.73 54 e(P) 26 28.50 -0.7
ETOR 82.04 50 e(P) 26 30.20 -0.4
LFF 83.03 45 eP 26 35.50 -0.1
1.0s 16.00nm 5.0mb
LSF 83.23 44 eP 26 35.90 -0.7
1.1s 12.20nm 4.9mb
LPO 83.41 46 eP 26 36.90 -0.6
1.0s 12.00nm 4.9mb
RJF 83.47 45 eP 26 37.50 -0.3
1.0s 14.00nm 5.0mb
Z 20s 0.10um 4.2Msz
TCF 83.68 44 eP 26 38.30 -0.6
0.8s 5.35nm 4.7mb
MAF 83.93 44 eP 26 40.20 0.0
1.0s 10.00nm 4.9mb
CAF 83.94 45 eP 26 39.80 -0.5
1.1s 9.75nm 4.8mb
BGF 84.03 43 eP 26 40.50 -0.1
1.0s 18.00nm 5.1mb
NB2 84.12 28 P 26 40.60 -0.2
0.9s 12.60nm 5.0mb
AVF 84.30 43 eP 26 41.60 -0.3
0.8s 6.70nm 4.8mb
SSF 84.32 43 eP 26 41.70 -0.4
1.0s 12.00nm 5.0mb
LOR 84.49 43 eP 26 42.80 -0.1
1.1s 19.55nm 5.2mb
Z 20s 0.10um 4.2Msz
LBF 84.65 43 eP 26 43.40 -0.4
1.0s 10.00nm 4.9mb
SMF 84.66 43 eP 26 43.40 -0.4
0.8s 8.05nm 4.9mb
ENN 84.75 39 eP 26 45.00 0.9
1.0s 29.00nm 5.4mb
e 26 55.50
WTS 84.90 37 eP 26 43.00 -1.8
HFS 85.60 28 eP 26 49.90 1.7
1.1s 21.90nm 5.3mb
Z 18s 0.08um 4.2Msz
LR 56 18.00
HAU 85.88 41 eP 26 50.40 0.5
0.8s 8.05nm 5.0mb
Z 20s 0.08um 4.1Msz
A8H 86.02 39 eP 26 51.65 1.1
BSF 86.21 41 eP 26 51.80 0.2
1.0s 12.00nm 5.1mb
CDF 86.33 41 eP 26 52.60 0.4
0.8s 5.35nm 4.8mb
LPL 86.92 44 eP 26 56.50 1.2
1.2s 11.90nm 5.0mb
LPG 86.94 44 eP 26 56.80 1.3
1.2s 11.90nm 5.0mb
LMR 87.47 46 eP 26 58.30 0.6
0.9s 19.65nm 5.4mb
FRF 87.49 46 eP 26 58.30 0.5
0.8s 13.45nm 5.2mb
LIC 88.06 84 P 26 58.70 -2.3
MOX 88.19 38 e(P) 27 03.00 2.0
KIC 88.29 84 P 26 59.70 -2.4
CLL 88.75 37 e(P) 27 06.00 2.4
KHC 89.95 39 eP 27 11.10 1.7

PRU 90.18 38 eP 27 12.00 1.6
WRA 133.19 257 PKP 33 23.00 -3.9X
0.9s 3.90nm
HYB 146.68 12 ePKP 33 50.50 -0.7
GBA 150.11 15 PKP 34 01.00 4.5X
0.7s 2.90nm
S.D. = 1.0 on 79 of 87 obs.

% NOV 10, 1990 01h 21m 55.23±0.88s
37.042 N ± 8.2km 3.599 W ± 7.2km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.2 (MDD).

AFC 0.22 12 iPg 21 59.40 -0.6
eSg 22 03.00
ECOG 0.24 6 iPg 21 59.80 -0.6
eSg 22 03.50
MAL 0.72 245 iPg 22 07.20 -2.2
iSg 22 14.20
ENIJ 1.11 93 ePg 22 16.30 0.3
eSg 22 30.40
EBAN 1.13 353 iPg 22 16.70 0.3
eSg 22 31.40
EPRU 1.31 267 ePn 22 20.00 0.5
eSn 22 39.70
EHOR 1.52 301 ePn 22 23.20 0.7
eSn 22 43.50
EJIF 1.61 249 ePn 22 25.20 1.4
EVIA 1.81 28 ePn 22 27.00 0.2
S.D. = 1.2 on 9 of 9 obs.

% NOV 10, 1990 01h 52m 35.29±0.80s
42.276 N ± 10.5km 6.829 W ± 11.4km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD).

ERUA 0.26 297 iPg 52 40.60 -0.2
eSg 52 43.30
EMON 1.22 343 ePn 52 57.90 -0.1
eSn 53 15.40
STS 1.41 296 eP 53 01.30 0.3
eS 53 21.50
EPLA 2.28 165 ePn 53 13.50 -0.1
eSn 53 39.60
GUD 2.59 128 iPnc 53 18.10 0.0
eSn 53 49.00
ECRI 3.21 83 eP 53 53.50 26.7X
eS 54 10.00
S.D. = 0.3 on 5 of 6 obs.

? NOV 10, 1990 02h 32m 31.58±11.33s
24.770 S ± 93.8km 70.907 W ± 36.7km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF NORTHERN CHILE (122)
Felt (III) at Antofagosto.

ANT 1.15 23 iPd 32 53.10 0.0
iS 32 56.50
ARE 8.28 356 eP 34 35.00 0.1
eS 35 52.00
CNCB 8.38 20 P 34 37.00 0.5
LPB 8.61 18 P 34 40.00 0.5
ZOBO 8.85 18 P 34 42.00 -1.0
SIV 12.69 48 P 35 32.60 -2.4X
S.D. = 0.9 on 5 of 6 obs.

? NOV 10, 1990 02h 49m 53.27±7.11s
14.659 N ± 32.9km 60.424 W ± 50.3km
DEPTH = 30.5 ± 14.3 km
WINDWARD ISLANDS (95)
ML 3.1 (FDF).

MVM 0.47 257 iPd 50 03.38 0.1
CRM 0.48 281 eP 50 03.35 -0.1
S 50 12.20
BIM 0.64 257 iPd 50 06.04 0.0
S 50 13.70
FDF 0.71 276 iPd 50 06.85 -0.2
0.1s 2.75nm
S 50 18.00
BBL 1.33 310 eP 50 16.20 0.3
S 50 34.00
DEG 1.75 340 eP 50 22.00 -0.1
S 50 41.00
S.D. = 0.3 on 6 of 6 obs.

NOV 10, 1990 04h 55m 28.40±0.47s
43.522 N ± 4.2km 0.566 W ± 6.0km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 3.5 (LDG). mbLg 3.1 (MDD).
Felt (IV) in the Locq oilfield,
France.

BTM 0.48 147 iPg 55 37.60 -0.5
iSg 55 45.00
EPF 0.82 126 Pg 55 44.80 0.4
Sg 55 56.30
ECRI 1.69 238 eP 55 59.30 1.1
eS 56 18.50
LFF 1.70 33 Pn 56 00.20 2.0
Pg 56 04.00
LPO 1.72 47 Pn 56 28.40
Pg 56 00.40 1.9
Pg 56 04.00
Sg 56 29.40
RJF 2.32 39 Pn 56 08.00 0.7
Pg 56 15.20
Sg 56 47.00
CAF 2.35 53 Pn 56 08.60 0.8
Pg 56 16.00
Sg 56 48.80
EROO 2.79 165 eP 56 19.20 5.2X
eS 56 51.50
ETER 2.79 115 eP 56 23.00 9.0X
EBR 2.81 163 ePn 56 22.00 7.8X
eSg 56 58.00
ETOR 2.92 203 eP 56 15.50 -0.3
eS 56 51.00
MFF 3.09 5 Pn 56 19.00 0.9
Pg 56 30.20
Sn 56 55.60
Sg 57 11.40
LSF 3.11 28 Pn 56 19.40 1.0
Sn 56 56.20
Sg 57 12.00
TCF 3.40 35 Pn 56 22.40 -0.1
Pg 56 36.00
Sn 57 02.40
Sg 57 21.60
MAF 3.50 38 Pn 56 23.40 -0.5
Pg 56 36.80
Sn 57 06.00
Sg 57 24.00
BGF 3.88 37 Pn 56 28.80 -0.6
Pg 56 45.00
Sn 57 15.20
Sg 57 35.60
GUD 3.92 224 eP 56 29.60 -0.5
eS 57 13.80
ECHE 3.94 185 eP 56 32.50 2.2X
eS 57 18.00
AVF 4.28 39 Pn 56 34.80 -0.3
Pg 56 52.00
Sn 57 24.40
Sg 57 48.00
SMF 4.41 43 Pn 56 36.20 -0.8
Pg 56 54.00
Sg 57 53.20
LPF 4.52 356 Pn 56 38.50 0.1
Sn 57 29.20
Sg 57 56.00
SSF 4.56 38 Pn 56 37.80 -1.2
Pg 56 57.00
Sg 57 58.00
LBF 4.72 41 Pn 56 40.00 -1.3
Pg 56 59.80
Sn 57 35.70
Sg 58 03.00
GRR 4.87 358 Pn 56 43.20 -0.2
Sn 57 37.50
LOR 4.87 38 Pn 56 42.40 -1.1
Pg 57 03.00
Sn 57 37.50
Sg 58 08.00
LDF 5.08 3 Pn 56 45.80 -0.6
FLN 5.24 1 Pn 56 47.60 -1.0
S.D. = 1.0 on 23 of 27 obs.

NOV 10, 1990 05h 03m 03.84±0.52s
44.294 N ± 4.0km 7.226 E ± 4.6km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.1 (GEN), 2.0 (LDG).

STV 0.09 125 P 03 06.68 0.2
S 03 08.32
ENR 0.16 116 P 03 07.69 0.2
S 03 09.92
PZZ 0.23 337 P 03 08.92 0.1
S 03 12.07
SBF 0.46 161 Pg 03 12.60 -0.6
Sg 03 18.80
ROB 0.46 90 P 03 13.55 0.3
S 03 19.90
BHB 0.55 3 P 03 14.69 -0.2
S 03 21.53
FIN 0.71 97 P 03 17.65 -0.2
S 03 27.39
FRF 0.84 210 Pg 03 20.40 0.3
Sg 03 30.00
LRG 1.05 217 Pg 03 23.60 0.0
Sg 03 36.60
S.D. = 0.3 on 9 of 9 obs.

NOV 10, 1990 06h 23m 18.85±1.15s
43.637 N ± 7.9km 7.587 E ± 8.1km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.3 (LDG), 2.2 (GEN).

SBF 0.25 334 Pg 23 24.40 0.2
Sg 23 28.40
ENR 0.60 349 P 23 30.77 -0.3
S 23 38.53
STV 0.64 343 P 23 31.44 -0.2
S 23 39.69
FRF 0.69 264 Pg 23 32.30 -0.2
Sg 23 41.60
ROB 0.69 17 P 23 32.56 0.0
S 23 41.79
FIN 0.73 38 P 23 33.18 0.0
S 23 42.82
LMR 0.84 249 Pg 23 35.20 0.1
Sg 23 45.50
LRG 0.91 259 Pg 23 36.20 0.0
Sg 23 48.40
PZZ 0.94 338 P 23 37.08 0.3
S 23 49.07
S.D. = 0.2 on 9 of 9 obs.

NOV 10, 1990 06h 43m 59.92±1.20s
62.207 N ± 6.2km 1.554 E ± 10.3km
DEPTH = 11.0 ± 4.7 km
4.0mb (7 obs.)

NORWEGIAN SEA (642)

OSG 1.83 159 iPd 44 35.38 3.9X
eS 44 53.87
SUE 1.92 126 iPd 44 33.59 0.8
eSg 44 52.69
HYA 2.44 113 iPd 44 41.23 0.9
eSg 45 06.50
ASK 2.46 133 eP 44 41.39 0.8
eS 45 06.40
BER 2.58 133 iP 44 43.10 0.8
MOL 2.82 80 eP 44 47.05 1.4
eS 45 15.26
ODD1 3.37 131 eP 44 54.36 0.8
eS 45 28.16
KMY 3.51 147 iPd 44 56.14 0.7
eS 45 31.68
BLS2 3.94 136 eP 45 02.26 0.6
eS 45 41.51
NRA0 5.01 103 Pn 45 15.60 -1.1
Sn 46 06.60
Sg 46 23.30
NSS 5.23 59 eP 45 21.03 1.2
eS 46 14.20
HFS 6.23 104 eP 45 32.50 -1.4
0.2s 9.20nm 5.3mb X
Z 15s 0.08um 4.8msz
EKA 7.31 202 Pd 45 52.90 3.7X
0.5s 9.70nm 5.2mb X
LOF 7.78 35 eP 45 55.52 -0.2
eS 47 11.83
TRO 10.25 36 eP 46 30.95 1.2
NUR 11.20 88 iP 46 41.10 -1.6

10d 06h

KTK1	11.20	43	eP	46	43.16	0.3
SOD	11.82	53	eP	46	49.00	-2.1
SNF	11.82	171	P	46	50.40	-0.8
MEM	11.88	166	Pc	46	53.50	1.5
DOU	12.26	171	P	46	56.80	-0.3
FLN	13.52	186	eP	47	13.90	0.0
	0.6s	12.65nm		5.1mb	X	
LDF	13.68	185	eP	47	16.00	0.0
	0.6s	12.65nm		5.0mb	X	
GRR	13.92	187	eP	47	19.70	0.6
	0.6s	5.40nm		4.5mb	X	
LPF	14.28	187	eP	47	25.40	1.5
LOR	15.03	174	eP	47	32.00	-1.7
	0.6s	4.95nm		4.1mb		
SSF	15.22	175	eP	47	34.60	-1.5
	0.8s	5.35nm		4.0mb		
LBF	15.32	174	eP	47	36.60	-0.9
	0.8s	8.05nm		4.1mb		
AVF	15.48	175	eP	47	38.00	-1.5
	0.8s	5.35nm		3.9mb		
BGF	15.70	177	eP	47	41.50	-0.9
	0.8s	8.05nm		4.0mb		
TCF	15.96	178	eP	47	45.70	0.0
	0.6s	4.50nm		3.8mb		
MAF	16.03	177	eP	47	46.30	-0.3
	0.8s	4.05nm		3.6mb		
LFF	17.31	182	eP	48	04.00	1.3
LPO	17.56	181	eP	48	07.00	1.1
	S.D. = 1.2	on	32	of	34	obs.

? NOV 10, 1990 07h 19m 17.74±0.84s
39.066 N ±15.8km 15.513 E ±29.2km
DEPTH = 260.0km (geophysicist)
SOUTHERN ITALY (390)

CZI	0.51	72	P	19	51.30	-0.5
ACI	0.61	62	P	19	52.10	0.0
TDS	0.87	47	P	19	53.30	-0.2
			eSn	20	18.80	
ATN	0.90	182	P	19	53.80	0.2
			eSn	20	19.50	
CSI	0.93	40	P	19	54.50	0.7
ROI	0.96	58	P	19	54.00	0.0
MGR	1.07	2	P	19	54.00	-0.5
ORI	1.23	36	Pd	19	55.40	-0.1
			eSn	20	23.00	
SGO	1.50	354	P	19	57.50	0.3
	S.D. = 0.4	on	9	of	9	obs.

* NOV 10, 1990 07h 38m 24.70±1.15s
38.813 N ±8.0km 20.436 E ±10.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.2 (THE). MD 3.2 (ATH).

VLS	0.65	169	eP	38	38.00	0.4
IGT	0.72	354	iPc	38	37.30	-1.6
			eS	38	48.16	
KEK	1.03	331	eP	38	44.00	-0.1
EVR	1.08	84	eP	38	43.50	-1.5
AGG	1.49	81	eP	38	49.68	-1.9
			eS	39	09.56	
KZN	1.81	34	ePb	38	56.50	0.2
ITM	2.01	144	eP	39	03.00	3.9X
LIT	2.05	50	ePd	38	59.98	0.4
			eS	39	25.12	
FNA	2.10	20	eP	39	01.08	0.7
			eS	39	27.76	
NEO	2.23	76	ePb	39	04.00	1.8
VAY	2.99	32	ePn	39	14.30	1.3
KNT	3.01	38	ePc	39	13.56	0.2
SKO	3.25	13	ePn	39	20.00	3.3X
	S.D. = 1.3	on	11	of	13	obs.

? NOV 10, 1990 07h 41m 34.98±0.92s
38.940 N ±15.6km 74.669 E ±18.6km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
TAJIK-XINJIANG BORDER REGION (719)

NDI	10.45	168	iPd	44	05.80	0.3
	0.5s	28.17nm		5.8mb	X	
			eS	45	47.80	
GKN	13.71	140	P	44	49.70	0.2
KKN	14.21	138	P	44	56.80	0.7
DMN	14.27	139	P	44	56.80	-0.1

GUN	14.43	136	P	44	59.60	0.5
PKI	14.45	138	P	44	59.20	-0.2
GBA	25.35	174	Pc	47	00.00	-0.6
	0.4s	2.70nm		4.2mb		
HFS	43.01	320	eP	49	33.20	0.7
	0.5s	1.60nm		4.0mb		
WRA	80.90	125	P	53	46.00	-1.4
	1.0s	1.20nm		3.8mb		
	S.D. = 0.8	on	9	of	9	obs.

* NOV 10, 1990 09h 35m 44.43±0.78s
41.109 N ±7.1km 22.478 E ±8.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (THE). 1.5 (SKO).

GRG	0.16	201	iPc	35	48.42	0.2
			eS	35	51.36	
VAY	0.22	18	iPg	35	49.20	0.0
			iSg	35	52.40	
KNT	0.32	80	iPd	35	51.17	0.1
			eS	35	55.80	
FNA	0.90	249	ePc	36	01.60	0.0
			eS	36	13.56	
LIT	1.01	179	ePc	36	03.28	-0.2
	S.D. = 0.2	on	5	of	5	obs.

? NOV 10, 1990 09h 46m 03.25±1.07s
35.329 N ±24.8km 71.587 E ±22.0km
DEPTH = 33.0km (normal)
5.3mb (4 obs.)
PAKISTAN (710)

NDI	8.17	143	eP	48	02.40	0.0
			eS	49	30.20	
GKN	13.29	120	P	49	12.40	0.1
	0.6s	21.00nm		5.3mb		
DMN	13.86	120	P	49	19.90	0.1
	0.6s	36.00nm		5.3mb		
KKN	13.88	119	P	49	20.00	0.0
	0.6s	33.00nm		5.3mb		
PKI	14.10	119	P	49	23.00	0.0
	0.4s	12.00nm		4.9mb		
GUN	14.24	117	P	49	24.70	-0.2
HFS	44.28	323	eP	54	11.20	0.0
	0.6s	1.30nm		3.9mb	X	
	S.D. = 0.1	on	7	of	7	obs.

* NOV 10, 1990 10h 04m 12.61±1.35s
19.218 S ±13.3km 178.204 W ±19.8km
DEPTH = 519.9 ±11.9 km
4.6mb (3 obs.)
FIJI ISLANDS REGION (181)

MBU	3.68	307	iP	05	30.50	-0.2
WLZ	19.33	195	P	08	06.60	1.9
NOZ	19.61	189	eP	08	07.90	0.6
MNG	22.01	193	eP	08	27.20	-2.3
PMG	34.89	281	eP	10	22.00	0.4
WB5	44.58	261	eP	11	39.90	0.1
ASPA	44.64	255	eP	11	40.50	0.3
	0.8s	28.60nm		4.9mb		
			iS	17	41.80	
MTN	48.97	270	eP	12	13.00	-0.3
MBL	57.86	257	eP	13	16.20	-0.3
NANU	61.55	254	iPd	13	40.20	-0.8
	0.5s	11.00nm		4.6mb		
SPA	70.90	180	iPd	14	38.20	-0.1
	0.8s	11.67nm		4.5mb		
CHTO	89.63	290	eP	16	16.70	0.7
EKA	143.75	5	PKPd	22	42.70	-6.5X
	1.7s	30.30nm				
CLL	146.77	347	iPKPc	22	54.10	-0.2
	1.0s	17.00nm				
BRG	146.98	346	iPKP	22	54.80	0.1
	0.8s	12.00nm				
FLN	150.47	3	ePKP	23	02.50	2.4X
	0.8s	6.70nm				
CDF	150.54	353	ePKP	23	03.30	2.9X
LDF	150.66	3	ePKP	23	02.70	2.3X
	0.8s	8.05nm				
GRR	150.82	4	ePKP	23	03.40	2.7X
	0.6s	5.40nm				
LPF	151.17	4	ePKP	23	04.30	3.1X
	0.6s	9.90nm				
BSF	151.17	353	ePKP	23	04.30	2.9X
	0.6s	2.70nm				

LOR	151.97	357	ePKP	23	06.20	3.8X
	0.8s	5.35nm				
SSF	152.19	357	ePKP	23	06.80	4.1X
	0.8s	4.05nm				
LBF	152.25	357	ePKP	23	06.90	4.0X
	0.8s	4.05nm				
	S.D. = 1.1	on	14	of	24	obs.

? NOV 10, 1990 10h 18m 21.61±3.60s
39.219 N ±11.7km 27.015 E ±50.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.84	167	iPg	18	37.90	0.0
			iSg	18	51.90	
EDC	1.30	30	ePn	18	45.00	-0.7
BNT	1.33	31	iPn	18	47.30	1.1
KCT	1.46	45	ePn	18	47.30	-0.7
IZI	2.20	59	ePn	18	59.00	0.2
	S.D. = 1.1	on	5	of	5	obs.

? NOV 10, 1990 10h 29m 24.49±1.65s
44.521 N ±7.5km 6.866 E ±13.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

PZZ	0.17	95	P	29	28.82	0.4
			S	29	31.36	
RRL	0.40	352	P	29	33.02	0.2
			S	29	38.95	
BHB	0.43	41	P	29	33.05	-0.2
			S	29	38.81	
STV	0.43	130	P	29	33.14	-0.2
			S	29	39.15	
ENR	0.50	126	P	29	34.32	-0.2
			S	29	41.09	
RSP	0.69	24	P	29	37.92	-0.3
			S	29	46.55	
ROB	0.76	107	P	29	39.56	0.3
			S	29	48.28	
LSD	0.96	12	P	29	42.94	0.0
	S.D. = 0.3	on	8	of	8	obs.

* NOV 10, 1990 11h 07m 46.86±1.32s
1.664 S ±9.4km 100.478 E ±8.3km
DEPTH = 80.1 ±9.9 km
4.9mb (11 obs.)
SOUTHERN SUMATERA (274)

PPI	1.20	356	ePd	08	08.50	-0.2
			e(S)	08	20.50	
KGM	4.63	38	ePd	08	56.40	0.5
			e	10	15.00	
KLM	4.88	14	eP	09	01.00	1.7
IPM	6.23	5	ePd	09	19.50	1.4
	0.6s	89.30nm		5.3mb		
SNG	8.78	1	eP	09	51.90	-1.4
BSI	8.80	324	eP	09	50.50	-3.0
KKM	17.48	64	eP	11	49.00	1.9
CHG	20.40	356	eP	12	19.50	-0.4
CHTO	20.40	356	eP	12	19.40	-0.4
	1.0s	9.00nm		4.1mb		
KOD	25.77	298	eP	13	13.00	0.5
MBL	27.05	137	eP	13	23.50	-0.2
GBA	27.42	304	Pd	13	27.30	0.1
	0.7s	4.00nm		4.1mb		
GYA	28.59	12	Pc	13	37.00	-0.7
PKI	32.48	335	P	14	12.20	-0.1
	0.6s	13.00nm		4.9mb		
GUN	32.58	336	P	14	13.40	0.2
DMN	32.65	334	P	14	13.90	0.2
KKN	32.73	335	P	14	14.20	-0.1
GKN	33.19	334	P	14	18.20	-0.1
WHN	34.65	21	eP	14	31.00	0.4
XAN	36.39	12	iPc	14	44.40	-0.9
LZH	37.69	4	eP	14	55.50	-0.9
	1.5s	42.00nm		5.1mb		
WB5	37.75	121	eP	14	54.20	-2.8
ASPA	39.06	127	eP	15	00.20	-7.7X
	1.1s	5.80nm		4.4mb		
TIY	40.71					

CN2 50.49 23 Pc 16 37.60 -1.1
 MAW 70.73 194 e(P) 19 11.00 15.1X
 BCAO 82.10 275 iPd 20 02.50 1.8
 0.6s 8.00nm 4.8mb
 SUF 84.33 334 eP 20 11.00 0.0
 NUR 84.49 331 eP 20 12.00 0.2
 SOD 85.35 338 iP 20 16.30 0.2
 KEV 85.87 340 eP 20 12.00 -6.6X
 KSP 87.60 321 eP 20 28.50 1.2
 PRU 88.64 320 eP 20 33.00 0.6
 BRG 89.08 321 iP 20 35.30 0.9
 1.6s 25.00nm 5.2mb

CLL 89.70 321 iP 20 38.40 1.1
 HFS 89.82 330 eP 20 37.50 -0.2
 0.7s 6.60nm 5.0mb
 NB2 91.09 331 P 20 43.40 -0.2
 0.8s 2.90nm 4.6mb
 ALQ 138.46 34 ePKP 26 57.00 -8.8X
 UYO 144.78 22 iPKPc 27 15.20 -1.4
 SIV 154.70 225 PKP 27 33.00 0.8
 CNCB 158.40 211 PKP 27 36.80 -0.8
 LPB 158.69 212 (PKP) 27 31.00 -6.7X
 ZOBO 158.92 212 PKP 27 39.00 0.8
 S.D. = 1.1 on 41 of 46 obs.

% NOV 10, 1990 11h 27m 35.09±2.56s
 61.862 N ±15.4km 4.960 E ±22.0km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.1 (BER).

SUE 0.81 187 eP 27 50.60 -0.2
 eSg 28 01.24
 HYA 0.91 139 eP 27 53.03 0.5
 eSg 28 05.86
 ASK 1.39 175 eP 27 59.57 -0.9
 eSg 28 19.24
 MDL 1.41 58 eP 28 01.22 0.5
 eSg 28 19.88
 BLS2 2.75 158 eP 28 21.62 1.4
 eSg 28 50.33
 NRA0 3.37 107 Pn 28 27.40 -1.4
 Lg 29 20.80
 S.D. = 1.3 on 6 of 6 obs.

NOV 10, 1990 11h 30m 29.08±0.15s
 12.212 N ±3.3km 93.749 E ±2.9km
 DEPTH = 33.0km (normol)
 5.3mb (62 obs.) 4.9MsZ (14 obs.)
 ANDAMAN ISLANDS REGION (703)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 33C
 Centroid Location:
 Origin Time 11:30:28.8 0.4
 Lat 12.20N 0.05 Lon 93.75E 0.04
 Dep 41.5 4.8 Half-duration 1.7
 Moment Tensor: Scale 10**17 Nm
 Mrr=0.09 0.05 Mtt=1.10 0.08
 Mff=-1.19 0.08 Mrt=0.03 0.12
 Mrrf=-0.12 0.10 Mtf=1.11 0.06
 Principal Axes:
 T Vol=1.54 Plg=1 Azm=158
 N 0.10 86 56
 P -1.64 4 248
 Best Double Couple: Mo=1.6*10**17
 NP1: Strike=293 Dip=87 Slip=-2
 NP2: 23 80 -177

BSI 6.85 167 ePd 32 13.50 3.7X
 NST 7.09 60 eP 32 11.50 -1.7
 BDT 7.13 45 eP 32 12.00 -1.8
 1.0s 276.00nm 6.2mb
 PCT 7.85 71 iPc 32 21.90 -1.9
 0.5s 10.00nm 5.1mb
 CHG 8.25 37 ePc 32 29.80 0.3
 1.1s 127.22nm 6.0mb
 eS 34 16.00
 CHTO 8.25 37 ePn 32 28.20 -1.3
 SNG 8.42 126 eP 32 28.00 -3.8X
 eS 34 12.00
 LOE 9.28 55 iPd 32 43.00 -0.8
 IPM 10.45 136 ePc 32 57.90 -1.9
 0.9s 44.80nm 5.7mb
 KLM 11.96 139 eP 33 19.50 -0.8
 KGM 13.88 136 ePd 33 45.60 -0.2

PPI 14.21 152 eP 33 49.40 -0.7
 KMI 15.40 32 Pc 34 09.00 3.1X
 2.5s 300.00nm 5.1mb
 Z 14s 5.70um 4.3MsZ
 N 12s 5.50um
 E 12s 5.50um

HYB 15.57 291 eP 34 07.50 -0.5
 1.2s 378.50nm 5.5mb
 i 34 15.50
 eS 36 50.50

GBA 15.96 277 Pd 34 12.80 -0.1
 1.1s 106.40nm 4.9mb
 KOD 16.09 265 iPd 34 15.00 0.1
 0.8s 111.94nm 5.0mb

QIZ 16.91 64 eP 34 25.20 0.2
 N 11s 9.90um
 E 12s 7.80um

PKI 17.16 334 P 34 26.36 -2.0
 GUN 17.27 336 P 34 28.06 -1.7
 DMN 17.33 333 P 34 28.36 -2.0
 KKN 17.41 334 P 34 28.98 -2.4
 LSA 17.57 352 P 34 34.00 0.4
 3.0s 950.00nm 5.4mb

N 12s 1.05um
 E 12s 1.48um
 S 37 50.00

GKN 17.87 333 P 34 34.56 -2.5
 GYA 18.67 39 Pd 34 47.40 0.6
 Z 16s 3.80um
 N 11s 7.10um
 E 11s 9.30um

POO 20.18 291 iPc 35 08.00 4.1X
 1.3s 246.15nm 5.4mb
 CD2 20.78 25 eP 35 09.00 -1.0
 Z 15s 7.79um 5.2MsZ
 pP 35 15.00 22kmX
 sP 35 21.50
 PP 35 31.00
 S 39 02.50

BOM 21.22 291 eP 35 18.00 3.5X
 eS 38 25.00
 GZH 21.55 57 eP 35 18.30 0.5
 Z 18s 4.10um 4.9MsZ
 N 12s 3.60um
 E 14s 2.60um

NDI 22.50 319 iPc 35 29.50 2.3
 0.9s 193.28nm 5.6mb
 eS 39 34.00

KKM 23.00 103 ePc 35 35.20 2.9
 LZH 25.46 19 P 35 56.00 0.1
 1.5s 170.00nm 5.4mb
 Z 20s 4.37um 5.0MsZ
 N 14s 3.76um
 E 14s 2.87um

pP 36 06.00 37kmX
 sP 36 12.00
 PP 36 39.00

XAN 25.76 30 P 35 59.60 1.0
 1.0s 30.00nm 4.8mb
 BAG 26.32 78 eP 36 04.50 0.4
 WHN 26.39 43 P 36 06.00 1.6

Z 16s 4.80um 5.1MsZ
 N 11s 4.70um
 E 11s 4.50um

pP 36 12.50 23kmX
 eP 36 07.70 0.6
 Z 16s 3.60um 5.0MsZ
 N 16s 3.00um
 E 16s 3.60um

QCP 26.68 82 eP 36 07.00 -0.2
 TRT 27.28 136 iPc 36 12.60 0.0
 0.6s 113.30nm 5.7mb
 GTA 27.62 10 Pc 36 16.40 0.7
 1.2s 1080.00nm 6.4mb X
 Z 18s 3.20um 4.9MsZ
 E 14s 2.60um

pP 36 24.40 28kmX
 eS 40 54.00
 NJ2 30.37 45 Pd 36 40.50 0.2
 1.2s 100.00nm 5.5mb
 N 16s 5.90um
 E 16s 3.50um

pP 36 48.00 26kmX

TIY 30.40 30 eP 41 45.00
 Z 14s 4.00um 5.2MsZ
 N 15s 6.20um
 E 14s 4.60um

QUE 30.60 310 iPd 41 38.00
 SSE 31.53 49 P 36 49.50 -1.0
 1.0s 19.00nm 4.9mb
 Z 20s 2.80um 4.9MsZ
 N 13s 3.80um
 E 11s 2.60um

eS 42 01.00
 BTO 31.69 24 eP 36 53.00 1.0
 N 13s 2.70um
 E 13s 2.90um

DAV 31.77 96 eP 36 56.90 4.1X
 TIA 31.85 37 eP 36 55.00 1.7
 Z 16s 3.70um 5.2MsZ
 N 16s 2.90um
 E 11s 2.40um

WMQ 31.93 352 P 36 54.00 0.0
 Z 22s 2.40um 4.8MsZ
 N 16s 2.00um
 E 16s 2.80um

S 42 05.50
 HHC 32.54 26 eP 37 00.60 1.2
 1.4s 100.00nm 5.5mb
 Z 20s 2.50um 4.9MsZ

BJI 34.06 32 eP 37 14.00 1.6
 1.2s 1024.00nm 6.6mb X
 Z 20s 2.39um 4.9MsZ
 N 19s 4.89um
 E 19s 8.31um

DL2 36.32 38 eP 37 32.60 0.9
 Z 17s 2.40um 5.0MsZ
 MAIO 39.04 314 iPc 38 00.20 5.5X
 eS 44 06.00

NANU 40.62 148 iPd 38 06.10 -1.6
 MBL 41.91 142 iPc 38 17.90 -0.4
 0.7s 181.00nm 5.9mb

SHI 41.96 301 eP 38 24.00 5.0X
 MTN 44.66 123 eP 38 40.00 -0.8
 MEKA 45.49 148 iPd 38 47.00 -0.3
 MRWA 46.45 153 eP 38 55.00 0.2
 MAT 46.64 51 (P) 39 04.00 7.7X
 2.2s 500.00nm 6.1mb

eS 44 50.00
 BAL 47.96 153 eP 39 06.00 -0.7
 MUN 48.92 154 eP 39 13.00 -1.1
 KLB 49.27 153 eP 39 16.00 -0.8
 WARB 49.80 140 eP 39 20.00 -1.0
 0.6s 6.00nm 4.8mb

NWAO 50.18 154 eP 39 26.00 2.3
 RKG 51.07 155 eP 39 38.80 8.3X
 WB5 51.14 128 eP 39 30.70 -0.6
 WRA 51.16 128 P 39 30.00 -1.4
 0.8s 62.50nm 5.6mb

ASPA 53.04 132 iPc 39 44.40 -1.1
 0.8s 102.80nm 5.8mb

QIS 55.62 125 iPd 40 04.00 -0.4
 PRNI 57.04 298 eP 40 15.00 0.4
 MBH 57.09 298 eP 40 21.00 6.1X
 PMG 57.25 110 eP 40 16.50 0.4
 KVT 57.83 311 eP 40 20.00 0.1

NAI 58.10 261 eP 40 21.00 -1.4
 BBTK 60.05 309 eP 40 35.00 -0.5
 CTA 60.82 121 iPd 40 40.60 -0.2
 1.3s 63.46nm 5.6mb

ELL 61.87 305 iP 40 46.50 -1.5
 ALT 61.97 308 eP 40 46.00 -2.5
 KHL 62.34 307 eP 40 50.00 -1.0
 QLP 62.39 129 iPd 40 51.90 0.6
 IZI 62.62 309 eP 40 50.00 -2.8

JMB 65.03 311 iP 41 09.00 0.6
 VRI 65.35 315 ePd 41 10.50 0.1
 DIM 65.77 311 eP 41 13.00 -0.1
 KDZ 65.82 310 iPd 41 14.00 0.5
 RMQ 65.84 126 iPd 41 13.40 -0.4
 0.9s 95.00nm 5.9mb

MLR 65.85 314 iPd 41 13.50 -0.3
 PVL 66.03 312 eP 41 16.00 1.3
 LWI 66.08 262 iPd 41 16.20 0.4
 CMS 66.17 133 eP 41 16.00 0.2
 RZN 66.34 310 iPc 41 17.00 -0.1

PLD 66.39 311 eP 41 18.00 0.9
 CMP 66.45 314 ePd 41 09.00 -8.5X

10d 11h

PGB	66.82	311	ePc	41	19.00	-0.9	FVI	75.05	315	P	42	10.00	0.7	AKU	87.67	337	eP	43	16.40	1.1
PAIG	67.01	308	eP	41	20.70	-0.4	ARV	75.06	312	P	42	12.00	2.5		1.0s	28.00nm			5.5mb	
SOH	67.31	309	eP	41	22.20	-0.8	VVI	75.32	315	P	42	12.00	1.0	IMA	87.78	22	eP	43	17.60	1.6
VTS	67.53	311	eP	41	24.00	-0.6	SEK	75.54	236	iPc	42	12.50	-0.2	FBA	90.49	22	eP	43	33.70	5.0X
KKB	67.57	310	iPc	41	24.00	-0.7		0.4s	8.47nm				5.1mb	IFR	90.60	304	iPd	43	32.00	2.0
BMR	67.78	317	ePc	41	32.00	6.2X	MOX	75.68	319	eP	42	13.00	0.1	TOA	92.58	24	eP	43	21.90	-16.5X
VAY	67.93	310	iP	41	25.70	-1.1		1.9s	73.00nm			5.4mb	INK	92.95	16	eP	43	40.00	0.1	
	1.2s	66.00nm				5.6mb	CRE	75.77	312	P	42	13.50	-0.2	ALO	129.34	22	ePKP	49	37.00	0.4
		i	41	32.40			CRE	75.77	312	P	42	16.60	2.9	BAO	142.74	260	ePKP	49	58.70	-3.2X
LIT	67.93	308	eP	41	25.60	-1.3	NB2	75.79	330	P	42	13.10	-0.3	PPD	145.29	249	ePKP	50	06.20	0.3
AGG	68.01	307	eP	41	25.30	-2.2		0.7s	10.00nm			4.9mb							50	07.90
GRG	68.03	309	eP	41	26.70	-0.9	SFI	75.83	312	P	42	15.00	1.2						50	12.80
FNA	68.80	309	eP	41	30.80	-1.6	CTI	75.85	315	P	42	13.90	-0.2	SIV	155.30	258	PKP	50	21.00	-0.1
SKO	68.80	310	eP	41	31.00	-1.3	PGD	75.92	312	P	42	15.50	0.9	LPB	161.90	254	PKP	50	28.00	-1.2
BZS	68.88	314	eP	41	18.00	-14.7X	GRF	75.97	318	e(P)	42	14.80	0.2		Z	24s	1.55um			
SVO	69.00	105	eP	41	30.00	-3.9X		Z	22s	0.50um		4.8msz	ZOBO	161.97	255	PKP	50	30.20	0.8	
SUF	69.01	333	eP	41	32.00	-1.1	MME	76.64	313	P	42	19.70	1.0		1.4s	17.03nm				
NUR	69.19	330	eP	41	32.00	-2.3	SAL	76.66	314	P	42	20.00	1.5		Z	24s	0.58um			
	0.8s	22.00nm				5.3mb	BDI	76.72	313	P	42	18.00	-1.0		S.D. = 1.1	on 184	of 214	obs.		
		i	41	42.20			PII	76.80	312	P	42	18.00	-1.3							
HNR	69.20	105	eP	41	37.00	1.9	MDI	77.22	314	P	42	21.00	-0.6							
OHR	69.25	309	eP	41	42.00	6.9X	VDL	77.33	315	ePc	42	22.50	0.0							
TOO	69.30	138	eP	41	37.00	1.6	BOB	77.49	313	P	42	28.00	4.8X							
BRS	69.44	125	iPc	41	36.50	0.1	LLS	77.63	316	ePc	42	24.00	-0.1							
		i	41	55.50			TMA	77.78	315	ePc	42	24.50	-0.4							
BWA	69.57	134	eP	41	41.20	4.1X	FEL	78.21	317	eP	42	27.19	0.0							
KRI	69.63	247	iPd	41	25.90	-12.0X	WTS	78.61	321	eP	42	33.00	3.9X							
SOD	70.07	338	iP	41	39.30	-0.2	DIX	78.79	315	ePc	42	31.00	0.4							
		i	41	48.00			DZM	78.98	116	iPc	42	38.70	6.9X							
SPC	70.08	318	eP	41	39.80	-0.4	SBF	79.01	313	eP	42	31.60	0.0							
COO	70.21	129	eP	41	42.00	0.9		0.8s	24.20nm			5.2mb								
		i	42	08.00			BSF	79.03	317	eP	42	31.60	-0.1							
PSZ	70.22	317	e(P)	41	43.00	2.1		0.8s	8.05nm			4.8mb								
KRA	70.34	319	eP	41	38.50	-3.0X	EMS	79.13	315	ePc	42	32.40	0.1							
	0.8s	38.00nm				5.5mb	MEM	79.25	320	P	42	40.60	8.0X							
		i	41	41.50			ENN	79.29	320	eP	42	31.50	-1.3							
		i	41	43.50			HAU	79.31	317	eP	42	32.90	-0.2							
		e	41	47.70				0.8s	18.80nm			5.1mb								
CAN	70.44	135	eP	41	45.80	3.4X		Z	20s	0.47um		4.8msz								
KEV	70.65	340	eP	41	41.00	-2.0	LPG	79.31	314	eP	42	33.70	0.2							
		e	41	50.00				0.6s	26.60nm			5.4mb								
SRO	71.28	316	iP	41	47.50	0.3	LPL	79.33	314	eP	42	33.80	0.3							
		i	41	50.90			BNI	79.42	314	P	42	34.50	0.6							
BUL	71.68	244	iPc	41	46.90	-3.4X	FRF	79.62	312	eP	42	35.10	0.3							
	0.9s	25.21nm				5.2mb		1.0s	52.00nm			5.5mb								
ZST	72.10	317	eP	41	51.90	-0.3	LRG	79.84	312	eP	42	36.40	0.5							
ROI	72.48	308	P	41	55.60	0.9		0.8s	32.25nm			5.4mb								
UPP	72.56	329	iP	41	54.60	0.1		Z	20s	0.32um		4.7msz								
ORI	72.56	308	P	41	54.00	-1.1	DOU	80.21	319	P	42	38.40	0.6							
GRI	72.62	307	P	41	56.13	0.7	LBF	81.03	316	eP	42	42.30	0.0							
	0.6s	29.90nm				5.5mb		0.8s	18.80nm			5.1mb								
VKA	72.63	317	eP	41	48.50	-6.8X	LOR	81.07	316	eP	42	42.20	-0.3							
		i	41	54.70				1.0s	18.00nm			5.0mb								
TDS	72.66	308	P	41	55.10	-0.5		Z	20s	0.40um		4.8msz								
CSI	72.69	308	P	41	56.60	0.7	SMF	81.17	316	eP	42	43.00	0.0							
KSP	72.71	320	iP	41	56.00	0.3		0.8s	18.80nm			5.1mb								
	0.7s	29.00nm				5.4mb	SSF	81.34	316	eP	42	43.90	0.1							
		i	42	02.60				1.0s	19.00nm			5.1mb								
CZI	72.83	307	P	41	57.40	0.8	AVF	81.49	316	eP	42	44.50	-0.1							
PTJ	72.85	314	eP	41	56.60	-0.2		0.9s	16.40nm			5.0mb								
VBY	73.35	314	eP	42	00.00	0.5	BGF	81.87	316	eP	42	47.40	0.8							
SGO	73.42	309	P	42	01.00	1.0		1.0s	18.00nm			5.1mb								
EVA	73.65	238	iPd	42	02.50	0.7	MAF	82.11	316	eP	42	48.60	0.7							
	1.0s	35.00nm				5.3mb		1.0s	21.00nm			5.1mb								
PRU	73.82	319	ePd	42	03.00	0.8	TCF	82.34	316	eP	42	49.70	0.6							
		e	42	05.50				1.0s	16.00nm			5.0mb								
		PP	45	04.00			CAF	82.67	314	eP	42	51.40	0.5							
								1.0s	18.00nm			5.1mb								
LJU	73.85	315	eP	42	02.50	0.1	MAW	82.68	191	eP	42	51.00	0.8							
CEY	73.93	314	eP	42	02.30	-0.6	LSF	82.82	316	eP	42	51.80	0.3							
SLR	74.02	239	iPc	42	04.00	0.1		0.8s	9.40nm			4.9mb								
	0.9s	33.61nm				5.3mb	RJF	82.99	315	eP	42	53.10	0.6							
	Z	20s	3.55um			5.7msz		0.8s	16.10nm			5.2mb								
BRG	74.20	320	iP	42	04.60	0.2		Z	20s	0.28um		4.6msz								
	1.0s	24.00nm				5.1mb	LPO	83.33	314	eP	42	54.80	0.6							
		i	42	07.40				0.8s	18.80nm			5.3mb								
		i	42	11.10			LDF	83.49	318	eP	42	54.50	-0.4							
		i	42	20.60				0.8s	102.10nm			6.0mb								
VOY	74.29	315	ePc	42	04.80	-0.3	FLN	83.69	318	eP	42	55.70	-0.2							
KHC	74.45	318	P	42	06.50	0.6		0.8s	16.10nm			5.2mb								
HFS	74.55	329	eP	42	05.50	-0.7		Z	20s	0.60um		5.0msz								
	0.4s	9.10nm				5.1mb	MFF	83.89	316	eP	42	57.30	0.3							
	Z	17s	1.00um			5.2mszX		0.8s	80.60nm			5.9mb								
		LR	11	47.00			EKA	83.96	325	Pc	42	58.70	1.6							
BCAO	74.64	271	iPd	42	08.70	1.0		1.1s	21.30nm			5.2mb								
	0.6s	29.00nm				5.5mb	CER	84.02	234	iPc	43	02.10	4.2X							
CLL	74.79	320	eP	42	08.00	0.2		1.0s	40.00nm			5.5mb								
BHG	74.94	316	iPd	42	08.90	0.1														

			iPg	23	56.90				0.7s	142.47nm		5.7mb			0.9s	10.42nm		4.6mb	
			iSg	24	23.20					iS	51	36.70		ALO	88.50	52 eP	53	09.90	-0.4
KHC	2.74	215	iPn	24	07.40	0.3		CMS	33.07	244 iPc	47	10.40	0.8		1.0s	9.25nm		4.6mb	
			Pg	24	14.70				0.8s	120.00nm		5.6mb		ANMO	88.50	52 eP	53	10.30	0.0
			Sn	24	43.50			QLP	34.00	254 iPc	47	18.10	0.7	KMI	88.81	297 Pd	53	13.50	1.6
			Sg	24	52.30			PMG	34.60	284 eP	47	22.50	0.1		1.5s	70.00nm		5.3mb	
HOF	2.81	249	ePn	24	07.60	-0.5		TOO	34.80	234 iPd	47	25.70	1.9	BDT	88.95	289 eP	53	13.00	0.7
MOX	2.85	256	ePn	24	09.00	0.3			0.8s	122.00nm		5.5mb			1.0s	48.30nm		5.3mb	
			iPg	24	17.00			OIS	38.63	263 eP	47	54.00	-1.3	IMA	89.01	10 ePd	53	10.80	-1.0
			iSg	24	55.00			ASPA	43.49	257 iPd	48	33.20	-0.5		0.8s	16.50nm		4.9mb	
									0.9s	115.00nm		5.3mb		FBA	89.04	13 ePd	53	10.20	-1.6
KRA	2.86	116	eP	24	15.00	6.2X				iPcP	50	06.80			0.9s	89.60nm		5.6mb	
			iS	24	52.50					iS	54	16.00		HHC	89.13	315 Pd	53	13.40	0.5
VKA	3.14	176	iPnd	24	21.30	8.5X				iScS	57	23.30		CHG	89.59	290 iPd	53	17.00	1.7
			ic	24	21.80					iPc	48	33.90	-0.6		0.9s	29.20nm		5.2mb	
			i	25	02.00			WB5	43.60	263 iPc	48	33.90	-0.6	CHTO	89.59	290 iPd	53	16.70	1.4
			i	25	05.70					eS	54	17.20			0.7s	21.76nm		5.2mb	
GRF	3.47	242	ePn	24	17.10	-0.4		WRA	43.61	263 P	48	34.00	-0.6						
			ePg	24	29.50				0.3s	65.90nm		5.6mb		BTO	90.04	314 eP	53	17.00	-0.1
			e(Sn)	25	01.00			FORR	48.17	247 iPc	49	08.30	-0.8	BW06	90.04	44 iPd	53	16.30	-0.9
			eSg	25	15.70				0.4s	65.00nm		5.4mb			0.9s	10.24nm		4.8mb	
SPC	3.52	127	eP	24	31.00	12.6X		KNA	49.69	267 eP	49	19.50	-0.9	LZH	92.42	308 P	53	28.60	0.4
			i	25	13.50			WARB	49.77	253 eP	49	20.00	-1.0		1.5s	42.00nm		5.3mb	
BHG	4.19	210	ePn	24	44.50	16.8X			0.4s	12.00nm		4.7mb		BRW	93.46	7 eP	53	31.10	-0.9
SQTA	5.21	218	iPd	24	42.30	0.0		MBL	56.73	258 iPd	50	09.20	-0.9	GTA	96.65	310 eP	53	47.10	-0.2
	0.2s	2.70nm				4.5mb X			0.4s	25.00nm		4.8mb		QUE	120.59	293 ePKP	59	05.40	0.0
			i	24	49.10			MEKA	56.93	251 eP	50	10.20	-1.2	MAIO	127.26	300 iPKPc	59	17.50	-0.5
FVI	5.24	205	P	24	43.00	0.4		MRWA	58.77	248 eP	50	23.00	-0.7	NUR	137.26	343 iPKP	59	34.60	-1.4
VOY	5.54	195	e(Pn)	24	46.00	-1.0			0.5s	5.00nm		4.0mb X			0.8s	30.80nm			
			eSn	26	12.20			NANU	60.35	255 eP	50	33.00	-1.2	NB2	139.47	352 PKP	59	30.90	-9.2X
OGA	5.57	217	eP	24	47.90	0.4			0.4s	21.00nm		4.7mb			0.8s	5.90nm			
WTS	5.73	280	e(Pn)	25	21.00	31.6X		SPA	69.01	180 iPc	51	29.40	1.7	HFS	139.99	350 ePKP	59	31.50	-9.5X
			e(Sn)	26	41.00				0.6s	4.07nm		4.1mb X			0.3s	11.40nm			
TRI	5.88	195	eP	24	51.00	-0.5		MAT	70.17	324 iPd	51	42.50		LWI	144.25	233 iPKPd	59	51.10	1.1
			e	26	38.10				0.8s	26.12nm		4.8mb		EKA	145.69	4 PKPc	59	52.70	1.8
CTI	6.07	210	P	24	55.00	0.7		ADK	72.71	1 ePd	51	46.90	-1.9		0.8s	35.70nm			
HFS	8.85	353	eP	25	33.50	0.3			0.7s	99.10nm		5.5mb		KAS	145.78	314 iPKPd	59	53.50	1.9
	1.1s	12.50nm				5.2mb X			73.78	356 eP	51	53.00	-1.8	HRI	146.98	299 iPKPd	59	56.80	3.0X
NRA0	9.68	347	P	25	44.50	-0.1		SMY	77.38	311 Pc	52	14.80	-0.2	KRA	147.47	337 iPKPd	59	56.50	2.6X
	S.D. = 0.7	on 16 of 21 obs.						SSE	77.38	311 Pc	52	14.80	-0.2		i	00	01.30		
								BLP	78.49	46 e(P)	52	21.60	0.8	VRI	147.57	326 ePKPd	59	56.50	2.3X
	NOV 10, 1990	15h 41m 22.09± 0.42s						PRS	78.89	44 eP	52	24.00	1.1	JVI	147.58	297 iPKPd	59	58.30	3.5X
	21.116 S ± 5.3km	178.979 W ± 3.6km						GCC	78.91	43 eP	52	23.80	0.9	KSP	148.00	342 ePKP	59	53.80	-0.9
	DEPTH = 632.8 ± 5.8 km							PCC	78.95	43 eP	52	23.70	0.6		id	59	58.40		
	5.2mb (40 obs.)							NWRM	79.22	42 eP	52	24.50	0.1		i	00	03.20		
	FIJI ISLANDS REGION					(181)		PR1	79.24	45 eP	52	26.00	1.2	SPC	148.07	336 ePKP	00	03.50	8.3X
								BRK	79.25	42 eP	52	25.50	0.9	PRN1	148.14	294 iPKPd	59	59.70	4.1X
SVA	3.84	321	eP	42	49.03	-0.2		BKS	79.27	42 iPc	52	26.00	1.2	MLR	148.23	326 ePKPd	59	58.50	3.0X
NDF	4.75	314	eP	42	56.00	0.5		MHC	79.32	43 eP	52	26.00	0.8	CLL	148.44	346 iPKP	59	54.70	-0.7
DZM	13.59	263	iPd	44	18.00	1.8		ARN	79.40	43 eP	52	26.00	0.5		1.5s	20.00nm			
			iS	46	42.20			ABL	79.45	46 eP	52	26.30	0.2		i	59	59.10		
				44	54.30	2.9		NJ2	79.57	310 Pd	52	26.50	0.1		pPKP	02	28.00		
WLZ	17.32	195	P	44	54.30	2.9			1.0s	100.00nm		5.3mb		BRG	148.61	344 iPKP	59	55.60	-0.1
MNG	20.00	192	eP	45	14.80	-1.3			0.0.24	49 iP	52	30.60	0.4		i	00	00.00		
CAW	20.56	193	P	45	20.10	-1.0		PLM	80.33	48 eP	52	30.20	-0.2		i	01	05.60		
MRW	20.76	194	eP	45	22.30	-0.5		PEC	80.36	44 eP	52	30.60	0.2						
TCW	20.84	194	P	45	23.20	-0.4		FRI	80.50	326 eP	52	30.50	-0.5	WTS	148.85	353 ePKP	59	55.50	-0.4
KHZ	22.15	195	P	45	34.40	-1.0		MDJ	1.0s	100.00nm		5.3mb		CMP	148.85	326 ePKPc	59	51.00	-5.3X
LTZ	22.82	197	P	45	40.40	-1.0			80.54	43 eP	52	31.80	0.4	TNR	148.98	327 ePKPc	00	00.00	3.6X
BRS	26.46	251	iPd	46	14.50	0.9		CMB	80.73	40 eP	52	32.80	0.5	PRU	149.26	343 ePKP	00	01.00	4.3X
			i	46	26.50			WDC	80.74	41 eP	52	32.80	0.5		0.9s	39.10nm			
			i	47	06.20			ORV	81.15	41 eP	52	35.10	0.5		e	00	09.00		
TBI	27.39	100	iP	46	22.40	0.8		MIN	81.52	50 eP	52	34.60	-1.9	MOX	149.37	347 ePKP	59	56.50	-0.3
	0.8s	65.00nm				5.3mb		GLA	81.59	40 iPd	52	37.30	0.4		1.3s	63.00nm			
AFR	27.77	88	iP	46	24.40	-0.4		LBFM	82.07	307 Pc	52	40.00	0.8		i	00	02.00		
	0.8s	95.00nm				5.5mb		WHN	82.09	321 Pd	52	38.60	-0.4		i	00	09.00		
COO	27.79	244	iP	46	26.10	1.0		SNY	82.23	323 Pd	52	39.70	0.0	DEV	149.48	329 ePKPc	00	04.00	6.9X
PAE	27.92	88	iP	46	25.80	-0.4		CN2	1.0s	100.00nm		5.3mb		HOF	149.63	346 iPKPd	00	02.20	4.9X
	0.8s	30.00nm				5.0mb			82.34	278 ePd	52	42.30	1.4	JMB	149.79	321 iPKPd	00	03.00	5.3X
PPT	27.95	88	iP	46	26.10	-0.3		IPM	0.7s	53.50nm		5.2mb		SRO	149.93	336 i(PKP)	00	03.30	5.6X
	0.8s	55.00nm				5.2mb			82.61	45 iPd	52	41.90	-0.1		i	00	12.10		
PPN	28.09	88	iP	46	27.20	-0.4		TNP	0.9s	19.53nm		4.7mb		PVL	150.04	323 iPKPc	00	05.00	7.0X
	0.8s	40.00nm				5.1mb			83.69	280 eP	52	49.10	1.6	ZST	150.05	338 i(PKP)	00	03.50	5.6X
TVO	28.21	88	iP	46	28.40	-0.3		SNG	84.92	34 eP	52	52.70	-0.2		i	00	12.60		
	0.8s	90.00nm				5.5mb		GMW	85.27	33 eP	52	55.00	0.6	KHL	150.06	311 iPKP	00	03.50	5.1X
RMO	29.95	253	iPc	46	43.00	-0.5		PGC	85.61	34 eP	52	56.60	0.4	ENN	150.16	354 ePKP	59	57.50	-0.5
	0.3s	41.00nm				5.5mb		MCW	85.69	316 eP	52	56.00	-0.7		0.9s	8.00nm			
			i	49	24.60			BJ1	1.6s	91.00nm		5.2mb		VKA	150.25	339 iPKPd	00	04.20	6.0X
PMO	30.14	84	iP	46	44.80	-0.2			85.83	14 ePd	52	55.80	-1.1		1.5s	89.60nm			
	0.8s	40.00nm				5.1mb		PMR	0.9s	39.70nm		5.1mb		BZS	150.29	330 ePKP	00	03.50	5.2X
VAH	30.32	84	iP	46	46.90	0.3			86.96	15 eP	53	02.30	-0.1	KHC	150.30	343 PKP	59	58.40	0.1
	0.8s	45.00nm				5.2mb		TOA	87.01	312 Pd	53	03.50	0.4		i	00	04.50		
TPT	30.40	84	iP	46	46.90	-0.3		TIY	87.59	36 eP	53	05.20	-0.4		i	00	13.70		
	0.8s	65.00nm				5.3mb		DPW	87.68	34 ePd	53	06.00	0.1	MEM	150.31	354 PKP	00	03.70	5.5X
RUV																			

10d 16h

SNF 150.55 356 PKP 00 13.60 15.0X
 DIM 150.66 321 iPKPd 00 05.00 6.0X
 ABH 150.83 351 ePKP 00 05.18 6.1X
 DOU 150.94 355 PKPd 00 05.30 6.1X
 ic 00 14.90
 KDZ 150.97 320 iPKPd 00 06.00 6.5X
 PLD 151.11 322 iPKPd 00 05.00 5.3X
 PGB 151.13 323 iPKPd 00 06.00 6.2X
 RZN 151.36 321 iPKPd 00 06.00 5.7X
 BEO 151.43 330 iPKP 00 06.50 6.4X
 VTS 151.63 324 iPKPd 00 08.00 7.3X
 STU 151.64 349 iPKPd 00 06.50 6.2X
 0.9s 58.82nm
 FUR 151.78 345 ePKP 00 07.00 6.5X
 i 00 19.50
 BHG 151.78 343 iPKPd 00 07.30 6.8X
 i 00 20.10
 MMB 152.00 322 iPKPd 00 07.00 6.0X
 CDF 152.31 351 ePKP 00 08.30 7.0X
 0.8s 21.50nm
 FLN 152.39 2 ePKP 00 07.40 6.1X
 0.8s 24.20nm
 PTJ 152.42 337 ePKP 00 00.50 -1.1
 LDF 152.57 2 ePKP 00 08.50 6.9X
 0.8s 12.10nm
 GRR 152.75 3 ePKP 00 07.20 5.4X
 0.8s 16.10nm
 LJU 152.79 339 ePKP 00 09.00 7.0X
 HAU 152.83 352 ePKP 00 09.40 7.4X
 0.8s 16.10nm
 VAY 152.83 323 ePKP 00 08.40 6.2X
 1.2s 90.00nm
 i 00 24.20
 FVI 152.84 342 PKPd 00 08.60 6.6X
 BSF 152.94 351 ePKP 00 09.60 7.3X
 0.8s 14.80nm
 VOY 153.01 340 ePKP 00 02.80 0.4
 i 00 09.30
 i 00 23.50
 VBY 153.01 338 ePKP 00 03.20 0.9
 i 00 10.10
 i 00 24.80
 SKO 153.01 325 ePKP 00 09.80 7.4X
 CEY 153.09 339 e(PKP) 00 02.00 -0.4
 e 00 10.00
 LPF 153.10 3 ePKP 00 09.90 7.6X
 0.8s 29.55nm
 TRI 153.33 340 ePKPd 00 09.90 7.2X
 VVI 153.50 342 PKP 00 10.50 7.5X
 CTI 153.65 343 PKP 00 11.00 7.7X
 LOR 153.81 356 ePKP 00 11.40 8.1X
 0.8s 12.10nm
 OHR 153.96 324 ePKP 00 02.50 -1.3
 SSF 154.04 356 ePKP 00 12.00 8.4X
 1.0s 20.00nm
 LBF 154.08 355 ePKP 00 12.00 8.3X
 1.0s 10.00nm
 SAL 154.35 344 PKP 00 12.00 8.0X
 MDI 154.39 346 PKP 00 12.00 7.9X
 VAI 154.51 347 PKP 00 12.50 8.3X
 MFF 154.56 2 ePKP 00 13.00 8.7X
 0.8s 10.75nm
 TCF 154.87 358 ePKP 00 13.50 8.7X
 0.8s 5.35nm
 LSF 154.93 359 ePKP 00 13.50 8.6X
 0.8s 4.05nm
 MAF 154.93 357 ePKP 00 13.90 9.0X
 0.8s 5.35nm
 LPL 155.21 350 ePKP 00 15.40 9.8X
 0.8s 3.35nm
 LPG 155.23 350 ePKP 00 15.30 9.6X
 0.4s 5.35nm
 BOB 155.40 345 PKP 00 16.50 10.9X
 ARV 155.56 339 PKP 00 16.50 10.7X
 PGD 155.62 341 PKP 00 16.50 10.4X
 BNI 155.68 350 PKP 00 16.00 9.9X
 BCAO 156.24 228 iPKPd 00 08.80 1.2
 0.6s 9.00nm
 ic 00 41.70
 LIC 164.08 158 PKP 00 15.70 -0.1
 KIC 164.31 158 PKP 00 15.50 -0.5
 0.9s 11.50nm
 TIC 164.47 157 PKP 00 15.90 -0.2
 S.D. = 0.9 on 123 of 190 obs.
 NOV 10, 1990 17h 06m 04.29 ± 1.20s
 39.953 N ± 8.6km 23.881 E ± 8.8km

DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 2.7 (ATH). ML 2.1 (THE).
 PAIG 0.16 261 ePc 06 07.54 -0.4
 eS 06 10.06
 OUR 0.39 11 ePc 06 12.26 0.0
 PLG 0.54 322 ePb 06 13.50 -1.7
 NEO 0.82 218 ePb 06 19.50 -0.7
 SOH 0.96 335 ePc 06 22.30 -0.2
 eS 06 34.94
 THE 0.98 314 iPd 06 23.02 0.2
 eS 06 35.50
 LIT 1.08 278 ePc 06 25.10 0.5
 eS 06 40.10
 SRS 1.18 349 ePd 06 26.10 -0.3
 eS 06 42.98
 GRG 1.51 312 ePc 06 32.66 1.2
 eS 06 52.70
 MMB 1.64 356 iPd 06 32.00 -1.3
 VAY 1.69 324 ePn 06 36.40 2.4
 RDO 1.74 46 ePn 06 37.00 2.4
 KKB 2.00 343 iPd 06 38.00 -0.6
 KDZ 2.06 34 eP 06 37.00 -2.3
 VTS 2.68 349 iP 06 49.00 0.6
 S.D. = 1.4 on 15 of 15 obs.
 ? NOV 10, 1990 17h 20m 29.96 ± 1.27s
 6.954 S ± 18.5km 80.075 W ± 25.7km
 DEPTH = 33.0km (normal)
 4.8mb (4 obs.) 4.5MsZ (1 obs.)
 NEAR COAST OF NORTHERN PERU (109)
 Felt (IV) at Chiclayo.
 NNA 5.93 148 iP 21 58.70 0.8
 0.8s 111.94nm 5.5mb
 eS 22 01.20
 ARE 12.64 139 eP 23 42.00 11.4X
 ZOBO 14.92 129 P 24 03.20 2.4X
 1.0s 21.25nm 4.4mb
 Z 24s 0.40um 5.7MsZ
 S 27 22.00
 LR 29 52.00
 LPB 15.09 130 eP 24 02.00 -1.0
 e 24 11.00
 e 27 16.00
 CNCB 15.35 131 P 24 09.00 2.5X
 i 24 14.00
 i 27 39.00
 SIV 20.66 117 Pc 25 09.00 -0.7
 PDCR 40.71 101 eP 28 09.40 -0.1
 ALO 48.54 331 eP 29 11.70 -0.6
 1.1s 9.18nm 4.7mb
 e 29 24.00
 LIC 76.01 82 P 32 17.00 0.7
 Z 20s 0.22um 4.5MsZ
 TIC 76.08 81 P 32 17.40 0.6
 KIC 76.32 82 P 32 18.40 0.4
 0.9s 13.00nm 4.9mb
 LZH 150.78 353 ePKP 40 19.50 4.1X
 1.5s 28.00nm
 pP 40 31.50
 S.D. = 0.8 on 8 of 12 obs.
 NOV 10, 1990 19h 05m 54.11 ± 0.23s
 44.367 N ± 4.5km 142.161 E ± 4.0km
 DEPTH = 15.6km (2 depth phases)
 5.1mb (41 obs.) 4.3MsZ (6 obs.)
 HOKKAIDO, JAPAN REGION (224)
 ASAJ 0.43 126 iPd 06 02.50 -0.3
 eS 06 09.20
 SAP 1.44 205 iP 06 20.50 1.0
 iS 06 39.10
 MRRJ 2.10 203 P 06 30.40 1.4
 HOOJ 2.15 157 P 06 30.20 0.5
 eS 06 55.90
 MAT 8.38 202 (P) 07 59.00 1.3
 0.5s 26.76nm 5.8mb
 MDJ 8.99 276 eP 08 09.00 2.8
 1.0s 30.00nm 5.6mb
 Z 12s 2.70um 3.8MsZ
 N 10s 4.40um
 CN2 12.04 273 eP 08 49.00 1.2
 Z 10s 6.80um
 N 10s 5.90um

E 10s 2.20um
 pP 08 56.00
 SNY 13.81 266 Pd 09 13.60 2.2
 Z 10s 3.30um
 N 11s 3.00um
 E 10s 1.00um
 DL2 16.28 258 eP 09 43.00 -0.5
 Z 12s 0.80um 4.5MsZ
 BJI 19.70 266 eP 10 23.00 -2.5
 1.4s 140.00nm 5.1mb
 Z 18s 1.47um 4.4MsZ
 eS 14 06.00
 SSE 21.15 238 P 10 59.00 18.3X
 1.0s 19.00nm
 Z 20s 0.60um 4.0MsZ
 eS 14 48.00
 e 15 40.00
 NJ2 21.97 244 Pd 10 45.80 -3.1X
 Z 14s 0.70um 4.2MsZ
 E 13s 1.60um
 eS 14 50.00
 HHC 22.73 272 eP 10 54.60 -1.9
 Z 10s 2.90um 5.0MsZ
 N 10s 0.80um
 E 10s 2.40um
 S 15 02.00
 TIY 23.30 264 eP 11 00.00 -2.1
 Z 20s 0.90um 4.2MsZ
 N 12s 0.70um
 BTO 23.92 272 eP 11 06.50 -1.6
 N 10s 1.00um
 E 10s 1.30um
 eS 15 23.50
 WHN 25.89 247 eP 11 29.00 2.2
 pP 11 33.00 14km
 XAN 27.58 260 P 11 41.60 -0.7
 LZH 30.18 267 Pd 12 06.00 0.1
 1.5s 42.00nm 5.1mb
 Z 18s 1.21um 4.6MsZ
 N 11s 1.15um
 pP 12 17.00 40kmX
 eS 17 02.00
 GTA 31.65 276 Pd 12 18.60 -0.1
 1.0s 30.00nm 5.2mb
 Z 12s 0.90um 4.7MsZ
 E 12s 1.60um
 pP 12 23.50 17km
 eS 17 30.00
 KMI 37.21 252 Pd 13 06.50 -0.1
 1.5s 100.00nm 5.4mb
 WMO 38.51 289 P 13 16.90 -0.3
 Z 12s 1.70um 5.1MsZ
 N 12s 2.00um
 BRW 39.52 26 eP 13 24.20 -1.0
 IMA 40.21 35 ePc 13 29.90 -1.2
 1.0s 38.60nm 5.1mb
 LSA 42.60 268 P 13 52.20 0.6
 FBA 42.72 36 ePc 13 51.00 -0.6
 1.0s 59.60nm 5.3mb
 CHG 44.07 249 iPc 14 03.00 -0.1
 1.0s 35.00nm 5.2mb
 CHTO 44.07 249 iPc 14 03.00 0.0
 0.8s 25.99nm 5.1mb
 GUN 47.40 269 P 14 29.40 -0.6
 1.0s 124.00nm 5.9mb
 INK 47.68 30 eP 14 29.00 -2.1
 KKN 47.90 270 P 14 33.10 -0.6
 0.8s 46.00nm 5.6mb
 PKI 47.94 269 P 14 33.40 -0.8
 DMN 48.14 270 P 14 35.30 -0.3
 1.0s 71.00nm 5.7mb
 GKN 48.24 270 P 14 35.60 -0.7
 KSH 48.29 288 eP 14 37.00 0.5
 E 10s 1.10um
 NDI 53.16 276 iPc 15 13.50 0.1
 HYB 59.22 264 eP 15 55.00 -2.0
 QUE 59.53 284 eP 15 58.30 -0.9
 MAIO 61.01 294 iPc 16 09.00 -0.1
 1.0s 11.50nm 5.0mb
 eS 24 37.00
 POO 61.86 269 iPc 16 14.80 -0.3
 0.8s 26.87nm 5.5mb
 GBA 62.57 262 Pc 16 17.80 -1.9
 0.8s 21.50nm 5.4mb
 PNT 62.63 47 ePd 16 20.00 0.2
 WRA 64.39 188 P 16 29.00 -2.5
 1.0s 2.00nm 4.2mb

KOD	64.86	259	eP	16	34.00	-1.1	LSF	83.28	334	eP	18	20.90	-0.2	PKI	54.18	312	P	37	38.40	-0.6
LBFM	66.26	55	iPc	16	44.40	0.7		1.1s	17.10nm				5.1mb		0.6s	13.00nm			5.0mb	
FFC	67.29	34	iPc	16	49.60	-0.2	MFF	83.49	335	eP	18	22.30	0.2	KKN	54.40	312	P	37	39.90	-0.5
	0.9s	25.00nm				5.4mb		0.8s	10.75nm				5.1mb		0.6s	17.00nm			5.1mb	
NB2	67.67	337	P	16	49.60	-2.5	CAF	84.29	333	eP	18	26.80	0.6	DMN	54.43	312	P	37	40.50	-0.2
	1.0s	4.60nm				4.6mb		0.9s	8.20nm				5.0mb		0.9s	25.00nm			5.1mb	
ASPA	68.12	188	eP	16	53.60	-1.7	LFF	84.70	334	eP	18	28.80	0.6	GBA	54.74	292	Pc	37	41.40	-1.3
	1.6s	5.70nm				4.5mb		1.2s	23.80nm				5.3mb		0.9s	2.90nm			4.2mb	
LRM	68.59	46	eP	16	59.00	0.6	LPO	84.79	333	eP	18	29.10	0.4	GKN	54.99	312	P	37	44.20	-0.4
SHI	69.70	292	eP	17	04.00	-1.3		1.2s	23.80nm				5.3mb	NDI	60.97	308	iPd	38	24.80	-1.3
TNP	71.11	55	iP	17	14.50	0.6	ZOBO	142.08	52	ePKP	25	28.00	-0.2	WMO	62.85	328	eP	38	38.50	0.1
	1.2s	25.54nm				5.2mb	LPB	142.31	52	ePKP	25	24.00	-4.4X	MAIO	77.70	310	iPd	40	09.50	1.2
BW06	72.19	47	iPc	17	20.20	-0.1	CNCB	142.60	52	PKP	25	25.00	-4.0X	SPA	82.69	180	iPc	40	33.80	-0.5
	1.0s	23.75nm				5.2mb	SIV	145.55	42	iPKPc	25	33.00	-0.4		0.9s	10.00nm			4.6mb	
DUG	72.21	51	ePc	17	21.20	0.9	PDCR	148.26	2	ePKP	25	40.30	2.6X	BSF	116.39	320	ePKP	46	53.40	-0.7
DAU	72.92	50	eP	17	25.50	0.8	BAO	150.09	20	ePKP	25	47.00	6.3X		0.8s	5.35nm				
KRA	73.37	325	eP	17	25.90	-0.8		S.D. = 1.0	on 108 of 117 obs.					HAU	116.62	320	ePKP	46	53.70	-0.7
	1.1s	43.00nm				5.4mb								LPL	117.18	318	ePKP	46	55.50	-0.4
SPC	73.91	325	eP	17	18.90	-11.2X		NOV	10, 1990	19h	28m	24.90± 1.04s				0.6s	4.05nm			
														LOR	118.45	320	ePKP	46	57.40	-0.5
KSP	74.19	328	eP	17	31.00	-0.4			7.354 S ± 4.9km		128.430 E ± 6.9km					0.6s	1.80nm			
BBTK	74.86	311	iPc	17	26.00	-9.7X			DEPTH = 136.8 ± 10.4 km											
CLL	75.04	330	ePd	17	36.00	-0.3			4.9mb (19 obs.)											
	1.2s	42.00nm				5.3mb		BANDA SEA					(280)							
PRU	75.54	328	eP	17	39.20	-0.1	MTN	6.07	154	eP	29	53.40	-0.2	LBF	118.48	320	ePKP	46	57.40	-0.6
SRO	75.79	325	eP	17	40.40	-0.3	KNA	8.35	178	eP	30	23.70	-0.7		0.5s	2.20nm				
ZST	75.98	326	eP	17	42.00	0.2		0.2s	52.00nm				5.8mb	SMF	118.69	320	ePKP	46	57.50	-0.9
BZS	76.08	321	eP	17	42.00	-0.4								SSF	118.75	320	ePKP	46	58.10	-0.4
MOX	76.08	330	eP	17	42.50	0.2	WB5	13.72	156	eP	31	32.00	-2.9		0.5s	4.00nm				
JMB	76.14	317	iPd	17	44.00	1.3								AVF	118.95	320	ePKP	46	58.30	-0.5
GOL	76.59	47	iPd	17	46.20	0.5	MBL	16.04	210	eP	32	04.10	-0.1		0.8s	3.35nm				
	1.2s	18.44nm				5.0mb		0.3s	8.00nm				4.5mb	BGF	119.36	320	ePKP	46	59.60	-0.1
KHC	76.61	328	P	17	45.90	0.6									0.6s	7.20nm				
	1.2s	10.00nm				4.8mb	QIS	17.01	142	eP	32	16.00	-0.1	MAF	119.67	320	ePKP	47	00.00	-0.3
DIM	76.96	317	iPd	17	48.00	0.6									0.6s	1.80nm				
GRF	77.02	330	ePc	17	47.70	0.2	ASPA	17.05	163	iPd	32	16.30	-0.2	CAF	120.48	318	ePKP	47	01.90	0.0
	1.3s	35.00nm				5.3mb		0.5s	39.20nm				5.0mb		0.5s	2.20nm				
Z	18s	0.20um				4.5msz								MFF	121.23	321	ePKP	47	02.80	-0.4
PGB	77.25	318	iP	17	50.00	1.0									0.5s	1.45nm				
KDZ	77.32	317	eP	17	50.00	0.6	KKM	18.05	317	ePc	32	36.50	7.9X	ALQ	122.77	53	ePKP	47	06.50	-0.3
PLD	77.33	317	iPd	17	50.00	0.6	PMG	18.64	98	eP	32	37.00	2.2	KIC	133.51	272	PKP	47	27.00	-0.7
RZN	77.64	317	iPc	17	52.00	0.7	WARB	18.80	185	eP	32	37.00	0.5	LIC	133.79	272	PKP	47	27.70	-0.5
VTS	77.67	319	iPd	17	53.00	1.5		0.4s	8.00nm				4.4mb	CNCB	151.02	146	PKP	48	00.00	1.4
KHL	77.69	312	iP	17	51.40	-0.2														
BHG	78.03	328	eP	17	54.20	1.0	NANU	19.57	218	eP	32	44.10	-0.4							
ABH	78.14	332	eP	17	53.55	-0.2		0.4s	9.00nm				4.5mb	LPB	151.18	146	PKP	48	06.00	7.3X
MMB	78.19	318	iPd	17	55.00	0.8									0.9s	21.63nm				
ADI	78.28	305	iPd	17	58.20	3.4X	MEKA	21.34	205	eP	33	04.00	1.6	ZOBO	151.38	145	PKP	48	00.00	0.8
KKB	78.29	318	iPd	17	55.00	0.3														
VAY	78.95	318	iP	17	58.70	0.4	CTA	21.42	128	iPc	33	04.70	1.5							
SKO	78.99	319	eP	17	59.70	1.2		0.7s	8.90nm				4.3mb	SIV	154.97	158	PKP	48	00.60	-2.9X
ALQ	79.49	51	ePc	18	02.70	1.1														
	1.3s	19.71nm				5.0mb	FORR	23.38	181	eP	33	23.00	0.9							
CDF	79.49	331	eP	18	00.90	-0.3		0.4s	9.00nm				4.6mb							
	1.0s	8.00nm				4.7mb	QLP	24.32	144	eP	33	31.00	-0.3	%	NOV	10, 1990	19h	47m	56.39± 0.60s	
MKT	79.84	303	iPd	18	04.40	1.0	MRWA	24.70	207	eP	33	35.50	0.7							
CTI	79.89	327	P	18	02.00	-1.4														
OHR	79.96	319	eP	18	03.80	0.0	KLB	26.09	201	eP	33	48.00	0.4	ASS	0.14	163	Pd	47	59.60	-0.1
HAU	80.16	332	eP	18	04.10	-0.6														
	20s	0.10um				4.2msz	MUN	27.02	203	eP	34	02.00	6.0X	ARV	0.39	39	Pd	48	01.90	
MBH	80.85	303	iPd	18	09.50	0.8														
VAI	81.13	329	P	18	09.50	-0.3	NWAO	27.49	201	eP	34	01.00	0.7	CRE	0.64	312	P	48	09.20	-0.1
SFI	81.58	326	P	18	13.00	0.8														
LOR	81.63	333	eP	18	12.00	-0.5	CAN	33.63	149	eP	34	54.90	0.5	MNS	0.82	176	P	48	13.00	0.8
	1.0s	12.00nm				4.9mb	BDT	37.99	310	eP	35	32.00	0.7	SFI	0.91	323	P	48	14.00	0.3
Z	20s	0.17um				4.4msz	SSE	38.85	350	eP	35	35.00	-3.3X							
PGD	81.67	326	P	18	13.50	0.5	CHG	39.01	312	ePc	35	41.00	1.2	PGD	0.93	317	P	48	14.00	-0.3
CRE	81.79	326	P	18	14.00	0.5		1.0s	19.50nm				4.8mb							
LBF	81.84	333	eP	18	13.00	-0.6	CHTO	39.01	312	iPc	35	41.10	1.3	AZI	1.36	153	P	48	20.50	-0.8
	1.0s	12.00nm				4.9mb		1.1s	21.50nm				4.8mb							
SSF	81.93	333	eP	18	13.50	-0.5	GYA	39.70	329	eP	35	46.80	1.3							
	1.0s	10.00nm				4.8mb	WHN	40.03	341	Pc	35	49.70	1.7	*	NOV	10, 1990	19h	58m	23.36± 2.07s	
ASS	81.96	325	P	18	14.00	-0.3	NJ2	40.24	347	Pc	35	50.00	0.3							
LPL	82.17	330	eP	18	17.90	2.3	MAT	44.62	11	eP	36	23.00	-2.3							
	1.2s	8.95nm				4.7mb	CD2	44.79	329	P	36	27.30	0.5							
SMF	82.18	332	eP	18	15.00	-0.4	XAN	45.13	337	iPc	36	29.00	-0.4							
	1.0s	18.00nm				5.1mb	TIY	47.26	343	Pc	36	45.40	-0.8							
DUI	82.37	323	P	18	17.00	0.5		0.6s	40.00nm				5.3mb	QUE	8.48	213	eP	00	24.30	-0.5
AZI	82.53	324	P	18	18.00	0.8	BJI	48.50	347	eP	36	55.00	-0.6							
BNI	82.59	330	P	18	17.50	-0.2		1.0s	44.00nm				5.2mb	NDI	9.68	153	eP	00	42.00	1.4
SDI	82.61	324	P	18	17.50	-0.2	LZH	49.00	333	iPc	37	00.60	0.8							
SGO	82.90	322	P	18	19.50	0.4		1.5s	130.00nm				5.5mb	GKN	14.04	129	P	01	37.60	-0.1

10d 20h

GBA 24.19 168 P 03 29.00 0.0
 SOD 39.31 334 eP 05 47.00 6.4X
 HFS 42.95 321 eP 06 10.70 0.3
 0.5s 2.40nm 4.2mb
 ZOBO 139.23 290 iPd 114 32.90 -17.2X
 i 15 11.00
 S.D. = 0.6 on 10 of 12 obs.

NOV 10, 1990 20h 15m 07.26 ± 0.64s
 39.347 N ± 6.0km 20.808 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 2.7 (THE). MD 3.0 (ATH).

IGT 0.41 297 iPd 15 13.85 -1.8
 eS 15 20.82
 KEK 0.86 295 ePg 15 25.00 1.2
 EVR 0.89 119 ePg 15 22.60 -1.8
 VLS 1.18 188 ePb 15 30.00 0.7
 KZN 1.21 37 ePb 15 28.50 -1.4
 AGG 1.23 105 ePd 15 30.46 0.4
 eS 15 48.26
 FNA 1.50 17 ePc 15 33.46 -0.8
 iS 15 56.26
 LIT 1.50 59 ePc 15 34.66 0.4
 eS 15 54.82
 OHR 1.76 360 ePn 15 38.70 0.6
 NEO 1.87 90 ePn 15 40.00 0.3
 GRG 2.02 37 ePc 15 42.10 0.3
 ITM 2.34 158 ePg 15 52.70 6.4X
 VAY 2.39 34 ePn 15 47.00 0.0
 SOH 2.45 52 ePc 15 48.90 1.0
 eS 16 20.14
 SKO 2.67 10 ePn 15 51.80 0.8
 S.D. = 1.1 on 14 of 15 obs.

& NOV 10, 1990 21h 04m 43.30s
 37.260 N 121.628 W
 DEPTH = 6.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

MHC 0.08 352 iPd 04 45.30 -0.1
 ARN 0.12 40 iPd 04 45.90 0.0
 GCC 0.37 232 eP 04 50.70 -0.1
 iS 04 55.60
 SAO 0.52 163 iPd 04 54.00 0.4
 PCC 0.65 292 eP 04 55.20 -1.0
 BKS 0.78 322 eP 04 58.80 -0.1
 eS 05 10.50
 BRK 0.79 321 eP 04 58.40 -0.6
 eS 05 11.30
 LLA 0.84 139 eP 04 59.50 -0.5
 iS 05 14.00
 PRS 0.95 167 eP 05 01.30 -0.5
 eS 05 15.50
 CMB 1.25 52 eP 05 06.70 -0.3
 iS 05 23.70
 PRI 1.36 145 eP 05 10.50 1.7
 FRI 1.56 99 eP 05 11.00 -0.6
 eS 05 30.80

12 obs. associated

* NOV 10, 1990 21h 13m 02.49 ± 2.01s
 33.571 N ± 12.7km 140.826 E ± 14.5km
 DEPTH = 39.7 ± 16.6 km
 4.9mb (2 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT 3.66 325 iPd 13 58.10 0.0
 iS 14 39.80
 GUN 47.11 279 P 21 33.20 0.2
 PKI 47.62 278 P 21 36.70 -0.4
 KKN 47.64 279 P 21 37.10 0.0
 0.8s 19.00nm 5.2mb X
 DMN 47.85 279 P 21 38.80 0.0
 GKN 48.10 279 P 21 40.80 0.2
 0.8s 23.00nm 5.3mb X
 WB5 53.51 188 eP 22 21.40 0.1
 WRA 53.57 188 P 22 21.00 -0.8
 0.3s 4.80nm 5.0mb
 HYB 57.68 270 eP 22 51.00 -0.7
 MBL 57.99 203 eP 22 54.30 0.8
 GBA 60.51 267 P 23 11.60 0.4
 APO 76.67 336 eP 24 50.70 0.1
 1.4s 15.90nm 4.8mb
 NB2 77.19 337 P 25 10.80 17.2X

1.0s 3.20nm
 ZOBO 148.75 64 PKP 32 43.00 -1.5
 LPB 148.94 64 PKP 32 46.00 1.5
 CNCB 149.19 64 PKP 32 48.00 2.9X
 S.D. = 0.8 on 14 of 16 obs.

NOV 10, 1990 23h 56m 55.88 ± 0.97s
 39.076 N ± 7.3km 20.479 E ± 8.4km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 3.0 (THE). MD 3.2 (ATH).

IGT 0.47 346 iPd 57 03.88 -1.6
 eS 57 11.36
 KEK 0.83 321 ePg 57 11.00 -0.9
 VLS 0.90 174 ePb 57 14.00 0.8
 EVR 1.05 98 ePb 57 13.70 -2.0
 AGG 1.44 92 ePd 57 20.80 -1.3
 eS 57 39.64
 KZN 1.58 39 ePg 57 27.00 2.9X
 LIT 1.86 56 ePd 57 27.76 -0.3
 eS 57 52.32
 OHR 2.05 7 ePn 57 32.00 1.2
 NEO 2.15 83 ePn 57 33.50 1.3
 ITM 2.21 148 ePg 57 38.50 5.3X
 GRG 2.39 38 ePc 57 36.48 0.8
 eS 58 05.40
 PAIG 2.62 70 ePd 57 38.68 -0.2
 eS 58 11.28
 VAY 2.76 35 ePn 57 41.00 0.1
 SOH 2.81 51 ePd 57 42.72 0.9
 eS 58 15.76
 SKO 2.98 14 ePn 57 45.30 1.2
 S.D. = 1.3 on 13 of 15 obs.

NOV 11, 1990 01h 53m 40.73 ± 0.26s
 49.444 N ± 7.2km 28.544 W ± 3.3km
 DEPTH = 10.0km (geophysicist)
 4.5mb (32 obs.) 4.7Msz (14 obs.)
 NORTH ATLANTIC RIDGE (403)

EKA 16.53 59 Pd 57 35.10 1.2
 1.5s 64.30nm 4.5mb
 LPF 18.16 84 eP 57 54.60 0.2
 1.3s 25.25nm 4.2mb
 GRR 18.19 83 eP 57 54.90 0.2
 1.2s 29.75nm 4.3mb
 MFF 19.16 88 eP 58 06.00 -0.6
 1.2s 10.40nm 4.0mb
 TOL 19.80 110 eP 58 10.00 -4.0X
 LFF 20.34 92 eP 58 19.30 -0.3
 1.2s 29.75nm 4.5mb
 LSF 20.37 88 eP 58 18.60 -1.3
 1.0s 21.00nm 4.4mb
 BTH 20.50 97 P 58 27.00 5.6X
 sP 58 50.50
 sS 02 27.00
 RJF 20.70 90 eP 58 22.60 -0.8
 1.2s 35.70nm 4.6mb
 Z 20s 2.50um 4.6Msz
 LPO 20.73 92 eP 58 22.90 -0.8
 1.3s 72.20nm 4.9mb
 TCF 20.80 87 eP 58 23.50 -0.9
 1.2s 31.25nm 4.5mb
 SNF 21.05 75 P 58 25.90 -1.0
 UCC 21.05 74 P 58 30.00 3.1X
 MAF 21.05 87 eP 58 26.80 -0.2
 1.0s 40.00nm 4.7mb
 CAF 21.21 91 eP 58 27.60 -1.0
 1.2s 34.20nm 4.6mb
 DOU 21.32 76 P 58 29.60 0.0
 Z 18s 1.80um 4.5Msz
 S 02 38.00
 AVF 21.38 85 eP 58 29.40 -0.8
 0.8s 17.45nm 4.5mb
 DBN 21.38 70 eP 58 36.00 5.8X
 SSF 21.39 84 eP 58 29.40 -1.0
 1.2s 26.80nm 4.5mb
 LOR 21.55 83 eP 58 31.20 -0.9
 1.2s 23.80nm 4.5mb
 Z 20s 4.75um 4.9Msz
 MAL 21.62 117 eP 58 42.20 9.4X
 eS 02 40.00
 LBF 21.72 84 eP 58 32.90 -0.9
 1.2s 28.25nm 4.6mb
 SMF 21.74 85 eP 58 33.30 -0.7
 1.4s 52.30nm 4.8mb

ENN 22.03 73 eP 58 38.00 1.2
 MEM 22.11 74 P 58 32.20 -5.4X
 WIT 22.22 68 eP 58 41.00 2.4
 WTS 22.39 70 eP 58 41.00 0.7
 AVE 22.50 128 iPd 58 43.00 1.4
 HAU 22.94 80 eP 58 46.00 0.1
 0.8s 14.80nm 4.6mb
 Z 20s 3.75um 4.8Msz
 BSF 23.28 80 eP 58 49.30 0.0
 1.0s 20.00nm 4.6mb
 CDF 23.42 79 eP 58 50.70 0.1
 1.0s 8.00nm 4.2mb
 IFR 23.54 124 iPd 58 53.00 1.0
 BNI 24.16 87 P 59 02.50 4.6X
 NB2 25.04 47 P 59 09.90 3.8X
 1.1s 7.20nm 4.3mb
 VAI 25.22 84 P 59 01.00 -6.8X
 GRF 25.59 74 eP 59 11.60 0.3
 1.3s 34.00nm 4.9mb
 Z 21s 2.00um 4.6Msz
 MOX 25.60 72 eP 59 13.00 1.6
 1.8s 38.00nm 4.8mb
 Z 19s 1.50um 4.5Msz
 N 19s 1.40um
 E 19s 1.10um
 APO 26.29 49 eP 59 22.20 4.5X
 0.7s 2.20nm 4.0mb
 CLL 26.31 70 eP 59 18.00 0.0
 Z 17s 1.50um 4.6Msz
 SOTA 26.31 80 eP 59 18.00 -0.2
 1.0s 12.50nm 4.6mb
 i 59 20.80
 BRG 26.99 71 eP 59 24.70 0.5
 CTI 27.01 82 P 59 25.00 0.4
 KHC 27.22 74 eP 59 31.30 4.9X
 Z 19s 1.10um 4.4Msz
 N 20s 0.80um
 E 20s 1.00um
 FVI 27.54 80 P 59 30.00 0.8
 PRU 27.58 72 eP 59 29.50 -0.1
 Z 18s 1.90um 4.7Msz
 N 16s 0.80um
 E 18s 1.60um
 KSP 28.44 70 eP 59 36.00 -1.4
 ZST 29.73 75 eP 59 48.60 -0.4
 SRO 30.63 75 eP 59 56.00 -0.9
 KRA 30.90 70 eP 00 06.90 7.6X
 Z 18s 1.60um 4.7Msz
 E 18s 1.70um
 SPC 31.36 72 eP 00 03.50 -0.1
 SKO 35.14 83 e(P) 00 36.00 -0.2
 Z 18s 2.40um 5.0Msz
 N 16s 1.78um
 E 17s 1.07um
 LR 15 31.00
 MBC 42.83 339 eP 01 40.50 0.7
 1.4s 13.00nm 4.5mb
 FFC 43.53 306 eP 01 47.00 1.3
 0.7s 10.00nm 4.7mb
 YKA 46.23 320 eP 02 06.40 -0.8
 1.0s 4.00nm 4.4mb
 TIC 47.03 147 P 02 14.20 0.1
 KIC 47.39 147 P 02 16.80 -0.2
 1.3s 20.50nm 5.1mb
 LIC 47.42 147 P 02 17.00 -0.1
 Z 20s 0.54um 4.5Msz
 INK 50.17 332 eP 02 36.00 -1.7
 BW06 54.00 296 iPd 03 05.50 -1.7
 0.9s 8.83nm 4.8mb
 NEW 54.94 305 eP 03 11.60 -2.2
 DAU 56.47 295 e(P) 03 23.80 -1.5
 ALO 57.03 287 eP 03 28.20 -1.0
 1.0s 4.25nm 4.4mb
 Z 18s 0.69um 4.8Msz
 DUG 57.52 295 eP 03 31.70 -0.9
 BAO 59.91 122 iPd 03 49.00 -0.2
 0.4s 3.00nm 4.8mb
 TNP 61.49 296 ePc 03 59.10 -1.0
 LBFM 61.97 302 e(P) 04 03.40 0.1
 MAIO 62.32 66 iPd 04 06.00 0.6
 GSC 63.13 294 iPd+ 04 12.00 1.2
 CLC 63.25 294 eP 04 12.00 0.5
 ISA 63.87 295 eP 04 16.00 0.3
 SBB 64.15 294 eP 04 19.00 1.5
 BAR 64.84 291 eP 04 24.00 2.0
 SIV 71.22 213 eP 05 02.00 0.1
 WMQ 71.71 43 P 05 04.50 -0.1

Z 20s 0.65um 4.9MsZ
 ZOBO 74.20 219 P 05 20.00 0.0
 Z 22s 0.26um 4.5MsZ
 LR 29 16.00
 GTA 80.49 38 eP 05 54.00 -0.3
 GKN 82.72 55 P 06 06.60 0.4
 KKN 83.24 55 P 06 09.60 0.7
 DMN 83.29 55 P 06 10.40 1.2
 GUN 83.46 54 P 06 11.00 0.8
 PKI 83.48 55 P 06 10.80 0.5
 GBA 89.87 69 Pc 06 41.00 -0.2
 0.6s 1.50nm 4.4mb
 MEKA 145.90 60 ePKP 13 20.80 -0.3
 WB5 147.49 31 ePKP 13 25.80 1.9
 WRA 147.54 31 PKP 13 25.00 1.1
 1.3s 5.10nm
 ASPA 150.81 35 ePKP 13 33.30 4.4X
 0.9s 11.10nm
 S.D. = 1.0 on 73 of 86 obs.

NOV 11, 1990 01h 57m 20.90 ± 0.78s
 9.613 S ± 8.2km 159.818 E ± 7.7km
 DEPTH = 39.4 ± 6.7 km
 4.7mb (7 obs.) 4.9MsZ (1 obs.)
 SOLOMON ISLANDS (193)
 Felt (IV) at Honiara.

HNR 0.22 35 iPd 57 27.40 -0.9
 iS 57 35.00
 SVO 0.46 360 iP 57 31.00 -0.1
 PMG 12.49 270 eP 00 21.00 2.0
 1.3s 76.92nm 5.6mb
 DZM 13.93 154 iPc 00 37.30 -0.7
 CTA 16.73 230 iPc 01 17.00 2.9
 0.9s 19.33nm 4.2mb
 RMO 19.79 211 iPc 01 49.00 -1.9
 QIS 22.32 239 iPc 02 16.20 -0.5
 WB5 26.61 245 eP 02 56.50 -1.2
 ASPA 28.42 237 eP 03 14.70 0.5
 0.6s 6.90nm 4.5mb
 CN2 61.64 332 P 07 42.80 5.7X
 XAN 64.91 315 Pc 08 04.00 5.1X
 CHTO 66.33 295 (P) 08 13.00 4.8X
 CD2 67.14 309 P 08 12.50 -0.7
 LZH 69.53 314 eP 08 33.00 4.9X
 Z 20s 0.70um 4.9MsZ
 GTA 73.92 316 eP 08 54.00 -0.2
 TTA 79.86 19 eP 09 26.70 -0.1
 GUN 80.55 300 P 09 30.80 -0.8
 PKI 80.86 300 P 09 32.60 -0.6
 DMN 81.13 300 P 09 34.80 0.3
 PMR 81.33 22 ePc 09 33.90 -0.5
 0.9s 21.10nm 5.1mb
 GKN 81.63 300 P 09 36.90 -0.1
 TOA 82.75 23 eP 09 43.00 1.0
 IMA 82.79 17 ePc 09 42.10 -0.1
 0.8s 7.70nm 4.8mb
 FBA 83.88 20 ePc 09 46.30 -1.3
 0.7s 67.10nm 5.9mb X
 GBA 84.93 285 Pc 09 53.40 -0.3
 1.0s 5.10nm 4.6mb
 BKS 86.47 51 e(P) 10 02.00 0.9
 PRS 86.75 53 eP 10 03.80 1.3
 MHC 86.79 51 eP 10 03.50 0.7
 SAO 86.80 52 e(P) 10 03.80 1.1
 WDC 86.95 48 eP 10 04.30 1.0
 LLA 87.16 52 eP 10 05.50 1.1
 PRI 87.26 53 eP 10 06.50 1.4
 ORV 87.46 49 e(P) 10 06.00 0.2
 MIN 87.58 49 eP 10 06.80 0.3
 CMB 87.93 51 eP 10 09.00 0.9
 FRI 88.21 52 eP 10 09.80 0.4
 TNP 90.38 52 P 10 20.20 0.3
 INK 90.50 20 eP 10 19.00 -0.5
 NEW 92.51 42 eP 10 28.60 -0.7
 YKA 96.41 28 eP 10 45.40 -1.4
 0.8s 2.30nm 4.7mb
 HFS 123.60 340 ePKP 16 13.00 -2.5
 0.4s 0.60nm
 BUL 123.61 238 ePKP 16 12.40 -4.5X
 NB2 123.68 342 PKP 16 14.30 -1.4
 1.3s 6.40nm
 PDCR 151.05 139 ePKP 17 09.70 3.5X
 S.D. = 1.1 on 38 of 44 obs.

NOV 11, 1990 03h 19m 44.36 ± 0.21s
 39.215 N ± 5.2km 71.832 E ± 3.9km

DEPTH = 33.0km (normol)
 5.1mb (60 obs.) 4.2MsZ (8 obs.)
 TAJIK SSR
 Felt (IV) at Dorout-Kurgon and
 (II) at Dzshirgotol.

KSH 3.23 84 Pn 20 37.50 3.5X
 Sg 21 26.50
 QUE 9.86 205 eP 22 05.80 -1.2
 eS 23 57.40
 MAIO 10.19 257 ePn 22 07.00 -4.5X
 0.8s 19.77nm 5.4mb
 eSn 23 40.00
 NDI 11.41 155 iPc 22 27.50 -0.6
 0.7s 30.82nm 5.6mb
 eS 24 34.50
 WMO 12.75 64 eP 22 44.00 -2.0
 Z 10s 1.20um
 GKN 15.44 133 P 23 16.60 -4.8X
 KKN 15.97 131 P 23 23.40 -4.9X
 DMN 16.00 132 P 23 24.30 -4.5X
 PKI 16.21 132 P 23 26.40 -5.1X
 GUN 16.23 130 P 23 27.00 -4.8X
 LSA 18.51 115 eP 24 01.30 0.9
 SHI 18.54 245 eP 23 59.00 -1.4
 TAB 19.94 275 eP 24 18.00 1.5
 BOM 20.27 177 iPd 24 18.50 -1.3
 eS 28 04.50
 POO 20.68 175 iPd 24 25.20 1.0
 0.8s 67.16nm 5.1mb
 GTA 21.62 81 P 24 34.00 0.3
 0.8s 40.00nm 4.9mb
 Z 15s 0.70um 4.2MsZ X
 HYB 22.49 163 eP 24 42.50 0.1
 1.0s 100.00nm 5.2mb
 LZH 25.47 87 iPc 25 12.50 1.4
 1.5s 42.00nm 4.8mb
 Z 20s 0.73um 4.2MsZ
 N 11s 0.76um
 RYD 25.71 243 eP 25 14.00 0.7
 GBA 25.99 167 Pd 25 13.70 -2.1
 0.8s 28.70nm 4.9mb
 CD2 27.31 98 P 25 29.40 1.4
 1.0s 30.00nm 4.9mb
 KAS 28.96 287 eP 25 43.50 0.7
 KOD 29.30 169 eP 25 45.80 -0.5
 KMI 29.53 109 Pc 25 38.80 -9.5X
 sP 25 50.80
 KMI 29.53 109 Pc 25 48.00 -0.3
 BBTK 29.98 284 iPc 25 54.00 1.9
 CHG 31.04 123 eP 26 18.00 16.6X
 TIY 31.64 80 eP 26 06.40 -0.2
 Z 16s 0.60um 4.4MsZ X
 GYA 31.71 103 P 26 08.20 0.8
 IZI 32.35 286 eP 26 12.30 -0.5
 VRI 33.53 296 ePc 26 24.00 1.1
 BJI 33.90 74 eP 26 26.00 -0.1
 Z 16s 0.58um 4.4MsZ X
 JMB 34.08 290 eP 26 28.00 0.3
 NST 34.11 125 eP 26 29.00 0.8
 MLR 34.11 296 ePc 26 30.00 1.9
 CMP 34.77 296 ePc 26 23.00 -10.7X
 PVL 34.86 292 eP 26 32.00 -2.3
 PLD 35.52 290 eP 26 43.00 3.0X
 RZN 35.59 289 iP 26 44.00 3.1X
 BMR 35.60 300 ePd 26 45.00 4.4X
 WHN 35.67 91 Pd 26 43.00 1.6
 pP 26 49.00 20kmX
 PGB 35.82 291 iP 26 45.00 2.4
 SUF 36.01 326 iP 26 44.00 0.1
 0.5s 6.00nm 4.8mb
 NUR 36.05 322 iP 26 44.60 0.3
 0.9s 25.30nm 5.1mb
 i 26 52.80 28kmX
 VTS 36.51 291 eP 26 51.00 2.5
 KKB 36.75 290 iP 26 53.00 2.6X
 BZS 37.11 297 eP 26 54.00 0.6
 VAY 37.25 289 eP 26 41.00 -13.5X
 SOD 37.59 333 iP 26 58.60 1.5
 SPC 37.64 303 eP 27 01.00 3.0X
 KRA 37.77 304 eP 26 58.60 -0.2
 0.7s 47.00nm 5.5mb
 i 26 59.70 4kmX
 i 27 01.60
 SKO 37.92 291 eP 27 03.50 3.3X
 BEO 38.05 296 eP 27 01.50 0.3
 SRO 39.06 301 eP 27 11.50 1.8

UPP 39.38 320 iP 27 12.30 0.1
 i 28 26.70 382kmX
 ZST 39.82 301 eP 27 17.70 1.8
 KSP 40.04 306 iPc 27 18.80 1.1
 e 28 42.50 442kmX
 SSE 40.74 86 P 27 24.50 0.8
 1.0s 12.00nm 4.6mb
 Z 18s 0.50um 4.4MsZ
 SNG 41.08 133 eP 27 27.60 1.0
 0.9s 87.39nm 5.5mb
 PRU 41.24 305 eP 27 28.00 0.4
 i 27 29.00 3kmX
 HFS 41.38 320 eP 27 26.80 -1.8
 0.5s 23.60nm 5.2mb
 Z 17s 0.63um 4.6MsZ X
 LR 43 00.00
 BRG 41.51 306 iPc 27 31.00 1.2
 0.5s 20.00nm 5.1mb
 e 29 03.60 501kmX
 i 29 19.80
 VBY 41.53 298 ePd 27 32.70 2.7X
 LJU 41.91 299 eP 27 35.50 2.3
 KHC 41.99 303 P 27 34.70 0.9
 1.1s 16.00nm 4.7mb
 e 29 16.10 571kmX
 CLL 42.05 307 iP 27 35.50 1.3
 1.3s 26.00nm 4.8mb
 CEY 42.05 298 eP 27 36.00 1.7
 VOY 42.35 299 eP 27 37.20 0.3
 TRI 42.51 298 P 27 39.00 1.0
 CZI 42.56 288 P 27 39.20 0.7
 NB2 42.64 321 P 27 37.80 -1.2
 0.7s 8.80nm 4.6mb
 SGO 42.75 291 P 27 41.00 1.0
 FVI 42.99 300 P 27 43.10 1.2
 MOX 43.01 306 eP 27 44.00 1.9
 1.3s 24.00nm 4.8mb
 e 29 28.00 589kmX
 GRF 43.41 305 eP 27 46.50 1.1
 Z 18s 0.40um 4.4MsZ
 IPM 43.45 135 ePc 27 48.10 2.1
 0.7s 56.10nm 5.4mb
 ARV 43.62 295 P 27 49.50 2.4
 CTI 43.87 299 P 27 48.00 -1.3
 SOTA 43.91 301 iPc 27 48.50 -1.0
 0.7s 11.90nm 4.8mb
 i 27 50.00 5kmX
 i 28 13.20
 i 29 31.80
 i 29 35.10
 ASS 43.93 295 P 27 50.00 0.3
 MNS 44.11 294 P 27 53.00 1.9
 SFI 44.27 296 P 27 53.50 1.2
 CRE 44.27 296 P 27 53.00 0.4
 PGD 44.37 296 P 27 54.50 1.1
 SAL 44.74 299 P 27 58.00 1.9
 BDI 45.10 297 P 28 01.00 1.9
 SAX 45.14 302 ePc 27 58.80 -0.9
 PII 45.24 296 P 28 01.50 1.3
 MDI 45.25 299 P 28 08.50 8.3X
 BOB 45.70 298 P 28 05.90 2.0
 TMA 45.73 300 ePc 28 03.00 -1.2
 WTS 45.76 309 eP 28 05.50 1.4
 0.5s 8.00nm 4.9mb
 VAI 45.86 300 P 28 05.00 0.0
 CDF 46.22 304 eP 28 08.10 0.2
 0.8s 8.05nm 4.7mb
 PCP 46.38 298 P 28 05.85 -3.4X
 ORX 46.46 300 P 28 07.59 -2.3
 MEM 46.53 307 P 28 13.30 3.1X
 BSF 46.67 303 eP 28 10.90 -0.7
 0.8s 16.10nm 5.0mb
 FIN 46.71 298 P 28 10.26 -1.5
 DIX 46.72 300 ePc 28 11.60 -0.6
 ROB 46.91 298 P 28 13.75 0.3
 HAU 46.92 303 eP 28 12.70 -0.7
 1.0s 22.00nm 5.1mb
 Z 20s 0.10um 3.8MsZ
 EMS 47.04 301 ePc 28 14.00 -0.6
 LSD 47.06 300 P 28 12.82 -2.4
 RSP 47.08 299 P 28 12.41 -2.4
 BHB 47.17 299 P 28 12.93 -2.5
 ENR 47.24 298 P 28 16.00 -0.1
 STV 47.30 298 P 28 15.59 -1.0
 LPL 47.33 300 eP 28 17.00 0.0
 0.6s 26.15nm 5.4mb
 SBF 47.34 298 eP 28 16.60 -0.3

11d 03h

0.6s 37.90nm 5.6mb
 PPI 47.37 139 ePc 28 16.00 -1.2
 PZZ 47.38 298 P 28 17.44 0.2
 RRL 47.47 299 P 28 17.54 -0.5
 BNI 47.51 299 P 28 17.80 -0.4
 DOU 47.52 306 P 28 21.60 3.5X
 FRF 47.98 297 eP 28 21.20 -0.6
 0.6s 21.65nm 5.4mb
 LRG 48.21 297 eP 28 22.20 -1.3
 0.6s 12.65nm 5.1mb
 Z 20s 0.28um 4.2Msz
 LOR 48.74 303 eP 28 26.30 -1.3
 1.0s 10.00nm 4.8mb
 Z 20s 0.22um 4.2Msz
 LBF 48.74 302 eP 28 27.60 -0.1
 1.0s 12.00nm 4.9mb
 SMF 48.93 302 eP 28 28.20 -0.9
 1.2s 34.20nm 5.3mb
 SSF 49.03 303 eP 28 28.60 -1.2
 0.8s 7.40nm 4.8mb
 AVF 49.21 302 eP 28 30.40 -0.8
 0.9s 24.55nm 5.2mb
 BGF 49.61 302 eP 28 33.30 -1.0
 1.0s 14.00nm 4.9mb
 MAF 49.90 302 eP 28 36.10 -0.4
 0.8s 20.15nm 5.2mb
 TCF 50.11 302 eP 28 37.60 -0.6
 1.0s 18.00nm 5.0mb
 LSF 50.57 302 eP 28 40.70 -1.0
 1.0s 14.00nm 4.9mb
 CAF 50.65 300 eP 28 41.90 -0.4
 0.8s 13.45nm 5.0mb
 EKA 50.82 315 P 28 44.00 0.6
 0.9s 12.30nm 4.9mb
 RJF 50.89 301 eP 28 43.80 -0.3
 0.8s 16.10nm 5.0mb
 Z 20s 0.08um 3.7Msz
 LDF 50.90 306 eP 28 43.10 -1.0
 0.8s 18.80nm 5.1mb
 FLN 51.08 306 eP 28 44.00 -1.4
 1.0s 20.00nm 5.0mb
 Z 20s 0.38um 4.4Msz
 LPO 51.32 300 eP 28 46.80 -0.6
 0.8s 10.75nm 4.9mb
 GRR 51.43 306 eP 28 46.80 -1.3
 0.9s 22.95nm 5.1mb
 LFF 51.53 301 eP 28 47.60 -1.3
 0.8s 24.20nm 5.2mb
 MFF 51.55 303 eP 28 47.80 -1.3
 1.2s 26.80nm 5.1mb
 EPF 52.49 299 eP 28 55.40 -0.8
 0.8s 8.05nm 4.7mb
 TOL 56.77 297 eP 29 24.00 -3.5X
 BCAA 59.25 248 iPd 29 44.50 -0.6
 0.8s 18.00nm 5.3mb
 MBC 64.60 3 ePd 30 19.40 -0.7
 0.9s 51.00nm 5.6mb
 IMA 69.34 18 eP 30 48.80 -1.6
 INK 71.12 10 eP 31 00.50 -0.4
 BUL 71.56 223 iPc 31 00.50 -3.8X
 0.8s 9.70nm 4.9mb
 FBA 71.68 17 ePc 31 03.10 -1.3
 1.2s 36.40nm 5.3mb
 PMR 74.19 19 eP 31 14.80 -4.3X
 TOA 74.47 17 eP 31 20.00 -0.8
 MBL 74.98 134 eP 31 24.30 0.2
 0.5s 13.00nm 5.2mb
 KIC 75.61 266 P 31 27.20 -0.8
 1.0s 8.50nm 4.7mb
 TIC 75.65 267 P 31 27.50 -0.7
 LIC 75.91 267 P 31 29.00 -0.7
 SLR 76.35 220 eP 31 31.00 -1.1
 YKA 78.51 3 eP 31 41.00 -2.3
 0.7s 6.50nm 4.8mb
 MEKA 78.67 138 eP 31 45.00 0.3
 SEK 78.83 219 iPd 31 46.00 0.3
 0.9s 25.21nm 5.2mb
 WB5 82.86 123 eP 32 06.90 -0.1
 WRA 82.89 123 P 32 07.00 -0.1
 0.7s 31.70nm 5.5mb
 PMG 84.72 107 eP 32 17.50 1.0
 ASPA 85.28 126 iPc 32 19.30 0.2
 0.7s 18.60nm 5.4mb
 FFC 86.28 356 eP 32 23.00 -0.7
 0.9s 15.00nm 5.2mb
 PNT 91.27 7 eP 32 48.00 0.5
 0.8s 16.00nm 5.5mb

SIV 132.93 286 PKP 38 59.20 0.9
 ZOBO 138.29 292 ePKP 39 07.00 -2.1
 LPB 138.44 291 (PKP) 39 21.00 11.8X
 CNCB 138.54 291 PKP 39 10.00 0.5
 S.D. = 1.2 on 137 of 163 obs.

NOV 11, 1990 03h 31m 39.76± 0.30s
 39.723 N ± 3.1km 22.096 E ± 2.9km
 DEPTH = 14.5 ± 2.2 km

GREECE (364)
 ML 3.4 (ATH).

LIT 0.48 39 iPc 31 49.70 0.2
 KZN 0.63 337 eP 31 51.00 -1.1
 AGG 0.72 165 ePd 31 53.70 0.1
 EVR 0.84 196 eP 31 54.50 -1.1
 NEO 0.97 115 eP 31 58.50 0.8
 THE 1.13 36 iPd 32 00.45 0.0
 FNA 1.19 333 ePc 32 01.13 -0.5
 PLG 1.22 57 eP 32 02.00 -0.1
 PAIG 1.24 80 ePc 32 02.10 -0.2
 GRG 1.25 11 iPc 32 02.42 -0.2
 KBN 1.33 313 ePg 32 04.60 0.8
 IGT 1.38 263 ePc 32 03.50 -0.9
 SOH 1.46 41 ePd 32 06.10 0.5
 KNT 1.56 23 ePc 32 07.14 0.1
 OUR 1.57 67 ePd 32 08.18 1.0
 VAY 1.64 13 iPn 32 09.00 0.9
 TPE 1.70 290 ePn 32 10.00 0.9
 OHR 1.70 325 ePn 32 10.00 0.8
 0.7s 516.00nm
 KEK 1.77 270 ePd 32 11.20 1.1
 SRS 1.80 39 iPc 32 10.46 -0.1
 BERA 1.91 301 ePn 32 18.00 5.9X
 VLS 1.94 218 eP 32 14.00 1.4
 ATH 2.16 144 eP 32 15.10 -0.6
 MMB 2.24 33 iPc 32 16.00 -0.9
 KKB 2.27 19 iPc 32 17.00 -0.3
 SKO 2.30 348 ePn 32 18.00 0.3
 0.9s 109.00nm
 iPb 32 22.80
 eSn 32 52.50
 eS 32 58.30
 Lg 33 03.00
 TIR 2.35 314 ePn 32 25.00 6.6X
 ITM 2.54 183 eP 32 23.50 2.3
 KKS 2.67 332 ePn 32 28.00 5.0X
 RZN 2.80 45 iPc 32 25.00 0.0
 RDO 2.99 60 eP 32 26.50 -0.9
 VTS 2.99 16 ePg 32 28.00 0.4
 SDA 3.02 320 ePn 32 30.50 2.6
 VLI 3.07 167 eP 32 27.50 -1.2
 PLD 3.09 39 eP 32 33.00 4.1X
 KDZ 3.17 52 iP 32 30.00 -0.2
 PGB 3.23 28 eP 32 34.00 3.1X
 ALN 3.24 68 ePd 32 32.62 1.6
 LCI 3.24 282 P 32 36.90 5.9X
 EZN 3.26 87 ePn 32 31.00 -0.4
 PVL 4.25 34 eP 32 45.00 -0.4
 CSI 4.48 273 P 32 53.20 4.6X
 CZI 4.64 266 P 32 50.70 -0.3
 eSn 33 40.00
 MGR 5.05 277 P 32 56.00 -0.7
 SGO 5.27 281 P 32 58.40 -1.4
 SDI 6.60 290 P 33 18.00 -0.6

S.D. = 1.0 on 39 of 46 obs.

& NOV 11, 1990 03h 36m 14.20s
 34.533 N 120.967 W
 DEPTH = 6.0km (geophysicist)
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.9 (PAS).
 BLP 0.47 87 iPd 36 23.10 -0.5
 BCH 0.97 48 iPd 36 31.80 -1.4
 PHAM 1.38 20 iPd 36 37.70 -2.3

ABL 1.47 77 eP 36 39.30 -2.2
 PEC 3.22 100 eP 37 02.50 -3.8
 PLM 3.61 108 eP 37 08.00 -4.0
 6 obs. associated

NOV 11, 1990 03h 46m 31.97± 0.80s
 41.795 N ± 7.0km 20.069 E ± 6.5km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)

KKS 0.38 42 ePg 46 39.50 -0.2
 TIR 0.47 199 ePg 46 42.20 0.6
 SDA 0.48 298 ePg 46 41.50 -0.2
 OHR 0.88 141 ePg 46 47.50 -1.3
 SKO 1.04 80 ePg 46 52.00 0.4
 iSg 47 01.30
 iSg 47 03.50
 i 47 06.50
 VAY 1.94 103 ePn 47 06.00 0.8
 S.D. = 1.0 on 6 of 6 obs.

? NOV 11, 1990 04h 05m 22.83± 1.61s
 9.371 N ± 33.7km 79.393 W ± 25.6km
 DEPTH = 96.4 ± 16.1 km
 4.2mb (2 obs.)

PANAMA (81)
 MD 4.5 (UPA). Felt at Colon and
 Panama City.

ECO 0.30 269 iPd 05 37.20 0.0
 (S) 05 52.20
 UPA 0.41 200 iPc 05 37.80 0.0
 DVD 3.16 253 ePd 06 11.50 0.0
 (S) 06 52.70
 i 07 15.70
 FVM 30.17 342 P 11 26.00 0.0
 ALO 35.49 320 eP 12 16.00 3.6X
 0.9s 2.10nm 4.1mb
 GOL 38.06 327 (P) 12 37.30 3.3X
 YKA 58.83 342 eP 15 13.20 0.0
 0.7s 2.00nm 4.3mb
 WRA 145.78 248 PKP 24 59.00 6.4X
 1.2s 1.50nm
 S.D. = 0.0 on 5 of 8 obs.

NOV 11, 1990 04h 31m 13.99± 0.37s
 9.815 N ± 4.6km 78.457 W ± 7.5km
 DEPTH = 33.0km (normal)
 4.8mb (8 obs.) 4.2Msz (1 obs.)

PANAMA (81)
 MD 4.7 (UPA). Felt (III) at
 Colon and (II) at Panama City.

ECO 1.30 250 iPc 31 34.20 -1.8
 (S) 31 49.70
 UPA 1.35 232 iPc 31 34.50 -2.1
 DVD 4.18 251 (P) 32 19.00 2.0
 BMG 5.98 117 eP 32 42.00 -0.7
 BOG 6.75 140 eP 32 56.00 2.3
 iS 34 18.00
 PSO 8.64 172 eP 33 20.00 -0.1
 COTA 9.42 179 P 33 30.50 -0.5
 CAYA 9.68 177 P 33 35.80 1.1
 YANA 9.87 181 eP 33 38.00 0.9
 OUR 9.92 180 P+ 33 38.50 0.6
 GGP 9.92 181 eP 33 39.10 1.0
 QTO 9.95 180 eP 33 39.40 1.1
 VC1 10.39 180 eP 33 45.00 0.7
 ZOBO 27.86 158 P 37 03.00 -0.5
 Z 20s 0.70um 4.2Msz
 S 41 48.00
 LR 46 10.00
 LPB 28.11 159 P 37 03.00 -2.6
 Z 23s 1.52um 4.5MszX
 LR 46 10.00
 UYO 28.33 331 iPd 37 07.50 0.5
 CNCB 28.41 159 P 37 07.00 -1.4
 SIV 30.88 146 P 37 27.40 -2.5
 ALO 35.76 319 eP 38 12.00 -0.2
 1.0s 12.50nm 4.8mb
 ANMO 35.76 319 ePc 38 12.20 0.0
 1.0s 12.50nm 4.8mb
 GOL 38.21 326 iPc 38 33.20 0.4
 1.1s 12.82nm 4.7mb
 DAU 42.11 322 iPc 39 06.20 1.1
 PLM 42.35 309 iPc 39 07.80 0.8
 BW06 42.61 326 iP 39 09.30 0.2

1.2s 19.98nm 4.7mb
 DUG 42.94 321 ePc 39 12.40 0.7
 PTI 44.27 324 ePc 39 22.80 0.3
 TNP 44.73 315 iP 39 26.10 -0.2
 1.0s 6.88nm 4.5mb
 SCH 45.83 9 eP 39 36.00 1.4
 LBFM 49.43 317 eP 40 02.30 -0.9
 NEW 50.19 327 e(P) 40 08.40 -0.3
 0.8s 10.94nm 4.9mb
 EDM 51.58 334 ePd 40 18.00 -1.1
 YKA 58.70 341 eP 41 09.50 -1.0
 0.8s 7.10nm 4.8mb
 INK 68.47 341 eP 42 14.00 -0.6
 MBC 69.96 350 eP 42 24.00 0.4
 LIC 72.68 87 P 42 50.30 9.2X
 KIC 72.94 86 P 42 51.90 9.2X
 1.1s 15.50nm 4.9mb
 KHC 83.99 41 eP 43 54.50 12.1X
 ASPA 146.19 242 ePKP 50 52.30 -0.1
 0.9s 11.70nm
 GBA 146.63 46 PKP 51 03.00 9.8X
 WB5 146.79 249 ePKP 50 54.00 0.6
 WRA 146.80 249 PKP 50 54.00 0.6

S.D. = 1.2 on 37 of 41 abs.

& NOV 11, 1990 04h 34m 59.33s
 52.081 N 115.070 W
 DEPTH = 5.0km
 ALBERTA PROVINCE, CANADA (24)
 <PGC-P>. ML 3.6 (PGC).

EDM 1.55 42 iP 35 29.00 1.3
 MNB 2.05 275 P 35 35.00 0.0
 SLEB 2.12 246 P 35 36.50 0.4
 PNT 4.00 228 P 36 01.00 -1.6
 NEW 4.04 200 eP 36 02.70 -0.5
 DPW 4.67 207 eP 36 14.00 1.7
 HRY 5.78 157 ePn 36 28.50 0.6
 SXM 6.45 155 ePn 36 38.30 0.8
 LRM 6.50 164 ePn 36 38.10 -0.1
 HBMT 6.50 165 ePn 36 38.10 -0.1
 LCCM 6.59 160 ePn 36 39.70 0.3
 BGMT 7.14 163 ePn 36 46.80 -0.4
 MCMT 7.41 168 ePn 36 50.20 -0.7
 FFC 8.26 66 eP 37 01.00 -1.6
 0.4s 4.00nm 5.0mb X
 14 obs. associated

NOV 11, 1990 04h 43m 15.38±1.20s
 56.976 N ±10.1km 152.827 W ±7.2km
 DEPTH = 61.9 ±13.5 km
 4.1mb (2 obs.)
 KODIAK ISLAND REGION (13)

KDC 0.80 13 iPc 43 31.40 0.4
 SYI 1.66 8 eP 43 43.00 0.4
 0.5s 44.09.95
 CDD 2.01 348 eP 43 47.97 0.5
 MCNL 2.36 341 eP 43 52.97 0.6
 AUI 2.39 353 eP 43 53.24 0.5
 AUE 2.41 353 eP 43 53.99 0.9
 AGU 2.41 353 eP 43 53.77 0.5
 AUP 2.41 353 eP 43 53.63 0.4
 AUH 2.42 353 eP 43 54.23 1.0
 CNPM 2.69 18 eP 43 58.06 0.9
 OPT 2.69 356 eP 43 57.86 0.7
 BGM 2.74 333 eP 43 56.24 -1.5
 HOM 2.76 13 eP 43 59.19 1.1
 PDB 2.91 346 eP 43 59.45 -0.8
 INE 3.10 358 eP 44 01.82 -1.2
 INW 3.11 357 eP 44 03.02 -0.1
 NNL 3.18 14 eP 44 05.54 1.5
 RSO 3.50 1 eP 44 08.60 -0.1
 RS2 3.50 1 eP 44 08.68 0.0
 REF 3.52 1 eP 44 09.02 0.0
 RDN 3.55 1 eP 44 09.34 0.0
 NCT 3.60 359 eP 44 09.64 -0.3
 SEW 3.60 28 eP 44 09.11 -0.8
 RDT 3.62 3 eP 44 09.87 -0.3
 SLKM 3.79 20 eP 44 12.87 0.2
 NKA 3.87 12 eP 44 16.10 2.5
 LTI 4.03 38 eP 44 15.60 -0.3
 SPU 4.24 5 eP 44 17.27 -1.6
 CKL 4.24 3 eP 44 18.45 -0.6
 KNIM 4.30 36 eP 44 19.11 -0.6
 BGL 4.31 3 eP 44 19.38 -0.5

CRP 4.32 4 eP 44 20.47 0.3
 CGLM 4.37 5 eP 44 20.88 0.1
 NCG 4.46 4 eP 44 21.56 -0.4
 SDN 4.59 252 eP 44 23.90 0.2
 PMS 4.60 20 eP 44 23.64 -0.3
 PLRM 5.00 21 eP 44 27.74 -1.9
 PMR 5.00 21 eP 44 28.90 -0.7
 TOA 6.16 31 eP 44 46.00 0.2
 TTA 6.18 346 eP 44 44.50 -1.7
 FBA 8.32 15 eP 45 13.30 -2.3X
 IMA 9.13 358 eP 45 27.20 0.2
 MBC 22.81 20 eP 48 18.00 4.9X
 0.6s 4.00nm 4.0mb
 SLL 62.38 8 eP 53 33.60 0.4
 0.5s 1.10nm 4.2mb
 S.D. = 0.9 on 42 of 44 obs.

NOV 11, 1990 07h 06m 28.90±0.33s
 74.683 N ±4.5km 8.182 E ±6.1km
 DEPTH = 10.0km (geophysicist)
 4.9mb (44 obs.) 4.8msz (14 obs.)
 GREENLAND SEA (640)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 35C
 Centroid Location:
 Origin Time 07:06:34.4 0.4
 Lat 74.80N 0.07 Lon 8.04E 0.09
 Dep 15.0 FIX Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.86 0.04 Mtt=-0.20 0.07
 Mff= 1.06 0.04 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf= 0.48 0.04
 Principal Axes:
 T Val= 1.22 Plg= 0 Azm=109
 N -0.36 0 19
 P -0.86 90 180
 Best Double Couple: Mo=1.0*10**17
 NP1: Strike=199 Dip=45 Slip=-90
 NP2: 19 45 -90

KBS 4.34 10 eP 07 34.00 -2.4
 TRO 6.04 142 eP 07 56.46 -3.9X
 0.5s 08.50.44
 JNE 6.11 241 eP 07 59.22 -2.0
 JNW 6.11 241 eP 07 59.79 -1.5
 JMI 6.25 241 eP 08 01.95 -1.4
 LOF 6.80 163 eP 08 06.95 -4.1X
 0.9s 09.17.51
 KTK1 7.36 133 eP 08 13.59 -5.3X
 0.5s 09.33.52
 KEV 7.56 121 iP 08 14.20 -7.4X
 0.5s 09.26.40
 SOD 9.43 132 iP 08 41.00 -6.6X
 NSS 10.28 171 eP 08 57.54 -1.8
 0.5s 10.45.39
 MOL 12.17 181 eP 09 20.68 -4.4X
 0.5s 11.19.08
 AKU 12.53 238 iP 09 33.90 4.2X
 2.1s 480.00nm 6.4mb X
 0.5s 09.47.10
 SUF 13.57 143 iP 09 39.70 -3.8X
 NB2 13.75 174 P 09 41.40 -4.6X
 1.4s 38.00nm 5.1mb
 NRA0 14.07 173 Pn 09 48.00 -2.1
 HFS 14.76 169 eP 09 57.70 -1.4
 0.6s 5.30nm 4.2mb
 Z 20s 2.99um 4.2mszX
 1.2s 13.33.00
 NUR 15.45 148 iP 10 06.00 -2.1
 0.6s 19.60nm 4.6mb
 EKA 19.94 199 Pd 11 03.00 -0.3
 1.2s 27.00nm 4.4mb
 WIT 21.97 182 eP 11 20.50 -3.5X
 WTS 22.78 182 eP 11 34.00 1.8
 1.2s 64.00nm 5.0mb
 ETA 22.84 203 eP 11 34.00 1.3
 ECP 23.36 203 eP 11 35.80 -2.0
 CLL 23.55 172 iP 11 41.00 1.4
 1.9s 155.00nm 5.2mb
 Z 17s 1.00um 4.3mszX
 0.5s 15.53.00
 BRG 24.02 171 iP 11 45.30 1.1
 2.0s 130.00nm 5.2mb
 0.5s 12.04.00
 1.2s 12.23.10
 ENN 24.02 184 eP 11 45.00 0.8

1.8s 342.00nm 5.6mb
 UCC 24.03 186 P+ 11 46.00 1.7
 KSP 24.17 167 iPd 11 46.70 1.1
 1.7s 104.00nm 5.2mb
 MOX 24.17 175 iPc+ 11 47.00 1.3
 1.3s 44.00nm 4.9mb
 Z 17s 1.90um 4.6mszX
 N 19s 1.90um
 E 19s 1.00um
 0.5s 16.15.00
 MEM 24.18 183 P 11 46.70 1.0
 i 11 54.50
 SNF 24.32 186 P 11 51.50 4.4X
 HOF 24.51 174 eP 11 49.80 0.8
 DOU 24.72 186 P 11 53.00 2.0
 S 16 26.00
 PRU 24.93 170 eP 11 54.00 1.0
 1.1s 18.40nm 4.7mb
 Z 18s 1.10um 4.4msz
 N 20s 0.90um
 E 16s 0.50um
 e 12 14.00
 PP 12 28.00
 eS 16 26.00
 GRF 25.12 175 ePc 11 56.10 1.3
 Z 18s 1.70um 4.6msz
 e 12 04.20
 KRA 25.21 162 eP 11 57.10 1.5
 1.4s 123.00nm 5.4mb
 Z 22s 3.20um 4.8msz
 E 24s 2.80um
 i 12 03.10
 i 12 05.10
 eS 16 28.00
 KHC 25.75 172 P 12 02.10 1.3
 Z 20s 1.00um 4.3msz
 N 18s 1.00um
 E 18s 1.00um
 i 12 08.30
 SPC 26.09 162 eP 12 04.80 0.6
 MBC 26.20 335 eP 12 08.00 3.3X
 1.4s 18.00nm 4.6mb
 FLN 26.27 193 eP 12 03.10 -2.5
 1.2s 35.70nm 4.9mb
 Z 18s 0.75um 4.3msz
 CDF 26.37 181 eP 12 10.50 3.9X
 0.4s 4.60nm 4.5mb
 LDF 26.42 192 eP 12 04.90 -2.1
 1.2s 41.65nm 5.0mb
 GRR 26.67 193 eP 12 06.60 -2.6
 1.0s 28.00nm 4.9mb
 HAU 26.78 183 eP 12 13.00 2.7X
 1.2s 29.75nm 4.9mb
 Z 20s 1.50um 4.5msz
 26.84 171 eP 12 11.00 0.2
 KMR 26.85 167 eP 12 11.70 0.8
 ZST 26.95 182 eP 12 15.20 3.2X
 1.2s 17.85nm 4.6mb
 LPF 27.04 194 eP 12 10.40 -2.2
 1.2s 29.75nm 4.9mb
 SRO 27.31 165 eP 12 16.10 1.0
 e 13 08.40
 LOR 27.57 186 eP 12 18.50 1.0
 1.2s 11.90nm 4.5mb
 Z 20s 1.75um 4.6msz
 SQTA 27.59 176 eP 12 17.00 -0.8
 1.7s 67.60nm 5.1mb
 ic 12 18.20
 e 12 24.40
 e 14 13.00
 SSF 27.79 187 eP 12 20.40 0.9
 1.2s 14.90nm 4.6mb
 LBF 27.85 186 eP 12 21.00 0.9
 1.0s 12.00nm 4.6mb
 BMR 27.90 158 ePd 12 25.00 4.6X
 AVF 28.07 187 eP 12 22.90 1.0
 0.4s 3.45nm 4.5mb
 SMF 28.20 186 eP 12 24.00 0.8
 0.4s 3.45nm 4.5mb
 FVI 28.26 173 P 12 24.40 0.8
 BGF 28.32 188 eP 12 23.20 -1.0
 1.4s 32.65nm 4.9mb
 TCF 28.61 189 eP 12 24.60 -2.3
 1.2s 17.85nm 4.7mb
 MAF 28.66 188 eP 12 26.40 -1.0
 1.2s 16.35nm 4.7mb
 LSF 28.68 190 eP 12 25.40 -2.1

MAW	0.8 s	5.20nm	4.7mb	146.26	146	ePKP	26	09.50	1.6
S.D. = 1.3 on 89 of 114 obs.									
%	NOV	11, 1990	07h	39m	56.04	± 1.11s			
46.286 N ± 8.0km							6.823 E ± 17.4km		
DEPTH = 10.0km (geophysicist)									
SWITZERLAND									(544)
ML 2.3 (LDG).									
LPL	0.77	185	Pg	40	11.20	-0.1			
BSF	1.55	359	Pg	40	22.40	-1.4			
							Sg		
HAU	1.75	349	Pg	40	26.80	0.2			
							Sg		
LBF	2.08	291	Pg	40	36.80	5.3X			
							Sg		
CDF	2.15	8	Pg	40	33.60	1.1			
LOR	2.26	297	Pg	40	40.40	6.3X			
							Sg		
AVF	2.45	283	Pn	40	36.80	0.2			
S.D. = 1.3 on 5 of 7 obs.									
• NOV 11, 1990 07h 46m 06.84 ± 0.55s									
31.006 N ± 9.7km 141.667 E ± 9.3km									
DEPTH = 33.0km (normal)									
4.5mb (5 obs.)									
SOUTH OF HONSHU, JAPAN									(211)
YAMJ	7.28	350	eP	47	51.00	-2.5			
OFUJ	8.06	0	eP	47	59.70	-4.7X			
							eS		
CN2	18.10	319	P	50	16.00	-1.2			
							1.0s 30.00nm 4.4mb		
BJI	22.56	301	eP	51	05.50	0.2			
							1.4s 66.00nm 4.9mb		
TIY	24.98	293	Pd	51	29.50	0.6			
BTO	27.27	299	eP	51	50.00	-0.2			
XAN	27.71	285	P	51	53.40	-0.8			
GTA	34.96	296	eP	52	58.00	0.0			
							1.0s 10.00nm 4.7mb		
WMO	44.01	303	P	54	14.20	1.2			
GUN	48.25	281	P	54	47.40	0.3			
PKI	48.75	281	P	54	50.80	-0.1			
KKN	48.79	281	P	54	51.00	-0.1			
DMN	48.99	281	P	54	53.00	0.3			
GKN	49.26	282	P	54	54.80	0.1			
WB5	51.08	189	eP	55	06.10	-2.1			
WRA	51.14	189	P	55	08.00	-0.7			
							1.0s 4.40nm 4.4mb		
FBA	54.15	30	P	55	32.00	1.3			
INK	59.69	25	eP	56	13.00	3.0X			
QUE	63.10	291	eP	56	34.60	0.9			
LRM	78.34	43	eP	58	05.90	0.2			
TNP	79.39	52	P	58	10.50	-1.0			
HFS	79.67	336	eP	58	11.70	-0.5			
							0.4s 1.00nm 4.2mb		
KRA	84.21	327	eP	58	37.60	1.5			
							e 58 42.80		
KSP	85.34	329	eP	58	43.00	1.3			
ZOBO	149.14	68	PKP	05	51.00	0.7			
LPB	149.30	69	ePKP	05	51.00	0.6			
CNCB	149.55	69	PKP	05	57.00	6.1X			
SIV	154.42	59	PKP	06	04.00	6.7X			
S.D. = 1.1 on 24 of 28 obs.									
NOV 11, 1990 07h 48m 22.36 ± 0.16s									
30.992 N ± 3.3km 141.592 E ± 3.5km									
DEPTH = 36.5km (5 depth phases)									
5.3mb (65 obs.) 5.0msz (13 obs.)									
SOUTH OF HONSHU, JAPAN									(211)
CENTROID, MOMENT TENSOR									(HRV)
Data Used: GDSN									
L.P.B.: 13S, 28C									
Centroid Location:									
Origin Time 07:48:24.1 0.5									
Lat 31.07N 0.08 Lon 141.62E 0.05									
Dep 15.0 FIX Half-duration 1.9									
Moment Tensor; Scale 10**16 Nm									
Mrr= 7.09 0.43 Mtt= 2.77 0.58									
Mff=-9.85 0.50 Mrt= 0.33 1.28									
Mrf= 9.52 1.83 Mtf= 0.29 0.51									
Principal Axes:									
T Val= 11.38 Plg=66 Azm=277									
N 2.75 3 181									
P -14.13 24 90									
Best Double Couple: Mo=1.3*10**10									

	NP1:Strike=174			Dip=21		Slip=		82
	NP2:			2		69		93
KAKJ	5.33	348	P	49	39.30			-2.3
			S	50	38.50			
IIDJ	5.43	326	P	49	45.30			2.2
			eS	50	52.50			
CHJJ	5.49	337	P	49	42.90			-0.9
			S	50	43.90			
WKYJ	6.00	304	P	49	53.70			2.6
MTMJ	6.41	332	P	49	57.40			0.5
			eS	51	10.60			
TSRJ	6.53	315	eP	50	02.00			3.5X
NIJJ	6.59	342	P	49	58.00			-1.4
			S	51	12.00			
TKSJ	7.04	297	P	50	08.80			3.2X
YAMJ	7.28	350	eP	50	03.80			-5.2X
			eS	51	22.50			
YONJ	8.00	304	eP	50	21.50			2.4
OFUJ	8.07	0	eP	50	14.30			-5.8X
			eS	51	37.80			
KAGJ	9.18	274	eP	50	40.60			5.2X
KUMJ	9.29	282	eP	50	41.90			5.0X
SHNJ	9.38	292	eP	50	41.90			3.7X
KUSJ	12.34	11	P	51	02.60			-15.7X
			S	53	18.00			
ASAJ	13.13	3	eP	51	22.90			-5.9X
MDJ	16.55	329	P	52	10.50			-2.7
	1.0s	40.00nm						4.5mb
Z	17s	2.70um						3.8MsZ
N	14s	3.20um						
E	13s	1.70um						
SSE	17.49	276	P	52	26.80			1.7
	8.0s	770.00nm						4.9mb X
Z	19s	2.30um						4.2MsZ
N	15s	2.20um						
E	15s	2.70um						
PJG	17.58	169	eP	52	27.50			1.2
GUM0	17.58	169	eP	52	27.80			1.5
	1.1s	518.26nm						5.6mb
Z	18s	2.99um						4.9MsZ
GUA	17.64	169	eP	52	28.30			1.3
	1.2s	537.50nm						5.6mb
SNY	18.05	312	iPd	52	32.40			0.5
	1.2s	200.00nm						5.1mb
Z	17s	4.10um						4.9MsZ
N	13s	2.67um						
E	15s	3.90um						
		sP	52	46.00				
CN2	18.07	320	iPd	52	31.00			-1.1
	1.0s	200.00nm						5.2mb
Z	15s	5.90um						4.3MsZ X
N	12s	2.50um						
E	12s	1.60um						
		eSP	52	47.00				
DL2	18.15	301	P	52	34.50			1.4
Z	22s	3.90um						
N	12s	3.10um						
E	16s	3.80um						
NJ2	19.41	279	eP	52	48.00			-0.4
Z	18s	1.10um						
N	13s	1.90um						
TIA	21.01	291	Pc	53	05.00			-0.1
	1.6s	100.00nm						5.0mb
Z	16s	5.70um						5.0MsZ X
N	14s	4.10um						
E	14s	3.60um						
BJI	22.51	301	eP	53	19.00			-1.0
	5.0s	900.00nm						5.5mb X
Z	16s	5.81um						5.1MsZ X
N	14s	2.55um						

E	15s	6.00um			QUE	63.05	290	iPc	58	48.80	0.3				i	01	41.50	156km		
		PP	54	53.50				e(S)	07	26.00					i	02	02.00			
XAN	27.65	285	P	54	07.30	-1.5	BWA	65.38	174	eP	59	03.20	-0.1		i	04	21.00			
DAV	28.12	216	eP	54	12.00	-1.0	ADE	65.66	183	eP	59	05.00	-0.1	BZS	86.34	322	eP	01	02.00	0.1
GYA	30.88	270	P	54	36.60	-1.2	KLB	66.22	202	eP	59	08.20	-0.5	CLL	86.41	331	iPc	01	02.20	0.1
	Z	18s	1.20um		4.6Msz		CAN	66.33	173	eP	59	10.00	0.7		1.5s	50.00nm			5.5mb	
	N	15s	0.60um				MAIO	66.59	299	iPc	59	12.50	1.3	SRO	86.51	326	e(P)	01	02.60	-0.1
			S	59	43.00				eS	08	13.00		PRU	86.71	329	Pc	01	04.00	0.4	
LZH	31.74	289	Pc	54	44.00	-1.3	NWAO	67.62	202	eP	59	18.00	0.4		Z	16s	1.10um		5.4MszX	
	1.0s	62.00nm			5.4mb		TOO	68.30	177	eP	59	22.00	0.2		N	16s	0.50um			
	Z	16s	2.40um		5.0MszX		YKA	68.98	29	eP	59	23.20	-2.5		E	16s	0.80um			
	N	13s	1.90um					1.0s	10.20nm			4.8mb					0.80um	04	43.00	
	E	14s	1.30um				KEV	69.15	340	eP	59	29.00	2.4	ZST	86.82	326	eP	01	04.80	0.6
CD2	32.35	280	eP	54	48.30	-2.2	SOD	70.60	338	iP	59	35.00	-0.5	BEO	87.48	322	eP	01	05.50	-1.9
	Z	15s	5.60um		5.4MszX		LON	72.29	46	P	59	47.40	1.3	MOX	87.49	331	eP	01	08.00	0.6
	E	15s	2.10um				PNT	72.45	43	eP	59	46.00	-0.9		1.8s	38.00nm			5.4mb	
KKM	34.39	229	eP	55	08.50	0.1	SUF	73.46	334	iP	59	52.30	-0.2	WIT	87.76	335	eP	01	10.50	1.9
KMI	34.66	270	eP	55	09.50	-1.3			0.5s	8.30nm		5.0mb		KHC	87.77	329	iPc	01	09.50	0.7
	Z	14s	2.70um		5.1MszX		EDM	74.02	37	eP	59	55.00	-1.0		1.1s	7.50nm			4.9mb	
	N	14s	1.20um				NEW	74.40	43	P	59	57.20	-1.2	WTS	88.36	334	eP	01	12.00	0.5
	E	14s	1.20um					1.3s	47.17nm			5.3mb		ANMO	88.37	50	P	01	11.80	-0.4
GTA	34.98	296	Pd	55	12.00	-0.7	WDC	74.63	52	eP	00	01.30	1.6	ALO	88.37	50	eP	01	11.50	-0.7
	1.0s	40.00nm			5.3mb		SHI	74.67	296	eP	00	00.00	-0.4		1.2s	11.72nm			5.1mb	
	Z	16s	4.10um		5.3MszX		LBFM	74.70	51	P	59	59.70	-0.7		Z	18s	1.25um		5.4Msz	
	N	16s	3.80um				NUR	75.36	333	eP	00	04.00	0.5	GRF	88.37	330	ePc	01	12.40	0.7
		PP	56	34.00				0.8s	24.90nm			5.2mb			1.7s	64.00nm			5.6mb	
ADK	36.93	43	eP	55	30.60	1.2	MIN	75.37	52	eP	00	06.20	2.0		Z	18s	0.60um		5.1Msz	
	1.1s	47.90nm			5.3mb		WLZ	75.48	153	eP	59	52.40	-12.0X				ec	01	25.10	42km
CHG	40.31	263	ePc	55	57.50	-0.6	ORV	75.81	52	eP	00	08.70	2.2				e	01	39.50	
	0.9s	13.87nm			4.7mb		BRK	76.09	54	eP	00	09.80	1.7	VAY	88.67	319	eP	01	13.00	-0.2
PMG	40.52	172	eP	56	00.00	0.3	BKS	76.10	54	eP	00	09.90	1.7	SKO	88.87	320	eP	01	13.00	-1.2
	1.1s	75.95nm			5.4mb		MHC	76.77	54	eP	00	12.00	-0.1		Z	16s	1.18um		5.4MszX	
LSA	43.25	282	eP	56	23.00	0.4	ARN	76.84	54	P	00	11.40	-1.0				LR	44	40.00	
WMQ	43.96	303	iPd	56	28.70	1.0	CMB	77.31	53	eP	00	14.00	-1.0	PTJ	89.01	325	eP	01	14.10	-0.8
	2.0s	100.00nm			5.3mb		PRS	77.45	55	eP	00	14.70	-1.0	BHG	89.12	328	eP	01	15.90	0.6
	Z	16s	1.30um		4.9MszX		KIW	77.86	155	eP	00	13.80	-3.9X		1.3s	42.00nm			5.6mb	
	N	15s	1.40um				PRI	78.04	55	eP	00	21.50	2.4	LJU	89.59	326	eP	01	17.00	-0.5
	E	15s	1.80um				MRW	78.11	155	eP	00	19.70	0.7	VBY	89.63	325	e(P)	01	18.00	0.3
MTN	44.73	195	eP	56	33.00	-1.0	CAW	78.13	155	eP	00	15.70	-3.4X	OHR	89.80	320	eP	01	18.00	-0.7
	0.3s	43.00nm			5.8mb		FRI	78.29	54	eP	00	19.00	-1.3	CEY	89.86	326	eP	01	18.50	-0.3
SNG	45.01	247	eP	56	37.00	0.6	LRM	78.39	43	eP	00	19.80	-1.3	VOY	89.90	327	eP	01	18.00	-1.1
IPM	46.30	244	ePd	56	48.90	2.4	UPP	78.45	335	iP	00	19.50	-1.2	FVI	90.01	327	P	01	18.70	-0.7
GUN	48.19	281	P	57	01.80	0.0	FFC	78.72	32	iPc	00	20.90	-1.4	TRI	90.20	326	eP	01	19.60	-0.7
PKI	48.69	281	P	57	05.00	-0.6		0.7s	14.00nm			5.1mb		SQTA	90.25	329	iPc	01	20.00	-0.7
	1.0s	50.00nm			5.5mb		TNP	79.44	52	P	00	25.60	-1.3		0.9s	10.00nm			5.1mb	
KKN	48.73	281	P	57	05.00	-0.8		1.1s	16.23nm			4.9mb					i	01	29.30	29km
DMN	48.93	281	P	57	06.90	-0.5	HFS	79.66	336	eP	00	26.30	-1.0				e	04	55.00	
	0.9s	44.00nm			5.5mb			0.9s	15.50nm			5.0mb					e	05	09.00	
GKN	49.20	282	P	57	08.80	-0.5		Z	18s	0.77um		5.1Msz		CTI	90.94	328	P	01	23.50	-0.4
PPI	50.05	239	e(P)	57	15.60	-0.1				LR	36	50.00		CDF	91.01	332	eP	01	24.30	0.2
TTA	50.38	32	eP	57	18.70	0.9	NB2	79.82	338	P	00	27.90	-0.3		1.2s	17.85nm			5.3mb	
CTA	50.98	174	iPc	57	21.80	-0.9		0.9s	17.70nm			5.0mb		BSF	91.67	331	eP	01	27.00	-0.2
	1.1s	60.76nm			5.5mb		ISA	79.82	55	eP	00	28.00	-0.8		1.0s	8.00nm			5.1mb	
WB5	51.05	189	iPc	57	21.90	-1.3	CLC	80.35	54	eP	00	33.00	1.4	HAU	91.71	332	eP	01	27.10	-0.2
		e	04	37.30			SBB	80.78	55	eP	00	33.00	-0.9		1.2s	11.90nm			5.2mb	
WRA	51.12	189	P	57	22.00	-1.7	PAS	80.81	56	eP	00	37.00	3.0X		Z	20s	0.35um		4.8Msz	
	0.7s	31.60nm			5.4mb		MWC	80.85	56	eP	00	36.00	1.6	SAL	91.78	328	P	01	27.50	-0.1
QIS	51.29	182	eP	57	25.00	0.0	GSC	81.17	54	eP	00	38.00	2.1	ARV	92.23	325	P	01	30.50	0.8
KDC	51.65	39	P	57	25.40	-2.0	DUG	81.23	48	P	00	35.80	-0.4	VAI	92.37	329	Pd	01	30.00	-0.3
IMA	51.88	28	eP	57	27.60	-1.6	PEC	81.66	56	P	00	36.50	-2.0	SFI	92.44	326	P	01	31.80	1.2
KSH	53.21	298	P	57	41.00	1.5	KAS	81.98	314	eP	00	42.00	2.0	PGD	92.54	326	P	01	32.50	1.1
	N	12s	1.40um				DAU	82.10	47	P	00	40.60	-0.4	CRE	92.61	326	P	01	32.00	0.4
PMR	53.47	34	eP	57	39.00	-1.8	PLM	82.15	56	eP	00	40.00	-1.2	ASS	92.68	325	P	01	34.00	2.1
	1.2s	61.00nm			5.5mb		TPC	82.33	55	eP	00	44.00	2.0	DUI	92.82	323	P	01	32.50	-0.1
FBA	54.20	30	eP	57	45.20	-0.9	AKU	82.36	352	eP	00	42.70	1.3	BOB	92.92	328	P	01	33.50	0.5
	0.7s	19.20nm			5.2mb			1.0s	16.00nm			5.0mb		SDI	93.11	324	P	01	34.00	0.1
ASPA	54.85	189	iPc	57	49.80	-1.6	BAR	82.64	56	eP	00	44.00	0.4	SGO	93.17	322	P	01	39.50	5.4X
	0.5s	32.50nm			5.6mb		BMR	84.01	323	ePd	00	54.00	3.8X	LOR	93.38	333	iPc	01	34.60	0.0
	Z	21s	0.80um		4.8Msz		MLR	84.10	320	ePd	00	51.00	0.1		1.2s	23.80nm			5.5mb	
		iS	05	23.20			KRA	84.19	327	iPc	00	51.70	0.6		Z	20s	0.43um		4.9Msz	
NDI	55.18	285	iPc	57	53.00	-0.9		1.1s	136.00nm			6.0mb		MEO	93.47	46	e(P)	01	36.00	0.4
	1.2s	121.88nm			5.8mb			Z	18s	1.40um		5.4Msz		LBF	93.49	332	iPc	01	35.30	-0.2
MBL	55.90	205	eP	57	58.10	-0.9				i	01	05.10	45km		1.0s	14.00nm			5.3mb	
RMQ	57.57	172	iPd	58	08.90	-1.9	SPC	84.63	326	eP	00	54.20	0.6	LPL	93.53	330	iPc	01	36.40	0.4
DZM	57.90	153	iPc	58	13.10	-0.2	CMP	84.74	321	ePc	00	49.00	-5.0X		0.9s	14.75nm			5.4mb	
HYB	58.39	272	eP	58	15.80	-1.1	IZI	85.23	315	eP	00	57.00	0.4	LPG	93.54	330	iPc	01	36.60	0.5
WARB	58.62	196	eP	58	18.00	-0.2	KSP	85.32	329	iPc	00	57.30	0.6		1.0s	24.00nm			5.6mb	
BRS	59.03	168	iPd	58	17.00	-4.0X		1.1s	58.00nm			5.7mb		SSF	93.61	333	iPc	01	36.20	0.2
INK	59.73	25	eP	58	23.00	-2.4			e	04	15.50			1.2s	22.30nm			5.5mb		
GBA	61.07	269	Pd	58	34.90	-0.4	ALT	85.60	313	iP	01	00.10								

11d 08h

1.1s 34.20nm 5.7mb
 BNI 93.92 330 P 01 37.50 -0.2
 GRR 94.12 336 iPc 01 38.50 0.2
 1.2s 26.80nm 5.5mb
 BGF 94.28 333 eP 01 39.60 0.5
 1.0s 11.00nm 5.2mb
 LPF 94.49 336 iPc 01 40.50 0.5
 0.9s 19.65nm 5.5mb
 MAF 94.67 333 eP 01 40.80 -0.1
 1.2s 20.85nm 5.4mb
 TCF 94.75 333 eP 01 41.60 0.2
 LSF 95.05 333 eP 01 42.80 0.1
 1.2s 17.85nm 5.4mb
 MFF 95.38 335 iPc 01 44.50 0.3
 1.0s 8.00nm 5.1mb
 RJF 95.84 333 iPc 01 46.80 0.5
 1.2s 17.85nm 5.4mb
 Z 20s 0.45um 4.9msz
 CAF 95.94 332 iPc 01 47.60 0.8
 1.0s 9.00nm 5.2mb
 BUL 119.37 263 ePKP 07 06.80 -3.4X
 SLR 121.85 257 iPKPc 07 15.00 0.2
 ZOBO 149.20 68 PKP 08 06.00 0.5
 1.0s 42.50nm
 Z 24s 0.18um 4.8mszX
 LR 59 44.00
 LPB 149.37 69 PKP 08 08.00 2.4
 Z 20s 0.71um 5.5msz
 LR 08 28.00
 CNCB 149.61 69 PKP 08 03.00 -3.1X
 SIV 154.48 59 PKP 08 08.60 -3.8X
 S.D. = 1.1 on 189 of 210 obs.

? NOV 11, 1990 07h 49m 22.73±3.99s
 5.774 S ±49.8km 145.369 E ±15.5km
 DEPTH = 103.0 ± 31.5 km
 EAST PAPUA NEW GUINEA REGION (207)

YYYY 0.75 128 eP 49 41.00 -0.3
 eS 50 00.00
 MNDI 1.74 257 eP 49 53.00 0.2
 eS 50 26.00
 LAT 1.84 118 eP 49 54.00 0.1
 eS 50 27.00
 PMG 4.02 154 eP 50 23.50 0.2
 WB5 17.64 216 eP 53 23.20 -0.2
 S.D. = 0.5 on 5 of 5 obs.

* NOV 11, 1990 09h 05m 11.32±0.71s
 47.080 N ±12.5km 146.839 E ±14.5km
 DEPTH = 400.0km (geophysicist)
 4.5mb (9 obs.)
 NORTHWEST OF KURIL ISLANDS (220)

FBA 38.58 38 P 11 59.30 1.0
 GUN 50.69 270 P 13 34.40 0.2
 KKN 51.18 271 P 13 38.80 1.2
 0.6s 13.00nm 4.4mb
 PKI 51.23 270 P 13 38.50 0.4
 0.4s 5.00nm 4.2mb
 DMN 51.41 271 P 13 40.10 0.8
 0.5s 7.00nm 4.2mb
 GKN 51.48 271 P 13 40.10 0.4
 0.6s 18.00nm 4.6mb
 SOD 57.31 337 iP 14 20.00 -0.6
 SUF 60.85 333 iP 14 44.10 -0.4
 0.4s 15.40nm 4.9mb
 NUR 62.98 332 iP 14 58.00 -0.5
 0.8s 19.10nm 4.8mb
 GBA 66.15 264 P 15 18.00 -1.1
 NB2 66.42 338 P 15 20.30 -0.1
 0.7s 6.90nm 4.5mb
 HFS 66.54 337 eP 15 19.60 -1.4
 0.5s 7.10nm 4.7mb
 WB5 67.59 193 eP 15 27.80 -0.1
 WRA 67.66 193 P 15 27.00 -1.3
 0.6s 4.20nm 4.3mb
 PDGR 145.20 10 e(PKP)24 04.90 1.5
 S.D. = 1.0 on 15 of 15 obs.

% NOV 11, 1990 09h 11m 02.18±1.22s
 38.384 N ±12.0km 15.424 E ±21.1km
 DEPTH = 100.0km (geophysicist)
 SICILY (398)

ATN 0.23 172 P 11 16.50 0.0
 eSg 11 29.00

CZI 1.00 33 P 11 22.70 -0.1
 eS 11 37.60
 TDS 1.46 29 Pd 11 27.80 -0.5
 eSg 11 48.10
 ROI 1.48 37 P 11 28.80 0.1
 CSI 1.55 26 P 11 29.90 0.5
 eS 11 52.60
 MGR 1.75 3 P 11 32.00 0.0
 SGO 2.17 358 P 11 37.50 0.0
 S.D. = 0.4 on 7 of 7 obs.

% NOV 11, 1990 09h 51m 53.65±1.05s
 39.117 N ± 8.8km 27.541 E ±12.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

Izm 0.75 197 iPg 52 07.90 -0.5
 iSg 52 20.90
 EZN 1.18 307 iPn 52 16.50 0.9
 EDC 1.25 11 ePn 52 15.00 -1.9
 BNT 1.27 13 iPn 52 17.10 -0.2
 KCT 1.29 29 iPn 52 18.10 0.5
 IZI 1.92 50 ePn 52 28.00 1.2
 YLV 2.02 44 ePn 52 31.00 2.8X
 S.D. = 1.5 on 6 of 7 obs.

& NOV 11, 1990 09h 57m 33.20s
 59.703 N 150.515 W
 DEPTH = 38.7km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>. ML 4.0 (PMR).

BRK 0.20 288 iP 57 40.20 -0.2
 CNPM 0.41 244 iP 57 41.84 -0.9
 eS 57 49.06
 NNL 0.52 311 iP 57 44.49 0.3
 HOM 0.57 266 iP 57 44.68 -0.2
 XLV 0.66 248 iP 57 44.91 -1.2
 eS 57 54.22
 SEW 0.67 53 iP 57 45.31 -0.9
 eS 57 54.91
 SLKM 0.82 10 iP 57 48.02 -0.4
 NKA 1.10 341 iP 57 53.46 1.1
 RDT 1.29 314 iP 57 54.14 -0.9
 eS 58 11.78
 INE 1.33 287 iP 57 54.62 -1.2
 REF 1.35 307 eP 57 54.96 -1.1
 RSO 1.36 305 eP 57 55.48 -0.7
 RS2 1.36 305 eP 57 55.50 -0.7
 INW 1.37 287 eP 57 55.21 -1.1
 OPT 1.38 269 iP 57 55.54 -0.8
 eS 58 14.29
 LTI 1.38 75 iP 57 54.07 -2.3
 RDN 1.39 307 eP 57 55.27 -1.3
 SYI 1.46 222 eP 57 56.37 -1.1
 NCT 1.48 307 eP 57 56.57 -1.3
 eS 58 15.89

AUE 1.50 258 iP 57 57.19 -0.8
 AUP 1.52 258 eP 57 57.75 -0.6
 AGU 1.53 258 eP 57 57.76 -0.7
 AUH 1.53 258 eP 57 57.82 -0.7
 AUI 1.53 257 eP 57 57.60 -0.8
 KNIM 1.54 64 iP 57 56.51 -2.1
 PMS 1.62 17 iP 57 59.15 -0.6
 SPU 1.67 333 iP 57 59.70 -0.8
 CKL 1.75 330 iP 58 00.92 -0.8
 CRP 1.77 333 eP 58 01.75 -0.3
 CGLM 1.77 336 iP 58 01.42 -0.6
 SUA 1.77 356 eP 58 01.21 -0.8
 CDD 1.78 246 eP 58 00.79 -1.3
 BGL 1.82 330 eP 58 02.11 -0.6
 PDB 1.86 274 eP 58 02.09 -1.2
 NCG 1.89 335 eP 58 03.21 -0.5
 PWA 1.98 9 eP 58 04.46 -0.4
 KNK 1.99 30 iP 58 03.97 -1.2
 PLRM 2.01 19 iP 58 04.28 -1.1
 PMR 2.01 19 iPd 58 04.30 -1.1
 MCNL 2.02 257 eP 58 05.99 0.5
 GLI 2.07 54 eP 58 03.88 -2.4
 eS 58 27.75
 KDC 2.22 209 iPd 58 05.60 -2.6
 GHO 2.22 20 iP 58 07.38 -1.0
 SKT 2.34 348 eP 58 09.41 -0.6
 VLZ 2.52 54 eP 58 10.78 -1.8
 SCM 2.65 35 eP 58 13.48 -1.1
 CUT 2.71 2 eP 58 14.00 -1.4

KLU 2.89 50 eP 58 16.34 -1.6
 TOA 3.21 39 iPc 58 21.70 -0.7
 HUR 3.31 7 eP 58 24.00 0.1
 TZL 3.42 44 eP 58 24.64 -0.8
 SDG 3.72 38 eP 58 28.05 -1.6
 GLB 3.74 59 iP 58 27.29 -2.7
 TRF 3.76 2 eP 58 29.94 -0.5
 RND 3.80 11 eP 58 30.12 -0.8
 TGL 3.98 71 eP 58 30.32 -3.1
 PAX 4.08 34 eP 58 33.50 -1.4
 MCK 4.11 10 eP 58 35.02 -0.2
 TTA 4.18 323 eP 58 34.50 -1.8
 BALM 4.27 68 eP 58 33.98 -3.6
 YAH 4.45 78 eP 58 37.70 -2.5
 BWN 4.51 6 eP 58 39.79 -1.1
 DDM 4.66 26 eP 58 42.50 -0.5
 WRH 4.92 12 eP 58 44.76 -1.9
 NEA 4.94 7 eP 58 44.99 -1.9
 HDA 5.01 18 eP 58 46.56 -1.3
 DOT 5.01 35 eP 58 46.20 -1.7
 CCB 5.12 13 eP 58 47.37 -2.1
 FBA 5.37 13 iPc 58 50.90 -2.0
 MDM 5.38 10 eP 58 51.00 -2.1
 YKU 5.48 87 eP 58 52.16 -2.2
 BCPM 5.50 83 eP 58 52.29 -2.4
 GLM 5.50 14 eP 58 52.78 -2.0
 PNL 5.63 86 eP 58 53.46 -3.2
 HQN 5.92 87 eP 58 56.80 -3.9
 IMA 6.55 349 eP 59 07.50 -2.2
 HYT 6.57 75 P 59 07.50 -2.5
 77 obs. associated

NOV 11, 1990 10h 51m 40.28±0.73s
 46.292 N ± 6.2km 27.199 E ± 5.6km
 DEPTH = 33.0km (normal)
 3.4mb (1 obs.)
 ROMANIA (358)
 Felt (IV) in the epicentral
 area. Also felt at Vidro.

PPE 0.30 104 iPc 51 52.00 4.0X
 BAC 0.34 323 iPc 51 47.00 -1.6
 VRI 0.54 218 ePd 51 49.00 -2.4
 PTT 0.85 319 iPd 52 00.00 4.1X
 CVO 0.85 237 iPd 51 56.50 0.6
 IAS 0.94 15 iPc 52 03.00 5.9X
 MLR 1.19 228 iPd 52 01.00 0.2
 ISR 1.24 202 iPc 52 03.50 2.0
 CFR 1.29 149 iPd 52 04.00 1.9
 TLB 1.80 161 iPc 52 09.50 0.0
 CMP 1.83 237 iPd 52 14.00 4.1X
 MTUR 1.84 235 eP 52 13.00 2.9X
 BUC 2.03 203 iPd 52 16.00 3.2X
 BUC1 2.11 203 ePc 52 20.00 6.0X
 TNR 2.14 254 ePc 52 15.00 0.6
 COZ 2.22 245 eP 52 17.00 1.3
 PSN 2.70 165 iPc 52 24.00 1.7
 BMR 2.89 300 iPd 52 38.00 13.1X
 DEV 3.02 264 ePd 52 39.00 12.2X
 PVL 3.35 204 iP 52 33.00 1.5
 JMB 3.85 187 eP 52 48.00 9.4X
 BZS 3.95 262 ePc 52 41.00 0.9
 PGB 4.33 211 iP 52 45.00 -0.5
 DMK 4.49 175 ePn 52 48.00 0.3
 PLD 4.55 204 iP 52 48.00 -0.6
 VTS 4.67 219 ePc 52 51.00 0.5
 KDZ 4.82 196 iPd 52 52.00 -0.3
 RZN 4.94 202 iPd 52 54.00 -0.3
 CTT 5.22 170 iPn 52 56.00 -2.1
 PSZ 5.25 291 eP 53 04.00 5.5X
 KKB 5.32 215 eP 52 59.00 -0.5
 MMB 5.33 209 ePd 53 00.00 0.4
 ISK 5.40 165 ePn 53 01.00 0.5
 HRT 5.75 161 iPn 53 05.50 -0.2
 SRS 5.80 208 iPd 53 04.32 -1.9
 eS 53 53.20
 YLV 5.94 164 iPn 53 09.10 0.8
 BNT 5.96 175 ePn 53 07.00 -1.5
 SKO 5.98 226 ePn 53 09.50 0.6
 VAY 5.99 216 ePn 53 08.00 -0.9
 KNT 6.00 213 ePc 53 08.68 -0.4
 SOH 6.14 208 ePc 53 10.20 -0.9
 iS 53 59.40
 IZI 6.18 164 eP 53 12.00 0.3
 SRO 6.26 287 e(P) 53 14.70 2.0
 EZN 6.49 186 ePn 53 09.00 -7.0X
 KAS 6.84 134 ePn 53 21.50 0.7

PAIG	6.86	203	iSg	54	39.00		MSI	5.13	34	P	58	55.65	-0.2			e	05	36.00				
KVT	8.26	126	ePc	53	19.36	-1.8	CGL	5.77	339	P	59	04.01	-1.0			e	07	12.00				
IGT	8.42	219	ePc	53	43.56	0.6	GR1	6.02	36	P	59	08.50	0.0		TAF	11.89	278	eP	00	23.00	-6.8X	
KSP	8.54	306	eP	53	49.70	5.1X	CZ1	6.22	32	P	59	09.60	-1.6			i	01	10.00				
			e	54	26.00		TDS	6.67	31	P	59	17.29	-0.3		CEY	11.89	8	eP	00	30.00	0.2	
			e	55	48.30		ROI	6.70	32	P	59	19.20	1.1		MDI	11.90	352	P	00	31.02	1.2	
			e	56	42.00		CSI	6.75	30	P	59	18.50	-0.3		ENIJ	11.92	288	eP	00	26.30	-3.9X	
HFS	16.00	335	eP	55	23.30	-0.9	MGR	6.79	24	P	59	17.00	-2.2		VVI	11.99	2	P	00	30.50	-0.5	
	0.4s						ORI	7.06	29	P	59	23.00	0.0		MMB	12.01	47	eP	00	32.00	0.6	
	0.4s	1.30nm				3.4mb	SGO	7.09	21	P	59	23.79	0.4		ORX	12.02	347	P	00	31.14	-0.4	
	Z	17s	0.07um				RDP	7.78	4	P	59	33.00	-0.3		LSD	12.03	344	P	00	33.00	1.1	
			LR	00	58.00		RMP	7.84	4	P	59	34.00	0.0		CTI	12.05	359	P	00	31.50	-0.5	
	S.D.	= 1.2	on	37	of	50 obs.	SDI	7.85	10	P	59	34.95	0.8		VAI	12.11	349	P	00	34.22	1.6	
							DUI	7.92	14	P	59	35.00	-0.2		VOY	12.12	6	eP	00	34.00	1.1	
							AZI	8.08	8	P	59	37.00	-0.3		LPG	12.17	342	eP	00	35.40	1.7	
							VLS	8.15	57	eP	59	33.70	-4.7X			0.9s		36.85nm		5.7mb		
							MNS	8.41	4	P	59	42.50	0.5		LPL	12.19	342	eP	00	35.50	1.5	
							MAO	8.44	356	P	59	43.06	0.7			1.2s		86.30nm		5.9mb		
							KEK	8.50	45	eP	59	44.70	1.4		LJU	12.21	9	eP	00	34.00	0.1	
							ITM	8.74	66	eP	59	45.70	-0.8		ZAG	12.21	13	iP	00	43.30	9.3X	
							PGF	8.86	346	eP	59	47.40	-0.8		PTJ	12.29	13	eP	00	36.00	0.8	
							TPE	9.01	43	ePg	59	51.00	0.8		VTS	12.33	43	eP	00	38.00	2.3	
							ASS	9.09	3	P	59	49.50	-1.9		EVIA	12.54	296	eP	00	38.60	0.0	
							BERA	9.25	41	ePn	59	55.70	2.2		FVI	12.61	3	P	00	39.90	0.6	
							ESEL	9.26	311	eP	59	53.80	0.1		BEO	12.66	29	eP	00	54.00	14.0X	
							EVN	9.35	55	eP	59	54.00	-1.0		RZN	12.68	49	eP	00	36.00	-4.5X	
							VLI	9.39	70	eP	59	53.90	-1.6		EPF	12.80	318	eP	00	41.30	-0.6	
							ARV	9.53	4	P	00	00.08	2.6			0.9s		49.15nm		5.7mb		
							CRE	9.63	0	P	00	00.88	2.0		PGB	12.85	45	eP	00	44.40	1.8	
							TIR	9.66	38	ePn	00	05.50	6.2X		EZN	12.90	59	eP	00	49.00	5.8X	
							KBN	9.68	44	ePn	59	58.10	-1.4		RDO	12.93	53	eP	00	47.70	4.1X	
							PII	9.78	354	P	00	01.00	0.1		AFC	13.01	289	eP	00	43.60	-1.4	
							PGD	9.88	359	P	00	02.50	0.1		KDZ	13.11	50	iPd	00	44.00	-2.0	
							SFI	9.92	360	P	00	05.13	2.3		KBA	13.12	4	iPc	00	47.00	0.6	
							SDA	9.99	34	ePn	00	07.70	4.0X		BTH	13.16	317	P	00	47.00	0.3	
							OHR	10.00	42	ePn	00	04.50	0.5				iPPP	01	10.50			
							KZN	10.06	48	eP	00	04.90	0.0				eS	03	26.00			
							BDI	10.12	354	P	00	06.00	0.4		SOTA	13.23	358	iPc	00	48.90	1.1	
							MME	10.24	355	P	00	09.65	2.2			1.4s		294.00nm		6.2mb X		
							LMR	10.25	337	eP	00	05.50	-1.9				i	00	59.00			
								0.9s		60.60nm		6.0mb X		CAF	13.31	328	eP	00	46.30	-2.4		
							LRG	10.41	337	eP	00	07.80	-1.7			0.8s		13.45nm		5.1mb		
								0.8s		125.95nm		6.4mb X		WATA	13.34	359	eP	00	49.00	-0.2		
							Z	20s		9.75um		5.0msz			1.4s		313.00nm		6.2mb X			
							FRF	10.41	338	eP	00	07.80	-1.8				ic	00	50.30			
								0.6s		52.30nm		6.1mb X				i	01	00.00				
							SBF	10.47	342	eP	00	07.80	-2.6		DIM	13.39	49	eP	00	50.00	0.3	
							NEO	10.50	56	eP	00	07.20	-3.7X		LPO	13.53	325	eP	00	50.70	-0.8	
							FIN	10.61	345	P	00	11.05	-1.3			0.8s		13.45nm		5.0mb		
									S	01	29.32			MAL	13.63	286	iPc	00	57.00	4.2X		
							ROB	10.77	344	P	00	13.62	-0.9				eS	03	36.00			
									S	01	33.13			BZS	13.78	30	eP	00	54.00	-0.8		
							CDR	10.80	335	i(P)c	00	13.20	-1.7		RJF	13.85	328	eP	00	53.90	-1.9	
									e	00	13.50				1.0s		28.00nm		5.1mb			
									e	00	15.80			Z	20s		4.75um		5.2msz X			
									e	00	21.80			LFF	13.93	325	eP	00	55.50	-1.3		
									e	00	22.60				1.0s		30.00nm		5.1mb			
									e(S)	02	10.10			PVL	13.94	45	eP	00	54.00	-2.9		
									e	02	13.50			SMF	14.06	336	eP	00	57.70	-0.9		
							CKI	10.80	346	P	00	14.47	-0.4			1.2s		47.60nm		5.1mb		
							ENR	10.81	342	P	00	14.40	-0.7		TOL	14.07	299	eP	00	54.00	-4.7X	
							STV	10.85	342	P	00	14.55	-1.1		KMR	14.15	6	iP+	01	03.20	3.5X	
							PCP	10.86	347	P	00	15.16	-0.6		MAF	14.16	332	eP	00	59.10	-0.7	
							SKO	10.94	40	eP	00	12.10	-4.7X			1.2s		25.30nm		4.8mb		
								1.7s		138.00nm		6.0mb X		IFR	14.21	273	iP	00	59.00	-1.8		
							Z	15s		3.71um		3.8msz				i	01	08.00				
							N	15s		3.71um				ECRI	14.23	311	eP	01	03.80	3.0X		
							E	13s		2.77um				LBF	14.32	337	eP	01	02.10	0.2		
									i	02	12.60				1.2s		32.75nm		4.9mb			
									i	02	24.80			BGF	14.33	334	eP	01	02.10	0.0		
									LR	03	20.30				0.8s		24.20nm		4.9mb			
							BOB	10.94	351	P	00	18.86	2.0		TCF	14.35	332	eP	01	02.50	0.1	
							ETER	10.95	322	eP	00	14.60	-2.3			1.1s		30.50nm		4.9mb		
							PZZ	11.15	342	P	00	19.47	-0.3		AVF	14.35	336	eP	01	01.70	-0.7	
									S	01	01.44				1.1s		28.10nm		4.8mb			
							VAY	11.16	46	ePn	00	18.00	-1.7		BSF	14.36	346	eP	01	01.90	-0.7	
							PLG	11.17	52	eP	00	19.40	-0.6			1.2s		53.55nm		5.1mb		
							BHB	11.43	343	P	00	22.15	-1.3		GUD	14.42	302	eP	01	03.50	0.1	
							EROQ	11.43	310	eP	00	23.00	-0.4		SSF	14.54	336	eP	01	04.90	0.1	
									P	00	26.85	0.6			0.9s		36.05nm		5.0mb			
							RRL	11.62	342	P	00	27.00	0.5		LSF	14.59	330	eP	01	05.40	-0.1	
							SAL	11.66	355	P	00	27.00	0.5			1.0s		22.00nm		4.7mb		
							RSP	11.72	343	P	00	26.85	-0.7			1.0s		22.00nm		4.7mb		
							ECHE	11.76	302	eP	00	29.00	1.0		LOR	14.61	338	eP	01	05.50	-0.2	
									P	00	28.60	0.4			1.2s		28.25nm		4.7mb			
							BNI	11.77	341	P	00	29.00	0.8		Z	20s		4.25um		6.9msz		
							VBY															

Z	20s		3.75um			MBH	19.92	96 eP	02 10.00	-1.9	3.4mb (1 obs.)	
SRO	14.62	17 eP	01 06.60	0.8		KVT	20.35	63 eP	02 18.20	1.8	GREECE	(364)
VKA	14.64	12 eP	01 07.00	0.9		AKRL	20.87	114 eP	02 22.00	0.2	ML 3.1 (ATH).	
	1.8s	107.00nm		5.1mb		AMAN	20.89	113 iPc	02 21.50	-0.5		
Z	13s	3.90um		5.4Msz		AGAL	21.08	114 eP	02 24.50	0.5	EVR	0.62 348 ePg 31 01.90 -1.3
		e	02 15.00			AKSR	21.12	114 iPc	02 23.50	-0.8	AGG	0.76 22 ePd 31 04.96 -1.2
		LR	08 31.00			ECP	22.46	330 eP	02 42.20	4.6X		eS 31 15.24
ZST	14.71	14 eP	01 08.40	1.3		ECB	22.77	329 eP	02 42.30	1.7	VLS	1.09 263 ePg 31 10.80 -1.1
CDF	14.83	348 eP	01 07.60	-1.1		ETA	22.78	331 eP	02 44.20	3.5X	ITM	1.13 182 ePb 31 11.00 -1.5
	1.2s	178.50nm		5.5mb		EKA	23.79	338 Pc	02 51.10	0.5	NEO	1.40 44 ePb 31 17.10 0.1
KHL	14.85	68 eP	01 09.00	0.0			1.1s	19.90nm		4.6mb	ATH	1.42 103 ePn 31 21.10 3.8X
GIBL	14.87	286 iPc	00 59.50	-9.7X		UPP	26.15	7 iPc	03 12.70	-0.3	IGT	1.77 314 ePc 31 24.76 2.5
ELL	14.92	74 eP	01 05.00	-5.0X		HFS	26.19	2 eP	03 11.20	-2.1		eS 31 50.52
TNR	15.00	35 ePd	01 18.00	7.2X			0.7s	14.90nm		4.8mb	VLI	1.77 154 ePb 31 24.30 2.0
CMP	15.10	38 ePd	01 14.00	1.8		Z	15s	1.35um		4.6Mszx	LIT	1.83 13 ePd 31 23.56 0.3
BUC	15.11	42 ePd	01 17.50	5.3X				LR	11 40.00			eS 31 46.24
PSZ	15.15	21 e(P)	01 13.00	0.2		NB2	27.07	359 P	03 21.40	-0.1	KZN	2.00 356 ePb 31 26.50 0.8
KHC	15.18	4 iPc	01 14.10	0.9			0.9s	20.30nm		4.8mb	PAIG	2.09 39 ePc 31 26.04 -0.9
	1.2s	50.00nm		4.8mb		TIC	31.41	214 P	04 01.10	0.4	FNA	2.51 350 ePd 31 33.80 0.8
Z	13s	3.00um		4.7Msz			1.1s	14.00nm		4.8mb		iS 32 07.00
N	14s	3.50um				KIC	31.53	213 P	04 02.26	0.5	SOH	2.73 23 ePc 31 35.16 -0.9
E	14s	2.00um					0.8s	11.50nm		4.8mb		eS 32 09.40
IZI	15.34	61 eP	01 19.00	3.6X		LIC	31.78	213 P	04 04.38	0.4	KNT	2.94 14 ePd 31 40.00 1.0
YLV	15.34	60 eP	01 20.00	4.6X			1.0s	31.00nm		5.2mb	OHR	2.94 342 ePn 31 39.00 -0.1
ALT	15.45	66 eP	01 22.20	5.3X		Z	20s	5.00um		5.2Msz	VAY	3.04 9 ePn 31 41.80 1.3
MFF	15.59	328 eP	01 19.30	0.8		SOD	34.50	10 iP	04 30.50	3.4X	NB2	23.73 347 P 36 02.60 -1.8
	1.0s	56.00nm		4.8mb		KEY	36.79	9 eP	04 48.00	1.6		0.6s 0.70nm 3.4mb
GRF	15.70	358 iPc	01 19.90	-0.1		MAID	38.65	73 eP	04 57.00	-5.7X	S.D. = 1.4 on 16 of 17 obs.	
	1.4s	98.00nm		4.8mb		QUE	46.30	79 eP	06 04.00	-1.1	% NOV 11, 1990 12h 48m 53.00± 1.04s	
Z	20s	2.00um		4.9Mszx		KSH	50.67	64 eP	06 39.50	0.6	39.079 N ± 7.8km 27.639 E ± 12.8km	
MLR	15.72	39 ePc	01 23.00	2.6		BUL	56.12	161 iPc	07 15.30	-4.0X	DEPTH = 10.0km (geophysicist)	
PSN	15.91	48 eP	01 23.00	0.3			1.1s	22.78nm		5.1mb	TURKEY	(366)
PRU	16.11	6 eP	01 24.00	-1.1		SCH	56.79	317 eP	07 22.00	-1.7	MD 2.5 (ISK).	
Z	12s	6.30um				WMO	57.87	56 P	07 31.50	0.1		
N	14s	3.80um				HYB	61.29	88 eP	07 53.50	-1.9	IZM	0.74 204 iPg 49 07.50 -0.1
E	12s	3.80um				GKN	61.42	74 P	07 54.00	-2.3		iSg 49 19.50
		i	02 16.50			DMN	61.96	74 P	07 58.80	-1.3	EZN	1.26 307 ePn 49 16.60 0.2
AVE	16.14	273 eP	01 29.00	3.3X		KKN	62.02	74 P	07 58.60	-1.8	EDC	1.28 8 ePn 49 16.50 -0.2
		i	01 43.00			PKI	62.22	74 P	07 59.60	-2.3	KCT	1.29 25 ePn 49 17.50 0.5
		i	05 14.50			GBA	62.28	92 Pd	07 59.50	-2.5	BNT	1.29 10 iPn 49 16.50 -0.5
		i	06 46.50				0.6s	4.70nm		4.9mb	S.D. = 0.5 on 5 of 5 obs.	
VRI	16.38	39 ePd	01 31.00	2.3		EVA	62.32	163 iPd	08 03.50	1.3	? NOV 11, 1990 13h 17m 19.33± 2.02s	
SPC	16.39	20 eP	01 30.20	1.2		GUN	62.45	74 P	08 01.60	-1.8	30.861 S ± 21.8km 66.659 W ± 24.1km	
TNS	16.43	352 ePc	01 32.50	3.2X		SEK	63.73	165 iPc	08 11.30	-0.1	DEPTH = 120.0km (geophysicist)	
TIO	16.49	265 iP	01 32.60	2.3			1.0s	10.00nm		5.0mb	LA RIOJA PROVINCE, ARGENTINA	(138)
		i	04 35.00			KOD	64.08	95 eP	08 06.00	-8.3X		
		i	06 50.50			MBC	65.86	349 eP	08 25.00	0.5	CFA	1.54 241 eP 17 48.10 0.4
MOX	16.65	359 iPc	01 32.00	-0.1		PDCCR	67.05	236 eP	08 33.60	0.7		S 18 07.50
	1.4s	57.00nm		4.5mb		GTA	67.93	57 eP	08 37.70	-0.7	RTL	1.62 253 iPc 17 54.00 5.4X
Z	13s	1.90um		4.7Msz			1.0s	10.00nm		5.0mb		eS 18 18.00
E	16s	5.90um				LZH	72.31	58 eP	09 05.50	0.3	ZON	1.86 248 eP 17 51.70 0.1
		eS	04 35.00				1.0s	10.00nm		4.9mb		eS 18 11.70
BRG	16.94	4 iPc	01 36.20	0.5		Z	22s	0.50um		4.7Msz	RTC	1.89 238 ePd 17 46.20 -5.7X
	1.4s	36.00nm		4.3mb				sP	09 16.50			S 18 03.00
		e	02 07.00			YKA	74.75	337 eP	09 18.80	0.1	RTCB	1.94 251 eP 17 51.90 -0.7
		eS	05 21.00				0.7s	2.90nm		4.4mb		e 17 52.20
DOU	16.98	344 P	01 37.90	1.7		INK	74.81	347 eP	09 19.00	0.1		eS 18 13.00
		e	05 35.00			CD2	74.83	63 eP	09 20.30	0.5	RTRS	2.51 285 eP 18 00.00 0.2
LPF	17.08	329 eP	01 36.30	-1.1		BAO	75.40	240 ePd	09 26.00	2.7	CYA	2.52 18 e(P) 18 00.00 0.0
	0.9s	58.95nm		4.7mb		XAN	76.93	58 P	09 31.50	-0.2		S 18 35.50
KRA	17.11	18 eP	01 41.60	3.8X		TIY	77.36	53 eP	09 33.40	-0.6	S.D. = 0.6 on 5 of 7 obs.	
Z	14s	2.40um					Z	20s	1.10um	5.2Msz		
		i	01 44.90			BJI	78.48	49 eP	09 40.00	0.0	NOV 11, 1990 13h 18m 48.71± 0.65s	
		e	01 59.10				1.6s	45.00nm		5.3mb	43.823 N ± 6.3km 12.078 E ± 5.8km	
KSP	17.15	9 eP	01 39.00	0.7		IMA	79.65	354 ePc	09 47.90	1.9	DEPTH = 10.0km (geophysicist)	
	1.5s	59.00nm		4.5mb		FBA	80.17	351 eP	09 50.10	1.4	CENTRAL ITALY	(381)
		ic	01 40.10			CN2	81.73	42 P	09 57.50	0.2	SFI	0.19 301 P 18 52.70 -0.2
LDF	17.15	332 eP	01 39.50	1.2		UYO	83.31	307 e(P)	10 05.80	0.1		eSg 18 56.50
	1.2s	47.60nm		4.5mb		NJ2	84.92	55 eP	10 13.00	-0.8	CRE	0.22 205 P 18 53.70 0.3
MEM	17.17	347 P	01 40.00	1.4		SIV	85.35	247 P	10 18.00	1.9		eSg 18 57.90
GRR	17.28	330 eP	01 39.10	-0.9		MEQ	85.63	309 iPd	10 18.50	1.1	PGD	0.26 282 P 18 54.10 -0.2
	1.0s	30.00nm		4.4mb		LRM	86.01	325 eP	10 20.80	1.4		eSg 18 59.10
BNS	17.32	350 eP	01 41.50	1.0		ALO	90.43	314 eP	10 41.00	0.4	ARV	0.71 117 P 19 01.70 -1.0
	1.3s	109.00nm		4.8mb			1.0s	2.50nm		4.4mb		eSg 19 13.60
CLL	17.33	2 eP	01 41.00	0.4		ZOBO	90.99	251 P	10 45.00	1.3	ASS	0.86 150 Pd 19 05.50 0.1
	1.5s	53.00nm		4.4mb				LR	41 04.00			eSg 19 18.50
		i	01 47.60			LPB	91.12	251 eP	10 52.00	7.9X	BDI	1.10 283 P 19 09.30 0.0
ENN	17.34	347 eP	01 43.00	2.3				eLR	43 16.00		PII	1.13 265 P 19 10.40 0.5
	1.0s	45.00nm		4.6mb		CNCB	91.18	251 P	10 46.00	1.4		iSg 19 25.50
FLN	17.43	332 eP	01 39.10	-2.7		WRA	127.41	90 PKP	16 59.00	14.7X	TRI	2.24 32 eP 19 28.80 2.5
	1.1s	24.40nm		4.2mb			1.6s	1.60nm				e 19 51.50
Z	20s	4.25um				S.D. = 1.2 on 199 of 233 obs.					CTI	2.25 352 P 19 26.00 -0.6
SNF	17.44	344 Pc	01 41.50	-0.5		NOV 11, 1990 12h 30m 50.83± 0.73s					VOY	2.56 30 e(Pn) 19 35.70 4.7
BBTK	17.63	65 iPd	01 47.00	2.4		38.311 N ± 6.1km 21.970 E ± 8.9km						
WTS	18.38	350 iP	01 54.80	1.2		DEPTH = 5.0km (geophysicist)						
PRNI	19.84	94 eP	02 11.00	-0.2								

eSn 20 11.40
FVI 2.81 10 P 19 33.10 -1.4
S.D. = 1.2 on 10 of 11 obs.

% NOV 11, 1990 13h 55m 29.29±0.96s
39.087 N ± 7.7km 27.663 E ± 11.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

IZM 0.76 205 iPg 55 44.00 -0.1
iSg 55 55.00
EDC 1.27 7 ePn 55 52.00 -0.8
EZN 1.27 306 iPn 55 53.10 0.2
BNT 1.28 9 iPn 55 53.50 0.4
IZI 1.87 48 ePn 56 02.00 0.3
S.D. = 0.7 on 5 of 5 obs.

* NOV 11, 1990 15h 01m 17.36±0.84s
31.142 N ± 9.6km 142.710 E ± 19.2km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)

SOUTH OF HONSHU, JAPAN (211)

KAKJ 5.47 338 P 02 39.20 0.5
eS 03 38.80
CHJJ 5.79 329 P 02 42.70 -0.5
eS 03 47.80
IIDJ 5.90 318 P 02 45.70 0.8
MTMJ 6.79 324 P 02 56.70 -0.6
NIJJ 6.81 334 eP 02 56.80 -0.8
OFUJ 7.97 354 eP 03 12.50 -1.2
eS 04 39.00
BJI 23.27 300 eP 06 19.00 -3.7X
WB5 51.36 190 eP 10 20.00 -0.9
WRA 51.42 190 P 10 21.00 -0.4
0.5s 4.40nm 4.7mb
FBA 53.59 30 (P) 10 37.00 -0.1
HFS 79.90 337 eP 13 25.40 1.4
0.9s 2.30nm 4.2mb
NB2 80.04 338 P 13 26.60 1.8
0.8s 2.50nm 4.3mb
S.D. = 1.1 on 11 of 12 obs.

NOV 11, 1990 15h 06m 50.05±0.57s
42.296 N ± 5.5km 1.087 E ± 4.5km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)
ML 3.3 (LDG). mbLg 3.0 (MDD).

EPF 0.92 323 Pg 07 07.50 -0.1
Sg 07 21.40
BTH 1.26 311 iPnd 07 10.50 -3.0
iPg 07 16.60
iSg 07 35.80
iSg 07 42.30
ETER 1.31 89 iPnd 07 15.00 0.7
eSn 07 32.90
EBR 1.54 197 ePg 07 20.00 2.5X
eSg 07 39.00
EROO 1.56 199 ePn 07 18.90 1.1
eSn 07 39.10
LPO 2.39 2 Pn 07 30.60 0.8
Sn 08 01.60
LFF 2.65 355 Pn 07 34.40 0.8
Sn 08 07.60
ECRI 2.68 278 iPnc 07 35.60 1.5
eSn 08 08.40
CAF 2.72 15 Pn 07 34.40 -0.3
Sn 08 09.10
RJF 3.02 6 Pn 07 39.50 0.7
Sn 08 16.40
LSF 3.97 4 Pn 07 52.60 0.4
Sn 08 38.40
LRG 4.05 72 Pn 07 53.50 0.2
Sn 08 40.00
MAF 4.07 15 Pn 07 53.40 -0.2
Sn 08 40.80
TCF 4.07 11 Pn 07 53.80 0.1
Sn 08 41.00
LMR 4.12 74 Pn 07 54.40 0.0
Sn 08 42.20
GUD 4.27 249 ePn 07 55.90 -0.8
eSn 08 44.70
FRF 4.27 71 Pn 07 56.40 -0.2
Sn 08 44.80
MFF 4.40 349 Pn 07 59.00 0.7

BGF 4.44 16 Pn 08 48.60
Sn 07 59.20 0.2
Sn 08 51.20
Sg 09 14.00
SMF 4.77 23 Pn 08 03.60 -0.1
AVF 4.78 19 Pn 08 03.60 -0.1
SBF 4.91 69 Pn 08 05.00 -0.7
SSF 5.07 19 Pn 08 08.00 0.2
LPL 5.20 50 Pn 08 11.20 1.3
LOR 5.35 21 Pn 08 11.40 -0.4
PGF 5.86 85 Pn 08 16.60 -2.6
S.D. = 1.1 on 25 of 26 obs.

NOV 11, 1990 15h 10m 10.14±1.45s
0.317 N ± 5.2km 122.228 E ± 8.0km
DEPTH = 130.9 ± 15.3 km
5.1mb (17 obs.)

MINAHASSA PENINSULA (265)

KKM 8.27 314 ePd 12 08.00 -0.7
0.4s 30.10nm 5.3mb
e 13 22.50
MTN 15.78 146 eP 13 47.20 0.8
KNA 17.22 158 eP 14 04.50 0.3
MBL 21.47 186 eP 14 49.30 -0.2
IPM 21.60 282 ePc 14 52.20 1.5
WB5 23.33 150 eP 15 07.80 0.2
NANU 23.66 196 eP 15 10.00 -0.7
0.3s 24.00nm 5.1mb
ASPA 26.40 155 iPc 15 36.00 -0.3
0.8s 24.00nm 4.8mb
eSKS 26 13.90
NST 26.62 306 eP 15 39.00 0.7
PMG 26.63 112 eP 15 38.00 -0.5
WARB 26.69 171 eP 15 39.00 0.1
0.4s 22.00nm 5.1mb
QIS 26.82 142 iPd 15 40.00 -0.2
0.5s 24.00nm 5.0mb
BDT 28.38 308 eP 15 54.50 0.2
CHG 29.33 310 ePd 16 03.10 0.3
0.9s 44.54nm 5.2mb
GYA 30.00 331 P 16 09.20 0.5
COOL 31.05 182 eP 16 16.20 -1.5
BAL 31.20 189 eP 16 18.20 -0.8
FORR 31.49 170 iPd 16 20.80 -0.8
0.4s 32.00nm 5.4mb
KLB 32.02 187 iPc 16 25.40 -0.8
0.3s 12.00nm 5.2mb
MUN 32.62 190 eP 16 30.50 -0.9
NWA0 33.40 188 eP 16 38.00 -0.2
CD2 35.11 332 iPc 16 52.80 -0.1
0.9s 30.00nm 5.1mb
XAN 35.79 341 P 16 58.00 -0.5
TIY 38.29 347 Pd 17 19.00 -0.5
ADE 38.33 158 iPc 17 21.00 1.1
0.6s 46.67nm 5.5mb
LZH 39.48 336 eP 17 30.00 0.5
1.5s 43.00nm 5.0mb
BJI 39.92 353 eP 17 31.50 -1.3
1.0s 12.00nm 4.6mb
LSA 41.59 317 Pd 17 48.70 1.4
BWA 42.38 147 eP 17 55.50 2.3
CAN 43.37 148 eP 18 02.60 1.4
GTA 43.97 335 Pd 18 07.00 0.9
1.0s 20.00nm 4.8mb
GUN 44.33 311 P 18 09.80 0.4
PKI 44.51 311 P 18 11.00 0.2
0.6s 28.00nm 5.1mb
MDJ 44.59 7 eP 18 09.00 -1.8
KKN 44.72 311 P 18 12.40 0.0
0.8s 48.00nm 5.3mb
DMN 44.76 310 P 18 13.10 0.4
1.0s 91.00nm 5.4mb
GKN 45.32 311 P 18 17.20 0.2
HYB 46.20 294 eP 18 24.00 0.0
e 18 54.50
GBA 46.27 289 Pc 18 24.20 -0.3
0.7s 4.00nm 4.2mb
QUE 60.27 305 eP 20 06.00 -1.5
S.D. = 0.9 on 40 of 40 obs.

? NOV 11, 1990 16h 07m 07.16±1.00s

39.415 N ± 8.5km 16.278 E ± 13.7km

DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

CZI 0.23 210 P 07 12.00 0.0

TDS 0.25 11 P 07 15.50
eSg 07 12.20 -0.2
eSg 07 17.80
ROI 0.27 55 P 07 13.00 0.0
CSI 0.36 1 P 07 14.80 0.2
S.D. = 0.3 on 4 of 4 obs.

? NOV 11, 1990 16h 19m 00.89±6.14s
46.104 N ± 46.8km 2.637 E ± 13.9km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 1.5 (LDG).

MAF 0.13 337 Pg 19 04.20 0.2
Sg 19 05.90
TCF 0.35 302 Pg 19 08.00 -0.1
Sg 19 11.60
BGF 0.48 18 Pg 19 10.50 -0.1
Sg 19 16.00
AVF 0.85 36 Pg 19 17.20 0.0
Sg 19 28.00
SMF 0.99 57 Pg 19 17.20 -2.6X
Sg 19 32.80
S.D. = 0.2 on 4 of 5 obs.

NOV 11, 1990 16h 28m 05.32±0.45s
38.992 N ± 4.1km 22.670 E ± 4.5km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)

GREECE (364)

ML 3.5 (THE), 3.1 (ATH).

AGG 0.27 277 ePc 28 09.24 -1.7
eS 28 23.36
NEO 0.53 54 ePn 28 17.00 0.9
EVR 0.68 264 ePn 28 19.30 0.5
LIT 1.12 353 ePc 28 26.60 0.3
eS 28 43.44
PAIG 1.22 40 ePc 28 28.16 0.2
eS 28 45.72
ATH 1.31 141 ePb 28 30.80 1.3
KZN 1.49 332 ePn 28 32.30 0.2
PLG 1.50 23 ePn 28 32.10 -0.3
THE 1.65 8 ePc 28 35.96 1.5
OUR 1.68 37 ePc 28 35.24 0.4
eS 28 56.68
VLS 1.82 244 ePn 28 37.00 0.0
IGT 1.89 287 iPc 28 39.92 1.9
ITM 1.90 198 ePn 28 38.70 0.6
SOH 1.90 16 ePd 28 38.36 0.2
GRG 1.97 354 ePc 28 38.56 -0.6
FNA 2.05 331 ePc 28 40.24 0.0
eS 29 09.92
KNT 2.17 5 ePd 28 42.16 0.1
eS 29 09.72
SRS 2.24 18 ePc 28 42.72 -0.3
eS 29 11.52
VLI 2.28 175 ePn 28 41.70 -1.9
VAY 2.33 358 ePn 28 44.00 -0.2
KEK 2.34 289 ePb 28 49.50 5.1X
OHR 2.56 326 ePn 28 47.50 0.0
MMB 2.72 17 ePc 28 49.00 -0.8
RZN 3.11 29 iP 28 55.00 -0.5
SKO 3.12 343 ePn 28 50.00 -5.5X
i 29 02.70
KDZ 3.38 37 iP 28 57.00 -2.3
VTS 3.62 6 eP 29 03.00 0.3
EKA 23.78 322 P 33 22.00 3.4X
0.7s 1.50nm 3.7mb
S.D. = 1.0 on 25 of 28 obs.

? NOV 11, 1990 16h 42m 41.97±24.26s
40.705 N ± 13.4km 27.342 E ± 184.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

EDC 0.53 132 ePg 42 52.70 -0.1
BNT 0.56 128 iPg 42 53.40 0.0
KCT 0.90 120 iPg 42 59.30 0.1
CTT 0.94 61 iPg 42 59.80 0.0
iSg 43 12.80
S.D. = 0.1 on 4 of 4 obs.

* NOV 11, 1990 16h 56m 13.81s
62.091 N 153.226 W
DEPTH = 0.0km

11d 16h

CENTRAL ALASKA <AGS-P>.						(1)	& NOV 11, 1990 17h 15m 17.29s 60.121 N 153.445 W DEPTH = 143.8km SOUTHERN ALASKA <AGS-P>.						(2)	BCH 2.06 143 eP 21 22.70 -2.2 14 obs. associated					
SKT	0.81	97	iP	56 29.38	-0.5		INW	0.17	109	eP	15 36.11	0.6	SCM	0.67	160	iP	54 39.54	0.4	
			eS	56 42.68			INE	0.20	107	iP	15 36.36	0.7				iS	54 50.13		
NCG	0.86	143	eP	56 30.10	-0.8					eS	15 52.63		TOA	0.85	114	iPc	54 42.60	-0.2	
			eS	56 43.23			RS2	0.48	45	eP	15 37.48	-0.9	GHO	0.86	218	eP	54 42.44	-0.8	
BGL	0.92	154	eP	56 30.87	-1.3		RSO	0.49	45	iP	15 37.55	-0.8				eS	54 55.66		
			eS	56 45.89						iS	15 51.56		HUR	0.99	303	iP	54 44.61	-0.8	
CRP	0.97	148	eP	56 32.41	-0.9		OPT	0.48	167	eP	15 37.29	-0.8				eS	54 58.26		
			eS	56 47.15			PDB	0.50	229	iP	15 37.12	-1.1	SDG	1.06	85	eP	54 45.35	-1.3	
CGLM	0.98	143	eP	56 32.30	-1.0		NCT	0.51	30	eP	15 37.66	-0.7				eS	55 00.16		
			eS	56 46.41			RDN	0.52	40	iP	15 37.72	-0.7	PLRM	1.06	216	eP	54 45.27	-1.4	
CKL	0.99	154	iP	56 32.61	-1.0		REF	0.52	45	iP	15 37.74	-0.8				eS	55 00.42		
			eS	56 47.18			RDT	0.69	48	iP	15 38.42	-1.0	PMR	1.06	216	iPd	54 45.30	-1.4	
SPU	1.07	148	eP	56 34.16	-0.8		HOM	1.02	116	eP	15 40.69	-1.2	RND	1.07	334	eP	54 45.83	-1.0	
			iS	56 50.02			NNL	1.08	93	eP	15 42.11	-0.4				eS	55 00.23		
SUA	1.34	117	eP	56 38.90	-0.6		XLV	1.10	127	eP	15 41.10	-1.5	KNK	1.09	196	iP	54 45.85	-1.3	
			eS	56 58.28			CDD	1.20	185	iP	15 41.92	-1.7				eS	55 02.77		
CUT	1.42	76	eP	56 39.82	-1.0		CKL	1.21	26	iP	15 42.96	-0.9	CUT	1.14	269	iP	54 46.81	-1.2	
			iS	57 00.65			BGL	1.26	24	iP	15 43.64	-0.7	TZL	1.19	109	iP	54 47.56	-1.4	
NCT	1.54	175	eP	56 41.62	-1.1		NKA	1.26	59	iP	15 44.22	0.1	PAX	1.20	63	eP	54 47.53	-1.6	
			eS	57 03.38			CNPM	1.27	117	iP	15 42.72	-1.6				eS	55 03.26		
TTA	1.54	304	eP	56 38.43	-4.3		SPU	1.27	32	eP	15 42.92	-1.4	PWA	1.26	231	eP	54 48.89	-1.2	
			eS	56 58.64			CRP	1.31	28	eP	15 43.64	-1.3				eS	55 07.60		
RDT	1.57	165	iP	56 42.64	-0.5		BRLK	1.34	104	eP	15 43.61	-1.4	KLU	1.32	136	iP	54 48.63	-2.5	
			iS	57 04.43						eS	16 04.58					eS	55 07.31		
RDN	1.60	172	eP	56 42.12	-1.4		CGLM	1.38	30	iP	15 44.38	-1.2	MCK	1.38	339	eP	54 50.64	-1.5	
			eS	57 04.61			NCG	1.43	26	eP	15 44.67	-1.5				eS	55 08.70		
REF	1.63	171	eP	56 43.33	-0.7		SYI	1.61	160	eP	15 46.21	-1.7	PMS	1.47	215	eP	54 51.89	-1.6	
			eS	57 06.06			SLKM	1.65	75	eP	15 46.39	-2.0				eS	55 11.45		
PWA	1.65	104	eP	56 43.45	-0.6		SEW	2.00	89	eP	15 50.04	-2.4	VLZ	1.50	151	eP	54 50.72	-3.2	
			eS	57 06.52			SKT	2.09	26	eP	15 52.10	-1.4				eS	55 11.64		
RS2	1.65	172	eP	56 43.88	-0.5		CUT	2.76	32	eP	16 00.07	-1.7	TRF	1.51	313	eP	54 51.85	-2.3	
RSO	1.65	172	eP	56 43.09	-1.3		KNK	2.77	60	eP	16 00.48	-1.6	VZW	1.52	156	eP	54 51.33	-3.0	
HUR	1.89	60	eP	56 46.79	-0.8		LTI	2.80	89	eP	16 00.14	-2.3	DDM	1.61	33	eP	54 54.94	-0.5	
TRF	1.92	43	eP	56 47.28	-1.0		KNIM	2.86	83	eP	16 00.20	-2.9				eS	55 16.86		
PMS	1.94	114	eP	56 48.60	0.1		MTU	2.91	90	eP	16 01.75	-2.0	GLI	1.62	167	eP	54 53.30	-2.3	
PLRM	2.01	103	eP	56 48.03	-1.3	32 obs. associated									eS	55 14.67			
INW	2.03	179	eP	56 48.98	-0.8	* NOV 11, 1990 19h 11m 36.63± 1.28s 28.375 N ±17.8km 55.670 E ± 8.4km DEPTH = 72.8 ± 19.1 km 3.9mb (1 obs.)									eS	55 14.67			
INE	2.04	178	eP	56 48.97	-1.0	SOUTHERN IRAN (353)									eS	55 19.50			
GHO	2.06	97	eP	56 49.91	-0.3	SHI	3.03	295	eP	12 23.00	-0.4	SUA	1.70	236	eP	54 55.66	-1.2		
SLKM	2.15	136	eP	56 51.76	0.3	BJA	5.09	243	ePn	12 52.30	0.2				eS	55 19.50			
KNK	2.37	105	eP	56 54.47	-0.1	BBU	5.11	246	ePn	12 52.40	0.0	SKT	1.80	256	eP	54 56.58	-1.7		
RND	2.41	55	eP	56 54.84	-0.4				eSn	13 48.50		HDA	2.00	11	iP	54 59.40	-1.7		
KER	82.50	343	eP	08 47.00	7.6	MAIO	8.54	21	eP	13 46.00	6.1X				eS	55 25.28			
28 obs. associated						QUE	10.01	77	eP	14 00.60	0.4	WRH	2.03	357	eP	54 59.30	-2.2		
* NOV 11, 1990 17h 13m 34.01± 1.53s 73.894 N ±12.2km 10.105 E ±17.1km DEPTH = 10.0km (geophysicist) 5.2mb (4 obs.)						GKN	25.51	84	P	17 02.00	1.9	DOT	2.09	53	eP	55 00.24	-2.2		
NORWEGIAN SEA (642)						DMN	25.98	85	P	17 04.80	0.2	KNIM	2.11	179	eP	54 59.62	-3.1		
TRO	5.10	143	eP	14 53.32	1.2	KKN	26.10	84	P	17 03.40	-2.3				eS	55 27.13			
			eSg	15 53.56		PKI	26.25	85	P	17 06.60	-0.5	GLB	2.15	116	eP	55 00.82	-2.5		
LOF	5.90	167	eP	15 03.67	0.2	KHC	38.19	315	eP	18 51.00	0.3				eS	55 28.34			
			eSg	16 13.38		HFS	42.51	330	eP	19 26.20	0.1	CVA	2.16	152	eP	54 59.28	-4.1		
KTK1	6.43	133	eP	15 11.82	0.8				0.4s 0.80nm 3.9mb		HIN	2.16	162	eP	55 00.74	-2.7			
			eSg	16 29.70		S.D. = 1.3 on 10 of 11 obs.						CCB	2.20	0	eP	55 01.50	-2.5		
KEV	6.70	120	iP	15 12.20	-2.6	& NOV 11, 1990 20h 20m 49.00s 36.850 N 121.580 W DEPTH = 4.0km CENTRAL CALIFORNIA <BRK>. ML 2.6 (BRK).						NEA	2.20	346	eP	55 01.95	-2.1		
			iS	16 28.20		(39)						SLKM	2.27	212	eP	55 03.62	-1.4		
SOD	8.51	132	iP	15 39.80	-0.2	SAO	0.14	128	iP	20 51.60	-0.2				eS	55 33.84			
MOL	11.42	186	eP	16 17.52	-2.4	GCC	0.38	298	iPc	20 56.20	-0.4	CGLM	2.29	242	eP	55 03.78	-1.7		
SUF	12.62	144	iP	16 35.80	-0.3	MHC	0.49	354	iPd	20 59.10	0.2	NCG	2.31	245	eP	55 03.96	-1.7		
	0.7s 18.00nm			5.4mb		ARN	0.50	4	iPc	20 59.10	0.1	SGAM	2.33	146	eP	55 03.07	-2.8		
NB2	12.92	178	P	16 38.60	-1.6	PRS	0.54	162	eP	20 59.20	-0.7	CRP	2.38	242	eP	55 06.30	-0.4		
	1.2s 5.40nm			4.6mb		LLA	0.56	114	eP	21 00.10	-0.1	SPU	2.38	239	eP	55 05.25	-1.4		
NRA0	13.23	177	Pn	16 44.80	0.6	PCC	0.91	316	eP	21 00.20	-0.8	LTI	2.42	180	eP	55 03.69	-3.5		
NUR	14.50	150	eP	17 02.00	1.2	PRI	1.02	134	eP	21 08.50	-0.5	FBA	2.46	0	eP	55 05.00	-2.7		
			e	17 07.00		BKS	1.15	333	eP	21 09.20	-1.9	BGL	2.48	243	eP	55 07.02	-1.0		
CLL	22.70	175	eP	18 44.00	7.5X				iS	21 27.20		MTU	2.48	178	iP	55 07.85	-0.1		
BRG	23.16	174	eP	18 49.40	8.4X	BRK	1.16	332	eP	21 09.80	-1.3	SEW	2.49	199	eP	55 06.09	-2.0		
KRA	24.30	164	eP	18 52.60	0.6	PHAM	1.39	136	eP	21 13.80	-1.4	CKL	2.49	242	eP	55 07.09	-1.2		
			e	19 03.10		FRI	1.51	84	eP	21 15.50	-1.3	MDM	2.52	356	eP	55 06.02	-2.6		
SPC	25.18	164	eP	19 03.50	2.7				eS	21 25.30		GLM	2.55	4	eP	55 06.46	-2.6		
ZST	25.97	169	eP	19 11.50	3.6X	CMB	1.52	38	eP	21 15.50	-1.5	RAGM	2.57	143	eP	55 07.87	-1.4		
GKN	59.05	96	P	23 36.00	-0.3							HMT	2.73	140	eP	55 08.78	-2.8		
	0.9s 16.00nm			5.1mb							RDT	2.90	231	eP	55 11.53	-2.5			
KKN	59.43	96	P	23 38.80	-0.2						TGL	2.93	123	eP					

58 obs. associated
 NOV 11, 1990 20h 56m 42.50± 1.16s
 28.054 N ± 10.2km 55.544 E ± 6.6km
 DEPTH = 84.6 ± 11.9 km
 4.2mb (12 obs.)

SOUTHERN IRAN (353)

SHI	3.09	302	eP	57	28.00	-2.1
BJA	4.86	246	iPn	57	54.70	0.1
			eSn	58	51.00	
BBU	4.89	249	ePn	57	55.10	0.1
			(Sn)	58	51.90	
MAIO	8.88	21	eP	58	50.00	-0.1
KER	9.57	313	eP	59	02.00	2.4
QUE	10.20	75	eP	59	01.00	-7.2X
DSI	17.84	286	eP	00	45.00	-1.6
MML	17.93	289	eP	00	47.00	-0.7
MBH	18.17	280	eP	00	53.00	2.4
BBTK	22.19	308	eP	01	34.00	1.2
GBA	24.94	121	Pc	02	01.10	1.7
	0.6s		1.70nm		3.7mb	
GKN	25.66	83	P	02	06.60	0.4
	0.4s		6.00nm		4.4mb	
DMN	26.12	84	P	02	11.00	0.4
KKN	26.25	84	P	02	11.50	-0.2
PKI	26.39	84	P	02	12.40	-0.8
GUN	26.76	83	P	02	16.20	-0.4
OHR	31.22	304	eP	02	56.00	0.1
LCI	33.18	302	P	03	01.50	-11.4X
SGO	35.21	301	P	03	32.50	2.2
DUI	36.01	303	P	03	41.50	4.3X
SFI	38.26	306	P	03	58.00	2.0
KHC	38.33	315	P	03	57.00	0.4
SQTA	39.36	311	eP	04	04.00	-1.2
			i	04	07.30	
GRF	39.97	315	e(P)	04	11.00	0.9
BNI	42.09	307	P	04	26.00	-1.7
LPG	42.09	308	eP	04	28.10	0.2
	0.8s		4.05nm		4.3mb	
LPL	42.11	308	eP	04	27.90	-0.1
	0.8s		3.35nm		4.2mb	
BCAO	42.30	243	iPd	04	32.00	2.4
	0.5s		3.00nm		4.4mb	
HFS	42.73	331	eP	04	32.50	0.0
	0.4s		2.00nm		4.3mb	
Z	17s		0.09um		3.7mszx	
			LR	11	54.00	
LBF	44.18	310	eP	04	44.40	-0.2
	0.6s		1.80nm		4.1mb	
NB2	44.24	331	P	04	44.00	-0.8
	0.8s		2.30nm		4.1mb	
LOR	44.30	310	eP	04	44.20	-1.3
	0.6s		1.80nm		4.1mb	
SSF	44.51	310	eP	04	46.10	-1.1
	0.7s		2.20nm		4.1mb	
TCF	45.33	309	eP	04	53.00	-0.7
	0.7s		2.20nm		4.1mb	
BUL	54.53	211	eP	06	01.30	-2.9
LKO	60.14	265	P	06	43.04	-0.7
WRA	89.83	113	P	09	36.00	2.7X
	0.6s		1.90nm		4.5mb	

S.D. = 1.4 on 33 of 37 obs.

% NOV 11, 1990 22h 06m 03.20± 0.69s
 40.575 N ± 10.4km 31.480 E ± 5.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.4 (ISK).

GPA	0.94	253	iPn	06	22.10	1.0
BBTK	1.22	126	ePn	06	26.50	0.4
			iSg	06	43.00	
HRT	1.40	281	iPn	06	28.10	-0.7
IZI	1.55	262	ePn	06	32.00	1.1
YLV	1.61	270	iPn	06	31.60	-0.1
ALT	1.85	215	ePn	06	34.00	-1.3
ISK	1.90	286	ePn	06	36.00	0.0
KAS	1.91	65	ePn	06	36.00	-0.1
			iSg	07	00.00	
CTT	2.38	285	iPn	06	42.60	-0.3

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

NOV 11, 1990 22h 16m 24.94± 0.30s
 46.136 N ± 2.3km 14.054 E ± 2.0km
 DEPTH = 22.3 ± 3.4 km

YUGOSLAVIA (383)

ML 4.7 (GRF), 4.4 (ZAG), 4.4 (VIE), 4.4 (FUR), 4.3 (LDG).
 Felt (VI) throughout Slovenia.
 Also felt (V) in the Carinthio
 oreo, Austria and (IV) in the
 Trieste oreo, Italy.

VOY	0.15	227	iPgc	16	29.00	-0.9
LJU	0.35	105	iPgc	16	32.00	-0.5
			eSg	16	37.00	
RBL	0.45	312	P	16	30.60	-3.7X
TRI	0.47	205	P	16	34.02	-0.5
CEY	0.47	147	iPgd	16	33.90	-0.7
RIY	0.83	164	iPgd	16	39.70	-0.8
			i	16	48.80	
FVI	0.99	298	Pc	16	42.50	-0.8
			eSg	16	58.00	
VBY	1.05	126	iPgd	16	44.70	0.4
KBA	1.06	333	iPgd	16	44.40	-0.2
			iSg	16	58.80	
VVI	1.15	263	P	16	47.06	1.4
PTJ	1.35	99	iPgc	16	49.00	0.4
			iSg	17	07.80	
ZAG	1.38	103	iPgc	16	49.90	0.9
			i	16	51.20	
			iSg	17	08.70	
CTI	1.67	268	Pc	16	54.70	1.4
			eSn	17	17.20	
SCE	1.85	300	iPnd	16	57.70	1.7
KMR	1.92	2	iPnd	16	59.00	2.2
			iSn	17	24.40	
			iSg	17	29.00	
WATA	2.08	306	ePn	17	01.40	2.1
			i	17	03.30	
			iSg	17	31.80	
OGA	2.22	290	iPnc	17	03.50	2.3
SQTA	2.24	300	iPnc	17	03.80	2.3
			i	17	05.80	
			iSg	17	34.60	
			i	17	36.80	
RSM	2.48	208	P	17	05.65	0.9
SAL	2.52	259	P	17	06.13	0.8
VKA	2.63	35	iPnc	17	07.20	0.3
			i	17	11.40	
			i	17	18.60	
			iSn	17	39.80	
			iSg	17	52.60	
SFI	2.71	216	P	17	08.93	0.9
ARV	2.75	197	P	17	09.47	0.8
FUR	2.78	318	iPnc	17	10.40	1.4
PGD	2.80	217	P	17	10.56	1.1
CRE	2.92	212	P	17	12.30	1.2
ZST	2.93	44	iPn	17	11.20	0.1
			i(Pg)	17	18.60	
			i	17	23.60	
			i(Sn)	17	43.00	
			e	17	57.10	
			e	38	31.40	
KHC	3.01	354	iPn	17	13.00	0.6
			iPg	17	20.50	
			eSn	17	49.00	
			Sg	18	04.70	
MDI	3.05	265	P	17	13.46	0.6
MME	3.07	232	P	17	14.47	1.2
BDI	3.21	231	P	17	15.84	0.7
ASS	3.22	198	P	17	17.18	1.8
SRO	3.36	59	iPn	17	16.60	-0.7
			i	17	27.10	
			i(Sn)	17	54.50	
			i	18	07.60	
			i	18	10.70	
			Lg	18	27.00	
HVAR	3.42	149	iPnd	17	19.00	1.0
			iSn	18	00.50	
SAX	3.43	291	ePc	17	20.00	1.5
PII	3.48	227	P	17	19.10	0.2
BOB	3.52	249	P	17	20.55	0.9
LLS	3.57	284	ePc	17	22.00	1.5
TMA	3.60	271	ePc	17	22.00	1.1
BUD	3.67	67	eP	17	20.80	-0.9
VAI	3.69	268	P	17	22.73	0.8
AQU	3.81	187	P	17	24.34	0.6
PRU	3.87	5	Pn	17	23.80	-0.6
			Pg	17	36.50	
			Sg	18	25.50	
MNS	3.88	195	P	17	24.94	0.3
GRF	4.04	333	ePn	17	26.10	-0.7

			ePg	17	40.00	
			e(Sn)	18	13.50	
			eSg	18	34.70	
ZLA	4.12	291	eP	17	28.50	0.4
SLE	4.14	295	eP	17	28.30	-0.1
AZI	4.17	186	P	17	29.50	0.7
PCP	4.20	250	P	17	30.00	0.8
			S	18	08.37	
STU	4.22	310	ePn	17	29.00	-0.5
	0.5s		7.04nm			
			ePg	17	44.00	
MAO	4.26	210	P	17	30.05	0.0
ORX	4.27	265	P	17	28.66	-1.6
			S	18	07.34	
PSZ	4.37	64	iP	17	31.60	-0.1
CKI	4.42	249	P	17	33.41	1.1
HOF	4.43	342	iPnc	17	31.30	-1.1
RMP	4.43	193	P	17	32.50	0.0
SDI	4.43	182	P	17	32.45	-0.1
RDP	4.48	193	P	17	34.36	1.1
DUI	4.48	176	P	17	35.31	2.0
BRY	4.56	134	ePn	17	36.00	1.6
			eSn	18	29.00	
FIN	4.56	247	P	17	33.28	-1.1
			S	18	14.73	
PLE	4.73	124	ePn	17	37.50	0.7
			eSn	18	32.00	
ROB	4.74	249	P	17	36.15	-0.8
			S	18	17.80	
BRG	4.74	359	iPn	17	35.00	-1.9
			iPg	17	52.00	
			iSn	18	28.00	
			i	18	40.00	
			iSg	18	55.00	
MOX	4.80	341	iPn	17	36.50	-1.1
			iSn	18	29.00	
			iSg	18	59.00	
NKY	4.85	131	ePn	17	40.00	1.5
RSP	4.87	261	P	17	35.94	-2.8
			S	18	17.39	
LSD	4.87	264	P	17	37.38	-1.6
			S	18	19.45	
HCY	4.88	138	ePn	17	39.20	0.5
			eSn	18	36.00	
KSP	4.94	17	ePn	17	34.50	-5.1X
			iPg	17	54.60	
			iSn	18	34.60	
			iSg	19	00.00	
BHB	4.95	257	P	17	37.10	-2.7
			S	18	18.63	
EMS	4.95	272	eP	17	40.00	0.7
ENR	5.06	250	P	17	40.35	-1.1
			S	18	27.86	
PGF	5.10	227	Pn	17	42.00	0.0
			Sn	18	37.00	
STV	5.12	251	P	17	40.87	-1.4
CDF	5.14	299	Pn	17	42.00	-0.6
LPG	5.14	265	Pn	17	42.60	-0.2
			Sn	18	44.60	
LPL	5.15	266	Pn	17	42.80	-0.1
BDV	5.16	137	ePn	17	43.00	0.3
PZZ	5.17	254	P	17	39.84	-3.2X
SPC	5.18	52	iPn	17	42.30	-0.9
			i	18	39.80	
SBF	5.21	247	Pn	17	44.00	0.4
			Sn	18	43.00	
CLL	5.2					

11d 22h

HAU	5.59	292	Pn	18 12.30	
			Sn	17 48.40	-0.4
ULC	5.60	136	ePn	17 49.20	0.1
			eSn	18 54.00	
SGO	5.65	170	P	17 49.40	-0.3
FRF	5.86	247	Pn	17 52.00	-0.6
			Sn	18 58.00	
LMR	6.06	245	Pn	17 54.00	-1.4
			Sn	18 59.80	
LRG	6.09	247	Pn	17 55.00	-0.9
			Sn	19 04.80	
MGR	6.09	169	P	17 54.00	-2.0
DEV	6.17	89	ePc	18 07.00	10.0X
ORI	6.32	163	P	17 58.70	-0.4
CDR	6.38	250	e(Pn)	17 58.40	-1.6
			e	17 58.70	
			i(Sn)	18 02.00	
			e	19 08.00	
			e	19 08.40	
LCI	6.46	152	P	18 00.50	-0.6
			eSn	19 11.20	
CSI	6.56	165	P	18 01.10	-1.5
			eSn	19 16.80	
BNS	6.65	319	ePnc	18 03.50	-0.2
TDS	6.69	165	P	18 03.80	-0.5
SKO	6.75	125	iPn	18 04.50	-0.7
	1.2s	146.00nm			5.8mb X
			Lg	20 20.00	
ROI	6.82	163	P	18 07.20	1.0
MEM	6.98	313	P	18 10.30	1.9
LBF	7.00	281	Pn	18 07.20	-1.5
			Sn	19 24.40	
OHR	7.01	133	ePn	18 08.70	-0.2
CZI	7.08	167	P	18 08.40	-1.4
SMF	7.08	278	Pn	18 08.40	-1.5
			Sn	19 26.00	
LOR	7.10	283	Pn	18 08.40	-1.7
			Sn	19 26.80	
ENN	7.12	314	ePn	18 11.00	0.7
	0.5s	14.00nm			5.3mb X
			ePb	18 26.00	
			ePg	18 43.00	
			eSn	19 25.00	
SSF	7.33	281	Pn	18 11.20	-2.1
AVF	7.42	279	Pn	18 13.20	-1.4
DOU	7.47	305	P	18 15.80	0.6
FNA	7.55	133	iPd	18 15.89	-0.5
			iS	19 12.29	
WTS	7.55	324	eP	18 16.00	-0.3
CMP	7.74	92	ePc	18 15.00	-4.1X
BGF	7.77	277	Pn	18 18.00	-1.5
			Sn	19 44.80	
VAY	7.82	125	ePn	18 19.20	-1.0
SNF	7.84	307	P	18 28.50	8.0X
MAF	7.98	275	Pn	18 21.00	-1.4
			Sn	19 49.00	
IGT	8.05	143	ePc	18 21.62	-1.7
			iS	19 25.29	
KNT	8.11	125	ePc	18 23.42	-0.8
TCF	8.22	275	Pn	18 24.20	-1.6
			Sn	19 55.60	
MLR	8.33	90	ePd	18 21.00	-6.5X
CAF	8.51	266	Pn	18 27.60	-2.2
SRS	8.54	123	ePd	18 29.70	-0.5
LIT	8.62	131	ePd	18 29.90	-1.5
LSF	8.69	275	Pn	18 30.00	-2.3
			Sn	20 05.80	
AGG	9.37	136	ePd	18 39.86	-1.7
LFF	9.42	267	Pn	18 40.40	-1.9
MFF	9.83	278	Pn	18 47.00	-1.0
FLN	10.19	290	Pn	18 52.00	-0.9
BTH	10.60	259	eP	19 12.00	13.5X
			i(PP)	19 17.00	
			i	19 52.50	
			e	20 44.00	
			e	20 56.00	
NB2	15.03	355	P	19 56.00	-1.4
	0.7s	1.10nm			3.3mb X
					S.D. = 1.2 on 130 of 139 obs.

? NOV 11, 1990 22h 19m 46.63±3.08s
 28.109 N ±21.6km 55.929 E ±30.9km
 DEPTH = 33.0km (normal)
 4.0mb (1 obs.)
 SOUTHERN IRAN (353)

ML 3.9 (BMU).
 SHI 3.35 298 eP 20 38.00 -0.2
 BJA 5.19 247 (Pn) 21 03.70 -0.3
 eSn 22 02.90
 BBU 5.23 250 ePn 21 04.80 0.3
 (Sn) 22 02.80
 KHC 38.54 315 eP 27 08.70 1.0
 NB2 44.36 331 P 27 54.60 -0.7
 0.9s 2.10nm 4.0mb
 S.D. = 0.9 on 5 of 5 obs.

? NOV 11, 1990 22h 20m 44.63±13.57s
 45.790 N ±20.2km 13.406 E ±92.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

ML 1.7 (LJU).
 TRI 0.26 108 iPd 20 49.30 -0.9
 VOY 0.42 54 e(Pg) 20 53.20 0.0
 eSg 20 56.60
 CEY 0.72 94 eP 21 04.40 5.6X
 eSg 21 06.50
 VBY 1.33 102 i(Pg)c21 10.00 0.9
 iSg 21 24.60
 PTJ 1.79 86 iPg 21 14.40 -1.4
 iSg 21 33.20
 S.D. = 1.7 on 4 of 5 obs.

NOV 11, 1990 22h 45m 06.92±0.92s
 28.184 N ±11.7km 55.263 E ±6.1km
 DEPTH = 65.7 ±12.0 km
 4.4mb (2 obs.)
 SOUTHERN IRAN (353)

SHI 2.81 302 eP 45 51.00 0.5
 BJA 4.69 243 ePn 46 16.40 -0.4
 (Sn) 47 12.90
 BBU 4.71 246 iPn 46 17.10 0.0
 (Sn) 47 12.70
 QUE 10.41 76 eP 47 35.70 -0.3
 GKN 25.89 83 P 50 35.40 0.8
 KKN 26.48 84 P 50 40.00 -0.1
 PKI 26.63 84 P 50 41.40 -0.2
 HFS 42.50 331 eP 52 57.00 0.0
 0.9s 10.10nm 4.6mb
 NB2 44.01 331 P 53 08.60 -0.7
 0.7s 3.00nm 4.2mb
 KIC 60.64 261 P 55 14.00 0.4
 S.D. = 0.6 on 10 of 10 obs.

* NOV 11, 1990 23h 07m 14.62±2.41s
 68.799 N ±16.7km 8.624 E ±20.7km
 DEPTH = 10.0km (geophysicist)
 NORWEGIAN SEA (642)

MD 3.2 (BER).
 LOF 1.94 108 eP 07 48.89 1.1
 eSg 08 16.86
 TRO 3.77 72 eP 08 14.00 0.1
 eS 08 54.59
 NSS 4.49 161 eP 08 25.32 1.2
 eSg 09 16.65
 KTK1 5.28 81 eP 08 35.96 0.5
 MOL 6.27 185 eP 08 49.63 0.3
 eS 09 57.75
 KEV 6.59 73 iP 08 53.00 -0.8
 iS 10 02.40
 HYA 7.73 189 eP 09 10.10 0.3
 SUE 7.94 194 eP 09 19.50 6.7X
 NRA0 8.19 170 Pn 09 15.70 -0.6
 Sn 10 38.90
 S 10 51.20
 S 11 07.40
 HFS 8.97 164 eP 09 26.20 -0.8
 0.7s 5.80nm 5.0mb X
 NUR 10.75 133 iP 09 50.20 -1.2
 S.D. = 0.9 on 10 of 11 obs.

% NOV 11, 1990 23h 38m 48.11±0.68s
 44.432 N ±6.0km 7.304 E ±6.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

ML 1.7 (GEN).
 PZZ 0.16 297 P 38 52.22 0.3
 S 38 54.89

STV 0.19 176 P 38 52.22 -0.1
 S 38 54.56
 ENR 0.22 158 P 38 52.79 -0.2
 S 38 55.75
 BHB 0.41 356 P 38 56.23 -0.3
 S 39 01.99
 ROB 0.43 108 P 38 57.14 0.3
 S 39 03.50
 FIN 0.69 109 P 39 01.77 0.0
 S.D. = 0.3 on 6 of 6 obs.

NOV 11, 1990 23h 59m 03.53±0.63s
 24.091 N ±3.1km 121.758 E ±3.2km
 DEPTH = 34.3 ±5.3 km
 5.4mb (69 obs.) 5.2Msz (7 obs.)
 TAIWAN (244)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 21C
 Centroid Location:
 Origin Time 23:59: 6.5 03
 Lat 24.10N 0.05 Lon 121.83E 0.07
 Dep 38.2 5.1 Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.61 0.06 Mtt= 0.11 0.07
 Mff=-0.72 0.10 Mrt= 0.21 0.09
 Mrf= 1.90 0.21 Mtf=-0.25 0.08
 Principal Axes:
 T Vol= 1.96 Plg=55 Azm=271
 N 0.16 4 7
 P -2.11 35 100
 Best Double Couple: Mo=2.0*10**17
 NP1: Strike=210 Dip=11 Slip= 113
 NP2: 7 80 86

ANP 1.11 349 iPd 59 25.00 2.1
 eS 59 44.50
 OZH 3.01 287 iPnc 59 50.00 0.1
 Z 15s 54.40um
 Sn 00 22.00
 SSE 7.00 356 Pd 00 45.00 -1.2
 0.7s 38.00nm 5.4mb
 HKC 7.20 257 iP 00 48.80 -0.4
 BAG 7.72 188 eP 00 57.90 1.3
 eS 02 22.50
 GZH 7.78 264 iPc 00 56.50 -0.8
 1.1s 290.00nm 6.2mb
 Z 15s 22.70um 3.8Msz
 MCO 7.80 257 eP 00 58.00 0.4
 eS 02 19.00
 NJ2 8.33 343 Pd 01 03.80 -1.1
 1.0s 300.00nm 6.4mb
 S 02 34.40
 WHN 9.20 316 eP 01 15.00 -1.9
 Z 18s 9.30um
 S 03 00.00
 OCP 9.43 184 eP 01 23.50 3.4X
 OIZ 12.17 248 eP 01 58.60 1.1
 N 10s 4.00um
 E 10s 4.50um
 eS 04 15.60
 TIA 12.72 343 eP 02 03.50 -1.3
 Z 18s 5.90um
 eS 04 22.00
 GYA 13.86 283 P 02 20.00 0.0
 Z 14s 10.80um
 XAN 14.96 314 P 02 34.50 0.2
 1.2s 200.00nm 5.3mb
 TIY 15.75 332 Pd 02 45.90 1.5
 Z 16s 8.10um 4.5MszX
 N 10s 4.70um
 E 11s 4.60um
 BJI 16.58 345 eP 02 58.50 3.5X
 8.0s 1190.00nm 5.1mb X
 Z 24s 4.13um 4.2MszX
 E 13s 3.29um
 eS 06 00.00
 KMI 17.33 277 Pc 03 05.00 0.3
 6.0s 1200.00nm 5.2mb X
 Z 16s 22.10um 3.8Msz
 sP 03 21.00
 CD2 17.34 297 eP 03 04.30 -0.4
 Z 16s 32.10um
 sP 03 18.50
 SNY 17.75 4 Pc 03 12.80 3.2X
 0.9s 40.00nm 4.5mb
 Z 14s 4.40um 4.7MszX

E	13s	6.40um				PMG	41.52	140	eP	06	51.00	1.6	HFS	77.90	331	eP	10	58.00	-1.2	
		PP	03	30.00		GBA	43.06	264	Pc	07	01.90	-0.2		0.6s	22.00nm			5.4mb		
		iS	06	30.00			1.6s	129.50nm				5.4mb	Z	17s	3.46um			5.7MsZ		
IIDJ	18.01	47	eP	03	13.10	0.2	KOD	44.31	260	iPc	07	14.00	1.4		LR	40	35.00			
HHC	18.77	335	iPd	03	25.50	3.2X		0.9s	58.82nm			5.4mb	TNR	78.12	315	ePc	11	00.00	-0.8	
N	16s	7.10um				POO	44.81	272	iPc	07	17.60	1.3	PVL	78.34	312	iPd	11	03.00	1.0	
MAT	18.83	45	eP	03	21.00	-1.9		1.0s	100.00nm			5.6mb	NB2	78.55	332	P	11	01.60	-1.3	
Z	20s	5.32um				WB5	45.40	163	iPd	07	19.80	-1.0		0.6s	15.00nm			5.2mb		
		eS	06	54.00		BOM	45.65	273	iP	07	23.20	0.3	DIM	78.64	311	eP	11	04.00	0.4	
CHJJ	19.06	47	P	03	23.80	-1.9		eS	13	41.20		KDZ	78.87	311	iPc	11	05.00	0.0		
BTO	19.19	332	iPc	03	28.00	0.8	NANU	46.77	188	eP	07	29.50	-2.0	EZN	78.91	309	iP	11	04.40	-0.8
N	14s	7.30um					0.5s	24.00nm			5.4mb	KRA	79.07	320	eP	11	05.70	-0.1		
E	12s	5.50um				OIS	47.66	157	iPd	07	38.30	-0.4		1.0s	50.00nm			5.5mb		
		sP	03	43.50			0.7s	50.00nm			5.6mb		i			11	07.10			
LZH	19.54	312	iPc	03	32.50	1.1	ASPA	48.91	165	iPd	07	47.50	-0.8		i		11	20.20		
	5.0s	2130.00nm			5.7mb	X	0.5s	43.50nm			5.7mb	PLD	79.19	311	iP	11	07.00	0.3		
Z	17s	14.30um			5.0MsZ		Z	23s	0.40um		4.3MsZ	SPC	79.24	319	eP	11	07.50	0.4		
N	10s	4.30um				HNR	50.01	127	eP	08	05.00	8.1X	RZN	79.34	311	iPc	11	07.00	-0.7	
E	13s	7.30um				MRWA	53.29	186	iPd	08	20.20	-1.1	PGB	79.38	312	eP	11	08.00	0.2	
		pP	03	43.50	50kmX	MAIO	54.35	298	iPc	08	30.30	1.0	BZS	79.85	315	eP	11	10.00	-0.1	
LOE	19.86	254	eP	03	35.00	0.3		1.0s	35.00nm		5.3mb	VTs	80.02	312	iPc	11	12.00	0.7		
CN2	19.89	8	Pc	03	34.60	-0.3		eS	16	12.00		MMB	80.06	311	eP	11	11.00	-0.4		
	1.0s	80.00nm			5.0mb	BAL	54.60	185	eP	08	29.00	-1.9	KKB	80.39	312	iP	11	12.00	-1.2	
Z	17s	3.90um			5.1MsZ	COOL	54.66	181	eP	08	29.10	-2.3	PAIG	80.75	310	ePc	11	14.40	-0.7	
N	14s	2.60um					0.3s	4.00nm			4.9mb	KNT	80.80	311	ePc	11	15.12	-0.2		
E	14s	2.50um				FORR	54.96	173	iPc	08	32.00	-1.6	KSP	80.83	322	iPc	11	15.30	0.1	
		epP	03	44.00	38kmX		0.4s	41.00nm			5.8mb		i			11	30.60			
KAKJ	19.94	49	eP	03	34.10	-1.3	KLB	55.50	184	eP	08	35.30	-2.2	BEO	80.93	315	eP	11	13.00	-2.9
PCT	21.33	248	eP	03	52.00	2.2		0.5s	26.00nm		5.5mb	VAY	80.96	311	iP	11	15.40	-0.7		
MDJ	21.45	15	Pd	03	50.50	-0.4	MUN	56.00	186	eP	08	39.00	-2.1		0.8s	51.00nm		5.6mb		
	0.9s	50.00nm			4.9mb	RMO	56.65	151	eP	08	45.00	-0.9		i		11	30.30			
Z	20s	2.50um			4.6MsZ	NWAO	56.86	185	eP	08	45.70	-1.5	SRO	80.99	318	e(P)	11	17.30	1.2	
N	14s	4.80um					0.6s	23.00nm			5.4mb		i		11	30.20				
E	14s	3.10um				RKG	58.01	185	iPc	08	57.80	2.5	GRG	81.23	311	ePc	11	17.24	-0.4	
		eS	07	45.00		BRS	59.29	148	iPc	09	08.50	4.1X	SKO	81.47	312	eP	11	18.70	-0.1	
CHG	21.86	261	iPc	03	56.90	1.7		i	09	17.00			1.3s	77.00nm			5.6mb			
	1.0s	73.25nm			5.1mb	ADE	60.89	164	e(P)	09	08.00	-7.2X		i		11	32.60			
		eS	07	38.00		SHI	61.19	292	eP	09	17.00	-0.6	LIT	81.52	310	ePc	11	17.88	-1.2	
NST	21.97	252	eP	03	57.50	1.2	DZM	63.19	133	iPc	09	31.10	0.3	ZST	81.55	319	e(P)	11	19.30	0.2
GTA	24.02	315	iPc	04	17.80	1.4	SDN	63.64	39	eP	09	31.20	-2.1		e	14	38.50			
	3.0s	1280.00nm			5.9mb		0.9s	88.90nm			5.9mb	KZN	81.93	310	eP	11	20.10	-1.2		
Z	16s	8.70um			5.3MsZ	BJA	63.73	288	iP	09	33.60	-0.7	VKA	81.99	319	e(P)	11	21.00	-0.3	
N	18s	12.00um					0.6s	240.00nm			6.5mb		i		11	37.20				
		pP	04	28.00	38kmX	BBU	63.80	288	iP	09	34.20	-0.6	FNA	82.01	311	ePd	11	20.96	-0.7	
		sP	04	32.00		TAB	64.49	302	eP	09	39.00	-0.4	AGG	82.07	309	ePc	11	20.16	-1.9	
		S	08	29.00			e	09	52.00			BRG	82.13	322	iPd	11	22.60	0.6		
		sS	08	48.00		TOO	65.27	159	iPc	09	44.00	-0.1		2.0s	44.00nm			5.2mb		
GUMO	24.20	111	eP	04	19.50	1.4	TTA	65.33	30	ePd	09	44.30	0.0		e	14	30.00			
	1.2s	1177.78nm			6.3mb	IMA	66.05	26	eP	09	48.60	-0.3	PRU	82.22	322	P	11	23.00	0.5	
PJG	24.20	111	eP	04	19.50	1.4		0.7s	19.90nm		5.3mb		1.4s	30.00nm			5.1mb			
		TT	27	40.20		KDC	67.73	35	eP	10	00.50	1.0	Z	16s	1.00um		5.3MsZ			
GUA	24.26	111	eP	04	19.40	0.7	FBA	68.65	27	eP	10	05.00	-0.1	N	16s	0.30um				
	1.2s	825.00nm			6.2mb	PMR	68.70	31	ePd	10	04.50	-1.0	E	16s	0.50um					
SNG	26.34	234	eP	04	39.10	0.8		0.5s	15.60nm		5.3mb	OHR	82.27	312	eP	11	18.20	-4.8X		
LSA	27.81	288	iPc	04	53.60	1.4	KEV	69.26	338	eP	10	07.00	-1.8	CLL	82.44	323	eP	11	23.00	-0.6
		sP	05	04.00			0.7s	17.40nm			5.2mb		1.8s	52.00nm			5.3mb			
		eS	27	12.00		TOA	69.96	30	eP	10	13.70	0.4	Z	18s	1.50um		5.4MsZ			
IPM	27.84	229	ePc	04	53.90	1.9	SOD	69.96	336	iP	10	12.20	-0.9		epP	11	40.00	61kmX		
	0.8s	146.40nm			5.7mb	SUF	71.39	331	iP	10	20.80	-1.0	EVR	82.49	309	eP	11	23.00	-1.3	
PPI	32.02	223	eP	05	20.50	-8.6X	NUR	72.74	329	eP	10	29.00	-0.8	VLI	82.59	307	eP	11	22.70	-2.0
	0.6s	57.40nm			5.6mb		0.8s	32.30nm			5.4mb	YKA	82.85	23	eP	11	25.30	-0.3		
GUN	32.40	285	Pc	05	33.20	0.4		e	10	44.00			0.8s	26.00nm			5.4mb			
PKI	32.83	284	Pc	05	36.50	-0.1	KAS	73.06	308	iPc	10	32.40	0.1	ITM	83.13	308	eP	11	26.40	-1.1
TRT	32.83	197	iPc	05	36.10	-0.1	INK	73.12	22	eP	10	31.00	-0.9	KHC	83.18	321	P	11	28.00	0.4
	0.7s	100.10nm			5.8mb		0.8s	32.00nm			5.4mb		Z	18s	1.00um		5.2MsZ			
DMN	33.09	284	Pc	05	38.80	0.0	MBC	73.24	13	eP	10	31.50	-1.1	N	18s	1.00um				
GKN	33.49	285	Pc	05	42.00	-0.2		0.5s	8.00nm		5.0mb		E	18s	0.70um					
WMO	34.10	314	Pc	05	47.00	-0.1	BBTK	74.26	307	iPc	10	39.00	-0.3		e	11	44.70			
Z	14s	3.40um			5.2MsZ	MML	74.58	299	iPc	10	41.40	0.2	IGT	83.26	310	ePc	11	26.40	-1.7	
N	10s	2.00um				MKT	75.27	298	iPc	10	45.70	0.5	PTJ	83.29	317	eP	11	28.00	-0.3	
E	12s	3.20um				RMN	75.85	297	iPc	10	48.30	-0.3	MOX	83.53	323	eP	11	30.00	0.7	
		PP	07	03.00		PSN	76.23	312	iPd	10	51.00	0.7		1.7s	41.00nm			5.3mb		
MTN	37.84	165	iPd	06	17.20	-1.6	UPP	76.24	330	iP	10	48.70	-1.3	VLS	83.67	309	eP	11	29.00	-1.2
NDI	39.99	286	iPc	06	37.00	0.2	VRI	76.45	314	ePd	10	51.50	0.0	VBY	83.91	317	eP	11	31.60	0.3
	0.5s	38.73nm			5.4mb	ALT	76.45	307	iP	10	51.20	-0.6	LJU	84.10	318	eP	11	32.00	-0.3	
		eS	12	28.00		IZI	76.48	308	eP	10	52.00	0.1	GRF	84.24	322	ePc	11	33.10	0.2	
KNA	40.18	170	eP	06	37.50	-0.9	SIT	76.80	33	eP	10	54.60	1.4		1.7s	91.00nm		5.7mb		
HYB	40.82	269	iPc	06	45.00	1.2	MLR	77.09	314	eP	10	55.00	-0.3	Z	22s	1.20um		5.2MsZ		
	1.4s	187.50nm			5.6mb	ELL	77.40	305	iP	10	56.00	-1.2		e	11	49.00				
		eS	12	56.00		BNT	77.58	309	eP	10	57.60	-0.3	CEY	84.31	318	eP	11	33.00	-0.4	
KSH	41.38	303	iPd	06	50.50	2.3	EDC	77.62	309	eP	10	58.00	-0.1	VOY	84.50	318	eP	11	33.10	-1.3
E	17s	7.90um				JMB	77.76	311	iP	10	54.00	-4.8X	TRI	84.74	318	P	11	35.50	0.1	
		sP	07	02.00		CMP	77.77	314	ePc	11	02									

12d 00h

VVI	85.41	319	P	11	39.50	0.6	FRI	96.11	45	eP	12	31.30	2.1	CTT	0.86	327	iPg	05	29.60	0.6
SQTA	85.51	320	iPc	11	38.80	-0.6	TNP	97.03	43	iP	12	34.70	1.1	BNT	0.87	266	ePg	05	28.50	-0.7
	1.2s	30.20nm			5.4mb			0.7s	7.22nm			5.3mb		EDC	0.92	265	ePn	05	30.00	0.1
		i		11	54.40		KIC	119.71	293	PKP	17	52.00	-0.5	ALT	1.59	149	ePn	05	41.60	0.7
ORI	85.70	312	Pd	11	41.50	1.1	TOV	144.49	20	ePKP	18	37.90	-1.0	S.D. = 0.5 on 9 of 9 obs.						
OGA	85.80	320	iPc	11	42.00	1.0	LLAV	144.64	15	ePKP	18	39.00	-0.2	* NOV 12, 1990 01h 35m 31.99± 1.17s						
CTI	85.85	319	P	11	40.50	-0.6	SDV	145.06	22	ePKP	18	39.50	-0.5	27.967 N ±18.7km 56.405 E ±11.6km						
CSI	85.94	312	P	11	41.90	0.3	CEOS	145.64	18	ePKP	18	40.00	-0.9	DEPTH = 33.0km (normal)						
TDS	85.96	312	P	11	42.50	0.8	PDCR	158.54	299	ePKP	19	03.20	4.0X	3.9mb (2 obs.)						
SGO	86.23	313	P	11	43.00	0.0	ZOBO	167.90	52	PKP	19	10.20	1.6	SOUTHERN IRAN (353)						
DUI	86.26	314	P	11	43.50	0.2		1.3s	13.80nm					SHI	3.79	297	eP	36	28.00	-1.7
MGR	86.27	312	P	11	42.80	-0.4					18	22.00		BJA	5.53	250	ePn	36	54.70	0.5
CZI	86.31	311	P	11	43.50	0.1	LPB	168.09	53	PKP	19	11.00	2.4				eSn	37	48.40	
ARV	86.34	316	P	11	44.50	1.0	CNCB	168.35	53	PKP	19	10.00	1.1	BBU	5.58	253	(Pn)	36	54.80	-0.1
ENN	86.52	325	eP	11	44.50	0.3			e		20	18.00					(Sn)	37	49.70	
MEM	86.57	325	Pc	11	45.50	1.1	SIV	171.51	19	PKP	19	10.00	0.1	PKI	25.64	84	P	41	00.00	-0.8
SDI	86.66	314	P	11	45.00	-0.2	S.D. = 1.1 on 222 of 235 obs.							NUR	38.96	336	eP	43	12.00	15.6X
ASS	86.73	316	P	11	46.00	0.5	% NOV 12, 1990 00h 09m 34.71± 1.51s							HFS	43.18	330	eP	43	32.20	1.1
SAL	86.75	319	P	11	46.50	1.1	39.040 N ± 8.5km 16.413 E ±14.0km									0.4s	1.40nm		4.1mb	
AZI	86.77	315	P	11	46.50	0.9	DEPTH = 10.0km (geophysicist)							NB2	44.69	331	P	43	44.20	0.8
SFI	86.81	317	P	11	46.00	0.3	SOUTHERN ITALY (390)									0.6s	0.90nm		3.8mb	
CRE	86.89	317	P	11	47.00	0.7	CZI	0.28	309	P	09	40.80	0.2	S.D. = 1.4 on 6 of 7 obs.						
PGD	86.91	317	P	11	47.50	1.0	ROI	0.54	13	P	09	45.10	-0.6	& NOV 12, 1990 01h 51m 52.63s						
CDF	87.11	323	eP	11	47.20	-0.1					09	54.20		57.641 N 143.018 W						
	1.3s	32.50nm			5.4mb		TDS	0.62	355	P	09	46.50	-0.7	DEPTH = 10.0km (geophysicist)						
MDI	87.14	319	P	11	45.50	-1.8			eSg		09	55.20		GULF OF ALASKA (15)						
SNF	87.52	325	P	11	50.20	1.2			eSg		09	55.20		<AGS-P>.						
DOU	87.61	325	P	11	49.70	0.3	CSI	0.74	353	P	09	49.40	0.1	WRG	2.46	12	eP	52	28.07	-5.3
BSF	87.71	322	P	11	49.60	-0.6			eSg		10	00.20				eS	52	55.87		
	1.3s	18.05nm			5.2mb		ORI	1.02	2	P	09	55.50	1.5	YKU	2.58	41	eP	52	29.77	-5.3
PIL	87.73	317	P	11	52.00	1.8			eSg		10	10.00		YAH	2.81	13	iP	52	33.32	-5.3
HAU	87.86	323	eP	11	50.10	-0.7	ATN	1.15	221	P	09	56.20	0.0	WAX	2.82	2	iP	52	32.95	-5.7
	1.2s	14.90nm			5.1mb				eSg		10	12.00				eS	53	04.42		
Z	20s	1.50um			5.4Msz		MGR	1.28	329	Pd	09	58.00	-0.5	SGAM	3.08	339	iP	52	37.05	-5.2
EKA	88.04	332	P	11	52.00	0.6			eSg		10	15.40				eS	53	12.51		
	0.7s	3.30nm			4.7mb		S.D. = 0.9 on 7 of 7 obs.						BALM	3.42	5	iP	52	41.55	-5.7	
BMW	88.49	39	eP	11	55.30	1.4	? NOV 12, 1990 00h 47m 53.85± 4.31s									eS	53	19.66		
PNT	88.83	35	eP	11	57.00	1.6	40.680 N ±11.6km 27.748 E ±41.7km							SEW	4.15	309	eP	52	51.86	-5.5
	0.9s	19.00nm			5.4mb		DEPTH = 10.0km (geophysicist)							TZL	4.58	346	eP	52	58.21	-5.3
LPG	89.04	320	eP	11	56.70	-0.1	TURKEY (366)							BRKL	4.62	301	eP	52	58.73	-5.4
	0.5s	7.30nm			5.3mb		MD 2.0 (ISK).							KNK	4.69	326	eP	52	59.16	-5.9
LPL	89.04	320	eP	11	56.60	-0.1	EDC	0.34	165	ePg	48	01.00	0.0	CNPM	4.70	297	eP	52	59.34	-5.9
	0.5s	7.30nm			5.3mb				eSg		48	08.00		SLKM	4.70	311	eP	52	59.00	-6.3
LON	89.14	38	e(P)	11	58.90	1.9	BNT	0.35	158	iPg	48	01.00	-0.1	SCM	4.74	334	eP	52	59.72	-6.1
PGF	89.30	317	eP	11	57.50	-0.4	KCT	0.63	133	iPg	48	06.60	0.0	TOA	4.75	342	eP	53	00.35	-5.7
BNI	89.33	320	P	11	58.50	0.5	CTT	0.70	48	iPg	48	07.60	0.0	PMS	4.92	320	eP	53	01.86	-6.5
LOR	89.66	323	eP	11	58.40	-1.0			iSg		48	19.60		PLRM	5.03	325	eP	53	04.34	-5.5
	1.2s	19.35nm			5.3mb		S.D. = 0.1 on 4 of 4 obs.						SDG	5.06	347	eP	53	04.85	-5.5	
Z	20s	1.00um			5.2Msz		? NOV 12, 1990 00h 51m 31.04± 1.75s							GHO	5.11	327	eP	53	05.19	-5.9
LBF	89.76	323	eP	11	59.00	-0.9	9.455 S ±22.5km 113.813 E ±30.9km							RD1	5.66	305	eP	53	12.28	-6.6
	1.1s	23.20nm			5.4mb		DEPTH = 89.6 ± 20.7 km							REF	5.75	304	eP	53	14.21	-6.0
SSF	89.97	323	eP	12	00.10	-0.7	4.5mb (2 obs.)							RDN	5.79	304	eP	53	14.14	-6.6
	1.0s	10.00nm			5.0mb		SOUTH OF JAVA (282)							SPU	5.82	311	eP	53	14.48	-6.6
SMF	90.03	322	eP	12	00.50	-0.6	TRT	2.09	326	iPc	52	05.00	0.0	CGLM	5.87	313	eP	53	13.44	-8.4
	1.3s	46.95nm			5.6mb				iS		52	32.50		CKL	5.94	311	iP	53	16.64	-6.2
AVF	90.22	323	eP	12	01.30	-0.6	WARB	20.61	145	eP	56	07.00	1.8	NCG	5.99	313	eP	53	17.23	-6.2
	1.1s	24.40nm			5.4mb				eS		59	38.30		BGL	6.00	311	eP	53	17.85	-5.8
DPW	90.45	36	eP	12	03.80	0.7	BAL	21.22	173	eP	56	10.40	-0.9	CUT	6.00	326	eP	53	18.06	-5.5
BGF	90.64	323	eP	12	03.30	-0.6			eS		59	46.00		27 obs. associated						
	1.1s	15.85nm			5.3mb		KLB	22.33	171	eP	56	25.70	3.4X	& NOV 12, 1990 02h 18m 41.97s						
NEW	90.78	35	iPd	12	05.60	1.0			eS		00	10.00		61.586 N 146.559 W						
MAF	90.99	323	eP	12	05.50	0.0	COOL	22.39	163	eP	56	25.50	2.6X	DEPTH = 28.1km						
	1.1s	22.00nm			5.4mb				eS		00	08.00		SOUTHERN ALASKA (2)						
TCF	91.15	323	eP	12	06.00	-0.3			eS		00	08.00		<AGS-P>.						
	1.3s	27.10nm			5.5mb		WB5	22.40	120	eP	56	22.10	-1.0	KLU	0.32	107	iP	18	49.36	-0.3
LSF	91.55	323	eP	12	07.50	-0.6	GUN	45.94	325	P	59	47.50	0.3			eS	18	55.76		
	1.3s	16.25nm			5.3mb		PKI	45.95	324	P	59	47.20	-0.1	SCM	0.44	304	iP	18	50.71	-0.8
CAF	92.06	322	eP	12	10.60	0.1	S.D. = 1.6 on 6 of 8 obs.								eS	18	57.98			
	1.3s	34.30nm			5.6mb		% NOV 12, 1990 01h 05m 11.93± 0.52s							VLZ	0.47	166	iP	18	50.75	-1.0
RJF	92.14	322	eP	12	11.00	0.2	40.426 N ± 5.3km 29.059 E ± 3.8km									eS	18	58.65		
	1.1s	46.40nm			5.8mb		DEPTH = 5.0km (geophysicist)							VZW	0.53	180	iP	18	51.65	-1.2
Z	21s	0.77um			5.1Msz		TURKEY (366)									eS	19	00.00		
LBFM	92.20	42	iPc	12	12.50	1.1	MD 2.6 (ISK).							TOA	0.55	19	iP	18	52.48	-0.7
WDC	92.23	43	eP	12	12.70	1.4	YLV	0.28	59	iPg	05	17.60	0.0			eS	19	04.49		
LFF	92.79	322	eP	12	14.00	0.2	IZI	0.33	106	iPg	05	18.40	-0.2	GLI	0.75	200	iP	18	55.00	-1.5
	1.3s	28.90nm			5.5mb				iSg		05	23.10				eS	19	05.86		
MIN	92.95	43	eP	12	16.00	1.2	KCT	0.56	252	ePg	05	23.10	-0.1	KNK	0.93	260	iP	18	57.87	-1.2
FFC	93.01	24	eP	12	14.00	-0.6	HRT	0.61	49	iPg	05	23.50	-0.6			eS	19	09.86		
	0.6s	16.00nm			5.6mb		ISK	0.64	0	ePg	05	25.00	0.3	SDG	1.06	26	iP	18	59.24	-1.7
ORV	93.47	44	eP	12	17.30	0.3														
LWI	93.60	269	iPd	12	18.20	-0.1														
BKS	93.95	45	eP	12	21.90	2.6														
PCC	94.07	46	eP	12	21.00	1.2														
GCC	94.59	46	eP	12	24.30	2.1														
MHC	94.65	46	eP	12	24.50	1.8														
CMB	95.06	44	eP	12	25.00	0.5														
PRI	95.98	46	eP	12	31.50	2.7														

CVA	1.12	159	eP	19 12.67	-0.9	PAX	1.21	115	eP	37 05.45	-0.6	CD2	44.70	327	eP	20 59.40	0.0
			eS	19 00.79					eS	36 48.62		XAN	44.73	334	Pd	20 59.20	-0.3
			eS	19 17.64					eS	37 04.21		TIY	46.62	340	P	21 15.00	0.5
GHO	1.14	280	iP	19 00.52	-1.7	FBA	1.40	1	eP	36 51.75	-0.1	BJI	47.67	345	eP	21 22.00	-0.6
			eS	19 17.02					eS	37 11.74			1.0s	19.00nm			4.8mb
HIN	1.19	179	eP	19 01.93	-0.9	SDG	1.45	132	eP	36 52.82	0.2	LZH	48.74	331	eP	21 31.00	-0.1
			eS	19 19.49		MDM	1.47	354	iP	36 52.73	-0.1	CN2	49.78	355	Pc	21 38.20	-0.6
PLRM	1.23	271	iP	19 02.14	-1.2				eS	37 13.37		MDJ	50.40	359	eP	21 43.00	-0.4
			eS	19 19.33		GLM	1.50	8	eP	36 54.50	1.1	GTA	53.32	331	Pd	22 05.80	0.3
SGAM	1.27	148	eP	19 02.69	-1.3				eS	37 13.71			0.8s	10.00nm			4.8mb
GLB	1.33	95	iP	19 02.86	-1.9	CUT	1.56	226	eP	36 54.00	-0.1	GUN	54.62	310	P	22 15.20	-0.4
KNIM	1.37	205	eP	19 03.89	-1.4				eS	37 15.43			0.6s	32.00nm			5.5mb
			eS	19 22.35		TOA	1.61	150	eP	36 56.33	1.4	PKI	54.81	310	P	22 16.20	-0.7
PAX	1.48	20	eP	19 05.33	-1.7	SCM	1.70	171	eP	36 56.68	0.4		0.5s	9.00nm			5.0mb
PMS	1.48	258	eP	19 06.42	-0.6	DOT	1.71	84	eP	36 58.07	1.7	KKN	55.02	310	P	22 17.80	-0.5
			eS	19 26.39		GHO	1.81	196	eP	36 58.11	0.3		0.5s	11.00nm			5.1mb
RAGM	1.51	142	eP	19 06.36	-1.1	PLRM	2.01	197	eP	37 01.70	1.1	DMN	55.06	310	P	22 18.20	-0.4
PWA	1.59	274	eP	19 07.45	-1.0	PWA	2.08	207	eP	37 01.88	0.2	KOD	55.14	287	eP	22 18.60	-0.8
			eS	19 28.39		KNK	2.12	188	eP	37 02.65	0.3	GKN	55.61	310	P	22 22.00	-0.5
LTJ	1.68	203	eP	19 08.66	-1.1	KLU	2.22	155	eP	37 05.34	1.6		0.5s	26.00nm			5.5mb
HMT	1.68	137	eP	19 08.54	-1.4	SKT	2.28	229	eP	37 04.18	-0.4	GBA	56.09	291	Pc	22 24.20	-1.6
CUT	1.93	297	eP	19 12.79	-0.7	PMS	2.40	200	eP	37 07.51	1.2		0.9s	23.20nm			5.2mb
KAIM	1.97	147	eP	19 13.06	-1.0	SUA	2.45	214	eP	37 07.79	0.8	WMO	62.80	326	P	23 12.00	0.4
TGL	1.99	113	eP	19 12.44	-2.0	VZW	2.53	165	eP	37 10.35	2.1	FBA	91.92	25	P	25 51.00	-1.2
SUA	2.01	268	eP	19 14.06	-0.7	NCG	2.90	225	eP	37 13.35	-0.1	CNCB	150.93	142	PKP	32 35.80	3.6X
SEW	2.05	225	eP	19 14.72	-0.5							LPB	151.07	141	PKP	32 42.00	9.7X
SLKM	2.08	240	eP	19 15.13	-0.6							ZOBO	151.25	141	PKP	32 33.00	0.3
BALM	2.11	103	eP	19 13.92	-2.2							PPD	152.08	177	ePKP	32 41.20	8.1X
RND	2.11	331	eP	19 15.04	-1.2												S.D. = 1.0 on 46 of 51 obs.
WAX	2.13	121	eP	19 16.18	-0.3												
SKT	2.39	282	eP	19 18.66	-1.5												
TRF	2.55	319	eP	19 21.18	-1.3												
CGLM	2.63	266	eP	19 24.35	0.8												
YAH	2.65	115	eP	19 23.33	-0.6												
SPU	2.68	264	eP	19 23.91	-0.2												
NCG	2.69	269	eP	19 23.18	-1.2												
WRG	2.71	123	eP	19 25.06	0.5												
CKL	2.81	265	eP	19 26.50	0.5												
BGL	2.82	266	eP	19 24.76	-1.5												

12d 05h

WARB 33.63 229 eS 02 04.40
 MBL 36.94 241 eP 59 00.30 -0.3
 FBA 81.72 21 P 04 28.80 -0.3
 TNP 92.03 52 P 05 20.80 1.5
 S.D. = 1.5 on 12 of 12 obs.

& NOV 12, 1990 06h 44m 51.04s
 56.971 N 156.184 W
 DEPTH = 24.7km
 ALASKA PENINSULA (12)
 <AGS-P>

KDC 2.15 67 iP 45 24.04 -1.9
 CDD 2.39 34 eP 45 27.62 -1.7
 MCNL 2.43 23 eP 45 27.78 -2.2
 SYI 2.61 49 eP 45 31.09 -1.5
 AGU 2.81 30 eP 45 33.87 -1.5
 AUH 2.80 30 eP 45 34.07 -1.2
 AUP 2.81 30 eP 45 34.05 -1.4
 AUE 2.82 31 eP 45 34.25 -1.2
 SDN 2.91 238 eP 45 34.92 -1.8
 PDB 3.01 20 eP 45 35.94 -2.3
 OPT 3.11 29 eP 45 37.66 -2.0
 INW 3.49 26 eP 45 42.91 -2.3
 INE 3.50 27 eP 45 43.05 -2.3
 HOM 3.61 40 eP 45 45.12 -1.5
 CNPM 3.66 44 eP 45 44.73 -2.7
 RSO 3.93 26 eP 45 49.10 -2.3
 REF 3.97 26 eP 45 49.10 -2.8
 RDN 3.98 25 eP 45 50.05 -1.9
 NCT 3.98 24 eP 45 49.39 -2.6
 RDT 4.11 27 eP 45 51.17 -2.8
 SLKM 4.71 39 eP 45 58.62 -3.8
 SEW 4.72 46 eP 45 57.79 -4.7
 CGLM 4.85 25 eP 46 02.24 -2.1
 SUA 5.30 30 eP 46 07.41 -3.4
 LTI 5.34 51 eP 46 06.92 -4.3
 PMS 5.48 36 eP 46 09.10 -4.1
 KNIM 5.56 49 eP 46 09.53 -4.8
 KNK 5.97 38 eP 46 15.53 -4.5
 28 obs. associated

NOV 12, 1990 07h 05m 42.08±0.74s
 21.718 N ± 5.3km 142.997 E ± 8.8km
 DEPTH = 310.1 ± 8.5 km
 4.7mb (14 obs.)
 MARIANA ISLANDS REGION (215)

PJG 8.28 167 eP 07 40.50 0.6
 GUMO 8.28 167 eP 07 40.30 0.4
 GUA 8.34 167 eP 07 40.30 -0.3
 IIDJ 14.42 343 eP 08 55.30 0.6
 KAKJ 14.64 351 P 08 56.60 -0.6
 CHJJ 14.70 347 P 08 57.50 -0.4
 TSRJ 15.07 337 eP 09 03.30 1.1
 MAT 15.35 345 eP 09 04.00 -1.1
 MTMJ 15.49 344 P 09 05.40 -1.3
 NIJJ 15.85 348 P 09 10.10 -0.3
 SSE 21.62 300 eP 10 09.50 0.9
 WB5 42.20 192 iPc 13 05.80 -1.0
 ASPA 45.97 192 eP 13 31.10 -5.7X
 PPI 47.04 248 eP 13 40.00 -5.2X
 MBL 48.25 209 eP 13 53.30 -1.0
 WARB 50.19 199 eP 14 08.40 -0.6
 GUN 51.82 289 P 14 22.40 0.7
 PKI 52.28 289 P 14 25.20 0.2
 KKN 52.37 289 P 14 27.00 1.5
 DMN 52.54 289 P 14 27.40 0.6
 GKN 52.90 289 P 14 29.80 0.4
 FBA 61.74 27 P 15 28.80 -1.1

GBA 62.61 274 Pc 15 35.60 -0.8
 KOD 63.64 271 eP 15 43.60 0.1
 INK 67.62 24 ePc 16 07.30 -0.1
 MBL 70.88 15 ePc 16 27.20 0.2
 YKA 76.52 28 eP 16 59.60 0.2
 KEV 78.28 341 eP 17 09.00 0.0
 PNT 78.47 41 eP 17 12.00 1.6
 SOD 79.66 339 eP 17 17.00 0.6
 SUF 82.36 335 iP 17 30.40 -0.1
 TNP 84.19 51 P 17 41.20 0.7
 NUR 84.19 334 eP 17 39.00 -0.7
 LRM 84.28 43 eP 17 42.00 1.1
 HFS 88.64 337 eP 18 00.10 -1.2
 NB2 88.86 339 P 18 01.60 -0.8
 ZOBO 150.11 85 PKP 24 55.00 1.4
 LPB 150.20 85 ePKP 24 53.00 -0.5
 CNCB 150.38 86 PKP 24 56.00 2.1
 SIV 156.53 80 PKP 24 59.00 -2.8
 S.D. = 1.0 on 38 of 40 obs.

? NOV 12, 1990 07h 59m 24.49±4.45s
 4.616 S ± 43.4km 131.055 E ± 25.1km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)

BANDA SEA (280)
 MTN 8.18 179 eP 01 25.00 1.1
 KNA 11.29 191 eP 02 05.50 -1.1
 WB5 15.51 168 eP 02 58.80 -3.8X
 QIS 17.90 153 eP 03 32.00 -0.6
 ASPA 19.14 172 iPd 03 47.70 -0.2
 MBL 19.73 213 eP 03 53.90 -0.6
 WARB 21.86 191 eP 04 17.70 1.4
 KLB 29.60 203 iPd 05 28.90 0.0
 S.D. = 1.2 on 7 of 8 obs.

% NOV 12, 1990 08h 52m 14.78±0.58s
 41.149 N ± 5.7km 28.477 E ± 4.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY MD 2.6 (ISK) (366)

CTT 0.04 267 iPg 52 16.30 -0.5
 ISK 0.45 101 iPg 52 23.90 0.0
 DMK 0.86 321 iPg 52 31.50 0.1
 YLV 0.89 130 iPg 52 31.60 -0.4
 BNT 0.90 208 iPg 52 32.10 0.1
 KCT 0.90 186 iPg 52 32.00 -0.1
 EDC 0.93 210 ePg 52 33.00 0.5
 HRT 0.96 110 iPn 52 33.40 0.3
 IZI 1.11 137 iPn 52 35.10 -0.6
 EYL 1.40 114 iPn 52 40.90 0.4
 S.D. = 0.4 on 10 of 10 obs.

NOV 12, 1990 09h 02m 24.22±0.95s
 42.988 N ± 9.2km 18.829 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA ML 2.5 (TTG) (383)

NKY 0.22 145 iPg 02 29.50 0.5
 BRY 0.23 247 iPg 02 28.50 -0.7
 HCY 0.59 204 ePg 02 36.30 0.1
 TTG 0.64 150 iPg 02 36.60 -0.5
 BDV 0.70 180 ePg 02 38.40 0.3

IVA 0.79 98 ePg 02 39.50 -0.2
 PVY 0.93 115 ePg 02 42.00 -0.1
 HVAR 1.75 277 i(Pn) 02 55.40 0.5
 S.D. = 0.5 on 8 of 8 obs.

* NOV 12, 1990 09h 12m 56.41±1.65s
 45.496 N ± 16.3km 15.378 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 3.0 (LJU), 2.7 (TRI). Felt at
 Gorski Kotar and Zidhovo.

VBY 0.09 276 iPg 12 57.80 -1.1
 PTJ 0.57 45 iPg 13 07.90 -0.2
 CEY 0.71 290 ePg 13 09.50 -0.9
 RIY 0.72 258 iPg 13 10.50 0.0
 LJU 0.81 313 ePg 13 11.60 -0.4
 TRI 1.15 281 iPg 13 18.10 0.2
 VOY 1.17 298 ePg 13 18.10 -0.2
 FVI 2.12 302 P 13 33.70 1.5
 VVI 2.13 284 P 13 33.50 1.1
 HVAR 2.44 161 e(Pn) 13 41.00 4.1X
 CTI 2.67 283 P 13 40.50 0.2
 S.D. = 0.9 on 10 of 11 obs.

& NOV 12, 1990 09h 30m 20.90s
 38.043 N 119.160 W
 DEPTH = 8.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 2.7 (BRK).

CMB 0.97 270 iPc 30 38.20 -1.3
 FRI 1.14 203 iPd 30 41.50 -0.8
 TNP 1.53 88 eP 30 47.00 -1.8
 ARN 2.01 251 eP 30 55.50 0.0
 LLA 2.01 225 eP 30 56.30 0.8
 MHC 2.09 251 eP 30 57.40 0.6
 SAO 2.22 236 iPd 30 59.30 0.7
 ORV 2.37 310 eP 31 01.60 0.9
 8 obs. associated

NOV 12, 1990 10h 34m 54.70±0.43s
 40.528 N ± 4.0km 23.647 E ± 3.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

OUR 0.32 127 iPc 35 00.92 -0.4
 SOH 0.37 323 iPc 35 01.78 -0.5
 THE 0.53 282 ePd 35 04.68 -0.7
 SRS 0.59 356 iPc 35 05.53 -1.1
 PAIG 0.60 178 iPc 35 05.96 -0.9
 KNT 0.85 318 ePd 35 10.32 -0.8
 LIT 0.98 245 ePd 35 13.72 0.4
 GRG 1.04 295 ePd 35 14.48 0.1
 VAY 1.14 314 iPn 35 16.80 0.8
 RZN 1.41 35 iP 35 20.00 -0.6
 KDZ 1.74 49 iP 35 26.00 0.8
 PLD 1.76 26 eP 35 29.00 3.5X
 AGG 1.81 214 ePd 35 25.92 -0.3
 ALN 1.86 78 ePd 35 27.56 0.7
 PGB 2.06 11 eP 35 30.00 0.2
 VTS 2.09 351 iP 35 31.00 0.7
 IGT 2.73 250 iPc 35 40.98 1.6
 BUC1 4.20 24 ePd 36 04.00 3.8X

S.D. = 0.8 on 16 of 18 obs.
 NOV 12, 1990 10h 39m 23.44±0.71s
 40.499 N ± 5.9km 23.595 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

OUR 0.34 119 ePc 39 30.12 -0.3
 eS 39 34.68
 SOH 0.37 330 iPc 39 31.12 0.0
 eS 39 36.08
 PAIG 0.57 174 ePd 39 35.12 0.0
 eS 39 43.48
 SRS 0.62 360 ePd 39 35.00 -0.9
 eS 39 47.24
 KNT 0.85 322 ePd 39 40.20 0.4
 eS 39 50.52
 MMB 1.09 5 iPg 39 44.00 0.0
 KKB 1.42 344 iP 39 49.00 -0.3
 RZN 1.46 35 eP 39 51.00 1.0
 S.D. = 0.7 on 8 of 8 obs.

NOV 12, 1990 10h 39m 45.14±0.49s
 43.160 N ± 4.5km 19.059 E ± 4.5km
 DEPTH = 8.1 ± 3.8 km
 YUGOSLAVIA (383)
 MD 3.1 (TTG).

NKY 0.35 187 iPg 39 52.60 0.3
 iSg 39 59.50
 BRY 0.46 236 iPg 39 53.50 -0.9
 IVA 0.68 115 iPg 39 58.50 -0.3
 iSg 40 11.40
 TTG 0.75 168 ePg 39 59.50 -0.4
 eSg 40 12.00
 HCY 0.82 210 iPg 40 00.50 -0.7
 iSg 40 15.00
 PVY 0.88 130 ePg 40 02.20 -0.1
 iSg 40 18.40
 BDV 0.89 191 ePg 40 02.10 -0.3
 eSg 40 18.50
 ULC 1.20 173 ePg 40 07.00 -0.8
 eSg 40 29.00
 HVAR 1.91 271 ePn 40 19.30 1.0
 iSg 40 45.70
 BEO 1.94 31 ePn 40 20.00 1.3
 eSn 40 46.50
 SKO 2.12 123 iPn 40 23.00 1.7
 iSn 40 48.50
 OHR 2.42 147 iPn 40 29.40 3.7X
 0.9s 94.00nm
 LR 41 05.10
 LR 41 12.90
 BZS 3.06 36 ePc 40 33.00 -1.7
 VAY 3.19 124 ePn 40 46.20 9.7X
 PTJ 3.52 322 ePn 40 40.10 -1.2
 VBY 3.60 312 ePn 40 45.00 2.7
 DUI 3.72 248 P 40 45.50 1.3
 SGO 3.82 228 P 40 45.00 -0.5
 MGR 4.00 222 P 40 48.00 0.0
 SDI 4.14 251 P 40 50.50 0.4
 LJU 4.33 313 e(Pn) 40 51.00 -1.7
 e 41 04.50
 e(Sn) 41 43.00
 ARV 4.48 276 P 40 55.00 0.2
 VOY 4.67 310 ePn 40 56.50 -1.2
 eSn 41 54.50
 eSg 42 24.00
 ASS 4.68 271 P 40 57.60 -0.3
 eSn 41 48.00
 MNS 4.76 263 P 40 58.00 -0.9
 eSn 41 51.00
 CRE 5.20 278 P 41 06.60 1.4
 SFI 5.29 281 P 41 07.10 0.7
 FVI 5.63 310 P 41 10.00 -1.1
 S.D. = 1.2 on 26 of 28 obs.

? NOV 12, 1990 10h 43m 12.00±1.49s
 16.710 N ± 31.8km 95.043 W ± 10.7km
 DEPTH = 33.0km (normal)
 OAXACA, MEXICO (60)
 OXX 1.65 283 iPd 43 39.70 0.4
 iS 43 59.50
 SCX 2.31 89 iP 43 48.50 0.0
 iS 44 16.50
 IISM 3.17 316 eP 44 00.50 -0.2

IIT 3.87 307 iS 44 37.70
 P 44 11.50 0.6
 iS 44 55.00
 III 4.53 292 P 44 19.50 -0.9
 (S) 45 08.50
 S.D. = 0.8 on 5 of 5 obs.

? NOV 12, 1990 10h 47m 27.24±0.94s
 39.144 N ± 7.8km 27.471 E ± 10.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

IZM 0.76 192 ePg 47 42.10 -0.1
 iSg 47 54.00
 EZN 1.12 308 ePn 47 48.30 0.1
 EDC 1.24 14 ePn 47 50.00 -0.3
 IZI 1.95 52 ePn 48 01.00 0.2
 S.D. = 0.4 on 4 of 4 obs.

NOV 12, 1990 10h 53m 13.32±0.58s
 40.541 N ± 4.7km 23.627 E ± 5.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

OUR 0.34 127 ePd 53 20.44 0.1
 eS 53 23.76
 SOH 0.35 324 iPc 53 20.68 0.1
 eS 53 25.76
 THE 0.51 280 ePc 53 22.92 -0.8
 iS 53 33.10
 SRS 0.58 357 ePc 53 24.20 -0.8
 eS 53 37.12
 PAIG 0.61 176 iPc 53 24.80 -0.9
 eS 53 33.48
 KNT 0.83 318 ePd 53 29.28 -0.1
 eS 53 41.24
 LIT 0.97 244 ePd 53 33.20 1.3
 eS 53 46.16
 MMB 1.05 4 iPg 53 33.00 -0.1
 KKB 1.39 343 iP 53 39.00 0.3
 RZN 1.41 35 eP 53 40.00 0.8
 S.D. = 0.8 on 10 of 10 obs.

NOV 12, 1990 11h 02m 47.48±0.62s
 41.343 N ± 6.6km 20.907 E ± 6.2km
 DEPTH = 5.0km (geophysicist)
 ALBANIA (391)
 ML 2.8 (SKO).

OHR 0.24 200 iPg 02 51.90 -0.6
 iSg 02 55.60
 FNA 0.66 147 ePd 02 59.44 -1.3
 SKO 0.74 32 iPg 03 00.90 -1.5
 0.3s 441.00nm
 iSg 03 10.50
 Lg 03 11.50
 GRG 1.19 108 ePc 03 09.53 -0.7
 VAY 1.25 90 ePn 03 11.40 0.2
 ULC 1.39 297 ePg 03 11.80 -1.7
 eSg 03 32.00
 PVY 1.43 331 ePg 03 13.50 -0.8
 eSg 03 35.50
 KNT 1.51 96 ePc 03 16.88 1.6
 eS 03 35.20
 TTG 1.64 312 ePg 03 17.30 0.3
 eSg 03 40.90
 LIT 1.73 135 eP 03 19.89 1.5
 BDV 1.82 302 ePn 03 21.00 1.4
 eSn 03 43.50
 IGT 1.86 194 ePc 03 23.56 3.3X
 eS 03 48.08
 NKY 2.04 317 ePn 03 24.50 1.5
 eSn 03 52.00
 S.D. = 1.4 on 12 of 13 obs.

? NOV 12, 1990 11h 05m 59.24±0.76s
 39.394 N ± 6.9km 27.715 E ± 8.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EDC 0.96 7 ePg 06 17.00 -0.5
 BNT 0.97 9 iPg 06 17.80 0.1
 eSg 06 31.30
 KCT 0.99 30 iPg 06 18.50 0.5
 IZM 1.06 200 iPg 06 19.10 -0.1
 eSg 06 33.10

EZN 1.16 292 ePn 06 21.00 0.2
 IZI 1.65 55 ePn 06 29.00 0.6
 YLV 1.73 47 ePn 06 28.80 -0.8
 S.D. = 0.6 on 7 of 7 obs.

% NOV 12, 1990 11h 10m 54.26±1.19s
 39.233 N ± 8.8km 27.741 E ± 14.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

IZM 0.91 204 ePn 11 11.60 -0.2
 EDC 1.12 5 ePn 11 14.00 -1.2
 KCT 1.12 25 iPn 11 16.30 1.0
 BNT 1.13 7 ePn 11 15.30 -0.1
 EZN 1.24 299 ePn 11 17.80 0.4
 S.D. = 1.2 on 5 of 5 obs.

NOV 12, 1990 11h 19m 50.66±0.13s
 36.403 N ± 3.5km 71.160 E ± 2.3km
 DEPTH = 235.9km (7 depth phases)
 5.0mb (83 obs.)

AFGHANISTAN-USSR BORDER REGION (717)
 Felt (III) at Deonasu, Dushanbe,
 Garm, Khorog, Lyangar and Regar;
 (II) at Dzhirgatal, Tashkent and
 Varzob, USSR. Also felt at
 Peshawar, Pakistan.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 23C
 Centroid Location:
 Origin Time 11:19:48.3 0.8
 Lat 35.92N 0.09 Lon 71.17E 0.08
 Dep 227.4 5.4 Half-duration 1.5
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr= 3.51 0.45 Mtt=-0.57 0.75
 Mff=-2.94 0.69 Mrt= 2.08 0.62
 Mrf= 3.80 0.69 Mtf=-3.07 0.74
 Principal Axes:
 T Vol= 5.35 Plg=67 Azm=289
 N 1.49 5 31
 P -6.84 23 123
 Best Double Couple: Mo=6.1*10¹⁶
 NP1: Strike=223 Dip=23 Slip= 103
 NP2: 29 68 85

KSH 4.88 50 iPd 21 04.00 -1.2
 S 22 01.00
 QUE 7.13 211 iPd- 21 34.00 0.3
 eS 22 23.80
 NDI 9.24 145 iPnd 21 58.60 -2.0
 0.6s 420.00nm 5.7mb
 eSn 23 22.00
 eSg 23 27.00
 MAIO 9.41 273 eP 22 01.00 -1.9
 0.9s 51.15nm 4.7mb
 eS 23 39.00
 GKN 14.14 122 P 23 00.60 -1.7
 WMQ 14.65 55 iPc 23 07.80 -0.6
 S 25 45.00
 DMN 14.71 123 P 23 08.20 -1.2
 KKN 14.72 122 P 23 07.80 -1.6
 PKI 14.94 122 P 23 11.00 -1.3
 GUN 15.06 120 P 23 12.00 -1.7
 TEH 16.01 273 ePc 23 27.00 2.1
 SHI 17.01 252 iPc 23 36.00 -0.1
 POO 17.96 172 iPc 23 48.00 1.9
 0.8s 149.25nm 5.5mb
 LSA 18.03 106 eP 23 48.40 1.2
 S 27 02.50
 HYB 20.01 159 eP 24 07.50 0.5
 1.0s 270.00nm 5.7mb
 i 24 35.00
 BEE 20.43 245 iPn 24 10.90 0.0
 (Sn) 27 47.40
 DHR 20.54 247 eP 24 12.80 0.7
 GTA 22.77 74 iPd 24 35.20 1.4
 0.8s 150.00nm 5.6mb
 sP 25 44.00
 GBA 23.39 164 Pc 24 40.20 0.5
 0.4s 62.40nm 5.5mb
 RYD 24.06 248 iP+ 24 46.00 -0.1
 eS 28 47.00
 MJMA 24.45 252 eP 24 49.60 0.0
 LZH 26.30 81 Pc 25 07.50 1.0
 1.5s 85.00nm 5.2mb

12d 11h

KOD	26.67	166	sP	26	17.00		VBY	42.43	300	iPd	27	25.30	1.7	PZZ	0.7s	43.00nm	4.9mb
			eP	25	11.40	1.2			i		29	12.80			48.30	300 P	28 08.10 -1.9
AFIF	27.00	251	eS	29	30.00		PRU	42.45	307 P		27	24.60	0.8	LPG	48.31	302 eP	28 10.00 -0.3
CD2	27.60	92	eP	25	15.30	2.4		1.4s	34.00nm				4.6mb		0.8s	24.20nm	4.6mb
	1.2s	1080.00nm		25	18.90	0.7	BRG	42.78	308 iP		29	45.20		LPL	48.32	302 iPc	28 10.10 -0.2
KMSA	28.25	243	iP+	25	23.10	-1.0		1.1s	62.00nm		27	26.20	-0.2		0.8s	30.90nm	4.7mb
KMI	29.25	104	Pc	25	33.50	0.4					27	27.50	4.9mb	RRL	48.42	301 P	28 10.87 -0.2
CHG	30.06	118	ePc	25	40.60	0.6					28	16.20	4 kmX	BNI	48.46	301 P	28 10.00 -1.3
	0.9s	21.64nm									29	13.40		DOU	48.80	308 Pc	28 14.30 0.7
BTO	30.53	70	P	25	44.50	0.5					30	21.20		SNF	48.92	309 P	28 15.10 0.6
PRNI	30.67	269	eP	25	47.00	1.7	LJU	42.85	301 eP		27	28.50	1.4	LBF	49.84	304 eP	28 20.60 -1.1
XAN	30.81	83	P	25	46.00	-0.5	KHC	43.15	306 eP		27	30.00	0.6		0.9s	13.10nm	4.4mb
	1.0s	100.00nm						e			28	21.20	243km	LOR	49.86	305 eP	28 20.50 -1.2
BDT	31.15	120	iPc	25	49.80	0.3	MGR	43.22	293 P		27	31.00	0.9	SMF	50.01	304 iPc	28 22.10 -0.8
	0.5s	44.80nm					HFS	43.22	322 eP		27	29.10	-0.7		0.9s	55.70nm	5.0mb
HHC	31.68	69	Pc	25	55.00	1.0		0.5s	74.50nm				5.3mb	SSF	50.14	305 eP	28 22.90 -1.0
	0.8s	100.00nm					Z	19s	0.17um				4.0MsZ		1.1s	28.10nm	4.6mb
GYA	31.72	98	P	25	54.60	0.0			LR		43	48.00		AVF	50.31	304 iPc	28 24.30 -0.8
			PcP	28	39.80		SGO	43.30	293 P		27	31.50	0.8		0.9s	51.60nm	5.0mb
			S	30	47.20		CLL	43.35	309 iP		27	31.90	0.9	BGF	50.70	304 iPc	28 27.20 -0.9
			ScP	32	01.20			1.4s	41.00nm				4.6mb		0.9s	18.00nm	4.5mb
			PcS	32	24.00				i		28	21.30	233km	MAF	50.97	304 iPc	28 29.90 -0.3
			ScS	35	56.80		TRO	43.41	336 eP		27	30.24	-1.0		0.9s	39.30nm	4.9mb
TIY	32.78	75	Pc	26	04.20	0.7	DUI	43.68	295 P		27	35.00	1.1	KKM	51.05	115 ePc	28 31.50 0.3
	0.8s	120.00nm					BHG	43.76	304 iPc		27	35.10	0.7		0.7s	43.10nm	5.0mb
ELL	32.95	283	iP	26	04.50	-0.6		0.8s	35.00nm				4.8mb	TCF	51.20	304 eP	28 31.20 -0.7
KHL	32.95	286	iP	26	04.90	-0.1	FVI	43.98	302 P		27	36.50	0.5		0.9s	36.05nm	4.8mb
MLR	34.94	299	ePd	26	22.50	0.6	HOF	44.14	308 eP		27	37.30	0.0	CAF	51.66	302 eP	28 35.00 -0.3
NNT	34.95	125	iPc	26	22.30	0.3	MOX	44.28	308 eP		27	39.00	0.6		0.9s	25.40nm	4.7mb
AMAN	35.09	260	eP	26	24.00	0.9		1.2s	55.00nm				4.8mb	LSF	51.66	304 eP	28 34.10 -1.2
AKSR	35.17	260	eP	26	24.50	0.7	VVI	44.32	301 P		27	39.50	0.7		0.9s	34.40nm	4.8mb
BJI	35.27	70	eP	26	25.00	0.5	MDJ	44.34	61 eP		27	39.00	0.1	RJF	51.93	303 eP	28 36.90 -0.4
	0.9s	110.00nm						PcP		29	18.50			0.9s	16.40nm	4.5mb	
			ePcP	28	50.00		AZI	44.36	296 P		27	41.00	1.9	LDF	52.14	307 eP	28 37.70 -1.1
			eS	31	44.00		ARV	44.40	298 P		27	40.00	0.6		1.0s	36.00nm	4.8mb
			eScP	32	12.50		NB2	44.54	323 P		27	39.30	-1.0	FLN	52.33	307 eP	28 39.00 -1.1
			ePcS	32	37.00			0.5s	35.00nm				5.0mb		0.7s	15.95nm	4.6mb
			esS	33	05.00		GRF	44.62	307 ePc		27	42.30	1.2	EKA	52.45	316 Pd	28 41.10 0.2
AVRL	35.40	260	iPd	26	28.00	2.2		1.6s	110.00nm				5.0mb	LFF	52.56	303 eP	28 41.30 -0.5
AGAL	35.42	259	iPd	26	27.50	1.5			e		28	03.10	86kmX		0.9s	39.30nm	4.9mb
AGMR	35.60	260	eP	26	31.00	3.6X			e		28	57.80		GRR	52.67	307 eP	28 41.50 -1.1
WHN	36.27	86	iPd	26	35.20	2.2			e		27	43.00	1.2		0.8s	22.85nm	4.7mb
	1.2s	100.00nm					ASS	44.69	297 P		27	43.00	1.2	MFF	52.68	305 eP	28 41.60 -1.1
			PcP	28	53.50		LOF	44.79	333 eP		27	41.25	-0.9		0.9s	22.95nm	4.7mb
TIA	36.77	76	Pd	26	39.50	2.3	MNS	44.82	296 P		27	43.50	0.7	MAT	52.87	68 eP	28 44.00 -0.3
			PcP	28	54.80		CTI	44.84	302 P		27	42.90	-0.1		0.7s	28.77nm	4.9mb
VAY	37.76	293	eP	26	47.80	2.4	CRE	45.08	298 P		27	47.00	2.1	LPF	52.88	307 eP	28 42.80 -1.3
NUR	37.98	324	iP	26	47.00	0.0	SFI	45.09	299 P		27	45.00	0.2	IIDJ	53.04	70 P	28 44.50 -1.1
	0.6s	108.20nm					OGA	45.13	303 eP		27	45.30	-0.1	EPF	53.41	300 eP	28 47.20 -1.0
SUF	38.07	328	iP	26	47.60	-0.1		0.7s	24.00nm				4.7mb		0.5s	6.55nm	4.4mb
	0.5s	46.20nm					PGD	45.19	299 P		27	46.90	1.0	CHJJ	53.64	69 P	28 47.80 -2.2
SKO	38.50	294	iP	26	51.70	0.2	PPI	45.63	137 ePc		27	49.00	-0.4	BTH	53.76	301 P	28 49.90 -0.8
KRA	38.97	307	eP	26	55.20	-0.1		0.7s	120.90nm				5.4mb			pP	29 41.00 230km
			i	27	02.30	24kmX	BDI	45.95	299 P		27	52.00	0.3			PcP	29 47.50
				27	16.70		SAX	46.20	304 ePd		27	53.60	-0.4			PP	30 25.20
PSZ	39.03	304	e(P)	26	57.00	1.0	VDL	46.25	303 ePd		27	54.40	0.1	KAKJ	54.47	68 P	28 54.60 -1.3
NJ2	39.36	82	Pc	26	59.00	0.3	MOL	46.39	325 eP		27	54.53	-0.3	ETA	54.82	313 eP	29 02.70 4.5X
	1.0s	100.00nm					LLS	46.50	303 ePd		27	55.00	-1.2	ECP	55.05	313 eP	28 58.80 -1.1
			PcP	29	01.50		BOB	46.60	300 P		27	58.00	1.1		0.8s	47.00nm	5.1mb
SOD	39.88	335	iP	27	02.50	0.0	SLE	46.68	305 ePd		27	57.10	-0.3	ECRI	55.53	301 eP	29 04.00 0.4
SRO	40.10	303	eP	27	05.30	0.7	TMA	46.73	302 ePd		27	57.00	-1.0	EVIA	56.97	296 eP	29 14.20 0.4
			e	27	56.40	245km	ZLA	46.80	304 ePd		27	57.70	-0.7	AKU	57.17	330 iP	29 16.20 1.5
			i	28	19.00		VAI	46.85	302 P		27	58.00	-0.6		0.7s	16.44nm	4.8mb
SNY	40.51	66	Pc	27	08.00	0.0	ABH	46.96	308 eP		28	00.62	1.1	GUD	57.38	299 eP	29 16.00 -0.7
	0.8s	100.00nm					PCP	47.28	300 P		28	02.15	0.0	VAL	57.41	313 eP	29 16.00 -0.5
ZST	40.89	304	eP	27	12.60	1.5	MMK	47.36	302 ePd		28	03.20	0.3	TOL	57.60	298 iPd	29 19.50 1.4
			e	28	28.60	390kmX	CDF	47.37	306 eP		28	02.50	-0.3		1.0s	80.00nm	5.3mb
KEV	40.94	338	iP	27	10.60	-0.6		0.7s	6.60nm				4.1mb	EPLA	58.96	299 eP	29 27.00 -0.5
	0.7s	46.70nm					PGF	47.43	297 eP		28	02.40	-0.9	IFR	61.02	292 iP	29 40.50 -1.2
UPP	41.23	322	iP	27	13.30	-0.3		0.6s	14.45nm				4.5mb	KRI	65.90	224 iPc	30 07.00 -6.5X
			i	27	14.30	3kmX	ORX	47.44	302 P		28	01.43	-1.9			iPc	30 47.50 170kmX
KSP	41.30	308	eP	27	14.70	0.3	FIN	47.59	300 P		28	04.20	-0.3	BRW	67.36	15 eP	30 22.10 0.3
			e	29	00.00		DIX	47.73	302 ePd		28	05.50	-0.3	MBC	67.43	3 ePc	30 21.90 -0.2
CN2	41.54	62	iPd	27	16.80	0.4	BSF	47.80	305 iPc		28	05.40	-0.7		0.5s	118.00nm	5.9mb
	1.0s	40.00nm						0.7s	37.50nm				4.9mb	BUL	69.13	223 iPc	30 28.60 -4.9X
SSE	41.56	82	P	27	18.00	1.3	ROB	47.81	300 P		28	06.87	0.7	IMA	72.18	18 eP	30 50.70 -0.4
	1.0s	120.00nm					MEM	47.83	309 P		28	06.70	0.6		0.8s	62.30nm	5.4mb
			eS	33	17.00		RSP	48.04	301 P		28	06.25	-1.8			e	31 46.20 236km
			eScS	36	52.00		LSO	48.04	302 P		28	08.10	-0.1	MBL	73.43	133 iPd	30 58.80 0.0
KTK1	41.76	336	iPc	27	17.59	-0.3	HAU	48.06	305 eP		28	07.40	-0.6		0.4s	25.00nm	5.3mb
IPM	41.90	132	ePc	27	21.90	2.3		0.7s	22.05nm				4.6mb	LKO	73.76	270 P	30 58.22 -2.8
	0.7s	43.10nm					EMS	48.06	303 ePd		28	07.80	-0.4		0.5s	17.00nm	5.0mb
			e	28	35.80	375kmX	BHB	48.10	301 P		28	06.97	-1.4	SLR	73.85	220 iPd	31 02.30 1.0
HVAR	41.94	297	eP	27	19.50	-0.2	ENR	48.14	300 P		28	08.30	-0.5		1.0s	25.00nm	4.9mb
BSD	42.17	315	iPd	27	21.90	0.5	STV	48.20	300 P		28	07.07	-2.2			i	31 57.30 233km
	0.9s	5															

INK 73.98 9 eP 31 01.50 0.2
ADK 74.03 37 P 31 02.00 0.1
0.7s 144.77nm 5.8mb
TTA 74.07 20 ePc 31 02.80 0.7
1.0s 53.70nm 5.2mb
EVA 74.08 219 iPc 31 01.90 -0.8
0.6s 30.00nm 5.2mb
FBA 74.53 16 P 31 04.50 0.0
e 31 59.00 230km
KIC 74.91 267 P 31 05.98 -1.5
0.5s 20.00nm 5.1mb
TIC 74.97 267 P 31 06.14 -1.7
0.5s 15.00nm 5.0mb
KNA 75.12 123 eP 31 08.40 -0.1
0.5s 87.00nm 5.7mb
LIC 75.22 267 P 31 07.68 -1.6
0.5s 16.00nm 5.0mb
SEK 76.30 219 iPd 31 14.40 -0.8
0.4s 38.14nm 5.5mb
PMR 77.02 19 eP 31 18.90 0.4
0.9s 66.30nm 5.4mb
TOA 77.31 17 ePc 31 21.20 1.0
MRWA 77.69 141 iPd 31 21.80 -0.8
0.5s 5.00nm 4.5mb
SDN 78.52 27 eP 31 26.60 -0.1
BAL 79.18 141 eP 31 29.80 -0.8
HVD 79.23 219 iPc 31 30.00 -1.1
KDC 79.30 22 eP 31 31.70 0.8
MUN 80.04 142 eP 31 34.50 -0.6
KLB 80.50 141 iPc 31 36.80 -0.8
WARB 81.29 131 eP 31 42.30 0.5
NWA0 81.31 142 eP 31 41.00 -0.7
YKA 81.34 3 eP 31 41.70 0.2
0.5s 26.50nm 5.2mb
COOL 81.71 138 eP 31 43.50 -0.4
WB5 81.81 122 iPc 31 43.80 -0.8
SCH 82.23 337 eP 31 47.00 0.6
ASPA 84.09 125 iPc 31 55.30 -0.9
0.7s 150.00nm 5.9mb
eS 41 52.10
SIT 84.24 14 eP 31 58.30 1.9
PMG 84.45 106 eP 31 58.00 -0.1
FORR 85.58 134 iPd 32 03.30 0.0
0.4s 75.00nm 5.9mb
OIS 85.90 119 iPd 32 04.60 -0.6
0.2s 17.00nm 5.5mb
FFC 89.05 356 iPd 32 20.90 1.1
1.0s 71.00nm 5.6mb
EDM 90.66 3 iPc 32 28.60 1.3
PNT 94.12 7 eP 32 44.00 0.7
ADE 94.82 130 iPc 32 47.00 0.5
SPA 126.22 180 iPKPc 38 25.20 -0.4
1.0s 30.00nm
SIV 133.10 283 PKP 38 34.60 -5.4X
i 38 40.20
ZOBO 138.75 288 PKP 38 41.00 -10.4X
CNCB 138.96 287 PKP 38 40.00 -11.7X
i 38 53.00
ANT 144.64 280 iPKP 39 00.50 -0.2
FCH 148.36 264 ePKP 39 08.50 1.5
PCH 148.62 264 iPKPc 39 11.50 4.4X
PEL 148.62 265 iPKPc 39 09.00 1.9
ROCH 148.84 265 iPKPd 39 12.30 4.7X
LNV 149.43 263 ePKPd 39 09.00 0.8
S.D. = 1.0 on 211 of 220 obs.

NOV 12, 1990 11h 28m 45.15 ± 1.32s
37.724 N ± 9.2km 20.937 E ± 10.5km
DEPTH = 10.6 ± 3.5 km
IONIAN SEA (399)
ML 3.4 (ATH).

VLS 0.53 329 ePg 28 56.40 0.5
ITM 0.96 124 ePg 29 02.40 -0.9
EVR 1.37 30 ePn 29 12.40 2.1
AGG 1.70 40 iPd 29 16.73 1.8
eS 29 39.68
IGT 1.87 346 iPd 29 17.24 -0.1
eS 29 48.20
VLI 1.89 122 ePb 29 17.90 0.3
KEK 2.18 336 ePg 29 27.20 5.4X
ATH 2.21 83 ePb 29 23.90 1.5
NEO 2.39 48 ePn 29 24.50 -0.4
KZN 2.66 14 ePn 29 29.70 0.9
LIT 2.67 27 ePc 29 29.16 0.3
PAIG 3.07 43 ePd 29 33.40 -1.1
eS 30 10.04

FNA 3.08 6 ePd 29 34.57 0.0
iS 30 12.10
PLG 3.29 36 ePn 29 37.20 -0.5
THE 3.30 28 iPc 29 37.69 -0.1
eS 30 17.98
GRG 3.42 19 ePc 29 39.00 -0.5
eS 30 21.05
SOH 3.62 30 ePc 29 42.21 -0.1
eS 30 23.68
KNT 3.75 23 ePc 29 44.12 -0.2
eS 30 27.72
VAY 3.81 19 ePn 29 44.30 -0.7
SRS 3.96 30 iPd 29 46.68 -0.5
MMB 4.42 28 iPd 29 53.00 -0.7
KKB 4.46 21 eP 29 53.00 -1.2
VTS 5.16 19 iP 30 04.00 -0.4
S.D. = 1.0 on 22 of 23 obs.

NOV 12, 1990 11h 54m 56.87 ± 0.66s
35.078 N ± 7.3km 27.098 E ± 5.5km
DEPTH = 62.6 ± 7.9 km
4.0mb (8 obs.)
DODECANESE ISLANDS (369)
MD 4.0 (ATH).

KAP 0.48 8 iPbd 55 06.90 -2.1
NPS 1.23 279 iPbc 55 22.00 3.6X
ARG 1.41 36 ePb 55 22.60 1.8
KSL 2.28 62 ePn 55 33.90 1.1
APE 2.36 328 ePn 55 33.90 -0.1
VAM 2.39 279 ePn 55 38.30 3.8X
SMG 2.63 355 ePn 55 38.30 0.5
CIN 2.64 17 eP 55 38.00 0.1
IZM 3.32 2 ePn 55 44.00 -3.5X
BCK 3.69 49 ePn 55 52.00 -0.8
VLI 3.75 297 ePn 55 54.20 0.6
KHL 3.78 30 ePn 55 52.90 -1.1
ITM 4.68 298 ePn 56 07.00 0.3
EZN 4.78 353 ePn 56 08.30 0.3
EVR 5.71 314 ePn 56 23.90 2.7X
VAY 7.18 332 ePn 56 44.40 2.9X
DSI 7.76 114 eP 56 50.00 0.4
OHR 7.80 322 ePn 56 53.00 2.8X
MKT 7.92 119 eP 56 52.00 0.2
eS 58 13.00
PRNI 8.16 123 eP 56 54.50 -0.6
LPG 18.64 310 eP 59 13.10 0.9
LPL 18.66 310 eP 59 13.50 1.1
CDF 19.83 318 eP 59 25.00 -0.1
SMF 20.96 311 eP 59 36.10 -0.6
0.3s 2.75nm 4.1mb
LBF 21.03 311 eP 59 36.30 -1.1
0.5s 2.90nm 3.9mb
LOR 21.22 312 eP 59 38.90 -0.4
0.7s 3.85nm 3.9mb
AVF 21.33 310 eP 59 39.80 -0.5
0.5s 2.20nm 3.8mb
SSF 21.35 311 eP 59 39.80 -0.8
0.5s 5.85nm 4.2mb
BGF 21.55 310 eP 59 42.30 -0.3
0.5s 4.00nm 4.1mb
MAF 21.60 308 eP 59 43.60 0.5
TCF 21.85 308 eP 59 45.70 0.1
RJF 21.97 305 eP 59 47.30 0.6
0.5s 2.90nm 4.0mb
LDF 24.21 312 eP 00 08.50 -0.1
FLN 24.50 312 eP 00 11.30 0.0
0.7s 6.60nm 4.2mb
S.D. = 0.8 on 28 of 34 obs.

? NOV 12, 1990 12h 19m 59.27 ± 5.07s
39.616 N ± 37.4km 29.538 E ± 18.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

YLV 0.96 352 ePg 20 17.20 -0.4
iSg 20 32.20
EYL 1.06 26 iPn 20 18.80 -0.5
KCT 1.11 305 iPn 20 19.40 -0.7
HRT 1.21 5 iPn 20 22.30 0.5
BNT 1.45 301 ePn 20 25.80 0.3
ISK 1.49 346 iPn 20 26.80 0.7
S.D. = 0.7 on 6 of 6 obs.

NOV 12, 1990 12h 23m 01.43 ± 1.99s
31.106 N ± 12.7km 141.739 E ± 14.5km

DEPTH = 54.7 ± 16.3 km
4.7mb (4 obs.)
SOUTH OF HONSHU, JAPAN (211)

KAKJ 5.25 346 P 24 18.20 -1.0
eS 25 16.20
IIDJ 5.41 325 P 24 23.90 2.3
CHJJ 5.43 336 P 24 21.30 -0.6
eS 25 20.50
MAT 6.17 333 eP 24 32.00 -0.1
0.5s 23.24nm 4.9mb X
(S) 25 41.00
MTMJ 6.37 330 P 24 35.80 0.8
NIJJ 6.52 340 P 24 35.90 -1.2
eS 25 49.90
CN2 18.07 319 eP 27 09.40 -0.6
BJI 22.56 300 eP 27 58.00 0.1
1.5s 39.00nm 4.6mb
TIY 25.00 293 eP 28 22.00 0.4
XAN 27.75 285 P 28 46.50 -0.4
GTA 34.97 295 eP 29 50.20 -0.2
1.0s 10.00nm 4.7mb
WB5 51.18 189 eP 32 01.10 -0.2
FBA 54.04 30 P 32 23.00 1.0
ASPA 54.98 189 eP 32 29.30 -0.1
0.5s 5.80nm 4.9mb
GBA 61.20 269 P 33 14.00 0.9
NB2 79.76 338 P 35 06.00 1.2
0.6s 0.90nm 3.9mb
KVT 80.73 312 iP 35 09.20 -1.1
RYD 81.72 294 eP 35 14.50 -1.3
QASM 83.41 296 eP 35 24.70 0.2
S.D. = 1.0 on 19 of 19 obs.

NOV 12, 1990 12h 28m 51.52 ± 0.11s
42.959 N ± 2.9km 78.071 E ± 1.9km
DEPTH = 19.1km (geophysicist)
5.9mb (95 obs.) 6.3Msz (25 obs.)
ALMA-ATA REGION (330)

Ms 6.1 (PAS). Mo=3.0*10**18 Nm
(PPT). Felt (VII) at Kurmety;
(VI) at Ananyev and Przhvolsk;
(V) at Alma-Ata and Rybochye;
(IV) at Frunze; (II) at
Toshkent. Also felt at Aksu,
Kashi, Kuqa and Wushi, China.
Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=200 Dip=76 Slip= 24
NP2: 104 67 165
Principal Axes:
T P1g=27 Azm= 64
P 6 331
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 sta: 6 Focal mech. C
Energy 6.1±2.3*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 19 No. of sta: 16
Moment Tensor: Scale 10**18 Nm
Mrr= 0.43 Mtt=-4.06
Mff= 3.63 Mrt= 0.10
Mrf=-0.76 Mtt=-3.37

Principal axes:
T Val= 5.02 P1g= 9 Azm= 70
N 0.31 81 239
P -5.34 2 339
Best Double Couple: Mo=5.2*10**18
NP1:Strike=114 Dip=82 Slip= 175
NP2: 205 85 8
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 53C M.W.: 3S, 5C
Centroid Location:
Origin Time 12:28:58.6 0.3
Lat 43.18N 0.04 Lon 78.24E 0.05
Dep 15.0 BDY Half-duration 6.0
Moment Tensor: Scale 10**18 Nm
Mrr= 0.62 0.06 Mtt=-2.41 0.08
Mff= 1.78 0.07 Mrt= 0.76 0.25

12d 12h

Mrf=-1.75 0.19 Mtf=-1.66 0.07				Z 16s 21.60um 5.8MszX				SALJ 35.03 266 Pc 35 53.56 8.5X			
Principal Axes:				N 14s 49.10um				GZH 35.25 113 P 35 46.00 -0.8			
T Vol= 3.59 Plg=33 Azm= 70				E 14s 36.60um				6.0s 2000.00nm 6.2mb X			
N -0.60 57 256				S				Z 22s 55.50um 6.3Msz			
P -2.99 3 162				BJI 28.53 83 ePc 34 47.50 -0.2				N 13s 34.40um			
Best Double Couple: Mo=3.3*10**18				GBA 29.25 181 Pd 34 52.50 -1.9				E 10s 13.70um			
NP1:Strike=211 Dip=65 Slip= 23				1.1s 168.10nm 5.7mb				S			
NP2: 111 70 154				HIA 29.28 63 iPc 34 54.85 0.4				MKRJ 35.30 265 Pc 35 47.54 0.3			
				eS 39 44.99 -0.8				GHZJ 35.30 264 Pc 35 49.06 1.7			
TLG 0.59 302 iPd 29 02.80 -0.3				OBN 29.33 309 iPd 34 54.00 -0.8				CSS 35.35 272 eP 35 47.80 0.2			
iS 29 10.80				1.6s 360.00nm 5.9mb				IAS 35.41 295 eP 35 48.00 0.0			
FRU 2.54 268 iPd 29 34.00 1.4				Z 11s 80.00um 6.6MszX				EYL 35.44 283 iP 35 46.80 -1.7			
iS 30 08.00				iS 39 46.00				DSI 35.48 266 iPc 35 49.90 1.2			
KSH 3.84 205 iPnc 29 54.00 3.0				CHG 29.84 137 iPd 34 59.40 -0.4				LISJ 35.57 265 Pd 35 50.81 1.3			
Sn 30 40.00				1.0s 37.50nm 5.2mb				NNT 35.60 142 iPd 35 49.40 -0.4			
WMO 7.06 80 ePc 30 37.45 0.9				eS 40 12.00				HRT 35.70 283 iP 35 50.80 0.2			
DSH 8.31 241 iPc 30 53.00 -1.0				CHTO 29.84 137 ePc 35 00.39 0.6				TLB 35.71 290 ePc 35 51.00 0.5			
eS 32 31.00				epPd 35 06.35 21kmX				SUF 35.78 322 iP 35 50.50 -0.4			
NDI 14.26 183 iPd 32 11.00 -3.5X				TIA 30.64 89 Pc 35 08.00 1.4				0.8s 38.00nm 5.4mb			
1.0s 720.00nm 6.3mb				7.0s 3100.00nm 6.3mb X				QIZ 35.86 122 eP 35 52.50 0.5			
eS 34 40.50				Z 22s 37.90um 6.0Msz				N 19s 70.80um			
QUE 15.54 219 iPc+ 32 28.10 -3.3X				N 11s 19.50um				E 19s 130.00um			
eS 35 57.00				E 11s 28.70um				pP 36 00.00 25kmX			
MAIO 15.77 251 iPc+ 32 29.00 -5.2X				eS 40 11.00				PP 37 16.00			
1.0s 125.00nm 5.1mb				BDT 31.21 139 eP 35 10.90 -0.9				eS 41 27.00			
eS 35 30.00				1.0s 72.50nm 5.5mb				PSN 35.86 289 iPd 35 53.00 1.2			
GKN 15.84 158 Pd 32 32.40 -2.8				WHN 31.36 101 iPc 35 14.50 1.5				GBZT 35.87 284 iPc 35 52.20 0.2			
KKN 16.23 157 Pd 32 37.80 -2.4				5.0s 3000.00nm 6.4mb X				YLV 36.00 283 eP 35 53.20 0.0			
GUN 16.29 155 Pd 32 39.20 -2.0				Z 16s 25.00um 6.0MszX				IZI 36.01 283 eP 35 53.00 -0.2			
DMN 16.35 157 Pd 32 39.59 -2.2				N 14s 39.70um				KMSA 36.02 242 eP 35 52.50 -1.0			
PKI 16.47 156 Pd 32 41.30 -2.1				E 12s 37.70um				SSE 36.03 95 iPc 35 54.00 0.6			
GTA 16.74 95 iPc 32 44.00 -2.6				pP 35 20.50 21kmX				4.0s 3200.00nm 6.6mb X			
4.0s 5350.00nm 6.0mb X				iS 40 22.00				Z 20s 29.10um 6.0Msz			
Z 15s 134.00um 4.3MszX				SIM 31.42 289 eP 35 14.00 0.6				N 13s 44.70um			
E 12s 147.00um				iS 40 18.00				E 11s 5.70um			
pP 32 50.00				LOE 32.45 134 eP 35 22.00 -0.6				iS 41 34.00			
SS 36 05.00				KAS 32.60 283 iPc 35 25.20 1.4				ISK 36.06 284 iP 35 54.80 1.3			
LSA 16.89 137 Pd 32 50.80 2.0				KOD 32.60 181 iPd 35 23.60 -0.8				ITU 36.07 284 eP 36 00.00 6.4X			
N 12s 47.90um				0.8s 134.33nm 5.9mb				PPCY 36.11 273 eP 35 54.30 0.3			
E 12s 40.60um				eS 40 40.00				NUR 36.24 318 iP 35 55.20 0.4			
S 35 58.00				DL2 32.88 82 P 35 26.00 -0.2				1.0s 152.00nm 5.8mb			
LZH 20.98 100 iPc 33 37.08 0.9				8.0s 3300.00nm 6.3mb X				e 37 00.00 321kmX			
eS 37 27.78				Z 16s 28.50um 6.1MszX				e 41 34.00			
CD2 23.70 112 iPc 34 05.30 2.4				N 16s 47.50um				PTT 36.25 295 eP 35 56.50 1.4			
6.0s 5830.00nm 6.3mb X				E 16s 43.00um				VRJ 36.28 293 ePc 35 46.00 -9.3X			
Z 12s 64.80um 6.3MszX				S 40 47.00				BCK 36.29 278 eP 35 54.00 -1.6			
E 10s 48.90um				NST 33.10 139 eP 35 29.50 1.2				HKC 36.34 113 iP 35 58.00 2.0			
BTO 23.87 85 iPc 34 06.00 1.4				SNY 33.32 76 iPc 35 30.00 0.0				CTT 36.48 285 iP 35 58.20 1.1			
5.0s *****nm 6.8mb X				7.0s 3400.00nm 6.4mb X				SOD 36.57 329 iP 35 56.60 -0.9			
N 13s 62.90um				Z 14s 67.70um 6.5MszX				ISR 36.59 292 ePd 36 00.00 2.0			
E 13s 43.40um				E 12s 48.10um				CVO 36.66 293 ePd 36 00.00 1.4			
pP 34 11.50 20kmX				iS 40 46.00				KHL 36.72 280 iP 35 59.40 0.2			
ePP 34 42.00				PUL 33.34 317 iPc 35 30.00 0.0				MDJ 36.73 69 iPc 35 59.40 0.3			
TAB 24.54 269 iPc+ 34 15.00 3.8X				iS 40 49.00				1.7s 600.00nm 6.2mb			
POO 24.61 190 iPd 34 12.60 0.8				UOSK 33.78 251 eP 35 34.60 0.3				Z 12s 36.20um 6.4MszX			
0.9s 142.86nm 5.6mb				ANTO 33.79 280 ePc 35 35.19 1.0				N 10s 35.80um			
HHC 24.93 83 iPc 34 15.20 0.4				epPd 35 40.32 18kmX				E 13s 37.50um			
7.0s 8100.00nm 6.5mb X				ePP 36 47.11				pP 36 04.20 16kmX			
Z 18s 68.90um 6.2Msz				e 37 31.64				sP 36 08.50			
N 12s 32.90um				ePcP 38 18.23				PP 37 20.00			
E 12s 39.20um				BBTK 33.82 280 iPc 35 37.00 2.4				S 41 39.00			
PP 34 56.00				NJ2 33.84 95 iPc 35 35.00 0.4				DMK 36.73 286 iP 35 59.50 0.3			
S 38 34.00				5.5s 2400.00nm 6.3mb X				MBH 36.79 264 iPc 36 01.30 1.4			
HYB 25.46 179 iPd 34 19.20 -0.7				Z 16s 23.20um 6.0MszX				MLR 36.90 292 iPd 36 03.00 2.2			
1.0s 405.00nm 6.0mb				N 14s 47.30um				HOL 36.94 263 iP+ 36 02.00 0.9			
i 34 50.00 150kmX				E 12s 22.40um				ELL 37.08 277 iP 36 02.00 -0.3			
iS 38 46.00				iS 41 00.00				BUC 37.09 291 ePd 36 06.00 3.8X			
BKR 25.47 279 iPc 34 22.00 2.0				CN2 34.08 72 iPc 35 36.90 0.3				BNT 37.11 284 iP 36 03.80 1.4			
iS 38 58.00				5.0s 3400.00nm 6.5mb X				KEV 37.14 333 iP 36 00.00 -2.3			
KER 25.55 261 ePc 34 22.50 1.7				Z 16s 88.00um 6.6MszX				e 37 28.00 466kmX			
XAN 25.62 100 iPc 34 21.50 0.2				N 12s 30.00um				e 41 48.00			
1.2s 500.00nm 6.0mb				E 12s 43.50um				EDC 37.16 284 eP 36 03.00 0.2			
TIY 26.59 90 iPc 34 31.00 0.7				pP 35 45.00 28kmX				JMB 37.34 287 iP 36 06.00 1.7			
Z 14s 51.70um 6.2MszX				PP 36 50.00				BADA 37.39 262 iP+ 36 06.00 1.2			
N 22s 247.00um				S 40 58.00				MTUR 37.57 292 ePc 36 08.50 2.2			
E 20s 149.00um				SS 43 04.00				CMP 37.58 292 iPc 36 03.00 -3.3X			
S 39 02.50				BHL 34.13 269 Pc 35 36.00 -1.3				KSL 37.58 276 eP 36 05.50 -0.9			
KMI 26.94 123 ePc 34 35.13 1.3				S 41 06.00				WAJH 37.63 257 eP 36 07.60 0.7			
eS 39 10.60				iS 41 01.90				QZH 37.69 105 iPc 36 07.00 -0.3			
i 39 23.67				APA 34.19 331 iPd 35 36.70 -0.6				6.0s 2000.00nm 6.1mb X			
BBU 28.03 242 (P) 34 42.30 -1.1				AFIF 34.31 248 iP+ 35 42.00 3.1X				Z 15s 42.30um 6.4MszX			
0.6s 199.00nm 6.0mb				HRI 34.37 268 iPc 35 40.40 1.0				N 16s 51.40um			
BEE 28.13 242 iP 34 43.20 -1.1				PCT 34.58 138 eP 35 43.00 1.9				E 16s 39.80um			
0.7s 117.00nm 5.7mb				JARJ 34.73 266 Pc 35 43.75 1.4				PP 37 40.00			
DHR 28.18 243 eP 34 45.00 0.3				CSTJ 34.77 264 Pc 35 44.00 1.3				S 41 56.00			
GYA 28.51 116 iPc 34 48.80 0.9				MDSJ 34.81 265 Pc 35 44.61 1.5				PVL 37.98 289 iPd 36 11.00 1.4			
1.2s 200.00nm 5.7mb								TNR 37.99 293 ePc 36 11.00 1.2			

BMR	38.00	297	ePc	36	15.00	5.3X	BSD	41.74	310	iPc	36	41.00	0.4	S	43	32.00				
COZ	38.04	293	ePd	36	12.00	1.7		1.0s	158.00nm			5.7mb	VBY	44.06	296	ePd	36	59.50	-0.1	
KTK1	38.21	332	eP	36	09.61	-1.7			i	38	22.00	569kmX	HVAR	44.09	292	iPd	36	59.00	-0.9	
DIM	38.22	287	iPd	36	13.00	1.4	VAM	41.82	278	eP	36	41.20	-0.3	LCI	44.16	288	P	36	59.80	-0.7
ALN	38.25	285	ePc	36	13.04	1.1	KSP	41.82	303	iPc	36	41.50	0.1	MOL	44.34	321	eP	37	01.18	-0.5
Izm	38.32	281	iP	36	13.10	0.4		1.2s	149.00nm			5.6mb	LJU	44.35	297	eP	37	02.00	0.0	
KDZ	38.44	287	iP	36	15.00	1.5			i	36	43.20	6kmX	WET	44.41	302	eP	37	01.60	-0.9	
EZN	38.45	283	iP	36	14.30	0.7			iPP	38	17.50				iS	43	42.00			
RDO	38.53	286	eP	36	14.50	0.3	IVA	41.85	291	eP	36	43.20	1.4	CEY	44.53	297	eP	37	03.00	-0.5
UZH	38.55	298	iPd	36	17.00	2.6	OHR	41.87	288	iP	36	41.70	-0.2	BAI	44.60	289	P	37	04.00	-0.1
			iS	42	13.00			1.1s	71.00nm			5.3mb	HOF	44.68	303	eP	37	05.90	1.3	
ARG	38.60	277	eP	36	15.20	0.2			iPP	38	21.20			1.0s	41.00nm			5.3mb		
PRK	38.70	283	eP	36	16.20	0.4	PVY	41.90	290	eP	36	44.40	2.2	TSRJ	44.69	79	P	37	05.40	0.6
PLD	38.78	288	iP	36	17.00	0.6	AKRL	41.93	258	iPd	36	43.70	1.2	RIY	44.69	296	ePc	37	05.30	0.6
SMG	38.91	280	eP	36	18.20	0.7	AGAL	41.99	257	iPd	36	44.50	1.5	MOX	44.74	304	eP	37	05.00	-0.1
RZN	38.91	287	iP	36	18.00	0.2	ZST	42.01	299	eP	36	42.50	-0.4		1.2s	203.00nm		5.9mb		
KOT	38.94	266	eP	36	16.50	-1.3			i	36	44.30	6kmX		Z	12s	37.60um		6.5MsZ	X	
PGB	39.01	288	iP	36	19.00	0.7			i(PP)	38	25.70			N	15s	61.40um				
HLW	39.33	266	eP	36	22.00	0.9			e	46	13.10			E	14s	39.50um				
KAP	39.59	277	eP	36	23.50	0.3	EVR	42.02	284	eP	36	43.10	-0.2	YSS	44.74	61	iPc	37	06.00	0.9
ANP	39.62	102	eP	36	26.00	2.3	VLI	42.15	281	eP	36	42.40	-1.8			eS	43	44.00		
			eS	42	20.00		TTG	42.45	290	eP	36	47.80	1.3	KBA	44.77	299	iPc	37	05.10	-0.5
MMB	39.64	287	iPc	36	35.00	11.4X			eS	43	10.00			1.1s	135.00nm			5.8mb		
VTS	39.66	289	iPd	36	25.00	1.1	NKY	42.49	291	eP	36	48.00	1.0			i	37	06.20	4kmX	
TATO	39.73	103	iPc	36	26.38	2.0	VKA	42.49	299	iPc	36	47.90	1.0			i	37	13.70		
			ePc	36	32.34	20kmX			5.0s	1866.00nm		6.1mb X	VOY	44.77	297	eP	37	05.20	-0.4	
			iPP	38	02.96		Z	12s	28.70um			6.4MsZ	KLM	44.90	146	eP	37	07.20	0.5	
KRA	39.74	301	eP	36	23.50	-0.7				36	48.90	3kmX	TRI	44.97	297	ePd	37	05.70	-1.3	
	1.0s	372.00nm			6.0mb				i	38	09.80				ePP	39	02.00			
Z	18s	27.00um			6.1MsZ				i	38	26.00				e	40	44.00			
E	18s	47.70um							i	39	08.00				e	41	28.00			
			i	36	25.70	7kmX			i	40	16.60				eS	43	46.00			
			i	36	30.30		ULC	42.63	290	eP	36	48.50	0.4	HYA	45.21	320	eP	37	10.00	1.4
			i	36	32.30		ITM	42.67	282	eP	36	47.20	-1.3	BLS2	45.21	317	eP	37	10.50	1.6
			e	36	35.00		SHK	42.76	82	ePc	36	49.60	0.3	GRF	45.27	303	ePd	37	09.80	0.4
UPP	39.74	317	iP	36	25.00	0.9	BRY	42.77	291	eP	36	50.10	0.7		0.9s	211.00nm		6.1mb		
			i	36	31.70	23kmX	BDV	42.80	290	eP	36	48.50	-1.0	Z	20s	26.00um		6.2MsZ		
TRO	39.84	332	eP	36	24.02	-0.8	NB2	42.81	319	P	36	48.30	-1.1			e	37	18.80	30kmX	
SRS	39.91	287	ePc	36	26.36	0.6	IGT	42.82	286	iPd	36	54.78	5.1X			e	37	24.00		
OUR	39.92	285	ePc	36	27.48	1.6	Hcy	42.96	291	eP	36	51.30	0.5			eS	43	50.00		
KKB	40.00	288	iP	36	27.00	0.5	RGS	42.97	322	eP	36	50.50	-0.1	GRFO	45.27	303	ePd	37	09.14	-0.2
TIM	40.02	294	iPc	36	39.00	12.4X	BLY	43.04	294	eP	36	53.70	2.3			ePd	37	15.59	22kmX	
APE	40.12	280	eP	36	28.10	0.5	KEK	43.12	286	eP	36	51.20	-0.9	FVI	45.30	298	P	37	09.20	-0.4
SOH	40.18	286	ePc	36	29.20	1.1	PRU	43.13	302	Pd	36	51.90	-0.1	ORI	45.32	288	P	37	11.50	1.6
PSZ	40.29	298	iP	36	30.80	1.9		1.0s	65.00nm			5.3mb	MTMJ	45.51	77	P	37	11.30	-0.2	
PLG	40.29	286	eP	36	29.40	0.5		Z	11s	46.50um		6.6MsZ	CSI	45.56	288	P	37	12.40	0.6	
PAIG	40.29	285	ePd	36	29.44	0.5		N	16s	100.00um			TDS	45.57	288	P	37	12.80	1.0	
KNT	40.38	287	ePd	36	30.28	0.6		E	17s	40.80um			FUR	45.73	301	iPc	37	14.30	1.3	
VAY	40.55	287	iP	36	32.20	1.2			PP	38	33.70			Z	17s	52.00um		6.5MsZ	X	
	1.2s	263.00nm			5.8mb				S	43	14.00				i	37	15.50	4kmX		
			i	36	39.00	23kmX			SS	46	24.00				iS	44	01.50			
SNG	40.79	144	eP	36	33.80	0.6	VLS	43.20	284	eP	36	51.90	-0.9	VVI	45.75	298	P	37	13.30	0.1
	1.5s	333.33nm			5.8mb		BRG	43.25	304	eP	36	52.80	-0.3	BER	45.77	319	eP	37	13.50	0.4
			eS	42	26.10			1.1s	110.00nm			5.5mb	ASK	45.82	319	eP	37	13.50	0.0	
GRG	40.80	287	ePc	36	34.00	0.8			i	36	54.80	7kmX	MAJO	45.82	77	iPc	37	13.11	-0.8	
NEO	40.86	284	eP	36	43.00	9.4X			i	36	59.80				ePc	37	19.90	23kmX		
NPS	40.86	277	eP	36	33.60	-0.1			i	37	00.00				e	38	57.97			
BUD	40.97	297	iP	36	35.50	1.1			i	37	05.00				eS	43	54.06			
ATH	41.05	282	eP	36	36.80	1.7			i	37	52.00				eSS	47	20.15			
			eS	41	50.00				i	38	00.00				i	37	13.00	-0.9		
			eSSS	44	52.00				i	38	39.90		MAT	45.82	77	iPc	37	13.00	-0.9	
LIT	41.07	286	iPd	36	35.60	0.3			iS	43	22.00			1.2s	229.69nm		6.0mb			
SKO	41.10	289	iP	36	35.90	0.3				36	55.30	1.5		Z	20s	7.80um		5.6MsZ		
	6.5s	3648.00nm			6.2mb X		IPM	43.30	145	ePd					eS	43	53.00			
	N	14s	29.66um					1.1s	227.20nm			5.8mb	WATA	45.82	300	iPc	37	13.40	-0.5	
	E	15s	39.58um				BRN	43.31	306	eP	36	54.00	0.6		1.0s	230.00nm		6.1mb		
			i	36	41.80	20kmX			eS	43	04.00				i	37	14.60	4kmX		
			i	36	42.00		TSI	43.32	149	e(P)	36	52.00	-1.8			i	37	19.80		
			i	36	46.70		PTJ	43.46	296	iP	36	55.00	0.1	GRI	45.88	287	P	37	15.15	0.9
			iPP	38	21.00		ZAG	43.48	296	ePc	36	56.00	1.1		1.4s	476.50nm		6.3mb		
			i	38	23.50		KBS	43.65	345	eP	36	56.80	0.9	SUE	45.91	320	eP	37	15.20	1.0
			i	38	42.50		CLL	43.71	305	iPd	36	56.10	-0.6	SGO	45.91	289	P	37	16.00	1.6
			iS	42	51.50			1.0s	270.00nm			6.0mb	MGR	45.92	289	P	37	15.00	0.5	
			iSS	45	33.00				eS	43	26.00		DUI	46.04	291	P	37	15.70	0.1	
			iSSS	46	04.00		ARO	43.73	235	iP+	36	58.60	1.3	NIIJ	46.07	76	P	37	14.70	-1.1
SRO	41.34	298	iP	36	38.30	0.9	KONO	43.80	317	eP	36	58.84	1.5	SQTA	46.10	300	iPc	37	15.40	-0.6
			i(PP)	38	34.60				ePd	37	05.46	22kmX		1.1s	218.00nm		6.0mb			
KZN	41.50	286	eP	36	39.20	0.3	KMR	43.95	300	iP-	36	58.90	0.1			i	37	16.70	4kmX	
FNA	41.59	287	iPc	36	39.44	-0.2			iPP	38	42.60				i	37	21.90			
LOF	41.60	329	eP	36	39.41	0.2			i	42	33.90				i	38	47.80			
AMAN	41.60	258	iPd	36	41.00	1.2	KHC	43.98	301	P	36	59.40	0.4			i	42	22.00		
AGG	41.61	284	iPc	36	39.94	0.2						5.1mb	IIDJ	46.10	78	P	37	15.90	-0.2	
HFS	41.69	317	eP	36	39.20	-0.9		Z	16s	33.50um		6.4MsZ	CTI	46.23	298	P				

12d 12h

QCP	46.36	114	eP	37	28.00	9.8X	BHB	49.54	298	P	37	41.08	-1.8	EPF	54.83	299	eP	38	19.70	-2.8
SDI	46.46	292	P	37	19.60	0.7	LPG	49.60	299	eP	37	42.40	-1.3		0.9s	76.80nm				5.7mb
RSM	46.50	295	P	37	20.47	1.4		1.0s	312.50nm				6.3mb	DAV	54.87	117	eP	38	21.00	-2.0
	1.0s	288.20nm				6.2mb	LPL	49.61	299	eP	37	42.40	-1.2	BST	55.07	306	P	38	22.85	-1.3
RFI	46.51	291	P	37	19.90	0.7	ENR	49.70	297	P	37	43.44	-0.7	BTH	55.13	299	P	38	24.00	-0.7
KGM	46.58	144	ePd	37	21.10	1.1	SAOF	49.71	297	P	37	44.17	0.0			pP	38	32.50	28kmX	
AZI	46.61	292	P	37	21.50	1.6	STV	49.75	297	P	37	43.54	-1.0			iPP	40	21.50		
CHJJ	46.61	77	P	37	19.40	-0.7	PZZ	49.79	298	P	37	43.65	-1.2			ipPP	40	26.50		
ASS	46.69	294	P	37	20.50	-0.2	AUTN	49.79	297	P	37	44.19	-0.8			S	46	05.00		
TNS	46.80	304	ePc	37	22.70	1.3	KKM	49.82	126	iPd	37	47.00	1.7			SS	50	05.00		
ATN	46.84	286	P	37	22.00	0.1		1.2s	234.60nm				6.1mb			SSSS	53	28.00		
SFI	46.90	295	P	37	22.80	0.6	RRL	49.82	298	P	37	43.85	-1.4			PKKP	59	05.00		
CRE	46.95	295	P	37	22.30	-0.5	BNI	49.84	298	P	37	44.09	-1.2			P'P'	07	51.00		
MNS	46.96	293	P	37	23.00	0.2		1.1s	445.50nm				6.4mb			e	08	24.00		
PGD	47.00	295	P	37	23.60	0.3	SBF	49.84	297	eP	37	43.70	-1.5	ILT	55.60	27	iPc	38	27.00	-0.7
WIT	47.02	308	eP	37	25.50	2.4	TOUF	49.90	297	P	37	45.90	0.1			iS	46	13.00		
SAL	47.12	298	P	37	24.50	0.5	MVIF	50.01	297	P	37	44.95	-1.7	EBR	55.81	296	eP	38	31.00	1.5
RMP	47.18	292	P	37	24.90	0.4	CALN	50.24	297	P	37	47.01	-1.4			eS	46	16.00		
RDP	47.19	292	P	37	25.60	0.9	FRF	50.49	297	eP	37	48.30	-1.7	EROQ	55.86	296	eP	38	29.20	-0.8
WTS	47.20	307	eP	37	25.00	0.5	CGL	50.58	291	P	37	50.60	-0.4	REY	56.33	329	e(P)	38	31.80	-1.2
	1.0s	154.00nm				6.0mb	LMR	50.67	297	eP	37	49.80	-1.7	ECRI	56.86	300	iPd	38	37.40	0.2
SAX	47.27	300	ePc	37	24.90	-0.6		1.0s	122.00nm				5.8mb	VAL	56.87	312	iP	38	37.90	0.9
BNS	47.32	306	iPd	37	27.30	1.8	EDR	50.69	316	ePc	37	51.10	-0.3			S	46	30.00		
Z	17s	42.00um				6.5MszX	LOR	50.71	302	eP	37	49.40	-2.3	ECHE	57.40	296	iPd	38	40.90	-0.1
		iS		44	25.50			0.8s	44.45nm				5.5mb	EALH	58.61	294	eP	38	49.20	-0.2
		iSS		47	46.80		Z	18s	45.00um				6.5Msz	EVIA	58.91	296	iPd	38	51.60	-0.1
KAKJ	47.38	76	P	37	25.30	-0.8	LRG	50.72	297	eP	37	50.20	-1.6	GUD	58.93	298	iPc	38	51.60	-0.2
ABH	47.46	304	eP	37	25.76	-0.9		1.1s	163.60nm				5.9mb	TOL	59.26	298	ePc	38	53.56	-0.5
VDL	47.47	299	ePc	37	26.20	-0.8	LBF	50.75	302	eP	37	49.90	-2.2			epPd	38	59.19	18kmX	
MME	47.56	296	P	37	28.80	1.0		0.8s	40.95nm				5.4mb			esPc	39	01.34		
MDI	47.59	298	P	37	27.00	-0.6	SMF	50.98	301	eP	37	51.80	-2.0			eScP	43	41.07		
SLE	47.62	301	ePc	37	27.10	-0.9	CDR	51.01	297	eP	37	51.00	-3.0X	TRT	59.42	139	iPd	38	54.30	-0.9
LLS	47.63	300	ePc	37	27.30	-1.0	SSF	51.02	302	eP	37	52.10	-1.9		1.2s	38.10nm			5.4mb	
PPI	47.65	149	ePc	37	28.00	-0.4		0.9s	61.40nm				5.5mb	EMON	59.46	303	eP	38	55.60	0.2
	0.7s	103.60nm				6.0mb	EDU	51.07	315	ePc	37	54.00	-0.3	BRW	59.58	18	eP	38	55.10	-0.6
BDI	47.68	296	Pd	37	29.00	0.5	ESY	51.09	314	ePc	37	53.80	-0.7	ENIJ	59.62	294	eP	38	56.40	-0.1
GWf	47.73	303	P	37	28.77	0.0		1.1s	150.00nm				5.8mb	ERUA	59.90	301	iPc	38	58.80	0.4
ZLA	47.79	301	ePc	37	29.10	-0.2	GRC	51.19	302	P	37	54.84	-0.5	EBAN	60.01	296	iPc	38	58.60	-0.6
PII	47.86	295	P	37	29.40	-0.4	AVF	51.22	302	eP	37	53.80	-1.8	AFC	60.35	295	iPc	39	00.60	-1.1
FEL	47.88	301	eP	37	28.73	-1.4	EBL	51.37	314	ePc	37	55.80	-0.8	ECOG	60.35	295	iPd	39	00.40	-1.2
GIB	47.93	287	P	37	29.50	-1.1		1.3s	94.00nm				5.6mb	EPLA	60.48	299	iPc	39	01.60	-0.8
MAO	47.98	294	P	37	30.90	0.1	EDI	51.39	315	ePc	37	55.80	-0.9	STS	60.51	303	eP	39	03.10	0.6
TMA	48.00	299	ePc	37	29.50	-1.7		1.1s	133.00nm				5.8mb	SMY	60.52	44	eP	39	02.10	-0.3
WLS	48.10	302	P	37	30.72	-1.0	Z	22s	33.00um				6.3Msz		18s	12.90um			6.1Msz	
DBN	48.12	308	eP	37	30.00	-1.7	EBH	51.44	315	ePc	37	56.60	-0.5	MBC	60.55	5	ePc	39	01.10	-1.2
Z	14s	47.70um				6.6MszX	ELO	51.46	315	ePc	37	56.80	-0.5		1.0s	296.00nm			6.4mb	
		eS		44	32.00			1.1s	115.00nm				5.7mb	EZAM	61.00	302	eP	39	06.30	0.4
		eSS		48	00.00		EAU	51.56	315	ePc	37	57.80	-0.2	EHOR	61.17	296	iPc	39	07.00	0.0
ENN	48.13	306	ePc	37	31.50	-0.3	EKA	51.60	314	Pd	37	57.80	-0.5	MAL	61.22	295	iPc	39	06.00	-1.4
	1.0s	101.00nm				5.8mb		0.9s	68.00nm				5.6mb			iS	47	26.00		
MEM	48.14	306	P	37	31.70	-0.2	ESK	51.63	314	eP	37	59.00	0.5	EPRU	61.63	295	iPc	39	09.40	-0.8
CDF	48.15	302	eP	37	30.60	-1.5		1.0s	120.00nm				5.8mb	ANM	61.92	26	eP	39	13.20	1.4
	0.9s	63.90nm				5.7mb	BGF	51.64	302	eP	37	57.00	-1.8	EJIF	62.08	295	eP	39	12.60	-0.6
BOB	48.15	297	P	37	32.66	0.4	AGO	51.68	301	P	37	59.11	0.0	GIBL	62.19	296	eP	39	14.00	0.0
	1.0s	798.60nm				6.7mb	PYM	51.88	301	P	38	00.65	-0.1	EVAL	62.28	297	iPc	39	14.40	-0.2
VAI	48.16	299	P	37	30.00	-2.1	EAB	51.89	315	ePc	37	59.90	-0.6	OJEN	62.32	295	eP	39	16.00	1.1
AAE	48.17	237	eP	37	33.50	0.6		1.1s	79.00nm				5.6mb	PLAT	62.46	295	eP	39	15.50	-0.3
USI	48.20	288	P	37	32.30	-0.2	LBL	51.96	300	P	38	01.31	0.2	CNIL	62.51	295	eP	39	17.00	1.0
ECH	48.29	302	P	37	32.15	-1.0	MAF	51.96	301	eP	37	59.90	-1.3	LWI	63.11	238	eP+	39	19.00	-1.5
BBS	48.35	301	P	37	32.30	-1.4	PET	52.14	49	eP	38	00.00	-2.5			i(S)	48	04.00		
MOF	48.44	302	P	37	33.40	-1.0			eS		45	16.00		IFR	63.52	292	iP	39	22.50	-0.5
FAI	48.50	286	P	37	36.00	1.1	TCF	52.15	302	eP	38	01.10	-1.6	GUMO	63.91	96	eP	39	24.00	-1.5
MMK	48.60	299	ePc	37	34.80	-1.1	LDF	52.59	305	eP	38	03.90	-2.0		Z	19s	7.84um			5.9Msz
BSF	48.66	302	eP	37	34.80	-1.3		1.0s	86.00nm				5.6mb	PJG	63.91	96	eP	39	23.80	-1.7
ORX	48.76	299	P	37	35.24	-1.7	LSF	52.59	302	eP	38	03.70	-2.3			pP	39	35.50	39kmX	
LOMF	48.82	301	P	37	35.66	-1.7	FLN	52.73	305	eP	38	04.70	-2.3	IMA	64.24	21	ePc	39	26.20	-1.0
PCP	48.83	297	P	37	37.29	-0.1		1.0s	64.00nm				5.5mb		1.5s	409.50nm			6.4mb	
HAU	48.87	302	eP	37	36.30	-1.4	Z	21s	37.50um				6.4Msz	AVE	65.20	293	iP	39	33.20	-0.5
	0.8s	76.55nm				5.8mb	CAF	52.84	300	eP	38	06.40	-1.5			i	39	52.00	71kmX	
DIX	48.95	299	ePc	37	37.40	-1.2	RJF	53.02	301	eP	38	07.70	-1.5	ADK	65.59	41	eP	39	37.00	1.1
JNW	48.98	334	eP	37	40.00	1.9		Z	18s	37.50um			6.5Msz		0.6s	89.80nm			6.1mb	
VITF	49.02	303	P	37	37.94	-0.7	GRR	53.12	305	eP	38	07.50	-2.3		Z	18s	24.80um			6.5Msz
UCC	49.05	306	P	37	39.00	0.1		1.1s	161.15nm				5.9mb	TTA	66.00	24	ePc	39	38.20	-0.3
		i		37	47.00	27kmX	LPF	53.39	305	eP	38	09.50	-2.3		1.6s	377.20nm			6.3mb	
		S		44	45.00			0.7s	46.30nm				5.6mb	TIO	66.51	291	iP	39	41.50	-0.8
CKI	49.05	297	P	37	39.00	-0.1	MFF	53.48	303	eP	38	10.40	-2.1			i	40	30.50	209kmX	
DOU	49.16	305	Pc	37	39.70	-0.1		1.2s	142.80nm				5.8mb	INK	66.56					

PMR	69.04	22 ePc	39 56.30	-1.1	LRM	91.11	7 eP	41 55.90	-0.4	1.2s	175.00nm			
	1.2s	216.30nm		6.2mb	CRZF	91.99	198 eP	42 10.00	10.4X	ANT	147.68	296 ePKP	48 34.00	0.5
Z	19s	28.40um		6.5Msz			ePP	45 30.00		AIA	149.38	210 ePKP	48 40.60	5.7X
TOA	69.40	21 ePc	39 59.40	-0.4			eS	52 30.00		CFA	151.08	282 ePKP	48 40.00	1.4
SDN	70.21	31 eP	40 05.10	0.5			eSS	59 30.00		RTLL	151.10	283 ePKP	48 44.80	6.1X
Z	18s	21.40um		6.4Msz			eSSS	03 20.00		RTRS	151.15	286 iPKPc	48 46.80	8.1X
FRB	70.40	345 eP	40 06.20	0.5			LR	14 10.00		RTCB	151.42	283 e(PKP)	48 40.20	1.0
	1.1s	180.00nm		6.1mb	WVLY	92.40	343 P	42 02.00	0.0	RTBS	151.98	283 e(PKP)	48 42.60	2.7
KDC	71.15	26 eP	40 10.00	-0.3	CLE	93.95	345 iP	42 10.00	0.9	MDZ	152.19	280 e(PKP)	48 41.40	1.1
CFTV	72.72	293 iPc	40 20.70	0.5	LBFM	94.17	15 eP	42 10.40	0.0			i	48 48.30	
NANU	73.76	144 iPc	40 24.50	-1.6	FHC	94.28	17 eP	42 13.30	2.6	JACH	153.34	282 ePKP	48 51.00	9.1X
GGC	73.95	293 iPc	40 29.20	1.8	BW06	94.37	6 eP	42 12.40	1.0	FCH	153.46	281 ePKP	48 49.00	6.6X
CTFE	74.14	294 iPd	40 30.00	1.5			pP	42 21.80	29kmX	PEL	153.65	281 ePKP	48 51.00	8.7X
YKA	74.41	6 eP	40 28.00	-1.4	WDC	94.78	16 eP	42 13.50	0.5	PCH	153.77	280 ePKP	48 52.00	9.5X
	1.0s	80.70nm		5.7mb	RMQ	94.79	122 eP	42 13.00	0.0	CHCH	154.02	280 ePKP	48 52.00	9.2X
MBL	74.49	140 eP	40 30.10	-0.3	MIN	95.19	15 eP	42 16.30	1.2	TACH	154.09	281 ePKP	48 51.50	8.7X
KNA	74.66	129 eP	40 31.40	0.0	LTCM	95.22	15 eP	42 15.90	0.9	LNV	154.58	280 ePKP	48 45.00	1.6
	0.7s	72.00nm		5.8mb	ADE	95.26	134 e(P)	42 16.50	1.5			i	48 53.00	
TBT	75.11	295 iPd	40 35.30	1.2	ORV	95.98	15 eP	42 19.50	1.0	S.D. = 1.2 on 513 of 549 obs.				
CHIE	75.77	295 iPd	40 39.60	1.8	DAU	96.58	7 e(P)	42 23.00	1.4	* NOV 12, 1990 12h 59m 10.51±1.10s				
SIT	76.48	18 eP	40 43.40	2.1	DUG	96.65	8 eP	42 21.80	0.1	41.228 N ±14.7km 143.977 E ±18.3km				
Z	22s	23.70um		6.5Msz	GLD	97.62	3 P	42 27.50	1.4	DEPTH = 33.0km (normal)				
SHGH	77.29	266 eP	40 46.00	-0.5		1.6s	66.67nm		6.0mb	4.4mb (2 obs.)				
KOGH	77.33	267 eP	40 46.50	-0.3		Z	19s	11.92um		6.4Msz	HOKKAIDO, JAPAN REGION			
KUK	77.35	267 eP	40 46.00	-0.9	CMB	97.66	15 eP	42 27.00	0.8		(224)			
TEGH	77.45	266 eP	40 47.00	-0.4	GOL	97.66	3 iPd	42 26.50	0.1	KAKJ	5.83	212 P	00 36.10	-0.8
BUL	77.53	227 iPc	40 42.70	-5.1X		1.1s	29.65nm		5.8mb		S	01 38.10		
SCH	78.10	340 eP	40 49.00	-1.3	HON	97.85	51 P	42 40.00	12.9X	CHJJ	6.48	219 P	00 47.80	1.8
MEKA	78.61	144 eP	40 52.00	-1.4		Z	22s	9.33um		6.2Msz		eS	01 59.00	
LKO	78.94	273 P	40 53.50	-2.1	BRS	97.96	120 eP	42 27.00	-0.4	MAT	6.49	226 eP	00 51.00	4.8X
	0.2s	192.00nm		6.8mb			eS	53 06.00		GUN	48.82	273 PKP	07 58.60	3.6X
MRWA	79.84	147 iPc	40 59.00	-1.0	TNP	98.15	12 ePd	42 29.50	0.9	KKN	49.33	274 PKP	07 59.80	1.0
KIC	80.44	270 P	41 02.78	-0.9		1.0s	12.50nm		5.4mb	PKI	49.35	273 PKP	07 58.80	-0.3
	1.0s	274.00nm		6.2mb	PV09	98.66	6 eP	42 32.00	1.0	DMN	49.56	274 PKP	07 59.60	-1.0
TIC	80.46	270 P	41 03.26	-0.5			pP	42 43.00	35kmX	GKN	49.70	274 PKP	08 01.20	-0.4
LIC	80.74	270 P	41 04.70	-0.6	FVM	98.76	351 P	42 31.90	0.8	WB5	61.44	190 eP	09 24.80	-1.2
	1.0s	178.00nm		6.1mb	FRI	98.80	14 eP	42 33.00	1.8		i	09 35.20		
Z	18s	20.00um		6.5Msz	ELC	99.30	350 P	42 33.40	-0.1	GBA	63.55	265 P	09 49.00	8.8X
		S	51 17.00		PRI	99.44	15 eP	42 36.70	2.3	HFS	71.08	336 eP	10 34.20	7.3X
WB5	81.15	128 eP	41 07.00	-0.2	CLC	100.31	13 ePd	42 39.00	1.0		0.4s	1.60nm		4.4mb
		i	41 12.90	19kmX			e	46 05.00		NB2	71.08	338 P	10 34.50	7.5X
RAB	81.30	104 e(P)	41 08.00	-0.1	ISA	100.31	14 ePd	42 40.00	2.0		0.8s	2.70nm		4.4mb
		iS	51 24.00		RSCP	100.40	347 Pd	42 50.00	11.6X	TNP	71.81	55 P	10 32.80	0.8
BAL	81.35	147 eP	41 06.50	-1.5		Z	18s	11.35um		6.4Msz	S.D. = 1.3 on 8 of 13 obs.			
PMG	81.47	111 eP	41 09.00	0.1	GSC	100.94	12 ePd	42 42.80	1.9		? NOV 12, 1990 13h 10m 39.26±1.13s			
WARB	82.04	137 eP	41 11.60	-0.1			eSKS	53 22.75			39.146 N ± 7.6km 27.576 E ±14.5km			
SLR	82.28	224 iPc	41 12.07	-1.1			eSDIF	54 17.71			DEPTH = 10.0km (geophysicist)			
MUN	82.36	148 eP	41 12.20	-1.0	SBB	101.37	13 ePd	42 41.00	-1.8		TURKEY			
	0.7s	111.00nm		6.1mb			e	46 23.00			MD 2.7 (ISK).			
Z	20s	5.90um		5.9Msz	TPC	102.23	12 ePd	42 46.00	-0.6		(366)			
EVA	82.52	223 iPc	41 14.00	-0.4			e	46 10.00		IZM	0.79	198 ePg	10 54.60	0.0
	0.5s	24.65nm		5.6mb	ANMO	102.36	4 ePd	42 48.11	0.8		eSg	11 06.10		
KLB	82.64	147 eP	41 12.70	-2.0			ePP	47 04.00		EZN	1.18	305 ePn	11 01.30	0.0
FFC	82.69	0 eP	41 14.00	-0.7			eSKS	53 20.50		EDC	1.22	10 ePn	11 02.00	0.1
	1.2s	276.00nm		6.3mb			eSDIF	54 30.90		BNT	1.24	12 ePn	11 02.20	-0.1
NWAO	83.60	148 ePc	41 18.77	-0.8			ePS	56 04.05		S.D. = 0.1 on 4 of 4 obs.				
		epPc	41 23.90	16kmX	ALQ	102.36	4 ePd	42 47.50	0.1	% NOV 12, 1990 13h 52m 55.15±0.89s				
EDM	83.69	7 iPc	41 19.20	-0.8		1.5s	25.00nm		5.7mb	60.809 N ± 6.5km 5.136 E ± 8.7km				
ASPA	83.86	130 iPc	41 20.70	-0.4		Z	18s	11.68um		6.4Msz	DEPTH = 5.0km (geophysicist)			
	1.1s	35.90nm		5.5mb	MEO	102.57	357 iPd	42 49.50	1.5	SOUTHERN NORWAY				
Z	24s	5.30um		5.8MszX	PLM	102.84	13 ePd	42 46.00	-3.5X		MD 1.6 (BER).			
		iP	42 18.30	239kmX			e	46 13.00		SUE	0.31	324 ePg	53 01.35	0.0
		iS	51 34.60		ITR	115.24	282 ePKP	47 30.70	-3.0		eSg	53 06.92		
MBO	83.95	284 iPc	41 23.90	2.1	PDCR	118.29	279 ePKP	47 33.80	-5.6X	ASK	0.33	175 ePg	53 01.46	-0.3
SEK	84.74	223 iPc	41 24.00	-1.6	BOG	126.34	325 e(PKP)	47 57.00	1.6		eSg	53 05.58		
	0.4s	46.61nm		6.1mb	BAO	126.74	284 ePKPd	47 56.00	0.2	HYA	0.62	55 eP	53 07.95	0.3
QIS	84.79	124 iPc	41 25.90	0.1	BMA	128.46	274 e(PKP)	48 00.50	1.7	BLS1	1.66	149 iP	53 25.80	0.7
		i	41 32.10	20kmX			e	48 07.60			eS	53 46.65		
		e	42 30.00		PSO	130.79	327 ePKP	48 05.00	1.0	NRA0	3.14	89 Pn	53 45.50	-0.7
SWZ	84.99	225 iPc	41 24.60	-2.3	SBA	131.30	164 e(PKP)	47 57.20	-5.4X		Lg	54 42.10		
	0.6s	23.33nm		5.6mb	SPA	132.77	180 iPKPc	48 05.60	-0.2	S.D. = 0.8 on 5 of 5 obs.				
CBM	85.62	338 P	41 29.60	-0.1		1.0s	30.00nm		6.2Msz	% NOV 12, 1990 14h 04m 05.64±0.57s				
FORR	86.61	139 iPd	41 34.10	-0.5		Z	20s	4.50um			47.977 N ± 6.8km 6.635 E ± 5.3km			
	0.4s	65.00nm		6.2mb			i	51 43.50			DEPTH = 10.0km (geophysicist)			
		i	41 41.30	23kmX	PPD	133.27	280 ePKP	48 08.50	0.6		FRANCE			
PNT	86.81	11 eP	41 35.00	-0.6			e	48 14.40			ML 2.8 (LDG).			
	1.1s	107.00nm		6.0mb	SIV	136.05	295 PKP	48 11.00	-2.4	BSF	0.18	144 Pg	04 10.40	0.7
PGC	86.83	14 eP	41 37.00	1.4	ZOBO	140.80	302 PKP	48 15.00	-7.8X		Sg	04 13.60		
MCW	86.91	14 eP	41 35.50	-0.6		1.6s	50.13nm			HAU	0.19	279 Pg	04 10.80	0.8
HVD	87.67	223 iPc	41 37.50	-2.4			i	48 23.00			Sg	04 13.90		
GMW	88.01	14 eP	41 41.90	0.5			eLR	36 20.00		CDF	0.61	44 Pg	04 16.40	-1.6
NEW	88.18	10 iPd	41 41.80	-0.5	LPB	140.98	302 PKP	48 25.00	2.1					
	1.1s	86.42nm		6.0mb		Z	20s	6.38um		6.4Msz				
RMW	88.27	13 eP	41 42.70	0.0			LR	36 04.00						
DPW	88.42	11 eP	41 42.80	-0.6	CNCB	141.12	302 PKP							

12d 14h

FEL	0.93	96	ePg	04 23.60	0.3
RUP	1.75	9	ePg	04 37.50	1.3
ABH	2.00	17	ePg	04 39.93	0.1
LOR	2.01	250	Pn	04 40.00	0.0
			Pg	04 44.80	
			Sg	05 11.20	
LBF	2.06	242	Pn	04 40.80	0.1
			Pg	04 46.20	
			Sg	05 13.40	
TOD	2.17	41	ePg	04 45.44	3.1X
SSF	2.31	248	Pn	04 44.00	-0.3
			Pg	04 50.80	
			Sg	05 20.80	
SMF	2.32	236	Pg	04 51.00	6.5X
			Sg	05 20.50	
LPG	2.48	178	Pg	04 54.00	7.0X
			Sg	05 26.60	
AVF	2.53	243	Pn	04 46.00	-1.3
			Pg	04 54.50	
			Sg	05 28.00	
BGF	2.94	243	Pg	05 02.60	9.3X
			Sg	05 40.00	
MAF	3.29	239	Pg	05 08.00	9.8X
			Sg	05 50.60	

S.D. = 1.0 on 10 of 15 obs.

% NOV 12, 1990 14h 41m 43.22±0.92s
39.231 N ± 7.8km 27.658 E ± 10.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

IZM	0.89	201	iPg	41 59.70	-0.6
EDC	1.13	8	ePn	42 03.00	-1.3
BNT	1.14	10	ePn	42 03.70	-0.9
EZN	1.19	300	ePn	42 05.80	0.4
KHL	1.72	121	ePn	42 14.00	0.6
IZI	1.78	51	ePn	42 13.00	-1.3
YLV	1.88	44	iPn	42 16.20	0.5
CTT	2.00	17	ePn	42 20.00	2.5

S.D. = 1.5 on 8 of 8 obs.

% NOV 12, 1990 14h 42m 53.00±0.76s
39.273 N ± 6.4km 27.666 E ± 8.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.93	200	ePg	43 10.00	-0.8
			iSg	43 24.20	
EDC	1.08	8	ePn	43 12.00	-1.4
BNT	1.10	10	ePn	43 13.70	0.1
KCT	1.11	28	iPn	43 13.90	0.0
EZN	1.17	298	iPn	43 15.80	0.9
KHL	1.73	123	ePn	43 24.00	0.6
IZI	1.75	52	ePn	43 23.00	-0.7
YLV	1.84	45	ePn	43 26.20	1.2
CTT	1.96	17	ePn	43 30.00	3.4X

S.D. = 1.1 on 8 of 9 obs.

% NOV 12, 1990 14h 46m 00.98±0.67s
44.394 N ± 5.7km 7.414 E ± 6.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

STV	0.16	203	P	46 04.94	0.2
			S	46 07.79	
ENR	0.17	178	P	46 04.66	-0.2
			S	46 06.99	
PZZ	0.25	297	P	46 06.38	0.0
			S	46 10.07	
ROB	0.34	107	P	46 08.64	0.6
			S	46 14.17	
BHB	0.46	347	P	46 10.32	0.0
FIN	0.60	108	P	46 12.58	-0.5

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

% NOV 12, 1990 15h 38m 25.57±0.51s
39.428 N ± 4.6km 28.180 E ± 5.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

KCT	0.83	9	iPg	38 42.00	0.4
EDC	0.95	345	ePn	38 43.00	-0.6
IZM	1.25	215	iPn	38 48.70	-0.2
IZI	1.35	47	iPn	38 50.70	0.3

YLV	1.46	38	iPn	38 52.20	0.2
EZN	1.49	286	iPn	38 52.90	0.6
KHL	1.52	136	iPn	38 52.70	-0.2
ALT	1.54	103	iPn	38 53.50	0.2
GBZT	1.67	35	ePn	38 58.00	3.0X
			iSg	39 20.00	

ISK	1.77	22	ePn	38 56.00	-0.4
HRT	1.80	39	iPn	38 56.70	-0.2

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

NOV 12, 1990 15h 45m 20.48±1.21s
33.414 N ± 7.4km 75.715 E ± 6.0km
DEPTH = 67.9 ± 12.4 km
4.7mb (18 obs.)
EASTERN KASHMIR (302)
MD 4.8 (NDI).

NDI	4.89	164	iPd	46 34.50	1.3
			eS	47 46.00	
KSH	6.03	2	P	46 50.50	1.2
			S	48 01.00	
QUE	8.12	249	eP	47 15.70	-2.6
	0.6s		13.00nm		4.9mb
			eS	48 48.20	
GKN	9.38	123	P	47 30.00	-5.5X
DMN	9.95	123	P	47 39.00	-4.4X
KKK	9.96	122	P	47 37.40	-6.1X
PKI	10.19	122	P	47 40.40	-6.2X
GUN	10.33	119	P	47 43.20	-5.4X
WMO	13.97	38	P	48 31.50	-5.1X
POO	14.91	187	eP	48 45.00	-3.9X
HYB	16.13	170	eP	49 00.00	-4.4X
			eS	51 46.00	

GBA	19.78	175	Pd	49 46.40	-1.5
	0.7s		4.10nm		3.8mb
SHI	20.11	265	eP	49 52.00	0.5
GTA	20.27	66	iPc	49 51.00	-2.0
	0.6s		10.00nm		4.3mb
KOD	23.13	176	eP	50 24.60	2.8
LZH	23.24	75	Pd	50 28.00	5.4X
Z	20s		0.70um		4.1msz
CD2	23.84	88	eP	50 29.10	0.7
TAB	24.25	289	e(P)	50 30.00	-2.4
KMI	24.93	102	iPc	50 39.00	0.0
	0.8s		40.00nm		4.9mb
			sP	50 53.00	

CHG	25.35	119	iPc	50 42.80	0.1
	0.9s		31.30nm		4.8mb
BDT	26.41	122	eP	50 51.80	-0.7
GYA	27.63	96	P	51 03.20	-0.6
MLR	39.69	303	eP	52 51.00	3.4X
			e	19 20.00	
CN2	39.69	60	P	52 47.40	-0.1
SOD	44.16	335	eP	53 24.00	0.3
BRG	47.57	311	e(P)	53 52.80	1.9
			e	56 54.80	
HFS	47.86	323	eP	53 53.00	-0.1
	0.9s		11.10nm		4.8mb
NB2	49.15	324	P	54 03.20	0.1
	0.6s		3.00nm		4.5mb

MAT	50.50	68	eP	54 12.00	-1.7
	0.7s		5.48nm		4.7mb
BSF	52.58	308	eP	54 29.20	-0.1
	0.4s		2.85nm		4.7mb
HAU	52.84	308	eP	54 31.10	0.0
LPG	53.07	305	eP	54 33.70	0.5
	0.7s		7.70nm		4.8mb
LPL	53.08	305	eP	54 33.70	0.5
	0.5s		9.50nm		5.1mb
LBF	54.62	307	eP	54 44.40	0.1
SMF	54.79	307	eP	54 45.40	-0.1
SSF	54.92	307	eP	54 46.10	-0.3
	0.5s		2.55nm		4.5mb
AVF	55.09	307	eP	54 47.00	-0.5
BGF	55.48	307	eP	54 46.20	-4.2X
	0.6s		4.50nm		4.7mb

MAF	55.75	306	eP	54 52.70	0.3
	0.5s		2.90nm		4.6mb
CAF	56.43	305	eP	54 57.30	0.0
	0.6s		5.40nm		4.8mb
RJF	56.70	306	eP	54 59.40	0.2
LFF	57.33	305	eP	55 03.60	0.0
	0.7s		7.70nm		4.9mb
IFR	65.64	295	eP	56 01.00	1.1
			i	58 40.00	
MBC	70.19	4	eP	56 29.00	1.7
WB5	77.04	124	eP	57 08.20	0.2

ASPA	79.31	128	iPc	57 20.70	0.3
	0.6s		10.10nm		4.9mb
YKA	84.07	5	eP	57 43.00	-1.5
	0.7s		3.80nm		4.5mb

S.D. = 1.2 on 36 of 47 obs.

? NOV 12, 1990 15h 47m 13.86±3.14s
8.400 N ± 65.3km 58.319 E ± 16.8km
DEPTH = 10.0km (geophysicist)
5.0mb (16 obs.)
CARLSBERG RIDGE (421)

SKO	46.62	322	iP	55 44.70	0.6
			i	56 36.50	
SRO	51.83	327	eP	56 24.20	0.0
VBY	52.30	323	ePc	56 28.90	1.1
ZST	52.71	326	e(P)	56 30.70	-0.1
			e	03 58.80	
LJU	53.01	323	e(P)	56 35.00	1.9
KHC	55.18	326	eP	56 49.40	0.4
			e	57 41.00	
CLL	56.66	328	iP	57 00.00	0.5
	2.1s		48.00nm		5.2mb
LPG	57.61	319	eP	57 06.30	-0.5
	0.7s		4.95nm		4.6mb
LPL	57.63	319	eP	57 06.40	-0.4
FEL	57.81	322	eP	57 09.39	1.4
CDF	58.49	323	eP	57 12.60	0.0
	1.2s		32.75nm		5.3mb

BSF	58.53	322	eP	57 12.60	-0.4
	0.7s		8.80nm		5.0mb
SMF	59.92	320	eP	57 22.10	-0.4
LBF	59.96	320	eP	57 22.40	-0.4
LOR	60.14	320	eP	57 23.70	-0.3
	0.9s		11.45nm		5.0mb
BJI	60.19	49	eP	57 25.00	0.6
	1.5s		26.00nm		5.1mb
			eS	05 48.00	

AVF	60.28	320	eP	57 24.90	0.0
	0.9s		5.75nm		4.7mb
SSF	60.28	320	eP	57 24.60	-0.4
	0.8s		10.05nm		5.0mb
BGF	60.53	319	eP	57 26.80	0.2
	0.7s		12.15nm		5.1mb
MAF	60.59	319	eP	57 27.00	-0.1
RJF	60.98	318	eP	57 30.00	0.3
	0.5s		4.35nm		4.8mb
LPO	61.00	317	eP	57 30.00	0.1
	0.7s		6.60nm		4.9mb
LFF	61.39	317	eP	57 32.60	0.1
HFS	61.44	336	eP	57 31.00	-1.6
	0.7s		5.70nm		4.8mb
NB2	62.96	336	P	57 41.10	-1.7
	0.8s		3.20nm		4.6mb
LDF	63.11	321	eP	57 43.70	-0.2
	0.9s		11.45nm		5.1mb
GRR	63.51	320	eP	57 46.00	-0.5
	0.7s		5.50nm		4.9mb
LPF	63.51	320	eP	57 46.40	-0.2
	0.9s		13.10nm		5.1mb

S.D. = 0.8 on 28 of 28 obs.

? NOV 12, 1990 15h 48m 08.26±3.67s
9.006 N ± 80.0km 58.548 E ± 13.7km
DEPTH = 10.0km (geophysicist)
5.2mb (15 obs.)
CARLSBERG RIDGE (421)

CARLSBERG RIDGE				(421)	
LPG	57.30	319	iPc	57 58.80	-0.2
LPL	57.32	319	iPc	57 58.80	-0.3
	1.1s		12.20nm		4.8mb
CDF	58.15	322	iPc	58 05.20	0.5
	1.3s		39.70nm		5.3mb
BSF	58.20	321	iPc	58 05.20	0.1
	1.2s		29.75nm		5.2mb
HAU	58.55	322	eP	58 07.50	0.1
BJI	59.62	49	eP	58 15.00	0.1
	1.0s		12.00nm		5.0mb
LBF	59.64	320	iPc	58 15.00	0.0
	1.1s		22.00nm		5.2mb
LOR	59.82	320	iPc	58 16.20	0.0
	1.1s		24.40nm		5.2mb
SSF	59.97	320	iPc	58 17.10	-0.1
	1.0s		20.00nm		5.2mb
BGF	60.22	319	iPc	58 19.20	0.3
	1.0s		23.00nm		5.3mb
MAF	60.29	319	iPc	58 19.80	0.4

RJF	1.2s	14.90nm	5.0mb	TEH	4.51	182	ePc	01	58.00	-0.1	SUF	27.17	334	eP	06	31.00	0.5			
	60.69	317	eP	58	22.30	0.1	TAB	4.66	244	iPc	02	00.70	0.5	LJU	27.49	295	eP	06	34.00	0.4
	1.3s	28.90nm	5.2mb	KER	6.90	213	eP	02	39.00	7.3x	PRU	27.66	303	eP	06	35.50	0.5			
LPO	60.72	316	iPc	58	22.70	0.3	MAIO	7.34	120	iPnd	02	35.20	-2.6	DUI	27.96	285	P	06	38.00	0.0
	1.1s	24.40nm	5.2mb					0.8s	21.96nm	5.0mb	BRG	28.14	305	iPd	06	40.00	0.6			
LFF	61.10	317	iPc	58	25.30	0.4			eSn	03	51.00			1.2s	46.00nm	5.0mb				
	1.1s	24.40nm	5.3mb	MLL	15.20	244	eP	04	24.00	0.7	KHC	28.21	301	iPd	06	40.00	-0.1			
NB2	62.50	336	P	58	33.40	-0.8	QUE	16.03	124	eP	04	35.40	1.3		1.1s	14.00nm	4.5mb			
	1.0s	4.00nm	4.6mb	MKT	16.28	240	eP	04	37.50	0.5	FVI	28.69	296	P	06	43.30	-1.0			
LDF	62.79	320	iPc	58	36.10	-0.1	ALT	16.61	273	eP	04	41.50	0.2	CLL	28.79	306	iP	06	45.60	0.4
	1.1s	22.00nm	5.3mb	HRT	16.70	279	eP	04	44.20	1.9		1.3s	30.00nm	4.8mb						
LPF	63.20	320	iPc	58	38.90	0.0	IZI	16.90	277	eP	04	44.00	-0.8				07	11.30		
	1.3s	36.10nm	5.4mb	YLV	16.95	278	eP	04	45.70	0.3	ARV	28.81	289	P	06	46.00	0.5			
TOL	63.31	310	eP	58	39.00	-0.8	ISK	17.14	280	eP	04	48.70	1.0	ASS	29.07	288	P	06	48.00	0.1
	S.D. = 0.4	on	18	of	18	obs.	KHL	17.21	271	eP	04	47.00	-1.8	CTI	29.50	295	P	06	51.50	-0.3
?	NOV	12, 1990	15h	49m	56.88±	6.54s	MBH	17.22	238	eP	04	48.00	-0.7	MOX	29.59	304	iPd	06	53.00	0.6
	9.830	N	±141.1km	58.514	E	±19.6km	ELL	17.35	265	iP	04	52.50	2.0		1.1s	44.00nm	5.1mb			
	DEPTH =	10.0km	(geophysicist)				PSN	17.75	289	iPd	04	55.00	-0.3	SOTA	29.76	297	iPd	06	53.40	-0.7
	4.9mb	(7 obs.)					KSL	17.80	264	eP	04	56.00	0.1		1.2s	68.00nm	5.2mb			
CARLSBERG RIDGE	(421)						EDC	18.12	278	eP	04	49.00	-10.8x	OGA	29.89	296	iPd	06	55.00	-0.4
							KSH	18.71	85	eP	05	06.00	-1.2		0.6s	37.00nm	5.3mb			
CDF	57.48	322	eP	59	49.10	0.5	JMB	18.91	285	iP	05	09.00	-0.5	SOD	30.47	341	iP	07	01.00	1.1
	1.1s	14.65nm	4.9mb	IZM	18.92	272	eP	05	10.00	0.2	HFS	30.75	323	eP	07	01.50	-1.0			
BSF	57.54	321	eP	59	49.10	0.0	VRI	19.00	295	ePc	05	09.00	-1.5		0.7s	28.60nm	5.1mb			
	1.1s	14.65nm	4.9mb						e	19	30.00		MDI	30.87	294	P	07	01.50	-2.2	
LBF	59.00	319	iPc	59	59.20	0.0	ISR	19.04	293	ePc	05	10.00	-1.0	VDL	30.98	296	ePd	07	04.70	-0.3
	1.0s	8.00nm	4.8mb	EZN	19.36	277	iP	05	14.40	-0.1	SAX	31.02	297	ePd	07	04.80	-0.6			
BJI	59.11	49	eP	00	00.00	0.0	CVO	19.38	295	eP	05	13.50	-1.2	BOB	31.16	292	P	07	08.00	1.7
LOR	59.17	320	iPc	00	00.30	-0.1	MLR	19.50	294	ePc	05	16.00	-0.1	LLS	31.28	297	ePd	07	06.60	-1.0
	1.1s	12.20nm	4.9mb	PRK	19.50	275	eP	05	15.70	-0.3	TMA	31.42	295	ePd	07	08.10	-0.7			
SSF	59.33	319	iPc	00	01.30	-0.1	DIM	19.71	284	iPd	05	18.00	-0.2	VAI	31.52	295	P	07	10.00	0.6
	1.0s	10.00nm	4.9mb	RDO	19.78	281	eP	05	19.00	0.1	SLE	31.58	298	ePd	07	09.10	-0.9			
AVF	59.33	319	eP	00	01.00	-0.4	PVL	19.81	287	eP	05	20.00	0.7	ZLA	31.66	298	ePd	07	09.70	-1.0
BGF	59.58	319	iPc	00	03.40	0.2	KAP	19.83	264	eP	05	18.50	-1.0	PCP	31.82	292	P	07	11.79	-0.4
	1.1s	19.55nm	5.1mb	CMP	20.11	293	ePc	05	21.00	-1.4	FEL	31.90	299	eP	07	11.82	-1.1			
APO	60.37	336	eP	00	08.20	-0.1	PLD	20.32	284	iP	05	24.00	-0.6	MMK	32.06	295	ePd	07	13.10	-1.3
	1.6s	59.30nm	5.5mb	RZN	20.34	283	iP	05	25.00	0.0	ORX	32.09	294	P	07	12.92	-1.6			
	S.D. = 0.3	on	9	of	9	obs.	APE	20.60	270	eP	05	27.50	0.0	FIN	32.11	292	P	07	13.64	-1.0
							TNR	20.68	294	ePd	05	27.00	-1.3	NB2	32.23	324	P	07	13.60	-2.0
*	NOV	12, 1990	15h	54m	33.03±	0.70s	PGB	20.69	285	iP	05	28.00	-0.5		0.7s	16.30nm	5.0mb			
	8.074	N	±13.6km	58.857	E	±7.3km	MMB	21.09	283	iPc	05	33.00	0.5	ROB	32.34	292	P	07	15.79	-0.9
	DEPTH =	10.0km	(geophysicist)				NPS	21.13	265	eP	05	32.20	-0.7	CDF	32.37	300	eP	07	16.10	-0.8
	5.1mb	(9 obs.)					SRS	21.24	281	iPd	05	34.42	0.4		0.7s	15.45nm	4.9mb			
CARLSBERG RIDGE	(421)						PAIG	21.35	278	ePd	05	35.36	0.3	DIX	32.44	295	ePd	07	17.20	-0.6
							VTS	21.39	286	iPd	05	36.00	0.3	HYB	32.55	127	eP	07	19.00	0.3
HYB	21.32	62	eP	59	30.50	8.0x	PLG	21.45	279	eP	05	37.10	0.9	RSP	32.65	294	P	07	17.64	-1.8
SHI	22.27	345	eP	59	27.00	-5.1x	SOH	21.46	281	ePc	05	37.04	0.8	ENR	32.67	292	P	07	19.38	-0.2
QUE	23.27	18	eP	59	46.00	4.0x	BMR	21.48	300	ePc	05	38.00	1.7	LSO	32.69	294	P	07	19.79	-0.1
MAIO	28.10	1	eP	00	20.00	-7.1x	KKB	21.54	284	iP	05	37.00	0.0	BHB	32.69	293	P	07	18.15	-1.5
GKN	31.39	48	P	00	56.00	-0.7	ATH	21.74	273	eP	05	40.30	1.3	BSF	32.72	299	eP	07	19.00	-1.0
DMN	31.52	49	P	00	58.80	0.8	KNT	21.76	282	ePd	05	39.52	0.4		0.9s	24.55nm	5.0mb			
PKI	31.73	49	P	00	59.80	-0.1	NEO	21.81	277	eP	05	40.90	1.2	STV	32.73	292	P	07	19.58	-0.5
KKN	31.75	49	P	00	59.80	-0.1	VAY	21.98	282	eP	05	42.50	1.1	EMS	32.77	295	ePd	07	19.70	-0.9
GUN	32.26	49	P	01	04.60	0.0		1.2s	66.00nm	4.9mb			PZZ	32.85	292	P	07	19.79	-1.4	
BUL	40.89	226	iPd	02	17.40	0.0	VAM	22.15	266	eP	05	42.00	-1.1	LPL	32.97	294	eP	07	22.00	-0.4
SKO	47.20	322	iP	03	07.90	0.0	LIT	22.22	279	ePc	05	44.28	0.5		0.5s	9.50nm	4.9mb			
				03	12.00		AGG	22.55	276	ePc	05	47.16	0.1	HAU	33.01	299	eP	07	21.80	-0.6
KHC	55.74	326	eP	04	11.60	-0.7	VLI	22.69	270	eP	05	46.60	-1.7		0.9s	91.75nm	5.6mb			
CLL	57.21	328	e(P)	04	24.00	1.3	KZN	22.73	280	eP	05	51.10	2.3	RRL	33.02	293	P	07	22.97	0.2
	2.0s	29.00nm	5.0mb	SKO	22.75	284	iP	05	49.50	0.5	BNI	33.07	293	P	07	23.10	-0.1			
		eSg	04	51.00				1.0s	53.00nm	4.9mb	MEM	33.16	304	P	07	25.25	1.6			
LPL	58.22	319	eP	04	29.70	-0.4			i	06	03.00		FRF	33.33	291	eP	07	25.00	-0.2	
	1.2s	14.90nm	4.9mb				FNA	22.95	281	ePd	06	01.82	10.9x		0.6s	28.85nm	5.3mb			
CDF	59.07	323	iPc	04	36.00	0.1	EVR	22.97	276	eP	05	52.00	0.8	LMR	33.46	290	eP	07	26.80	0.4
	1.4s	47.90nm	5.4mb	ITM	23.32	272	eP	05	53.70	-0.8		0.7s	7.70nm	4.7mb						
BSF	59.12	322	iPc	04	36.20	0.0	OHR	23.33	282	ePd	05	55.50	0.8	DOU	34.07	303	Pc	07	33.00	1.5
	1.4s	26.15nm	5.2mb					1.3s	98.00nm	5.1mb			LBF	34.70	297	eP	07	36.50	-0.6	
BJI	60.01	48	eP	04	47.00	4.7x	SPC	23.87	302	e(P)	06	01.50	1.5		0.9s	43.40nm	5.4mb			
LBF	60.55	320	iPc	04	45.90	-0.1			e	19	23.30		LOR	34.75	298	eP	07	36.80	-0.6	
	1.2s	20.85nm	5.1mb	PSZ	23.92	299	e(P)	06	01.00	0.7		0.7s	19.30nm	5.1mb						
LOR	60.73	320	iPc	04	46.90	-0.3	VLS	24.07	275	eP	06	02.00	0.2	SMF	34.83	297	eP	07	37.80	-0.4
	1.2s	19.35nm	5.1mb	KRA	24.23	304	iPd	06	03.80	0.6		0.7s	16.55nm	5.1mb						
SSF	60.87	320	iPc	04	47.90	-0.2		0.8s	47.00nm	5.1mb			GBA	34.88	132	Pc	07	38.50	-0.3	
	0.9s	10.65nm	5.0mb						e	06	21.70			0.6s	6.70nm	4.7mb				
BGF	61.12	319	iPc	04	50.10	0.3	KEK	24.33	279	eP	06	04.40	0.2	SSF	35.01	297	eP	07	39.20	-0.5
	1.1s	19.55nm	5.2mb	SRO	24.96	299	iP	06	12.20	2.0		1.0s	24.00nm	5.1mb						
HFS	61.95	336	eP	04	48.40	-6.8x	ZST	25.81	299	iP	06	18.80	0.7	AVF	35.15	297	eP	07	40.70	-0.1
	0.9s	4.90nm	4.7mb	NUR	26.26															

12d 16h

[illegible]

PVC	2.29	159	iPc	39	21.00	-0.4	PGF	147.39	330	ePKP	58	14.20	1.5	SPA	Z 20s	0.30um	3.8msz			
			iS	39	49.00			0.7s	15.45nm						85.02	180	iPd	35	14.10	0.7
DZM	6.52	188	iPd	40	18.00	-0.8	MFF	147.40	344	ePKP	58	14.30	1.9		1.0s	5.00nm	4.5mb			
			iS	41	24.00			0.7s	30.85nm							i	35	29.80		
HNR	9.56	309	eP	41	01.00	1.2	FRF	147.68	333	ePKP	58	14.50	1.5	S.D. = 1.5 on 6 of 8 obs.						
			eS	42	55.00			0.9s	26.20nm					NOV 12, 1990 17h 56m 50.04±0.85s						
SVO	9.84	310	eP	41	06.00	2.4	LRG	147.89	334	ePKP	58	15.20	1.9	43.207 N ± 6.8km 19.006 E ± 6.1km						
			eS	42	55.00		LMR	147.92	333	ePKP	58	15.70	2.3	DEPTH = 10.0km (geophysicist)						
RMO	20.53	235	iPc	43	15.00	0.3	RJF	148.10	341	ePKP	58	16.40	2.8X	YUGOSLAVIA (383)						
WLZ	23.30	164	P	43	43.30	1.5		0.9s	16.40nm				ML 3.0 (TTG).							
MNG	25.90	166	P	44	05.00	-1.3	CAF	148.26	340	ePKP	58	16.80	2.9X	PLE	0.31	66	iPg	56	55.70	-0.8
LTZ	27.41	172	P	44	19.50	-0.6		0.7s	7.70nm					NKY	0.39	181	iPg	56	58.00	-0.1
WB5	31.79	257	eP	44	58.00	-1.1		0.8s	4.70nm					BRY	0.46	228	iPg	56	58.90	-0.5
ASPA	32.56	250	iPd	45	04.80	-1.0	LFF	148.67	342	ePKP	58	17.80	3.3X				iSg	57	06.50	
	0.5s	11.90nm				4.9mb		0.6s	9.00nm					IVA	0.74	117	ePg	57	03.90	-0.6
WARB	39.43	248	eP	46	04.50	0.6	LPO	148.76	341	ePKP	58	18.20	3.5X				eSg	57	16.00	
MBL	45.42	256	eP	46	52.50	0.0	EPF	150.51	341	ePKP	58	22.90	5.4X				eSg	57	04.60	-0.9
CHJJ	57.99	333	P	48	23.70	-2.5	S.D. = 1.3 on 58 of 66 obs.										eSg	57	17.80	
IIDJ	58.00	332	P	48	24.10	-2.3	& NOV 12, 1990 16h 55m 14.94s										ePg	57	06.00	-0.4
MAT	58.75	333	iPc	48	29.20	-2.3	60.227 N 152.388 W										eSg	57	20.50	
	0.5s	7.75nm				5.0mb	DEPTH = 82.0km										ePg	57	07.50	-0.3
MTMJ	58.97	332	P	48	31.30	-1.8	SOUTHERN ALASKA (2)										eSg	57	23.50	
MDJ	69.12	332	eP	49	37.70	-1.2	<AGS-P>										ePg	57	07.50	-0.5
CN2	70.48	329	iPc	49	46.00	-1.2	RSO	0.30	323	eP	55	27.40	-0.5				eSg	57	22.00	
	0.6s	20.00nm				5.1mb	RS2	0.30	322	eP	55	27.43	-0.5				ePg	57	15.00	1.6
TIY	74.02	317	P	50	08.40	0.1	REF	0.31	329	iP	55	27.43	-0.5				eSg	57	36.00	
XAN	74.41	313	P	50	10.50	-0.1											eSg	57	22.00	
SPA	74.51	180	iPd	50	10.80	-0.1	RDN	0.34	327	eP	55	27.54	-0.5				iSg	57	52.10	2.7X
	1.0s	5.00nm				4.3mb											ePn	57	26.50	3.4X
KMI	74.92	302	eP	50	15.00	1.0	RDT	0.35	359	iP	55	27.34	-0.7				ePn	57	29.00	2.1
CHTO	75.61	294	P	50	17.10	-0.6											ePc	57	45.50	6.4X
CD2	76.68	308	eP	50	23.30	-0.3	INE	0.38	244	eP	55	27.58	-0.7				ePn	57	50.40	5.3X
LZH	79.04	312	Pc	50	37.00	0.4	NCT	0.43	322	eP	55	27.82	-0.8				ePn	57	52.20	10.2X
	1.5s	28.00nm				4.8mb	NNL	0.58	108	iP	55	30.11	0.4				eSg	58	43.20	
GTA	83.40	314	iPc	50	59.60	0.4	HOM	0.68	146	iP	55	30.67	-0.1				ePn	57	56.30	10.2X
	0.8s	10.00nm				4.8mb	OPT	0.72	217	eP	55	30.40	-0.8				eSg	58	21.50	0.5
SOD	122.37	343	ePKP	57	19.00	-6.7X											eSg	59	21.50	
NUR	127.73	338	ePKP	57	36.00	-0.2	NKA	0.77	47	eP	55	32.93	1.3	S.D. = 1.1 on 11 of 18 obs.						
NB2	131.50	345	PKP	57	42.80	-0.7	BRK	0.89	121	eP	55	32.21	-0.9	* NOV 12, 1990 18h 16m 11.74±1.78s						
	0.7s	1.70nm					CNPM	0.91	140	eP	55	32.42	-0.9	43.260 N ±13.6km 18.962 E ±11.0km						
HFS	131.59	343	ePKP	57	42.40	-1.2								DEPTH = 10.0km (geophysicist)						
	0.4s	0.70nm					SPU	0.97	10	iP	55	33.35	-0.7	YUGOSLAVIA (383)						
CDF	143.44	338	ePKP	58	02.10	-3.8X								ML 2.3 (TTG).						
	0.6s	3.60nm					CKL	0.97	1	iP	55	33.45	-0.7				eSg	57	52.10	2.7X
BSF	144.10	338	ePKP	58	04.00	-3.1X											eSg	57	22.00	
	0.5s	5.10nm															eSg	57	15.00	1.6
HAU	144.12	338	ePKP	58	04.20	-2.8											eSg	57	36.00	
	0.7s	13.25nm															eSg	57	36.00	
ARV	144.71	327	PKP	58	07.00	-1.2	PDB	1.01	245	eP	55	33.32	-1.1				eSg	57	22.00	
SFI	144.97	329	PKP	58	09.00	0.5	BGL	1.04	360	iP	55	34.33	-0.6				eSg	57	22.00	
PGD	145.07	329	PKP	58	09.00	0.1											eSg	57	22.00	
CRE	145.13	328	PKP	58	09.00	0.0	CRP	1.05	6	eP	55	34.31	-0.8				eSg	57	22.00	
FLN	145.47	346	ePKP	58	08.30	-0.9	CGLM	1.10	10	iP	55	35.06	-0.6				eSg	57	22.00	
	0.6s	27.05nm					SLKM	1.11	74	eP	55	34.90	-0.9				eSg	57	22.00	
BDI	145.48	330	PKP	58	08.00	-1.5	NCG	1.19	5	eP	55	36.11	-0.7				iPg	16	22.60	0.0
BOB	145.49	332	PKP	58	10.00	0.5	CDD	1.45	207	eP	55	38.67	-1.4				ePg	16	20.70	-0.2
LDF	145.54	345	ePKP	58	08.60	-0.8	SEW	1.47	94	eP	55	38.58	-1.8				ePg	16	27.50	
	0.6s	18.95nm					SUA	1.48	32	eP	55	40.16	-0.4				ePg	16	21.20	-0.2
LOR	145.61	340	ePKP	58	09.20	-0.4	PMS	1.72	52	iP	55	43.14	-0.6				ePg	16	28.00	-0.2
	0.8s	20.15nm															eSg	16	40.50	
MNS	145.62	326	PKP	58	09.00	-0.8	SKT	1.81	13	eP	55	43.55	-1.3				eSg	16	45.20	
LBF	145.82	340	ePKP	58	09.80	-0.2	PWA	1.88	40	eP	55	44.64	-1.2				eSg	16	43.00	
	0.9s	31.10nm					LTi	2.28	93	eP	55	48.49	-2.7				eSg	16	31.00	0.6
SSF	145.90	340	ePKP	58	10.20	0.2	KNIM	2.32	85	eP	55	48.08	-3.7				eSg	16	48.50	4.9X
	0.5s	23.70nm					CUT	2.41	24	eP	55	51.89	-1.2				eSg	17	14.10	
GRR	145.91	346	ePKP	58	10.00	0.0	KLU	3.41	65	eP	56	03.93	-3.0				eSg	17	02.30	8.5X
	0.6s	25.25nm					31 obs. associated										eSg	16	43.00	
LPL	146.05	335	ePKP	58	11.30	0.7	? NOV 12, 1990 17h 22m 44.34±2.15s										eSg	16	45.20	
	0.6s	9.45nm					5.018 S ±23.8km 153.192 E ±20.2km										eSg	16	45.20	
LPG	146.06	335	ePKP	58	11.40	0.7	DEPTH = 69.3 ± 27.5 km										eSg	16	45.20	
	0.6s	12.15nm					4.6mb (3 obs.)										eSg	16	45.20	
SMF	146.16	340	ePKP	58	10.60	0.1	NEW IRELAND REGION (190)										eSg	16	45.20	
	0.9s	25.40nm					RAB	1.31	309	iPd	23	07.00	-0.1				eSg	16	45.20	
AVF	146.19	340	ePKP	58	10.70	0.2											eSg	16	45.20	
	0.6s																			

12d 19h

BDV 0.90 191 ePg 23 35.00 -0.3
 ULC 1.22 173 ePg 23 42.00 1.4
 HVAR 1.91 271 iPnd 23 52.10 1.3
 BEO 1.93 31 ePn 23 53.50 2.4X
 SKO 2.13 123 iPn 23 56.20 2.2
 OHR 2.43 147 ePn 24 01.70 3.3X
 BZS 3.05 36 ePc 24 07.00 -0.1
 VAY 3.19 124 ePn 24 18.60 9.5X
 PTJ 3.52 322 ePn 24 13.00 -0.8
 ASS 4.69 271 P 24 32.00 1.6
 FVI 5.62 310 P 24 50.00 6.5X
 S.D. = 1.3 on 14 of 18 obs.

* NOV 12, 1990 19h 31m 51.68±1.11s
 4.381 S ±17.2km 152.575 E ±9.6km
 DEPTH = 104.3km (2 depth phases)
 4.6mb (4 obs.)
 NEW BRITAIN REGION (192)

RAB 0.45 295 iPc 32 10.00 2.2
 PMG 7.34 227 eP 33 39.00 1.1
 1.0s B0.00nm 5.2mb
 HNR 8.87 125 (P) 33 59.00 0.2
 S 35 39.00
 OIS 20.44 217 iPc 36 22.40 -0.5
 0.3s 4.00nm 4.2mb
 DZM 22.13 144 iPc 36 40.00 0.1
 BRS 22.88 180 iPc 36 48.50 1.4
 WBS 23.50 228 eP 36 53.50 0.4
 COO 26.07 181 iPd 37 17.30 0.1
 ASPA 26.31 221 iPc 37 18.80 -0.7
 0.5s 5.80nm 4.4mb
 WARB 32.96 226 eP 38 18.00 -0.6
 MBL 35.90 239 eP 38 42.00 -1.7
 MNG 41.55 153 P 39 30.30 -0.1
 LTZ 42.06 158 P 39 35.10 0.5
 SPA 85.65 180 iPc 44 18.90 -0.8
 1.0s 15.00nm 4.9mb
 PPD 144.85 139 e(PKP) 51 17.40 -1.5
 S.D. = 1.1 on 15 of 15 obs.

NOV 12, 1990 19h 42m 43.30±0.48s
 43.169 N ±4.9km 19.074 E ±4.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 3.0 (TTG).

PLE 0.28 55 iPg 42 48.00 -1.3
 NKY 0.36 189 ePg 42 50.00 -0.8
 BRY 0.47 236 iPg 42 51.10 -1.8
 IVA 0.67 116 iPg 42 56.20 -0.5
 TTG 0.75 169 ePg 42 57.00 -1.0
 HCY 0.84 211 ePg 42 58.00 -1.4
 PVY 0.88 131 ePg 42 59.90 -0.3
 BDV 0.90 192 ePg 43 00.20 -0.4
 ULC 1.21 174 ePg 43 06.80 0.9
 HVAR 1.92 271 iPnc 43 17.50 1.2
 BEO 1.93 31 ePn 43 18.20 1.8
 SKO 2.12 124 iPn 43 20.50 1.3
 1.2s 110.00nm
 OHR 2.42 147 iPn 43 27.20 3.6X
 0.6s 93.00nm
 Lg 44 02.20
 Lg 44 10.70

LCI 2.95 197 P 43 38.00 6.9X
 BZS 3.05 36 ePc 43 30.00 -2.4
 VAY 3.19 124 ePn 43 37.00 2.6
 PTJ 3.52 322 ePn 43 37.50 -1.8
 VBY 3.60 312 ePn 43 40.70 0.4
 SGO 3.84 228 P 43 45.00 1.4
 RIY 4.01 304 eP 43 56.60 10.6X
 SDI 4.16 251 P 43 48.00 -0.2
 CEY 4.20 309 e(Pn) 43 58.50 9.6X
 LJU 4.33 313 eP 44 02.50 11.8X
 ARV 4.49 276 P 43 53.00 0.1
 TRI 4.57 306 eP 43 59.10 5.0X
 ASS 4.70 271 P 43 57.00 1.1
 MNS 4.77 263 P 43 56.00 -1.0
 CRE 5.21 277 P 44 04.50 1.3
 SFI 5.30 281 P 44 05.00 0.6
 FVI 5.63 310 P 44 12.00 3.0X
 CTI 6.03 301 P 44 15.00 0.2
 S.D. = 1.4 on 24 of 31 obs.

* NOV 12, 1990 19h 47m 45.54s
 62.036 N 151.172 W
 DEPTH = 68.8km
 CENTRAL ALASKA (1)
 <AGS-P>.

SKT 0.18 252 iP 47 55.62 1.2
 CUT 0.56 48 iP 47 58.30 -0.7
 SUA 0.61 160 eP 47 59.45 -0.2
 PWA 0.73 122 iP 48 00.58 -0.2
 NCG 0.79 217 iP 48 00.98 -0.8
 CGLM 0.83 209 eP 48 01.52 -0.7
 CRP 0.90 212 eP 48 02.54 -0.6
 SPU 0.96 207 iP 48 02.82 -0.9
 BGL 0.97 217 eP 48 03.40 -0.6
 CKL 1.01 214 eP 48 03.61 -0.9
 PLRM 1.07 114 eP 48 04.22 -0.8
 GHO 1.10 103 eP 48 05.13 -0.4
 PMS 1.11 135 eP 48 05.24 -0.4
 HUR 1.18 36 eP 48 05.39 -1.3
 KNK 1.44 115 iP 48 09.00 -1.0
 TRF 1.48 16 iP 48 09.29 -1.5
 RDT 1.58 203 eP 48 11.09 -1.0
 SLKM 1.60 163 eP 48 11.91 -0.4
 NCT 1.71 211 eP 48 12.88 -0.9
 RDN 1.71 207 eP 48 12.49 -1.4
 RND 1.74 37 eP 48 12.63 -1.6
 RS2 1.75 207 eP 48 13.49 -1.1
 RSO 1.75 207 eP 48 13.72 -0.8
 SCM 1.83 95 eP 48 14.06 -1.4
 INE 2.19 206 eP 48 19.49 -1.0
 GLI 2.28 119 eP 48 19.80 -1.8
 KNIM 2.37 134 eP 48 24.25 1.3
 KLU 2.56 100 eP 48 23.19 -2.4
 LTI 2.57 140 eP 48 22.75 -2.9
 PAX 2.81 68 eP 48 27.42 -1.7
 30 obs. associated

* NOV 12, 1990 20h 44m 31.40±1.57s
 43.237 N ±12.3km 19.006 E ±9.2km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.3 (TTG).

PLE 0.30 72 iPg 44 37.80 0.1
 NKY 0.42 181 ePg 44 40.00 -0.1
 BRY 0.48 225 iPg 44 40.80 -0.3
 IVA 0.75 119 ePg 44 45.90 -0.2
 TTG 0.83 167 ePg 44 46.80 -0.6

HCY 0.87 206 ePg 44 48.00 -0.2
 eSg 45 02.00
 BDV 0.96 188 ePg 44 51.00 1.3
 eSg 45 07.00
 HVAR 1.87 269 iPn 45 06.60 2.9X
 iSg 45 34.20
 S.D. = 0.7 on 7 of 8 obs.

& NOV 12, 1990 20h 58m 01.10s
 35.987 N 119.985 W
 DEPTH = 6.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.7 (BRK). Felt (IV)
 at Avenal.

PHAM 0.37 246 eP 58 10.20 1.7
 PRI 0.57 286 ePc 58 12.60 0.0
 BCH 0.80 186 eP 58 19.30 2.1
 LLA 1.00 309 iPc 58 19.40 -1.0
 FRI 1.03 12 ePd 58 19.80 -1.1
 PRS 1.17 287 ePc 58 22.00 -1.4
 eS 58 37.50
 ABL 1.29 151 eP 58 26.80 1.2
 SAO 1.41 304 ePc 58 26.20 -1.1
 ARN 1.84 318 eP 58 34.00 0.4
 CMB 2.07 351 eP 58 36.40 -0.4
 iS 59 01.70
 TNP 3.05 46 eP 58 55.50 4.6
 11 obs. associated

* NOV 12, 1990 20h 58m 55.21±2.37s
 32.473 N ±17.1km 3.584 W ±19.4km
 DEPTH = 33.0km (normal)
 MOROCCO (395)
 MD 4.4 (RBA).

IFR 1.66 309 iPd 59 22.60 0.0
 i 59 43.50
 EMEL 2.87 10 eP 59 47.00 7.6X
 eS 00 12.00
 AVE 3.33 285 iPd 59 45.50 -0.6
 i 00 23.00
 iS 00 31.00
 i 00 33.00
 TIO 3.49 245 iP 59 49.00 0.3
 iS 00 38.90
 OJEN 3.96 336 eP 00 13.00 17.7X
 PLAT 4.06 334 eP 00 11.00 14.4X
 EJIF 4.26 339 eP 00 01.00 1.6
 CNIL 4.39 333 eP 00 13.00 11.7X
 ENIJ 4.63 14 eP 00 04.50 -0.1
 AFC 4.77 0 eP 00 06.60 -0.2
 EBAN 5.68 358 eP 00 23.70 4.2X
 EPLA 7.84 346 eP 00 49.00 -0.9
 S.D. = 1.0 on 7 of 12 obs.

NOV 12, 1990 20h 58m 57.33±0.65s
 25.863 S ±5.2km 179.415 E ±8.2km
 DEPTH = 490.B ±9.1 km
 5.1mb (13 obs.)
 SOUTH OF FIJI ISLANDS (171)

SVA 7.76 353 iP 00 51.50 -0.6
 iS 02 26.20
 VUN 7.87 353 eP 00 51.50 -1.8
 SGE 8.35 350 eP 00 58.00 -0.5
 MBU 8.87 356 eP 01 04.90 0.9
 HBZ 11.74 184 eP 01 35.20 0.9
 0.3s 84.00nm 5.6mb
 PUZ 12.21 184 eP 01 38.70 -0.6
 WLZ 12.38 194 P 01 44.30 3.3X
 DZM 12.44 285 iPc 01 43.80 1.9
 TAZ 12.58 191 P 01 45.70 2.6
 NOZ 12.77 185 eP 01 43.90 -1.2
 PGZ 14.95 189 eP 02 06.40 -1.1
 0.4s 98.00nm 5.8mb
 MNG 15.08 192 eP 02 07.20 -1.7
 KIW 15.42 193 eP 02 11.30 -1.0
 MTW 15.60 191 eP 02 12.50 -1.6
 BLW 15.81 191 eP 02 15.50 -0.7
 MRW 15.82 193 eP 02 15.90 -0.3
 WEL 15.86 193 P 02 18.00 1.3
 S 04 59.00

TCW	15.89	194	eP	02	16.80	-0.2	RTBS	0.44	60	ePd	39	19.00	-0.2	PSO	11.67	147	eP	51	33.00	1.4
THZ	16.75	197	eP	02	26.70	1.1	RTCB	1.02	67	ePd	39	23.80	-0.3	ZOBO	31.23	150	eP	55	09.00	5.5X
KHZ	17.21	195	eP	02	29.80	-0.2			eS	39	40.00		Z	24s		0.15um			3.6MszX	
	0.4s	128.00nm			5.9mb		RTCV	1.16	89	ePc	39	25.90	0.4			LR		05	48.00	
LTZ	17.87	197	eP	02	36.50	0.0	RTLL	1.34	66	iPc	39	27.00	-0.5	ALQ	31.54	322	eP	55	03.00	-2.7
MOZ	18.64	196	eP	02	44.90	1.1	CFA	1.44	79	iPc	39	28.90	0.3			e		55	11.00	
BRS	23.85	260	iPc	03	34.60	2.1			S	39	48.80		ANMO	31.54	322	P	55	11.50	5.8X	
RMQ	27.49	262	iPc	04	05.20	0.3	RTRS	1.75	13	iPc	39	32.50	0.3	SIV	34.97	140	P	55	35.00	-0.4
	0.2s	19.00nm			5.3mb				eS	39	55.10		TNP	40.30	318	(P)	56	21.00	0.9	
CAN	27.74	243	eP	04	09.20	2.2		S.D. = 0.5	on	6	of	6	obs.	YKA	55.92	343	eP	58	22.30	1.5
BWA	28.05	245	eP	04	09.50	-0.2									0.7s	3.20nm		4.5mb		
CMS	29.92	251	eP	04	27.00	1.0	& NOV 13, 1990	00h	27m	58.61s			INX	65.62	342	eP	59	28.00	1.5	
TOO	30.97	240	iPd	04	27.00	-7.9X	59.850 N			151.969 W			MBC	67.87	351	eP	59	47.00	6.2X	
	0.4s	16.00nm			4.9mb		DEPTH = 60.9km						WRA	142.48	252	PKP	08	15.00	-1.1	
ADE	36.05	246	eP	05	18.00	0.3	KENAI PENINSULA, ALASKA	(14)							1.1s	0.80nm				
OIS	36.87	270	ePd	05	25.00	0.6	<AGS-P>.							S.D. = 1.7	on	9	of	12	obs.	
ASPA	41.23	263	eP	06	00.00	0.0														
	0.5s	50.70nm			5.3mb		HOM	0.25	139	eP	28	08.55	0.0	? NOV 13, 1990	01h	29m	40.70±0.97s			
		iS		11	33.70		NNL	0.39	60	iP	28	10.22	0.6	44.579 N ± 6.4km			7.269 E ± 14.2km			
WB5	41.78	269	eP	06	04.00	-0.4	XLV	0.42	162	eP	28	09.05	-0.9	DEPTH = 10.0km	(geophysicist)					
		eS		11	44.00				eS	28	17.56		NORTHERN ITALY	(545)						
WRA	41.78	269	P	06	04.00	-0.4	CNPM	0.49	131	iP	28	10.28	-0.4	PZZ	0.14	238	P	29	44.12	0.0
	0.6s	48.00nm			5.2mb				eS	28	19.65				S		29	46.17		
FORR	45.11	251	iPc	06	30.50	0.1	BRLK	0.55	98	iP	28	10.91	-0.5	BHB	0.26	359	P	29	46.27	0.0
	0.4s	119.00nm			5.8mb		INE	0.59	292	iP	28	10.93	-1.0			S		29	49.76	
WARB	47.14	257	eP	06	45.70	-0.4			iS	28	20.87		STV	0.34	173	P	29	47.81	0.1	
KNA	48.15	272	eP	06	54.40	0.6	INW	0.62	291	eP	28	11.40	-0.8			S		29	52.22	
COOL	51.03	250	eP	07	14.40	-0.7	OPT	0.67	253	iP	28	11.96	-0.7	ENR	0.37	163	P	29	48.22	-0.1
KLB	53.76	249	eP	07	34.40	-0.4	RSO	0.73	328	iP	28	13.16	-0.4			S		29	53.04	
	0.5s	19.00nm			4.7mb				eS	28	24.88			S.D. = 0.1	on	4	of	4	obs.	
MBL	54.45	262	eP	07	38.00	-1.8	RS2	0.73	328	iP	28	13.19	-0.4	& NOV 13, 1990	02h	03m	09.59s			
	0.5s	18.00nm			4.7mb		REF	0.74	331	iP	28	13.17	-0.5	62.799 N			150.570 W			
BAL	54.83	250	eP	07	41.00	-1.4	RDT	0.76	343	iP	28	13.18	-0.6	DEPTH = 88.4km						
MUN	54.98	248	eP	07	43.00	-0.4	RDN	0.78	330	iP	28	13.48	-0.6	CENTRAL ALASKA	(1)					
MAT	73.22	326	(P)	09	37.00	-2.0			eS	28	25.46		<AGS-P>.							
	1.0s	11.00nm			4.4mb		NCT	0.86	327	iP	28	14.69	-0.4	CUT	0.42	161	iP	03	23.67	-0.1
BCH	83.42	46	ePd	10	35.10	1.6			eS	28	27.54				iS		03	33.92		
ABL	83.78	47	ePd	10	36.50	1.1	AGU	0.89	237	eP	28	15.03	-0.5	HUR	0.46	67	iP	03	23.89	-0.2
ARN	83.85	43	eP	10	36.70	1.2	AUH	0.89	238	eP	28	15.09	-0.4			eS		03	34.34	
PLM	84.46	49	iPd	10	40.30	1.5	AUI	0.90	236	eP	28	14.94	-0.6	TRF	0.67	11	iP	03	25.97	-0.1
		e		10	54.30		NKA	0.97	22	eP	28	17.68	1.3			eS		03	38.33	
PEC	84.58	48	ePd	10	40.20	1.1	SLKM	1.09	52	eP	28	17.38	-0.8	SKT	0.94	209	iP	03	28.35	-0.4
CMB	84.99	43	eP	10	41.00	-0.1	PDB	1.13	268	eP	28	17.53	-1.0	RND	0.99	51	iP	03	29.08	-0.4
TNP	87.00	45	ePd	10	51.50	0.5	CDD	1.26	224	eP	28	19.52	-0.8			eS		03	43.38	
	0.8s	5.88nm			4.4mb		SYI	1.26	190	eP	28	19.56	-0.8	MCK	1.19	38	eP	03	30.97	-0.9
BJI	88.08	317	eP	10	56.00	0.3	SEW	1.29	78	eP	28	20.97	0.2	PWA	1.20	164	eP	03	31.95	0.1
	1.2s	10.00nm			4.5mb		SPU	1.34	358	eP	28	20.77	-0.7	GHO	1.29	143	eP	03	33.14	0.1
NB2	143.92	350	PKP	17	34.60	-2.3	CKL	1.36	352	eP	28	21.84	0.0			eS		03	51.37	
	0.7s	19.50nm					MCNL	1.38	242	eP	28	20.60	-1.4	SUA	1.34	184	eP	03	34.12	0.3
HFS	144.35	348	ePKP	17	35.20	-2.4			eS	28	38.00		PLRM	1.39	150	eP	03	34.30	0.1	
	0.5s	14.30nm					CRP	1.42	356	eP	28	22.87	0.1	BWN	1.46	19	eP	03	34.96	-0.2
DSI	148.05	289	ePKP	17	49.00	4.5X	BGL	1.43	352	eP	28	23.01	0.2	NCG	1.59	209	eP	03	36.49	-0.4
PRNI	148.38	286	ePKP	17	50.00	4.9X	CGLM	1.46	359	eP	28	23.13	-0.1	PMS	1.63	163	eP	03	37.16	-0.3
MBH	148.47	285	ePKP	17	50.50	5.1X	NCG	1.56	357	eP	28	24.70	0.1	CGLM	1.64	205	eP	03	37.73	0.1
KRA	151.11	332	ePKP	17	54.80	6.2X			eS	28	44.92		KNK	1.71	144	eP	03	38.21	-0.2	
KSP	151.90	337	iPKP	17	57.00	7.3X	SUA	1.73	20	eP	28	27.11	0.2	BGL	1.76	210	eP	03	39.72	0.5
CLL	152.55	341	iPKPc	17	58.30	7.7X	PMS	1.84	39	eP	28	28.39	0.0	SPU	1.77	204	eP	03	39.21	0.0
	0.9s	11.00nm					PWA	2.08	29	eP	28	31.19	-0.5	CKL	1.81	208	eP	03	39.95	0.1
S.D. = 1.3	on	50	of	58	obs.		LTi	2.08	83	eP	28	31.83	0.1	WRH	2.01	32	eP	03	41.23	-1.2
? NOV 12, 1990	22h	06m	01.83±7.07s				KDC	2.13	188	eP	28	30.80	-1.5	TOA	2.16	107	eP	03	45.00	0.5
9.990 S ± 65.8km			123.537 E ± 27.9km				SKT	2.15	6	eP	28	32.92	0.2	CCB	2.23	32	eP	03	44.00	-1.3
DEPTH = 33.0km	(normol)						KNIM	2.18	75	eP	28	31.39	-1.7	HDA	2.28	43	eP	03	45.10	-1.0
3.6mb (1 obs.)							SVW	2.21	306	eP	28	31.70	-1.8	SDG	2.34	94	eP	03	46.79	-0.1
TIMOR	(289)						PLRM	2.24	37	eP	28	33.16	-0.7	PAX	2.34	84	eP	03	47.01	0.0
							PMR	2.24	37	eP	28	33.20	-0.7	RDT	2.40	202	eP	03	47.78	0.0
KUG	0.18	163	eP	06	07.50	-0.7	KNK	2.34	46	eP	28	34.12	-1.2	KLU	2.55	119	eP	03	47.88	-1.9
KNA	7.67	139	eP	07	54.70	0.7	GHO	2.44	36	eP	28	36.07	-0.7	RS2	2.57	205	eP	03	51.10	0.9
	0.3s	8.00nm			5.3mb X		GLI	2.63	65	eP	28	37.28	-2.2	RSO	2.57	205	eP	03	51.10	0.9
		eS		09	17.00		CUT	2.69	17	eP	28	40.70	0.4		28 obs. associated					
MTN	7.97	112	eP	07	59.00	0.7	KLU	3.40	58	eP	28	48.38	-2.1							
	0.3s	61.00nm			6.2mb X		TOA	3.62	49	eP	28	52.80	-0.7							
		eS		08	37.00		TTA	3.65	330	eP	28	52.30	-1.6							
MBL	11.66	197	eP	08	49.50	0.4	TRF	3.70	12	eP	28	54.71	0.0							
		eS		10	50.00		FBA	5.43	19	eP	29	16.90	-1.9							
WB5	14.35	134	eP	09	23.00	-1.8		49 obs. associated												
		eS		11	51.50		? NOV 13, 1990	00h	48m	43.93±0.81s										
ASPA	16.82	145	eP	09	57.20	0.6	11.122 N ± 21.0km			83.599 W ± 27.3km										
	0.9s	4.90nm			3.6mb		DEPTH = 33.0km	(normol)												
		eS		12	52.50		4.5mb (1 obs.)													
S.D. = 1.3	on	6	of	6	obs.		NICARAGUA	(75)												
? NOV 12, 1990	22h	39m	01.44±3.43s				MD 4.6 (UPA).													
31.886 S ± 29.1km			69																	

13d 02h

seconds apart. Depth from
broodband displacement
seismograms, based on first
event.

FAULT PLANE SOLUTION: P-Waves

NP1:Strike=220 Dip=60 Slip= 90

NP2: 40 30 90

Principal Axes:

T P1g=75 Azm=130

P 15 310

Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting. The preferred fault
plane is not determined.

RADIATED ENERGY

No. of sta: 11 Focal mech. C

Energy 7.9±1.3*10**12 Nm

MOMENT TENSOR SOLUTION

Dep 16 No. of sta: 15

Moment Tensor: Scale 10**17 Nm

Mrr= 7.34 Mtt=-0.32

Mff=-7.03 Mrt= 0.40

Mrf=-2.20 Mtf=-5.49

Principal axes:

T Vol= 7.91 P1g=74 Azm= 48

N 2.37 15 207

P -10.28 6 299

Best Double Couple:Ma=9.1*10**17

NP1:Strike= 45 Dip=42 Slip= 113

NP2: 195 52 71

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 36C

Centroid Location:

Origin Time 02:35:15.5 0.2

Lat 46.02N 0.03 Lon 138.42E 0.04

Dep 15.0 BDY Half-duration 3.0

Moment Tensor: Scale 10**17 Nm

Mrr= 8.45 0.17 Mtt=-1.30 0.21

Mff=-7.15 0.25 Mrt= 0.71 0.60

Mrf=-0.14 0.73 Mtf=-2.62 0.19

Principal Axes:

T Vol= 8.51 P1g=85 Azm= 15

N -0.36 5 201

P -8.15 0 111

Best Double Couple:Ma=8.3*10**17

NP1:Strike=196 Dip=45 Slip= 83

NP2: 26 46 96

YSS 2.96 71 iPd 35 56.00 0.8

ASAJ 3.46 124 P 36 00.30 -2.0

SAP 3.60 147 eP 36 03.00 -1.4

MRRJ 4.07 154 P 36 10.10 -0.9

HOQJ 5.00 136 P 36 22.10 -2.0

KUSJ 5.28 123 eP 36 28.30 0.2

AOMJ 5.68 167 eP 36 33.70 -0.2

MDJ 6.54 260 Pnc 36 47.00 1.0

0.8s 600.00nm 6.6mb

Pg 37 10.50

Sn 37 56.00

OFUJ 7.37 161 P 36 57.10 -0.4

YAMJ 7.99 172 P 37 08.70 2.4

NIUJ 8.86 178 iP+ 37 20.80 2.5

MTMJ 9.53 184 P 37 29.40 1.7

MAT 9.56 182 iPc 37 30.40 2.4

1.3s 730.77nm 6.9mb

ES 39 17.00

CN2 9.63 261 Pd 37 31.00 2.1

5.0s 3400.00nm 7.0mb X

SP 37 39.00

ES 39 21.00

KAKJ 9.96 173 P 37 31.10 -2.3

CHJJ 10.05 178 P 37 35.00 0.2

IIDJ 10.63 183 P 37 46.00 3.3X

TSRJ 10.75 192 P 37 47.70 3.4X

YONJ 11.59 202 P 37 58.40 2.7

SNY 11.66 254 iPd 38 01.00 4.3X

E 11s 189.00um

WKYJ 12.10 192 eP 38 04.70 2.0

SHK 12.42 203 eP 38 10.00 3.1X

TKSJ 12.60 198 P 38 12.40 3.0X

HIA 13.12 291 iPd 38 20.18 4.0X

SHNJ 13.27 208 eP 38 22.60 4.4X

DL2 14.45 246 Pc 38 36.00 2.3

6.0s 6100.00nm 6.4mb X

Z 12s 46.00um 5.0MsZ X

N 13s 66.50um

E 13s 51.40um

PET 14.69 55 eP 38 42.00 5.3X

41 36.00

KUMJ 14.83 207 P 38 42.90 4.2X

KAGJ 16.06 205 eP 38 56.50 1.7

BJI 17.47 258 ePc 39 14.58 2.2

TIA 18.92 246 Pd 39 32.10 1.7

7.5s 8400.00nm 6.0mb X

N 10s 19.70um

E 10s 51.20um

SP 39 42.00

SSE 20.20 228 iPc 39 44.00 -0.7

4.0s 2000.00nm 5.8mb X

Z 12s 38.80um 6.0MsZ X

N 12s 29.10um

E 11s 22.40um

pP 39 52.00 30kmX

S 43 32.00

HHC 20.29 265 P 39 46.00 0.2

Z 10s 146.00um 6.6MsZ X

N 11s 37.60um

SP 39 55.00

NJ2 20.73 234 Pc 39 49.80 -0.4

1.0s 400.00nm 5.7mb

Z 12s 28.80um 5.9MsZ X

N 12s 44.90um

E 12s 23.10um

pP 40 00.50 43kmX

SP 40 05.50

S 43 41.00

TIY 21.16 256 iPc 39 55.00 0.3

1.2s 500.00nm 5.8mb

Z 11s 35.80um 6.0MsZ X

N 11s 32.00um

SP 40 04.50

BT0 21.46 265 P 39 58.00 0.2

N 10s 45.30um

E 10s 43.60um

pP 40 07.00 33kmX

PP 40 27.00

IRK 23.11 298 eP 40 15.00 1.0

iS 44 30.00

SMY 23.82 61 P 40 30.00 9.2X

WHN 24.45 239 Pd 40 26.50 -0.6

4.0s 3100.00nm 6.3mb X

Z 14s 33.10um 6.0MsZ X

E 11s 48.90um

pP 40 38.00 45kmX

ANP 24.98 219 iPc 40 34.00 1.6

ES 45 00.00

XAN 25.58 252 Pd 40 37.50 -0.4

1.5s 200.00nm 5.6mb

TIK 26.03 353 ePc 40 41.00 -0.7

ES 45 17.00

OZH 26.54 224 P 40 46.50 -0.3

7.0s 1500.00nm 5.8mb X

N 12s 24.10um

E 12s 12.60um

SP 40 58.00

LZH 27.87 261 iPc 40 58.01 -1.1

GTA 29.06 271 P 41 09.20 -0.5

4.0s 1250.00nm 6.0mb X

Z 10s 55.50um 6.5MsZ X

E 10s 45.50um

pP 41 20.00 40kmX

PP 42 10.00

S 45 59.00

S 46 17.00

GZH 30.76 230 P 41 24.00 -0.8

Z 14s 36.30um 6.2MsZ X

N 11s 32.00um

E 13s 22.50um

ILT 30.86 30 iPd 41 25.00 -0.2

iS 46 28.00

CD2 30.94 253 eP 41 25.00 -1.4

1.7s 290.00nm 5.9mb

Z 12s 46.40um 6.4MsZ X

N 10s 31.90um

HKC 30.96 228 eP 41 30.00 3.4X

GYA 32.07 243 P 41 34.40 -2.1

N 10s 27.20um

E 10s 27.80um

S 46 46.00

GUMO 32.84 169 eP 41 42.10 -0.9

1.1s 310.95nm 6.2mb

Z 20s 4.23um 5.1MsZ

PJG 32.84 169 eP 41 41.80 -1.2

GUA 32.89 169 eP 41 42.00 -1.5

0.7s 54.79nm 5.6mb

BAG 33.22 213 eP 41 44.00 -2.6

KMI 35.49 246 Pd 42 05.00 -1.2

1.5s 620.00nm 6.3mb

E 10s 21.40um

ES 47 36.00

SS 47 58.00

WMO 35.62 285 iPc 42 06.48 -0.4

ic 42 08.64 7kmX

ePP 43 35.37

ePcP 44 27.52

QIZ 35.94 231 eP 42 08.00 -1.7

N 12s 21.90um

E 13s 19.10um

BRW 39.10 28 ePc 42 36.60 0.9

TTA 39.52 41 ePc 42 39.60 0.2

1.5s 456.60nm 5.9mb

SVW 39.94 44 ePc 42 43.80 0.9

IMA 40.22 36 iPc 42 45.40 0.2

1.4s 249.40nm 5.7mb

e 42 53.00 26kmX

LSA 40.26 263 eP 42 46.80 0.5

Z 10s 44.50um 6.6MsZ X

N 11s 8.20um

PP 44 26.00

S 48 52.00

SS 51 42.00

DAV 40.47 200 eP 42 44.00 -3.6X

LOE 41.86 239 eP 42 58.00 -1.0

KDC 42.20 48 ePc 43 00.60 -0.8

1.8s 947.50nm 6.2mb

CHG 42.49 244 ePc 43 04.00 -0.2

1.3s 202.88nm 5.7mb

eS 49 34.00

CHTO 42.49 244 iPc 43 02.39 -1.8

ic 43 04.37

esPd 43 06.69 14kmX

esPd 43 08.51

ed 43 11.00

ePP 44 44.41

e 45 39.04

TLG 42.70 289 eP 43 04.00 -1.7

ES 49 33.00

COL 42.81 37 iPc 43 06.16 -0.1

ic 43 07.98 6kmX

ed 43 14.93

ePP 44 49.69

ES 49 29.43

esS 49 44.88

e 52 51.09

FBA 42.81 37 iPc 43 06.90 0.6

1.4s 869.00nm 6.3mb

e 43 15.00 27kmX

PMR 42.92 42 ePc 43 06.70 -0.5

1.4s 527.10nm 6.1mb

Z 20s 5.00um 5.4MsZ

BDT 43.64 242 eP 43 13.20 -0.3

TOA 44.15 41 eP 43 17.70 0.4

e 43 26.30 29kmX

NST 44.17 239 eP 4

SNG	50.73	232	iPd	51 25.00	44 10.80	1.7	HYA	66.39	337	eP	45 04.10	26kmX	PTI	71.31	47	P	46 30.20	1.3	
	1.2s		656.25nm			6.5mb	FHC	66.44	55	eP	45 57.10	-0.8	KSP	71.37	326	eP	46 28.00	-0.9	
			eS	51 29.00			KONO	66.66	335	ePc	45 59.70	1.1		1.6s		476.00nm		6.4mb	
SIT	51.11	44	ePc	44 13.00						ec	45 58.20	-1.4				ic	46 29.40	5kmX	
			e	44 21.10	27kmX					ec	46 01.18	10kmX				i	46 30.40		
KBS	51.38	349	eP	44 14.90	1.5		SHI	66.76	289	eP	46 10.62		PSN	71.46	314	iPd	46 30.00	0.5	
RAB	51.50	163	e(P)	44 12.00	-3.0X		SUE	66.86	338	eP	45 58.00	-3.0	FRI	71.47	56	ePc	46 29.50	-0.2	
IPM	52.67	230	ePd	44 24.70	0.8		AKU	67.10	350	iP	46 01.00	0.1				eP'P'	46 28.60	29kmX	
	1.0s		381.60nm			6.3mb		1.5s		300.00nm		6.2mb	PRI	71.51	57	eP	46 30.50	0.4	
			e	44 33.00	27kmX		KER	67.17	296	eP	46 04.60	-0.5	ANTO	71.80	309	ePc	46 31.70	0.0	
APA	53.66	333	eP	44 30.30	-0.2		ASK	67.23	337	eP	46 02.50	-0.7				ec	46 33.52		
KGM	53.67	226	ePd	44 32.50	1.3		FFC	67.23	33	eP	46 03.00	-0.4				epPd	46 36.00	14kmX	
	1.2s		795.20nm			6.6mb		0.8s		90.00nm		6.0mb				ed	46 41.80		
			e	44 40.20	25kmX		LBFM	67.26	54	P	46 04.60	0.5	BBTK	71.83	309	iPc	49 12.99		
KEV	54.26	337	iP	44 35.00	0.1		BER	67.27	337	eP	46 04.00	0.5	PHAM	71.87	57	P	46 32.00	0.0	
TSI	54.90	232	e(P)	44 39.00	-1.3		WDC	67.41	55	ePc	46 04.70	0.0				i	46 33.30	1.1	
BSI	55.11	236	ePd	44 42.50	0.7					i	46 13.80	29kmX	TNR	71.90	318	ePd	46 33.00	0.8	
KTK1	55.77	337	eP	44 45.10	-0.9					eP'P'	14 21.00		BUC	71.95	316	iPd	46 33.00	0.6	
PMG	55.78	170	eP	44 46.00	-0.5		SIM	67.55	312	eP	46 04.00	-1.6	COZ	72.12	317	ePc	46 35.00	1.4	
SOD	55.85	334	iP	44 44.80	-1.7					eS	55 16.00		TNP	72.12	54	P	46 33.80	-0.1	
TRO	56.49	339	eP	44 49.73	-1.4		BLS2	67.73	336	eP	46 07.30	0.7	PSZ	72.16	322	iP	46 34.60	0.9	
QUE	56.73	281	iPc+	44 52.70	-0.9	7.2mb	MIN	68.10	54	ePc	46 08.80	-0.5	BRG	72.25	327	iP	46 34.00	-0.1	
	1.1s		2677.22nm							e	46 17.30	27kmX		1.4s		380.00nm		6.3mb	
			ePcP	45 49.80						eP'P'	14 20.00					i	46 43.20	30kmX	
			ePP	47 01.80			FRB	68.40	13	eP	46 09.00	-1.5				i	46 59.40		
			eS	52 42.30				1.4s		612.00nm		6.6mb				eS	55 56.00		
HYB	56.98	261	eP	44 54.00	-1.3		BSD	68.54	329	eP	46 10.60	-0.9	CLL	72.26	328	iPc	46 33.40	-0.7	
	1.2s		242.80nm			6.1mb		1.2s		512.00nm		6.6mb		1.5s		430.00nm		6.3mb	
MAIO	58.05	291	iPc	45 03.00	0.3		ORV	68.69	55	ePc	46 12.90	0.2	EDR	72.34	339	eP	46 33.10	-1.5	
	1.3s		96.41nm			5.7mb	MBL	69.08	199	iPc	46 13.80	-1.4		1.2s		200.00nm		6.1mb	
			eS	53 08.00			LRM	69.16	45	eP	46 14.90	-1.0	DZM	72.39	153	iPd	46 36.10	0.8	
SVO	58.19	155	eP	45 03.00	-0.6					i	46 16.00	4kmX	BCH	72.51	57	P	46 37.30	1.2	
TRT	58.39	211	ePc	45 04.50	-0.5		IAS	69.23	317	eP	46 17.00	1.1	QLP	72.52	175	eP	46 35.00	-0.8	
	1.0s		249.10nm			6.2mb	BRK	69.39	57	eP	46 16.80	-0.2	DRA	72.64	317	ePd	46 38.00	1.5	
HNR	58.49	155	eP	45 05.00	-0.7					eLR	08 02.00		SGE	72.67	141	eP	46 39.00	2.0	
LOF	58.93	339	eP	45 06.41	-1.9		BKS	69.40	57	iPc	46 16.00	-1.1	EYL	72.71	311	iP	46 37.90	0.8	
SUF	59.01	330	iP	45 07.00	-1.9			0.7s		90.00nm		6.0mb	PRU	72.73	326	eP	46 36.50	-0.5	
PUL	59.41	326	iPd	45 12.00	0.3					i	46 25.80	31kmX		Z	13s		21.10um	6.6MsZx	
			eS	53 22.00						iPP	49 03.00			N	15s		8.10um		
POO	59.46	265	iPc	45 12.20	-0.5					iS	55 51.00			E	12s		11.70um		
	0.9s		184.87nm			6.2mb				iScS	56 37.00					i	46 38.00	5kmX	
OBN	59.71	319	iPd	45 13.30	-0.6					iLO	05 11.00		WARB	72.76	191	eP	46 36.80	-0.5	
	1.6s		840.00nm			6.6mb				iLR	08 00.00		HRT	72.78	311	iP	46 38.40	0.9	
Z	13s		34.00um			6.7MsZx	ASPA	69.57	185	iPd	46 15.00	-3.2X	EDU	72.79	339	eP	46 36.80	-0.4	
			eS	53 22.00				1.1s		158.40nm		6.1mb		1.5s		236.00nm		6.0mb	
GBA	60.41	258	Pc	45 17.20	-1.9		Z	22s		1.40um		5.2MsZ	BW06	72.80	46	P	46 36.90	-0.9	
	0.9s		198.10nm			6.2mb				iP'P'	14 23.10		RMQ	72.83	171	iPc	46 35.60	-2.1	
NUR	61.04	329	eP	45 21.00	-1.8		PCC	69.57	57	eP	46 17.60	-0.5		1.0s		255.00nm		6.3mb	
	1.0s		280.00nm			6.3mb	PPE	69.90	316	ePc	46 20.00	0.0	BUD	72.87	322	iP	46 38.30	0.5	
PGC	61.70	48	eP	45 25.00	-2.5		MHC	70.11	57	ePc	46 22.80	1.2	ITU	72.91	312	iPc	46 36.00	-2.1	
NSS	62.10	337	iPd	45 29.45	-0.5					eP'P'	14 16.00		SRO	72.91	323	iP	46 38.70	0.7	
KNA	62.20	191	eP	45 29.20	-1.9		GCC	70.12	57	ePc	46 21.10	-0.4	GBZT	72.92	311	eP	46 38.30	0.1	
GMW	62.74	49	P	45 34.70	0.2		ARN	70.17	57	P	46 22.80	0.9	ISK	72.92	312	iP	46 38.40	0.2	
KOD	62.81	256	iPc	45 34.90	-0.7		KAS	70.21	309	iPd	46 23.50	1.4	DUG	73.01	49	P	46 38.50	-0.5	
	0.8s		156.72nm			6.2mb	CMB	70.36	55	ePc	46 22.70	-0.4		1.2s		63.03nm		5.6mb	
			eS	54 09.00						ec	46 24.36	5kmX				pP	46 47.50	29kmX	
BMW	63.19	50	P	45 38.20	0.7					ec	46 30.65		SYP	73.03	58	eP	46 40.00	0.8	
PNT	63.23	46	iPc	45 37.00	-0.7					iS	55 36.44		ELO	73.03	339	eP	46 37.70	-1.0	
	1.0s		137.00nm			6.1mb				isS	55 51.06			1.3s		240.00nm		6.1mb	
RMW	63.31	49	P	45 38.70	0.4		CFR	70.39	315	ePd	46 23.00	0.0	ISA	73.11	56	eP	46 39.00	-0.5	
EDM	63.61	40	eP	45 39.00	-1.2		BBU	70.40	288	eP	46 22.10	-1.2	ZST	73.12	323	iP	46 40.30	1.0	
RGS	63.71	336	eP	45 39.90	-0.7			1.1s		347.00nm		6.4mb				i	46 48.90	28kmX	
UPP	63.95	331	iPc	45 41.20	-1.0		KRA	70.50	323	iPd	46 23.40	-0.2				e	49 26.30		
GDH	64.61	5	iPd	45 36.90	-9.5X	6.3mb		1.4s		603.00nm		6.5mb	JMB	73.15	314	iP	46 40.00	0.5	
	2.0s		470.59nm					Z	15s		16.40um		6.4MsZx	CTT	73.18	312	iP	46 39.90	0.1
			e	54 32.00				E	16s		7.50um			EBH	73.18	339	eP	46 38.00	-1.5
			e	00 15.00						i	46 24.30	3kmX		1.4s		292.00nm		6.2mb	
MOL	64.86	337	iP	45 48.03	-0.1					i	46 31.90		PVL	73.21	315	iPd	46 40.00	0.2	
HFS	65.01	333	eP	45 47.40	-1.7					eS	55 37.00		IZI	73.23	311	eP	46 40.40	0.2	
	1.4s		689.00nm			6.6mb	DHR	70.55	288	eP	46 24.50	0.2	WIT	73.24	332	eP	46 41.50	1.7	
Z	15s		6.71um			6.0MsZx	UZH	70.57	321	eP	46 24.00	0.0	TIM	73.24	320	iPc	46 39.00	-1.0	
			LR	12 03.00						eS	55 40.00		ABL	73.25	57	P	46 41.40	0.9	
NB2	65.06	335	P	45 47.60	-1.9		VRI	70.58	317	ePd	46 25.00	0.8	MOX	73.31	328	iP+	46 41.00	0.7	
NEW	65.17	46	P	45 50.20	-0.2		SAO	70.62	57	eP	46 23.90	-0.7		1.7s		507.00nm		6.3mb	
	1.6s		204.46nm			6.1mb	TLB	70.88	315	ePc	46 27.00	1.0		Z	11s		16.50um	6.6MsZx	
TAB	65.24	300	iP+	45 52.00	0.9		CVO	70.88	317	ePc	46 27.00	0.9		N	10s		7.40um		
WB5	65.78	184	eP	45 51.90	-2.5		KVN	70.95	53	P	46 27.10	0.3		E	11s		10.00um		
WRA	65.85	184	P	45 52.00	-2.8		PRS	70.96	57	eP	46 26.40	-0.3	VKA	73.39	324	eP	46 41.50	0.7	
	0.8s		32.50nm			5.6mb	LLA	71.02	57	ePc	46 27.10	0.1		4.5s		1981.00nm		6.5mb X	
CTA	66.24	172	iPd+	45 56.30	-1.0	6.2mb	SPC	71.03	322	iP	46 27.90	0.8		Z	11s		9.85um	6.3MsZx	
	1.7s		307.69nm							e	47 03.10	144kmX				i	46 42.70	4kmX	
			iS	54 44.00						i	49 09.30					i	46 51.70		
CTAO	66.24	172	ePc	45 54.85	-2.5		ISR	71.20	316	ePd	46 29.00	1.0				LR	47 10.00		
			ec	45 56.50	5kmX		BRN	71.29	328	ePd	46 30.00	1.7					24 48.00		
			ed	46 03.79															
QIS	66.35	179	eP	45 56.00	-2.0				</										

13d 02h

EAB	73.44	339	eP	46	39.80	-1.2	PPCY	75.61	305	eP	46	52.80	-1.1	SCH	77.17	15	ePc	47	02.50	0.2	
	1.5s	425.00nm			6.3mb		ELL	75.61	308	iP	46	53.50	-0.5		1.4s	221.00nm			6.0mb		
HOF	73.49	328	iPc	46	41.60	0.2	TPC	75.62	56	eP	46	54.00	0.0	FORR	77.18	189	eP	47	02.00	-0.4	
	1.5s	269.00nm			6.1mb		SRS	75.64	315	iPc	46	54.24	0.3		0.4s	34.00nm			5.8mb		
CLC	73.51	55	eP	46	42.00	0.2	MDSJ	75.67	301	Pc	46	54.98	0.6	GOL	77.19	45	P	47	03.90	0.9	
DAU	73.67	48	P	46	43.60	0.6	PLM	75.69	57	eP	46	54.00	-0.6		1.4s	63.32nm			5.5mb		
KHC	73.80	326	iP	46	43.00	-0.2	PRK	75.70	312	eP	46	55.50	1.2	Z	19s	3.30um			5.7msz		
	1.4s	279.00nm			6.1mb		UCC	75.71	332	P	46	55.10	1.0	NEO	77.20	314	eP	47	02.80	0.0	
Z	12s	11.50um			6.4mszX		SALJ	75.74	301	Pc	47	00.79	6.1X	GLD	77.23	45	P	47	04.00	0.9	
N	13s	7.00um					CSTJ	75.78	300	Pd	46	54.88	-0.1	PRNI	77.34	301	iPd	47	03.90	0.3	
E	13s	12.50um					IZM	75.82	311	iP	46	54.90	-0.1	HVAR	77.37	321	iP	47	03.10	-0.5	
		S					LJU	75.90	324	ePc	46	55.50	0.2	BSF	77.41	329	eP	47	02.10	-1.7	
ALT	73.82	310	iP	46	43.80	0.2	MASJ	75.92	301	Pd	46	55.88	0.1		1.6s	323.40nm			6.1mb		
WTS	73.88	331	eP	46	43.50	0.0	PLE	75.93	319	eP	46	56.20	0.5	LLS	77.41	327	ePc	47	03.70	-0.3	
	1.2s	398.00nm			6.3mb		KNT	75.95	315	ePc	46	56.40	0.7	HAU	77.42	329	eP	47	02.20	-1.6	
		e					SNF	75.98	332	P	46	54.40	-1.2		1.4s	174.25nm			5.9mb		
EKA	73.92	338	Pd	46	44.30	0.6	SOH	75.98	315	ePc	46	55.96	0.0	Z	20s	5.50um			5.9msz		
	1.4s	131.40nm			5.8mb		UQSK	75.98	293	eP	46	56.00	-0.2	CMS	77.50	174	ePd	47	05.40	1.2	
RYD	73.96	289	eP	46	44.00	-0.6	VAY	75.99	316	iP	46	57.00	1.1			e			47	13.00	24kmX
DIM	73.98	315	iP	46	45.00	0.7		1.3s	458.00nm			6.4mb		VDL	77.55	327	ePc	47	04.70	-0.1	
BNT	74.03	312	eP	46	44.90	0.2	VBV	76.03	323	ePc	46	56.30	0.3	ECP	77.59	339	eP	47	05.20	0.7	
MJMA	74.04	291	eP	46	44.00	-1.0			i			47	03.70	24kmX		1.2s	442.00nm			6.4mb	
EDC	74.06	312	eP	46	45.00	0.1	SKO	76.03	317	eP	46	55.60	-0.5						47	05.60	-0.1
SBB	74.18	56	eP	46	46.00	0.3		1.7s	606.00nm			6.4mb		APC	77.79	299	eP	47	07.00	0.9	
GRF	74.24	328	ePc	46	46.00	0.3		Z	13s	9.63um		6.3mszX		AGG	77.87	314	ePc	47	06.40	0.0	
	1.6s	795.00nm			6.5mb			N	12s	2.33um			SAL	77.87	326	P	47	06.00	-0.2		
Z	18s	5.00um			5.8msz			E	13s	8.26um			ATH	77.97	313	eP	47	08.00	1.1		
		e(Pp)							i			5kmX	KAP	77.99	309	eP	47	07.40	0.3		
BRS	74.26	167	iPd	46	46.10	0.1			iPcP	47	06.00		MDI	78.05	326	P	47	07.00	-0.2		
		iS							iPP	49	49.00		TMA	78.10	327	ePc	47	07.10	-0.6		
PGB	74.28	316	iP	46	47.00	0.8			iPPP	51	36.00		EVR	78.21	315	eP	47	08.00	-0.4		
BEO	74.29	319	iP	46	46.30	0.2			iS	56	44.00		VAI	78.33	327	P	47	08.50	-0.3		
GSC	74.33	55	ePc	46	46.94	0.3			iSS	01	56.00		KMSA	78.38	287	eP	47	09.30	-0.2		
		ec							iSSS	05	22.00		IGT	78.45	316	ePc	47	09.84	0.3		
		ed					WATA	76.04	326	iPc	46	56.10	-0.2	RSM	78.48	323	P	47	11.00	1.4	
DBN	74.33	332	eP	46	48.00	1.9		1.5s	701.00nm			6.5mb	MMK	78.48	327	ePc	47	10.00	0.1		
Z	20s	2.00um			5.4msz				i			6kmX	KEK	78.57	316	eP	47	10.00	-0.2		
		ePcP					QTRJ	76.05	301	Pc	46	57.90	0.7	ARV	78.62	323	P	47	10.80	0.3	
		ePP					IVA	76.06	318	eP	46	57.00	0.6	BADA	78.65	299	eP	47	12.00	1.2	
		eSS					MKRJ	76.09	301	Pc	46	56.46	-0.3	DIX	78.67	328	ePc	47	11.80	0.8	
KDZ	74.34	314	iPd	46	47.00	0.5		FVI	76.17	325	P	46	56.60	-0.2	SFI	78.73	324	P	47	12.50	1.5
PAS	74.36	57	eP	46	47.00	0.3		VOY	76.17	324	eP	46	55.40	-1.6	VAL	78.74	341	eP	47	13.00	2.1
		ePcP					CEY	76.19	323	ePc	46	57.40	0.4	PGD	78.82	324	P	47	12.90	1.1	
		eSKS					DSI	76.23	301	iPd	46	57.60	0.2	ORX	78.83	327	P	47	10.76	-0.9	
		eS					DOU	76.24	332	P	46	57.10	0.0	EMS	78.85	328	ePc	47	12.10	0.2	
		ePPS					PVY	76.24	318	eP	46	58.10	0.7	BAL	78.89	199	eP	47	12.10	0.2	
		eSS					KSL	76.25	308	eP	46	57.50	0.0	CRE	78.93	324	P	47	12.50	0.2	
		eSSS					SQTA	76.27	326	iPd	46	57.30	-0.3	MME	78.97	325	P	47	14.00	1.3	
		eLg						1.5s	619.00nm			6.5mb	BOB	78.99	326	P	47	12.00	-0.6		
		eLR							i			6kmX	FLN	79.02	334	eP	47	10.80	-1.7		
MWC	74.37	57	eP	46	47.00	0.0	PLG	76.28	315	eP	46	57.70	0.1		1.4s	340.35nm			6.2mb		
BHL	74.41	303	P	46	48.00	0.9	BAR	76.28	57	eP	46	57.00	-0.7	Z	20s	6.75um			6.0msz		
KMR	74.44	325	iP+	46	47.00	0.1	GRG	76.35	316	iPd	46	58.58	0.6	NPS	79.04	310	eP	47	12.00	-0.9	
ALN	74.58	313	iPd	46	48.70	0.8	GHZJ	76.37	300	Pd	46	58.60	0.2	LDF	79.06	334	eP	47	11.10	-1.6	
BNS	74.63	331	iPd	46	47.60	-0.3	LISJ	76.41	301	Pd	46	59.54	1.2	ASS	79.09	323	P	47	13.80	0.7	
Z	11s	14.00um			6.5mszX		TRI	76.49	324	iPc	46	58.40	-0.2	BDI	79.12	325	Pc	47	13.50	0.2	
		iPP							ePP	51	44.00		LBF	79.12	330	eP	47	11.50	-1.7		
		iPPP							eS	56	35.00		SSF	79.22	331	eP	47	12.00	-1.6		
		iS							eSS	02	24.00		LSD	79.29	328	P	47	14.56	0.2		
RDO	74.65	314	eP	46	49.00	0.7			eSSS	06	46.00		VLI	79.33	313	eP	47	12.70	-1.7		
RZN	74.66	315	iPc	46	48.00	-0.5			eLR	13	30.00		VLS	79.38	315	eP	47	14.50	-0.2		
KHL	74.67	310	iP	46	48.30	-0.2	NKY	76.52	319	eP	46	59.00	0.0	LPL	79.40	328	eP	47	14.00	-0.9	
VTS	74.71	316	iPd	46	49.00	0.2	RIY	76.52	323	eP	46	58.10	-0.7	LPG	79.41	328	eP	47	14.20	-0.8	
BCK	74.72	308	eP	46	47.00	-1.8	SMG	76.55	311	eP	47	00.50	1.4		1.4s	272.30nm			6.1mb		
TNS	74.81	329	ePd	46	50.10	1.0	AFIF	76.63	291	eP	47	01.00	1.1	PII	79.44	325	P	47	14.00	-0.8	
HRI	74.81	302	eP	46	49.00	-0.4	OGA	76.63	326	iPc	47	00.60	0.9	SMF	79.46	330	eP	47	13.40	-1.6	
RVR	74.93	57	eP	46	49.00	-1.0		1.7s	463.00nm			6.3mb		DUI	79.47	321	P	47	16.20	1.0	
CSS	75.00	305	eP	46	50.20	-0.2	BRY	76.65	319	eP	46	59.80	0.0	GRR	79.47	334	eP	47	13.60	-1.3	
QASM	75.02	292	eP	46	51.00	0.3	TTG	76.70	318	eP	46	59.60	-0.2	ITM	79.49	313	eP	47	14.80	-0.5	
PEC	75.13	57	P	46	51.20	0.0			e(S)	56	48.00		AVF	79.51	331	eP	47	13.90	-1.3		
ENN	75.22	331	eP	46	51.00	-0.3	CDF	76.74	329	eP	46	58.70	-1.4	RSP	79.51	327	P	47	14.35	-1.0	
	1.5s	684.00nm			6.5mb			1.4s	278.80nm			6.1mb	KOT	79.52	302	eP	47	15.50	0.0		
		e					VVI	76.81	325	Pd	47	01.00	0.6	PCP	79.53	326	P	47	15.07	-0.4	
		e					SLE	76.85	328	ePc	47	00.80	0.2	KLB	79.61	198	eP	47	15.40	-0.4	
EZN	75.24	313	eP	46	53.30	1.7	LIT	76.96	315	ePc	47	00.44	-0.9	MNS	79.65	322	P	47	15.70	-0.4	
KKB	75.32	316	iP	46	52.00	-0.1	SAX	76.96	327	ePc	47	01.90	0.3	AZI	79.65	322	P	47	17.00	1.0	
MEM	75.32	331	iP	46	52.19	0.3	ARG	76.98	309	eP	47	02.00	0.5	SDI	79.71	321	eP	47	16.70	0.2	
ABH	75.41	330	eP	46	52.63	0.1	FNA	76.98	316	ePc	47	01.60	0.1	CKI	79.73	326	P	47	15.70	-0.8	
PTJ	75.42	323	iPc	46	52.50	-0.2	OHR	77.00	317	iP	47	01.10	-0.5	BHB							

RFI	79.97	321	P	47	19.68	2.0	STS	86.72	336	eP	47	53.00	0.7	BAO	149.12	13	ePKPc	54	54.10	0.9
	1.6s	5664.70nm				7.3mb X	ERUA	86.77	335	iPc	47	53.20	0.6	ROCH	153.81	70	ePKP	55	08.50	8.7X
SGO	79.98	320	P	47	18.40	0.6	UYO	86.84	42	iPd	47	53.50	0.5	PEL	154.13	70	ePKPc	55	00.50	0.5
ROB	80.00	326	P	47	16.92	-1.1	ECHE	87.34	330	iPd	47	56.70	1.3		1.5s	111.11nm				
RMP	80.11	322	P	47	18.80	0.3	EZAM	87.44	336	eP	47	56.70	0.9	LNK	154.15	73	ePKP	55	00.00	0.2
PZ2	80.12	327	P	47	16.61	-2.1	GUD	87.46	333	iPc	47	56.60	0.5	SAN	154.34	71	ePKP	55	01.00	0.8
RDP	80.14	322	P	47	19.20	0.4	TOL	88.11	332	ePc	47	59.06	0.0	PCH	154.54	71	ePKP	55	01.00	0.5
ROI	80.20	318	P	47	20.20	1.1				ec	48	01.22		PPD	154.65	22	ePKP	55	02.10	1.2
MGR	80.21	319	P	47	19.00	-0.1				epPd	48	03.53	14kmX	JFO	155.63	4	ePKP	55	04.20	1.9
ENR	80.23	327	P	47	16.81	-2.4				ed	48	08.17					e	55	29.30	
TDS	80.24	319	P	47	21.10	1.9	TBR	88.32	24	P	48	01.30	1.3	VAO	156.51	13	ePKP	55	04.10	0.6
STV	80.25	327	P	47	16.71	-2.6	EPLA	88.59	334	iPc	48	01.90	0.5				e	55	12.40	
MAF	80.27	331	eP	47	18.60	-0.7	EVIA	88.72	331	iPc	48	03.20	1.1				e	55	32.40	
ANMO	80.28	49	ePc	47	20.11	0.3	EBAN	89.58	331	iPc	48	06.50	0.4	BMA	156.54	6	ePKP	54	49.00	-14.5X
			ec	47	22.59	8kmX	PMO	89.62	112	iP	48	08.60	2.2				e	55	05.30	
			ed	47	29.55					1.5s	245.00nm	6.2mb					e	55	33.60	
			iS	57	27.86												e	55	41.80	
			iS	57	38.90					1.5s	280.00nm	6.3mb								
ALO	80.28	49	ePc	47	20.80	1.0	BLA	89.93	30	eP	48	18.30	10.5X							
	1.5s	171.53nm				5.8mb				1.5s	202.78nm									
Z	18s	1.89um				5.5msz	VAH	89.97	112	iP	48	10.20	2.2							
			e	47	30.00	29kmX				1.5s	145.00nm	6.0mb								
MUN	80.33	199	eP	47	19.00	-0.6	RUV	90.09	112	iP	48	10.70	2.2							
TCF	80.33	331	eP	47	18.40	-1.3				1.5s	235.00nm	6.2mb								
SBF	80.53	327	eP	47	19.00	-1.8	ENIJ	90.12	330	eP	48	08.00	-0.6	CFA	0.20	190	ePc	51	39.50	0.2
LSF	80.59	331	eP	47	19.80	-1.2	ECOG	90.31	331	eP	48	09.30	-0.3				S	51	51.00	
BWA	80.64	172	eP	47	22.00	0.7	AFR	90.31	115	iP	48	12.90	3.4X	RTLL	0.24	288	iPc	51	39.40	-0.1
ADE	80.70	180	eP	47	32.20	10.7X				1.5s	225.00nm	6.2mb	RTCV	0.54	212	iPc	51	40.70	-0.1	
	1.2s	203.13nm					AFC	90.32	331	eP	48	09.90	0.2				eS	51	52.60	
MFF	80.83	333	eP	47	21.50	-0.7	AAE	90.33	283	eP	48	12.00	1.7	RTBS	1.10	256	ePc	51	46.00	0.1
GRI	80.87	318	P	47	23.73	1.1	EHOR	90.38	332	eP	48	10.40	0.6							
	1.5s	562.90nm				6.4mb	PPT	90.46	115	iP	48	13.60	3.3X							
NWAO	81.01	198	ePc	47	22.72	-0.5				1.5s	370.00nm	6.4mb								
			ec	47	24.54		PPN	90.52	115	iP	48	13.90	3.4X							
			epPd	47	27.02	14kmX				1.5s	155.00nm	6.1mb								
			esPd	47	29.84		PAE	90.53	115	iP	48	14.00	3.5X							
			ed	47	31.82					1.5s	245.00nm	6.3mb								
PGF	81.03	325	eP	47	22.00	-1.5	TVO	90.82	115	iP	48	15.70	3.7X							
	1.6s	335.80nm				6.1mb				1.5s	105.00nm	5.9mb								
ABHA	81.04	287	eP	47	26.00	1.9	EVAL	91.07	333	iPc	48	13.60	0.6	DEG	0.33	33	ePd	20	45.40	0.1
FRF	81.09	327	eP	47	23.40	-0.3	MAL	91.09	331	iPc	48	13.00	0.0				S	20	48.70	
	1.5s	292.50nm				6.1mb				iPS	00	24.00		DOG	0.36	269	ePd	20	46.12	0.2
LRG	81.29	327	eP	47	23.40	-1.3	EPRU	91.15	332	eP	48	14.00	0.6				S	20	51.10	
	1.4s	340.35nm				6.2mb	EJIF	91.69	332	eP	48	16.80	0.9	SEG	0.44	326	iPc	20	47.27	-0.2
LMR	81.34	327	eP	47	23.60	-1.3	IFR	94.25	330	iPd	48	28.00	0.1				S	20	53.00	
RJF	81.43	331	eP	47	24.30	-1.1	AVE	95.22	332	eP	48	33.00	0.9	BBL	0.56	204	ePc	20	49.69	-0.1
	1.5s	219.35nm				6.0mb				i	52	14.00					S	20	57.10	
Z	20s	7.75um				6.1msz	TIO	97.34	331	iP	48	43.40	1.4							
										i	48	51.00	24kmX							
CAF	81.57	330	eP	47	25.60	-0.6				i	52	34.00								
CAN	81.59	171	eP	47	26.90	0.7	LWI	105.30	283	e(Pd) f	49	18.70	0.8							
CNB	81.62	171	iPc	47	28.60	2.2	LWI	105.30	283	iPKPd	53	42.00	9.9X							
			e	47	36.50	25kmX	KRI	115.08	272	iPKPd	53	40.40	-10.1X							
ATN	81.85	318	P	47	28.00	0.3				iPP	53	48.30								
LFF	82.01	331	eP	47	27.80	-0.6	LKO	116.01	320	PKP	53	49.30	-2.9	DZM	16.90	296	iPc	21	12.90	0.0
LPO	82.09	331	eP	47	28.20	-0.6	BUL	118.02	270	iPKPd	53	52.00	-4.0X	WRA	44.79	272	P	25	29.00	-0.8
MNO	82.39	319	P	47	31.00	0.2				1.1s	17.72nm						0.4s	14.30nm	5.2mb	
AMAN	83.26	297	iPc	47	36.50	1.3				iPP	53	58.30		WB5	44.79	272	eP	25	30.50	0.7
ERC	83.26	320	P	47	36.20	1.1				iPP	53	58.30		TNP	88.28	43 (P)		30	06.50	-0.2
FAI	83.39	319	P	47	37.00	1.3	TIC	118.30	318	PKP	53	55.80	-0.7	NB2	148.99	352	PKP	36	58.70	0.3
LVI	83.41	320	P	47	36.10	0.3	KIC	118.42	318	PKP	53	56.00	-0.8				0.8s	1.90nm		
AKSR	83.42	297	iPd	47	37.00	1.0	LIC	118.68	318	PKP	53	56.40	-0.8							
TOO	83.52	175	iPd	47	37.70	1.6				Z	22s	2.00um	5.7msz							
ETER	83.59	329	iPd	47	37.30	0.7	EVA	121.84	264	iPKPc	54	03.00	-0.2							
AKRL	83.60	297	eP	47	37.50	0.6				0.7s	13.70nm									
AGAL	83.69	297	iPd	47	38.50	1.1	SLR	121.90	265	iPKPc	54	03.10	-0.1							
AGMR	83.79	298	eP	47	41.00	3.1X				1.0s	43.00nm									
EPF	83.83	331	eP	47	36.60	-1.3				Z	20s	3.90um	6.1msz							
	1.7s	229.75nm				6.1mb	PSO	123.24	45	ePKP	54	07.50	1.0							
BTH	83.94	331	ePd	47	38.50	0.1	SEK	123.98	263	ePKP	54	06.40	-0.9							
BTH	83.94	331	iPKP	47	42.00	3.6X	SBA	124.89	173	iPKPc	54	08.00	0.7							
			iP	47	47.00	16kmX	MAW	126.72	208	ePKP	54	11.50	0.4	ITM	1.11	115	ePg	43	54.60	-1.4
			eSKS	57	53.00		ARE	141.23	50	ePKP	54	41.00	0.7	EVR	1.55	35	ePb	44	01.70	-1.2
			eS	58	03.00		ZOBO	142.81	46	ePKPc	54	39.18	-4.2X	AGG	1.89	43	ePd	44	08.90	1.1
MEO	84.39	44	iPc	47	41.20	0.4				eHPP	57	46.46		IGT	1.90	352	ePc	44	06.98	-0.8
RSNY	85.08	23	P	48	00.00	15.9X				ePP	57	51.76		VLI	2.04	117	ePn	44	11.70	1.8
										i	58	35.62		ATH	2.44	82	ePb	44	16.30	0.7
Z	20s	2.26um				5.6msz	LPB	143.05	46	PKP	54	43.00	-0.6	NEO	2.60	50	ePn	44	18.30	0.3
										1.8s	545.45nm			KZN	2.79	18	ePn	44	22.70	2.0
ECRI	85.15	332	iPc	47	46.00	1.4				Z	24s	1.55um	5.7mszX	LIT	2.83	30	ePc	44	21.46	0.2
HBVT	85.65	22	P	47	47.40	0.4											iS	44	56.26	
CLE	85.72	29	iP	47	48.30	0.9								FNA	3.18	10	ePd	44	27.78	1.6
EBR	85.73	329	eP	47	49.00	1.6				LR	43	40.00					eS	45	02.70	

13d 06h

KNT 3.91 26 ePc 44 37.02 0.5
 eS 45 21.70
 VAY 3.95 21 ePn 44 37.80 0.8
 SKO 4.36 8 ePn 44 40.00 -2.9
 MMB 4.59 30 ePc 44 46.00 -0.2
 KKB 4.60 23 eP 44 47.00 0.6
 RZN 5.10 37 iPd 44 52.00 -1.6
 IZM 5.26 80 ePn 44 54.00 -1.8
 VTS 5.30 21 eP 44 57.00 0.5
 KDZ 5.42 41 eP 44 56.00 -2.0
 HFS 22.94 351 eP 48 39.00 -1.2
 0.4s 1.80nm 3.9mb
 EKA 23.92 325 P 48 51.00 1.2
 1.0s 8.10nm 4.3mb
 NB2 24.16 349 P 48 50.30 -1.8
 0.8s 1.90nm 3.8mb
 S.D. = 1.3 on 27 of 27 obs.

NOV 13, 1990 06h 58m 03.08±0.71s
 44.044 N ± 5.1km 15.650 E ± 7.0km
 DEPTH = 26.4 ± 4.7 km

YUGOSLAVIA (383)
 ML 2.6 (LJU).

HVAR 1.04 146 iPg 58 21.70 -0.2
 iSg 58 36.70
 VBY 1.49 349 ePn 58 27.70 -0.6
 iSn 58 47.00
 RIY 1.58 326 iPn 58 28.30 -1.3
 iSn 58 49.00
 PTJ 1.87 7 iPnd 58 32.70 -1.2
 iSn 58 56.50
 CEY 1.91 333 ePn 58 33.90 -0.5
 eSn 58 58.90
 ARV 2.04 255 P 58 35.00 -1.3
 eSn 59 01.00
 TRI 2.14 322 P 58 38.00 0.3
 LJU 2.15 339 ePn 58 38.00 0.1
 eSn 59 05.50
 VOY 2.35 329 ePnd 58 39.20 -1.5
 eSn 59 13.40
 ASS 2.38 247 Pc 58 40.40 -0.8
 eSn 59 10.20
 CRE 2.71 262 P 58 45.90 0.0
 eSn 59 18.00
 SFI 2.74 269 P 58 46.00 -0.3
 eSn 59 19.00
 PGD 2.84 268 P 58 47.00 -0.8
 eSn 59 21.00
 FVI 3.26 323 P 58 54.00 0.5
 CTI 3.47 307 P 58 56.50 -0.3
 eSn 59 38.80
 S.D. = 0.7 on 15 of 15 obs.

* NOV 13, 1990 07h 15m 11.51±0.52s
 15.452 N ± 10.9km 147.618 E ± 10.5km
 DEPTH = 33.0km (normal)
 4.8mb (1 obs.)

MARIANA ISLANDS REGION (215)

GUA 3.24 234 eP 16 00.70 -0.5
 eS 16 44.20
 GUMO 3.25 236 eP 16 00.80 -0.5
 PJG 3.25 236 eP 16 00.80 -0.5
 WB5 37.45 201 eP 22 25.00 1.2
 WRA 37.52 201 P 22 37.00 12.6X
 1.0s 6.00nm
 LZH 44.00 306 eP 23 18.00 0.1
 2.0s 36.00nm 4.8mb
 GTA 47.99 309 eP 23 49.00 -0.5
 WMO 57.83 312 P 25 03.50 1.1
 pP 25 13.50 33kmX
 GKN 59.27 294 P 25 14.00 1.2
 HYB 65.94 282 eP 26 07.50 10.5X
 INK 71.64 23 eP 26 30.00 -1.4
 TNP 84.60 52 P 27 43.00 -0.4
 KIC 145.08 306 PKP 34 48.00 -0.2
 TIC 145.12 307 PKP 34 48.10 -0.1
 ZOBO 145.63 96 ePKP 34 49.00 -0.8
 LPB 145.68 97 ePKP 34 50.00 0.4
 CNCB 145.80 97 PKP 34 51.00 1.0
 S.D. = 0.9 on 15 of 17 obs.

NOV 13, 1990 07h 38m 57.09±0.23s
 15.588 N ± 5.1km 147.802 E ± 4.1km
 DEPTH = 33.0km (normal)
 4.7mb (8 obs.)

MARIANA ISLANDS REGION (215)

GUA 3.46 234 eP 39 50.60 0.6
 eS 40 28.00
 GUMO 3.47 235 eP 39 50.00 -0.1
 PJG 3.47 235 eP 39 49.80 -0.3
 KAKJ 21.63 343 P 43 46.30 -0.2
 IIDJ 21.70 338 P 43 47.40 0.2
 CHJJ 21.84 341 P 43 49.50 0.9
 MAT 22.55 340 (P) 43 55.00 -0.6
 1.3s 26.92nm 4.6mb
 eS 47 04.00
 MTMJ 22.73 339 P 43 57.50 0.0
 NIJJ 22.94 342 P 44 01.40 2.0
 BJI 36.77 318 eP 46 03.00 -0.4
 1.5s 26.00nm 4.9mb
 24s 0.32um 4.0mszX
 WB5 37.64 201 iPc 46 10.20 -0.8
 WRA 37.71 201 P 46 23.00 11.5X
 0.7s 12.10nm
 GYA 39.74 293 P 46 29.20 0.5
 BTO 41.14 315 eP 46 41.00 1.0
 CD2 42.96 299 eP 46 54.40 -0.5
 LZH 44.07 306 Pc 47 04.50 0.5
 1.5s 28.00nm 4.8mb
 pP 47 14.50 34kmX
 WARB 46.34 207 eP 47 22.20 0.2
 CHG 46.67 281 eP 47 24.90 0.1
 GTA 48.05 309 eP 47 34.80 -0.7
 1.0s 10.00nm 4.8mb
 WMO 57.87 312 P 48 48.20 0.0
 GUN 58.28 293 P 48 51.10 -0.6
 PKI 58.71 293 P 48 53.40 -1.3
 KKN 58.82 293 P 48 53.80 -1.5
 DMN 58.98 293 P 48 55.40 -1.0
 GKN 59.38 294 P 48 58.00 -1.1
 GBA 67.84 279 P 49 55.00 0.3
 0.9s 4.20nm 4.5mb
 KOD 68.51 275 eP 50 01.40 2.1
 POO 70.30 284 eP 50 10.50 0.7
 INK 71.44 23 eP 50 15.00 -0.8
 pP 50 33.00 66kmX
 MBC 75.65 14 eP 50 40.00 -0.3
 0.9s 6.00nm 4.6mb
 WDC 79.78 51 e(P) 51 03.80 0.1
 PNT 80.01 42 eP 51 05.00 0.2
 0.8s 6.00nm 4.6mb
 MIN 80.53 51 eP 51 07.50 -0.4
 PCC 80.54 54 ePd 51 07.30 -0.5
 BRK 80.56 53 eP 51 07.80 -0.1
 BKS 80.57 53 eP 51 08.40 0.4
 0.7s 14.00nm 5.1mb
 iS 00 55.00
 ORV 80.78 52 eP 51 08.80 -0.2
 MHC 81.15 54 ePd 51 11.40 0.2
 PRS 81.59 55 ePd 51 13.60 0.2
 LLA 81.86 54 eP 51 14.90 0.1
 CMB 81.97 53 ePd 51 14.40 -0.9
 PRI 82.19 55 eP 51 17.30 0.7
 FRI 82.73 54 ePd 51 19.30 0.0
 ISA 84.03 55 eP 51 25.00 -1.0
 TNP 84.38 52 P 51 27.80 -0.1
 PAS 84.66 56 eP 51 29.00 -0.1
 CLC 84.68 54 eP 51 29.00 -0.3
 SBB 84.79 56 eP 51 30.00 0.1
 RVR 85.34 56 eP 51 32.00 -0.5
 GSC 85.44 55 eP 51 33.00 -0.1
 LRM 85.60 44 eP 51 33.90 0.0
 ZOBO 145.47 96 PKPc 58 35.70 0.7
 LPB 145.52 97 PKP 58 36.00 1.1
 CNCB 145.64 97 PKP 58 37.00 1.7
 SIV 152.22 95 PKP 58 51.40 6.5X
 S.D. = 0.8 on 53 of 55 obs.

* NOV 13, 1990 08h 53m 06.45±2.18s
 40.051 N ± 7.9km 20.231 E ± 23.0km
 DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

IGT 0.52 171 ePd 53 16.96 -0.1
 eS 53 25.04
 FNA 1.14 50 ePc 53 28.56 0.7
 eS 53 43.32
 OHR 1.14 22 e(Pn) 53 27.70 -0.2
 LIT 1.73 88 iPd 53 35.61 -1.2
 eS 53 59.04
 AGG 1.92 122 iPd 53 40.32 0.8

eS 54 03.88
 S.D. = 1.2 on 5 of 5 obs.

NOV 13, 1990 09h 45m 28.88±0.46s
 44.292 N ± 4.0km 7.459 E ± 3.7km
 DEPTH = 5.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.2 (LDG).

ENR 0.07 203 P 45 29.90 -0.8
 S 45 31.03
 STV 0.11 244 P 45 30.82 -0.5
 S 45 32.77
 ROB 0.30 89 P 45 35.54 0.7
 S 45 40.36
 PZZ 0.33 310 P 45 36.26 0.6
 S 45 41.38
 SBF 0.43 182 Pg 45 38.00 0.5
 Sg 45 43.20
 FIN 0.54 99 P 45 39.54 -0.3
 S 45 47.64
 BHB 0.57 346 P 45 39.85 -0.4
 S 45 48.15
 PCP 0.82 72 P 45 44.77 -0.5
 S 45 55.74
 FRF 0.94 219 Pg 45 47.60 0.4
 Sg 45 59.90
 LRG 1.15 224 Pg 45 51.20 0.3
 Sg 46 07.20
 LMR 1.18 216 Pg 45 51.20 -0.1
 Sg 46 05.80
 S.D. = 0.6 on 11 of 11 obs.

? NOV 13, 1990 09h 45m 29.45±1.64s
 31.671 S ± 20.1km 69.505 W ± 21.9km
 DEPTH = 120.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.05 78 eP 45 46.00 -0.2
 RTCB 0.63 73 ePd 45 48.30 -0.3
 eS 46 02.00
 RTCV 0.85 103 ePd 45 50.90 0.5
 RTLL 0.95 69 ePc 45 50.70 -0.6
 CFA 1.08 87 eP 45 53.00 0.3
 S 46 10.20
 RTRS 1.50 1 iPc 45 57.50 0.3
 S.D. = 0.6 on 6 of 6 obs.

% NOV 13, 1990 09h 56m 05.09±0.93s
 39.077 N ± 8.0km 27.575 E ± 10.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.72 200 iPg 56 19.00 -0.3
 eSg 56 32.50
 EZN 1.22 308 ePn 56 28.50 0.7
 EDC 1.29 10 ePn 56 28.00 -0.9
 BNT 1.30 12 iPn 56 28.70 -0.5
 KCT 1.32 27 iPn 56 29.70 0.3
 IZI 1.93 49 ePn 56 40.00 1.6
 YLV 2.03 42 ePn 56 39.00 -0.8
 S.D. = 1.1 on 7 of 7 obs.

% NOV 13, 1990 10h 21m 29.98±0.98s
 39.260 N ± 9.3km 27.571 E ± 21.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

IZM 0.89 196 iPg 21 47.10 0.0
 iSg 22 00.60
 EDC 1.11 12 ePn 21 51.00 0.2
 BNT 1.13 14 ePn 21 51.20 0.1
 KCT 1.16 31 iPn 21 51.00 -0.6
 IZI 1.82 53 ePn 22 02.00 0.4
 S.D. = 0.6 on 5 of 5 obs.

* NOV 13, 1990 10h 25m 15.95±0.51s
 9.226 N ± 7.9km 126.300 E ± 15.9km
 DEPTH = 33.0km (normal)
 4.7mb (5 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

SSE 22.27 348 Pc 30 12.20 0.4
 0.9s B.00nm 4.2mb
 NJ2 23.74 344 eP 30 26.50 0.4

KNA 24.93 174 eP 30 38.00 0.2
 WB5 29.99 165 eP 31 22.10 -1.9
 WRA 30.05 165 P 31 29.00 4.5X
 0.4s 2.50nm 4.4mb
 WARB 35.20 179 eP 32 10.00 0.8
 0.3s 8.00nm 5.1mb
 MDJ 35.37 4 eP 32 10.20 -0.3
 FORR 39.88 178 iPc 32 48.50 0.1
 0.4s 45.00nm 5.6mb
 GUN 42.33 302 P 33 09.00 -0.1
 PKI 42.62 301 P 33 10.50 -1.0
 GBA 48.03 280 Pd 33 54.90 0.5
 0.6s 3.90nm 4.6mb
 BWA 48.21 155 iP 33 56.50 1.0
 INK 85.24 22 eP 37 50.00 -0.2
 S.D. = 0.9 on 12 of 13 obs.

NOV 13, 1990 10h 30m 00.38 ± 0.28s
 2.445 S ± 4.7km 139.863 E ± 6.4km
 DEPTH = 33.0km (normal)
 5.2mb (15 obs.)

NEAR N. COAST OF WEST IRIAN (197)

JAY 0.84 95 iPc 30 13.20 -2.7
 0.8s 18.66nm 4.3mb
 MNDI 5.28 134 eP 31 25.00 5.7X
 PMG 10.02 134 eP 32 26.00 0.8
 MTN 13.47 219 eP 33 10.00 -1.7
 0.3s 165.00nm 6.4mb X
 QIS 18.00 181 eP 34 09.00 -0.9
 0.6s 37.32.00
 WB5 18.14 197 eP 34 10.50 -1.1
 0.6s 37.27.70
 CTA 18.61 161 iPc 34 21.00 3.6X
 0.8s 18.66nm 4.3mb
 SVO 20.93 109 eP 34 44.00 1.2
 HNR 21.14 110 eP 34 45.00 0.0
 ASPA 21.87 195 iPc 34 50.40 -2.0
 1.1s 102.30nm 5.2mb
 Z 21s 0.60um 4.0Msz
 QLP 24.37 170 eP 35 19.00 2.3X
 RMO 25.39 161 eP 35 27.50 1.0
 WARB 26.80 207 eP 35 40.40 0.8
 MBL 26.96 225 iPc 35 42.20 1.2
 0.9s 82.00nm 5.4mb
 BRS 27.72 155 iPc 35 45.00 -2.9
 0.6s 36.06.20
 COO 30.21 159 eP 36 12.00 1.7
 ADE 32.38 182 iPc 36 30.70 1.5
 1.0s 44.00nm 5.3mb
 BWA 32.80 167 eP 36 35.50 2.6X
 CAN 33.79 166 eP 36 43.70 2.1
 CNB 33.87 166 eP 36 44.00 1.7
 1.0s 92.00nm 5.7mb
 BFD 34.65 176 eP 36 52.00 3.2X
 IIDJ 37.77 357 P 37 14.40 -0.9
 SSE 37.80 333 eP 37 16.00 0.5
 Z 20s 0.50um 4.3Msz
 E 10s 0.20um
 TSRJ 37.96 355 P 37 16.40 -0.4
 CHJJ 38.30 359 P 37 18.40 -1.3
 MAT 38.82 358 eP 37 23.00 -1.0
 1.0s 7.00nm 4.4mb
 MTMJ 38.88 357 P 37 23.60 -1.0
 NIJJ 39.49 359 P 37 28.90 -0.7
 NJJ 39.68 332 eP 37 31.50 0.3
 YAMJ 40.41 0 P 37 37.10 -0.1
 GYA 43.06 314 P 38 01.20 2.0
 NST 43.21 296 eP 38 01.00 0.6
 BDT 44.80 297 eP 38 13.00 -0.2
 KMI 45.23 310 eP 38 17.80 0.9
 CHTO 45.45 299 P 38 18.50 0.1
 BJI 47.53 335 P 38 30.00 -4.5X
 Z 16s 0.29um 4.3MszX
 MDJ 47.74 350 eP 38 35.00 -1.1
 BTO 50.77 331 eP 39 00.40 0.8
 LZH 50.97 322 eP 39 02.00 0.7
 1.0s 25.00nm 5.1mb
 GTA 55.55 323 eP 39 35.40 0.3
 GUN 59.99 304 P 40 07.40 0.6
 0.8s 40.00nm 5.6mb
 PKI 60.26 304 P 40 08.00 -0.6
 0.8s 16.00nm 5.2mb
 KKN 60.44 304 P 40 09.60 -0.1

DMN 60.52 304 P 40 10.60 0.2
 0.8s 53.00nm 5.7mb
 GKN 61.05 304 P 40 13.80 0.0
 KOD 63.37 283 eP 40 29.10 -0.6
 GBA 63.91 286 Pc 40 31.50 -1.3
 0.8s 7.20nm 4.8mb
 WMO 65.52 321 Pc 40 43.50 0.6
 POO 68.16 291 eP 41 00.00 -0.1
 SVW 80.11 26 eP 42 09.90 1.5
 TTA 80.69 25 eP 42 12.70 1.2
 1.3s 24.80nm 5.0mb
 IMA 82.87 22 eP 42 24.00 1.1
 1.2s 12.10nm 4.9mb
 PMR 83.21 27 eP 42 24.70 0.2
 1.2s 41.20nm 5.4mb
 MAIO 83.68 307 eP 42 30.00 2.4X
 TOA 84.70 27 eP 42 33.60 1.5
 FBA 84.78 24 eP 42 31.60 -0.8
 SPA 87.57 180 eP 42 49.00 2.7X
 1.0s 10.00nm 5.0mb
 INK 91.00 22 eP 43 03.00 0.8
 KIC 144.50 277 PKP 49 34.96 -1.2
 0.9s 62.00nm
 TIC 144.76 278 PKP 49 35.74 -0.9
 LIC 144.80 277 PKP 49 35.82 -0.9
 1.0s 52.50nm
 LKO 144.95 283 PKPc 49 35.36 -1.6
 0.9s 57.00nm
 CNCB 146.51 126 PKP 49 45.00 4.8X
 LPB 146.56 125 PKP 49 45.00 4.9X
 ZOBO 146.68 125 PKP 49 43.00 2.6X
 1.0s 49.50nm
 SIV 152.36 132 PKPd 49 57.60 9.1X
 S.D. = 1.2 on 54 of 66 obs.

% NOV 13, 1990 10h 45m 51.66 ± 0.62s
 44.279 N ± 6.6km 7.509 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

ENR 0.08 231 P 45 53.90 -0.4
 0.8s 45.55.33
 STV 0.14 255 P 45 55.08 0.1
 0.8s 45.57.54
 ROB 0.26 86 P 45 57.44 0.3
 0.8s 46.01.44
 PZZ 0.37 308 P 45 59.80 0.5
 0.8s 46.05.17
 FIN 0.51 98 P 46 01.54 -0.4
 0.8s 46.08.05
 BHB 0.59 343 P 46 03.33 -0.3
 0.8s 46.10.71
 PCP 0.79 70 P 46 07.69 0.7
 0.8s 46.17.68
 RRL 0.82 321 P 46 08.56 0.8
 0.8s 46.19.22
 RSP 0.89 348 P 46 07.63 -1.2
 0.8s 46.21.48
 S.D. = 0.7 on 9 of 9 obs.

? NOV 13, 1990 10h 55m 43.96 ± 8.94s
 39.198 N ± 27.6km 20.088 E ± 71.1km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)

IGT 0.38 307 ePc 55 51.38 -0.5
 0.8s 55.55.74
 AGG 1.75 95 ePd 56 14.10 -0.5
 0.8s 56.35.74
 FNA 1.87 32 ePc 56 16.42 0.1
 0.8s 56.39.62
 LIT 2.06 63 ePc 56 19.90 0.8
 0.8s 56.21.48
 S.D. = 1.1 on 4 of 4 obs.

NOV 13, 1990 11h 04m 12.10 ± 0.77s
 36.600 N ± 5.3km 71.369 E ± 4.9km
 DEPTH = 183.7 ± 8.8 km
 4.5mb (41 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

KSH 4.62 51 Pg 05 24.00 1.9
 NDI 9.30 146 iPd 06 23.60 0.2
 0.6s 106.67nm 5.4mb
 MAIO 9.57 272 eP 06 25.00 -2.0
 0.8s 08.09.00
 GKN 14.11 124 P 07 24.00 -1.2
 WMO 14.40 55 P 07 28.00 -0.7

DMN 14.68 124 P 07 31.60 -0.8
 KKN 14.68 123 P 07 30.80 -1.6
 PKI 14.91 123 P 07 35.00 -0.3
 GUN 15.01 121 P 07 35.80 -0.9
 POO 18.13 172 eP 08 15.50 2.5
 HYB 20.14 160 eP 08 35.00 1.3
 GTA 22.55 74 P 09 01.00 3.6X
 0.6s 10.00nm 4.5mb
 GBA 23.54 165 Pd 09 08.30 1.5
 0.3s 3.10nm 4.4mb
 KOD 26.82 167 eP 09 39.40 1.9
 MLR 34.99 299 ePd 10 51.00 2.4
 NUR 37.92 324 iP 11 13.20 0.5
 0.6s 24.80nm 5.0mb
 SUF 38.00 328 eP 11 13.00 -0.3
 KRA 38.99 307 eP 11 22.80 1.1
 SOD 39.77 335 iP 11 29.00 1.1
 SSE 41.37 83 P 11 42.80 1.3
 1.0s 9.00nm 4.3mb
 HFS 43.17 322 eP 11 55.70 -0.1
 0.4s 31.60nm 5.2mb
 CLL 43.36 309 i(P) 11 57.70 0.3
 MOX 44.29 308 eP 12 06.00 1.1
 NB2 44.48 323 P 12 04.80 -1.5
 0.5s 13.20nm 4.7mb
 SOTA 44.98 303 eP 12 09.50 -1.1
 0.5s 5.90nm 4.3mb
 CDF 47.39 305 eP 12 29.60 0.1
 0.7s 4.40nm 4.1mb
 PGF 47.49 297 eP 12 30.10 -0.2
 0.6s 5.40nm 4.2mb
 BSF 47.82 305 eP 12 32.90 0.1
 0.6s 16.25nm 4.7mb
 HAU 48.08 305 eP 12 34.80 0.1
 0.6s 10.80nm 4.6mb
 Z 20s 0.17um 4.0Msz
 SBF 48.27 299 eP 12 36.60 0.4
 0.8s 18.80nm 4.7mb
 LPG 48.35 302 eP 12 37.70 0.6
 0.6s 6.30nm 4.3mb
 LPL 48.36 302 eP 12 37.70 0.6
 0.8s 8.75nm 4.3mb
 FRF 48.89 299 eP 12 41.00 0.0
 0.8s 10.75nm 4.4mb
 LBF 49.87 304 eP 12 48.10 -0.3
 0.6s 4.50nm 4.2mb
 SMF 50.04 304 eP 12 49.70 0.0
 0.6s 13.55nm 4.7mb
 AVF 50.34 304 eP 12 51.90 0.0
 0.6s 15.35nm 4.8mb
 BGF 50.73 304 eP 12 54.60 -0.3
 0.8s 8.05nm 4.4mb
 MAF 51.00 304 eP 12 57.30 0.3
 0.8s 10.75nm 4.5mb
 TCF 51.23 304 eP 12 58.80 0.1
 0.6s 7.20nm 4.5mb
 LSF 51.69 304 eP 13 01.80 -0.3
 0.6s 9.90nm 4.6mb
 CAF 51.70 302 eP 13 02.60 0.4
 0.6s 5.40nm 4.4mb
 RJF 51.96 303 eP 13 04.60 0.4
 0.8s 6.70nm 4.4mb
 Z 20s 0.10um 3.8Msz
 LDF 52.15 307 eP 13 05.30 -0.2
 0.6s 9.00nm 4.6mb
 FLN 52.34 307 eP 13 06.30 -0.6
 0.6s 12.65nm 4.8mb
 Z 20s 0.13um 3.9Msz
 LPO 52.36 302 eP 13 07.20 0.1
 0.6s 3.60nm 4.2mb
 EKA 52.42 316 Pd 13 08.00 0.6
 0.8s 6.90nm 4.4mb
 LFF 52.59 302 eP 13 08.90 0.2
 0.6s 10.80nm 4.7mb
 GRR 52.68 307 eP 13 08.90 -0.4
 0.7s 13.25nm 4.7mb
 MFF 52.71 305 eP 13 09.20 -0.4
 0.6s 5.40nm 4.4mb
 LPF 52.89 307 eP 13 10.80 -0.1
 0.6s 7.20nm 4.5mb
 EPF 53.45 300 eP 13 14.90 -0.3
 0.8s 5.35nm 4.3mb
 DAG 54.74 344 iPd 13 23.90 -0.2
 0.3s 25.97nm 5.5mb
 MBC 67.22 3 ePc 14 48.00 0.2
 0.5s 6.00nm 4.6mb

ENR	0.12	199	P	34	35.73	-1.0
			S	34	38.62	
STV	0.15	228	P	34	35.98	-1.1
			S	34	38.86	
ROB	0.29	99	P	34	40.29	0.6
			S	34	44.77	
PZZ	0.31	302	P	34	39.47	-0.8
			S	34	43.88	
SBF	0.48	184	Pg	34	42.80	-0.6
			Sg	34	49.00	
BHB	0.52	343	P	34	43.68	-0.6

NOV 13, 1990 12h 29m 19.80 \pm 0.16s
15.575 N \pm 3.4 km 147.809 E \pm 3.4 km

5.0mb (19 obs.)						
MARIANA ISLANDS REGION						
(215)						
GUA	3.46	235	eP	30	13.20	0.3
			eS	30	51.20	
GUMO	3.47	236	eP	30	12.90	-0.1
PJG	3.47	236	eP	30	12.80	-0.1
KAKJ	21.65	343	P	34	09.10	-0.4
IIDJ	21.71	338	P	34	10.10	-0.2
CHJJ	21.86	341	P	34	11.50	-0.2
TSRJ	22.52	334	P	34	21.90	3.6X
MAT	22.56	340 (P)		34	18.00	-0.7
	1.4s	58.14nm				4.9mb
			eS	38	19.00	
MTMJ	22.74	339	P	34	21.50	0.9
NIJJ	22.95	342	P	34	23.00	0.5
YAMJ	23.53	345	P	34	29.70	1.6
OFUJ	24.03	348	eP	34	38.80	5.9X
PMG	24.83	182	eP	34	41.00	0.1
SSE	28.81	307	P	35	14.70	-2.6
	0.8s	6.00nm				4.4mb
Z	20s	0.60um				4.2Msz
BJI	36.78	318	eP	36	26.50	0.0
	2.0s	55.00nm				5.1mb
Z	28s	0.41um				4.1MszX
		pP	36	35.50		30km
QIS	36.80	193	eP	36	26.00	-0.8
WB5	37.63	201	eP	36	33.50	-0.3
WRA	37.70	201	P	36	34.00	-0.4
	0.8s	47.00nm				5.4mb
TIY	38.21	312	eP	36	35.50	-3.2X
Z	16s	0.50um				4.4MszX
		S	42	24.00		
XAN	39.50	305	P	36	48.90	-0.6
GYA	39.75	293	P	36	53.00	1.3
		pP	37	02.60		32km
HHC	40.23	316	eP	36	55.20	-0.3
BTO	41.16	315	eP	37	05.50	2.4
ASPA	41.30	200	iPd	37	04.10	-0.2
	0.7s	27.40nm				5.1mb
Z	18s	0.10um				3.7Msz
		eS	43	02.60		
CD2	42.97	299	eP	37	18.10	0.1
BRS	42.98	174	iPd	37	17.80	-0.2
		e	37	26.00		27km
		i	37	37.50		
LZH	44.08	306	Pc	37	27.50	0.4
	2.0s	96.00nm				5.3mb
Z	20s	0.30um				4.2Msz
		pP	37	37.50		34km
WARB	46.33	207	eP	37	45.90	1.0
CHG	46.68	281	eP	37	48.80	1.0
GTA	48.06	309	P	37	58.60	0.0
	1.2s	1020.00nm				6.7mb X
		pP	38	08.30		32km
BWA	49.72	179	eP	38	10.70	-0.5
CAN	50.63	179	eP	38	17.80	-0.2
LSA	53.67	296	eP	38	42.00	0.4
WMQ	57.88	312	eP	39	10.50	-0.8
GUN	58.29	293	P	39	14.80	0.1
	0.6s	22.00nm				5.4mb
PKI	58.72	293	P	39	17.60	-0.1
	0.6s	8.00nm				5.0mb
KKN	58.83	293	P	39	18.20	-0.1
DMN	58.99	293	P	39	19.40	-0.1
	0.6s	14.00nm				5.3mb
GKN	59.39	294	P	39	22.00	-0.1
	0.6s	15.00nm				5.3mb
SVW	60.59	28	eP	39	29.50	-0.1
TTA	61.14	26	eP	39	32.80	-0.6
IMA	63.32	23	eP	39	47.70	-0.3
	0.8s	2.80nm				4.4mb
PMR	63.70	28	eP	39	48.50	-1.8
FBA	65.23	25	eP	39	59.10	-1.2
HYB	66.09	282	eP	40	07.00	0.4
G8A	67.84	279	P	40	18.00	0.3
	0.3s	7.80nm				5.3mb
KOD	68.52	275	eP	40	22.60	0.3
POO	70.31	284	eP	40	33.00	0.1
INK	71.45	23	eP	40	38.00	-0.9
M8C	75.66	14	ePc	41	03.50	0.2
	0.8s	9.00nm				4.8mb
MAIO	79.62	305	eP	41	27.00	0.9
WDC	79.78	51 e(P)		41	30.80	4.1X
YKA	79.79	28	eP	41	25.70	-0.5
	0.7s	3.30nm				4.4mb
PNT	80.01	42	eP	41	27.00	-0.8

0.7s	6.00nm	4.7mb	IZM	1.25	215	iPn	02	51.60	-0.8	PGO	5.08	77	P	23	22.24	1.1									
PCC	80.54	54 eP	41	31.00	0.2	IZI	1.35	47	ePn	02	54.10	0.2	SMW	5.11	55	P	23	20.99	-0.7						
BRK	80.56	53 eP	41	31.00	0.1	YLV	1.46	38	iPn	02	55.10	-0.4	OBG	5.13	45	P	23	22.13	0.2						
BKS	80.58	53 eP	41	31.50	0.5	EZN	1.49	286	iPn	02	56.60	0.8	GT2	5.17	81	P	23	22.70	0.2						
0.7s	15.00nm	5.1mb	KHL	1.52	136	ePn	02	57.50	1.1	OSD	5.19	49	P	23	22.89	0.0									
ORV	80.78	52 eP	41	32.00	0.0	ALT	1.54	103	ePn	02	56.00	-0.7	LVP	5.22	70	P	23	23.07	-0.3						
GCC	80.94	54 e(P)	41	33.20	0.3	CTT	1.73	6	ePn	03	00.60	1.3	APW	5.25	64	P	23	23.09	-0.5						
MHC	81.15	54 ePd	41	34.50	0.3	HRT	1.80	39	ePn	03	00.00	-0.4	CZM	5.26	66	P	23	23.40	-0.4						
ARN	81.24	54 eP	41	34.70	0.2	S.D. = 0.9 on 11 of 11 obs.										FL2	5.30	69	P	23	23.94	-0.5			
PRS	81.59	55 ePd	41	37.00	0.7	NOV 13, 1990 13h 59m 19.51±0.57s										ERK	5.33	68	P	23	24.36	-0.5			
NEW	81.86	42 eP	41	37.30	-0.2	43.206 N ± 4.9km 19.049 E ± 5.2km										MTMW	5.35	71	P	23	24.92	-0.2			
LLA	81.86	54 eP	41	38.00	0.2	DEPTH = 10.0km (geophysicist)										SHW	5.37	70	P	23	25.88	0.4			
CMB	81.97	53 ePd	41	38.50	0.2	YUGOSLAVIA (383)										HSR	5.40	70	P	23	26.12	0.2			
PR1	82.19	55 ePd	41	40.30	0.7	MD 3.0 (TTG).										STW	5.41	46	P	23	25.89	0.0			
PHAM	82.47	55 iP	41	41.50	0.5	PLE	0.28	64	iPg	59	25.20	-0.3	ESD	5.43	70	P	23	26.77	0.4						
FRI	82.74	54 ePd	41	42.60	0.4	ISg	59	29.50		HDW	5.45	53	P	23	26.78	0.3									
BCH	82.87	56 eP	41	43.60	0.4	ISg	59	27.60	0.0	MEW	5.47	58	P	23	27.29	0.6									
ABL	83.64	56 e(P)	41	47.40	0.1	ISg	59	35.00		KOSW	5.48	67	P	23	26.58	-0.3									
ISA	84.03	55 eP	41	49.00	0.0	ISg	59	36.20		CDFW	5.48	71	P	23	26.99	0.1									
TNP	84.38	52 iPc	41	51.10	0.2	ISg	59	35.30		LMW	5.48	65	P	23	26.92	-0.1									
PAS	84.66	56 eP	41	52.00	-0.1	BRY	0.48	231	iPg	59	28.30	-1.0	GMW	5.55	55	P	23	27.19	-0.7						
CLC	84.68	54 eP	41	52.00	-0.2	ISg	59	36.20		VLL	5.62	78	P	23	29.34	0.5									
MWC	84.73	56 eP	41	54.00	1.3	ISg	59	33.40	-0.1	GHW	5.63	61	P	23	29.39	0.4									
SBB	84.80	56 eP	41	53.00	0.1	ISg	59	45.00		VBEM	5.65	82	P	23	30.00	0.6									
GSC	85.44	55 eP	41	56.00	-0.1	ISg	59	34.00	-0.9	APM	5.65	75	P	23	29.84	0.5									
PEC	85.54	56 ePd	41	56.20	-0.4	ISg	59	46.70		BLN	5.70	50	P	23	30.53	0.6									
LRM	85.60	44 eP	41	57.30	0.4	HCY	0.86	208	ePg	59	35.20	-0.9	GULW	5.74	73	P	23	30.68	0.0						
SOD	86.96	341 iP	42	02.80	-0.1	ISg	59	50.50		VFP	5.75	79	P	23	31.15	0.3									
DUG	87.06	49 eP	42	04.30	0.2	ISg	59	37.00	-0.1	ASR	5.79	71	P	23	31.34	0.0									
MSU	88.05	51 e(P)	42	09.70	0.7	ISg	59	52.00		PGW	5.80	53	P	23	32.20	0.9									
NUR	91.66	336 iP	42	05.20	-19.8X	ISg	59	37.10	-0.3	LDN	5.82	65	P	23	31.82	0.1									
0.7s	40.00nm		ULC	1.25	173	ePg	59	53.50		REMR	5.82	64	P	23	32.23	0.4									
GOL	92.60	48 ePc	42	30.70	0.5	ePg	59	43.50	0.7	SPW	5.87	57	P	23	33.38	1.1									
0.7s	1.82nm	4.6mb	HVAR	1.90	270	iPn	59	54.30	2.0	GLK	5.89	67	P	23	33.28	0.5									
ALQ	93.59	52 eP	42	45.20	10.5X	ISg	00	21.10		FMW	5.97	64	P	23	33.92	0.0									
0.8s	2.43nm		BEO	1.91	32	ePn	59	55.50	3.2X	WPW	5.98	66	P	23	33.92	0.0									
HFS	96.01	339 eP	42	43.20	-1.9	1.0s	0.13nm			CROR	6.07	83	P	23	34.69	-0.5									
0.4s	0.80nm	4.5mb	i(Sn)	00	22.00					RMW	6.10	59	P	23	36.16	0.6									
NB2	96.18	340 P	42	44.60	-1.4	SKO	2.15	124	ePn	59	58.00	2.1	BLH	6.14	55	P	23	36.24	0.2						
0.8s	2.70nm	4.8mb	eSn	00	29.80					MCW	6.18	46	P	23	36.47	-0.2									
LKO	143.71	312 PKP	48	53.04	-1.4	OHR	2.46	148	ePn	00	05.50	5.1X	HTW	6.28	56	P	23	38.18	0.0						
KIC	145.15	307 PKP	48	56.34	-0.5	BZS	3.03	36	ePc	00	07.00	-1.4	VTHM	6.38	81	P	23	39.14	-0.4						
0.6s	14.50nm		VAY	3.22	125	ePn	00	20.00	8.9X	JCW	6.38	52	P	23	39.33	-0.3									
TIC	145.19	307 PKP	48	56.30	-0.6	PTJ	3.48	322	ePn	00	15.50	0.6	NAC	6.46	67	P	23	40.96	0.3						
LIC	145.46	307 PKP	48	57.28	-0.1	VBY	3.56	312	ePnc	00	26.30	10.4X	TWW	6.56	64	P	23	42.94	0.8						
0.8s	21.50nm		eSn	01	15.90					EBG	6.68	66	P	23	44.13	0.3									
ZOBO	145.47	96 PKPd	48	58.00	0.0	TRI	4.54	305	eP	00	47.70	18.0X	MBW	6.73	48	P	23	45.03	0.4						
CNCB	145.64	97 PKP	49	00.00	1.7	e	01	50.50		TBM	6.74	64	P	23	45.02	0.3									
SIV	152.21	95 PKP	49	13.60	5.8X	VOY	4.64	309	ePn	00	30.70	-0.7	RPW	6.75	52	P	23	44.48	-0.3						
S.D. = 0.8 on 87 of 94 obs.										eSg	01	54.00		JBO	6.91	79	P	23	46.46	-0.5					
* NOV 13, 1990 12h 37m 57.71±0.61s										S.D. = 1.1 on 14 of 19 obs.															
15.553 N ± 9.4km 147.732 E ± 11.0km										* NOV 13, 1990 14h 09m 59.72±0.82s															
DEPTH = 33.0km (normol)										36.193 N ± 9.7km 27.999 E ± 7.9km															
4.8mb (3 obs.) 4.7Msz (1 obs.)										DEPTH = 10.0km (geophysicist)															
MARIANA ISLANDS REGION (215)										DODECANESE ISLANDS (369)															
										MD 3.8 (ATH).															
GUA	3.39	234 eP	38	49.20	-0.4	ARG	0.11	77	ePg	10	00.80	-1.7	ARG	0.11	77	ePg	10	00.80	-1.7						
		eS	39	30.00		KAP	0.93	226	ePb	10	17.80	0.4	KAP	0.93	226	ePb	10	17.80	0.4						
GUMO	3.39	235 eP	38	50.00	0.3	KSL	1.28	93	ePn	10	23.90	0.4	KSL	1.28	93	ePn	10	23.90	0.4						
PJG	3.39	235 eP	38	50.00	0.3	CIN	1.41	3	eP	10	26.00	0.7	CIN	1.41	3	eP	10	26.00	0.7						
MAT	22.56	340 (P)	42	56.00	-0.4	SMG	1.78	329	ePb	10	29.30	-1.3	SMG	1.78	329	ePb	10	29.30	-1.3						
WB5	37.58	201 eP	45	11.30	0.2	NPS	2.15	245	ePn	10	36.10	0.0	NPS	2.15	245	ePn	10	36.10	0.0						
WRA	37.65	201 P	45	11.00	-0.7	IZM	2.28	345	ePn	10	41.00	3.0X	IZM	2.28	345	ePn	10	41.00	3.0X						
0.6s	10.10nm	4.9mb	KHL	2.45	29	ePn	10	42.00	1.6	KHL	2.45	29	ePn	10	42.00	1.6									
ASPA	41.26	199 eP	45	41.30	-0.3	S.D. = 1.4 on 7 of 8 obs.																			
0.7s	7.50nm	4.5mb																							
LZH	44.03	306 eP	46	14.00	9.6X																				
1.0s	25.00nm	5.0mb																							
CHG	46.61	281 eP	46	25.30	0.4																				
KIC	145.11	307 PKP	57	33.70	-0.7																				
ZOBO	145.54	96 PKP	57	36.00	0.2																				
Z	20s	0.12um	4.7Msz																						
LPB	145.58	97 ePKP	57	41.00	5.3X																				
CNCB	145.71	97 PKP	57	37.00	0.9																				
S.D. = 0.6 on 11 of 13 obs.																									
* NOV 13, 1990 13h 02m 29.07±0.61s																									
39.426 N ± 5.2km 28.181 E ± 6.3km																									
DEPTH = 10.0km (geophysicist)																									
TURKEY (366)																									
MD 2.9 (ISK).																									
KCT	0.83	9 iPg	02	45.40	0.2																				
BNT	0.95	348 iPn	02	47.20	0.0																				
EDC	0.95	345 ePn	02	46.00	-1.2																				
</																									

13d 15h

CFS 0.33 355 eP 22 20.00 0.3
 SGS 0.40 308 eP 22 21.04 0.0
 COW 0.64 313 eP 22 25.39 -0.5
 VRN 0.68 278 eP 22 25.79 -0.9
 MTT 1.49 303 eP 22 40.00 -0.7
 JSC 1.63 325 eP 22 41.85 -0.7
 LHS 1.63 340 eP 22 41.26 -1.3
 PRM 2.18 302 eP 22 48.80 -1.8
 TRYN 2.90 323 iPd 22 59.24 -1.7
 BENN 2.90 335 iPd 22 58.90 -2.1
 PKNC 3.20 345 P 23 03.26 -2.0
 BRBC 3.30 328 P 23 05.20 -1.7
 RBNC 3.37 316 eP 23 06.14 -1.7
 GFM 3.44 337 eP 23 06.54 -2.3
 BBG 3.61 303 P 23 09.88 -1.2
 WSSR 3.68 310 eP 23 09.92 -2.2
 RICH 3.70 324 P 23 10.80 -1.6
 PLVA 3.81 347 eP 23 11.94 -2.0
 TKL 4.05 313 eP 23 15.64 -1.5
 SMTN 4.25 325 eP 23 18.34 -1.7
 BLA 4.26 357 eP 23 18.20 -2.0
 GBTN 4.33 310 eP 23 19.80 -1.4
 RSCP 5.22 302 eP 23 32.00 -1.8

31 obs. associated

* NOV 13, 1990 16h 35m 10.07 ± 2.61s
 43.304 N ± 19.1km 18.957 E ± 12.6km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 2.3 (TTG).

PLE 0.32 85 iPg 35 17.00 0.2
 NKY 0.49 176 ePg 35 19.50 -0.6
 BRY 0.50 217 ePg 35 19.50 -0.8
 IVA 0.81 122 ePg 35 25.30 -0.6
 TTG 0.90 166 ePg 35 27.00 -0.3
 HCY 0.92 202 ePg 35 27.70 0.0
 BDV 1.02 185 ePg 35 31.50 2.1
 HVAR 1.84 267 ePn 35 46.20 4.3X
 S.D. = 1.2 on 7 of 8 obs.

& NOV 13, 1990 17h 40m 25.27s
 61.253 N 151.334 W
 DEPTH = 64.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

CGLM 0.33 280 iP 40 35.91 -0.5
 SUA 0.35 53 iP 40 36.34 -0.3
 SPU 0.36 259 iP 40 35.97 -0.6
 CRP 0.40 272 eP 40 36.55 -0.5
 NCG 0.42 291 P 40 36.67 -0.6
 CKL 0.49 264 iP 40 37.20 -0.6
 BGL 0.51 272 iP 40 37.49 -0.6
 NKA 0.51 175 eP 40 39.23 1.3
 SKT 0.74 353 eP 40 39.52 -1.0
 PWA 0.81 60 eP 40 41.20 -0.1
 PMS 0.86 90 iP 40 41.74 -0.3
 RDT 0.86 218 iP 40 41.18 -0.9
 SLKM 0.92 143 iP 40 41.97 -0.9
 REF 1.02 222 iP 40 43.50 -0.7
 RDN 1.02 224 iP 40 43.25 -0.9
 NCT 1.04 229 iP 40 43.70 -0.8
 RS2 1.06 222 iP 40 44.06 -0.7
 RSO 1.05 222 eP 40 43.92 -0.8
 PLRM 1.11 71 eP 40 44.40 -0.8
 PMR 1.11 71 iPd 40 44.40 -0.8

NNL 1.22 179 eP 40 47.15 0.5
 CUT 1.26 23 eP 40 46.46 -0.8
 GHO 1.27 65 eP 40 46.52 -0.9
 KNK 1.40 82 iP 40 48.25 -0.9
 INE 1.47 216 eP 40 49.02 -1.2
 SEW 1.48 140 P 40 49.24 -0.9
 INW 1.48 217 eP 40 49.21 -1.2
 BRLK 1.51 171 eP 40 49.93 -0.7
 CNPM 1.73 178 iP 40 52.99 -0.7
 OPT 1.86 211 eP 40 55.02 -0.5
 KNIM 1.98 116 eP 40 54.31 -2.9
 SCM 2.01 71 eP 40 55.96 -1.6
 PDB 2.04 225 eP 40 56.26 -1.7
 SVW 2.08 268 iPd 40 56.70 -1.9
 GLI 2.10 98 eP 40 56.04 -2.7
 LTI 2.10 124 eP 40 56.29 -2.5
 TRF 2.26 12 eP 41 00.00 -1.2
 VZW 2.33 93 eP 40 59.66 -2.3
 VLZ 2.43 91 iP 41 01.03 -2.3
 TOA 2.60 69 iPd 41 04.90 -1.0
 KLU 2.62 82 eP 41 03.70 -2.4
 TTA 2.77 309 iPd 41 06.20 -2.1
 FBA 4.00 22 ePc 41 24.50 -0.9
 IMA 4.95 349 iPd 41 36.10 -2.8

44 obs. associated

NOV 13, 1990 17h 48m 30.30 ± 0.48s
 44.778 N ± 2.9km 6.816 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.3 (LDG).

RRL 0.14 351 P 48 33.54 -0.3
 BNI 0.29 340 P 48 36.00 -0.3
 BHB 0.32 79 P 48 37.43 0.4
 PZZ 0.34 143 P 48 37.13 -0.3
 RSP 0.49 40 P 48 40.72 0.5
 STV 0.65 146 P 48 42.67 -0.6
 ENR 0.70 142 P 48 43.18 -1.0
 LSD 0.72 19 P 48 44.31 -0.4
 ROB 0.90 122 P 48 48.31 0.8
 SBF 1.02 154 P 48 50.00 0.4
 FIN 1.15 119 P 48 51.28 -0.5
 ORX 1.19 44 P 48 52.71 0.2
 FRF 1.22 186 P 48 52.30 -0.8
 PCP 1.26 100 P 48 53.74 0.0
 LRG 1.36 194 P 48 56.20 0.9
 LMR 1.46 189 P 48 57.60 0.9
 S.D. = 0.7 on 16 of 16 obs.

NOV 13, 1990 18h 58m 43.04 ± 0.31s
 6.785 S ± 4.5km 131.683 E ± 6.5km
 DEPTH = 33.0km (normal)
 5.0mb (10 obs.)

TANIMBAR ISLANDS REGION (281)
 MTN 6.05 185 eP 00 14.00 1.4
 KUG 8.68 247 ePc 00 42.00 -7.4X
 KNA 9.36 198 iPd 00 58.20 -0.5
 MNDI 11.92 88 eP 01 29.00 -4.9X
 WB5 13.28 169 eP 01 47.40 -4.4X
 DAV 15.07 336 eP 02 16.00 0.7
 PMG 15.54 101 eP 02 21.00 -0.4
 OIS 15.70 151 iPd 02 20.90 -2.6
 ASPA 16.92 173 eP 02 36.20 -2.9
 Z 20s 118.70nm 5.5mb
 1.70um 4.6msz

MBL 18.32 218 iPd 02 55.50 -0.9
 TRT 18.92 266 ePc 03 03.90 0.1
 CTA 19.36 134 iPd 03 09.70 0.7
 KKM 20.02 309 ePd 03 15.00 -1.2
 NANU 22.10 223 eP 03 38.00 0.7
 OLP 23.03 150 iPd 03 49.70 3.3X
 GUMO 24.10 33 eP 03 58.90 2.0
 FORR 24.18 188 eP 03 59.00 1.6
 RMO 25.46 142 ePc 04 10.00 0.2
 BAG 25.53 335 eP 04 10.50 -0.2
 COOL 25.93 201 eP 04 14.00 -0.2
 MRWA 26.78 212 eP 04 26.00 4.1X
 BAL 27.55 209 eP 04 31.00 2.0
 KLB 27.90 206 eP 04 33.20 1.0
 CMS 27.91 154 e(P) 04 44.00 11.8X
 SVO 27.96 97 P 04 40.00 7.2X
 HNR 28.10 97 P 04 35.00 0.9
 BRS 28.65 138 eP 04 37.00 -2.0
 ADE 28.78 168 e(P) 04 50.00 9.9X
 MUN 28.93 208 eP 04 44.00 2.6X
 COO 30.33 144 eP 04 55.00 1.0
 BWA 31.55 153 eP 05 06.30 1.6
 BFD 31.83 163 e(P) 05 16.00 9.0X
 PPI 31.83 280 eP 05 07.00 -0.3
 CAN 32.56 153 eP 05 16.30 2.8X
 SSE 38.98 346 eP 06 08.50 0.5
 Z 20s 0.40um 4.2msz
 BDT 40.16 307 eP 06 18.00 0.0
 WHN 40.67 337 eP 06 23.50 1.5
 GYA 41.00 325 P 06 25.40 0.5
 CHG 41.09 309 ePc 06 26.00 0.3
 KMI 42.42 319 Pd 06 38.00 1.3
 MAT 43.53 8 eP 06 44.00 -1.4
 XAN 45.97 333 P 07 04.40 -0.6
 CD2 46.04 326 eP 07 05.10 -0.5
 TIY 47.77 339 eP 07 18.80 -0.4
 BJI 48.74 344 P 07 25.00 -1.5
 LZH 50.02 330 eP 07 37.00 0.3
 CN2 50.66 354 eP 07 40.00 -1.2
 LSA 53.21 315 eP 08 01.40 0.2
 GTA 54.61 330 Pd 08 11.40 0.5
 GUN 56.08 310 P 08 21.40 -0.6
 PKI 56.27 310 P 08 22.00 -1.4
 KKN 56.48 310 P 08 23.80 -0.9
 DMN 56.52 309 P 08 24.60 -0.5
 KOD 56.57 287 eP 08 25.40 -0.3
 GKN 57.07 310 P 08 28.20 -0.7
 GBA 57.54 291 P 08 29.10 -3.0X
 HYB 57.73 295 eP 08 33.00 -0.5
 WMO 64.14 326 iPd 09 17.50 0.9
 KSH 68.96 317 P 09 50.00 2.6X
 MAIO 79.85 309 iPd 10 52.00 1.7
 CNCB 149.54 141 PKP 18 34.20 6.6X
 LPB 149.67 140 ePKP 18 45.00 17.4X
 PPD 151.21 174 e(PKP) 18 45.50 16.2X
 SIV 154.09 151 PKP 18 53.50 20.0X
 S.D. = 1.2 on 47 of 64 obs.
 NOV 13, 1990 20h 06m 16.76 ± 0.75s
 39.234 N ± 7.1km 20.782 E ± 6.3km
 DEPTH = 5.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 2.9 (ATH).

IGT 0.46 311 iPd 06 23.98 -2.0
 eS 06 31.46
 EVR 0.86 111 ePg 06 32.60 -1.2
 KEK 0.90 302 ePg 06 35.20 0.8
 VLS 1.07 188 ePg 06 38.00 0.7
 AGG 1.22 99 ePd 06 39.22 -0.8
 eS 06 58.46
 KZN 1.31 35 ePb 06 41.20 -0.4
 LIT 1.58 56 ePd 06 45.46 0.0
 eS 07 08.70
 FNA 1.61 16 ePd 06 46.58 0.6
 eS 07 10.30
 OHR 1.87 0 ePn 06 51.00 1.2
 NEO 1.90 87 ePg 06 51.30 1.2
 S.D. = 1.2 on 10 of 10 obs.

* NOV 13, 1990 20h 13m 29.38±0.55s
 0.062 S ± 9.8km 16.671 W ± 8.8km
 DEPTH = 10.0km (geophysicist)
 5.0mb (31 obs.)
 NORTH OF ASCENSION ISLAND (407)

LIC 13.19 62 P 16 38.92 -0.6
 Z 20s 0.35um
 TIC 13.40 60 P 16 41.14 -1.1
 KIC 13.51 62 P 16 42.86 -0.8
 0.4s 16.00nm 5.4mb
 MBO 14.36 359 eP 16 54.20 -0.7
 iS 19 14.90
 LKO 14.59 49 P 16 54.18 -3.7X
 PDCR 25.48 240 e(P) 18 48.00 -11.6X
 TIO 32.09 15 iP 20 00.50 1.4
 i 20 41.50
 i 20 55.50
 AVE 34.31 14 iP 20 19.50 1.3
 i 21 45.50
 IFR 35.12 17 iPd 20 27.30 1.9
 TOL 41.39 15 eP 21 18.00 0.5
 EPF 45.54 17 eP 21 51.50 0.4
 1.1s 22.00nm 5.0mb
 SIV 46.57 248 P 21 59.20 -0.4
 LPO 47.29 17 eP 22 04.70 -0.2
 1.0s 14.00nm 5.0mb
 LFF 47.40 17 eP 22 05.80 0.1
 1.1s 29.30nm 5.3mb
 CAF 47.78 18 eP 22 08.40 -0.4
 1.0s 17.00nm 5.1mb
 LMR 47.93 23 eP 22 10.40 0.5
 1.0s 14.00nm 5.0mb
 RJF 47.96 17 eP 22 09.80 -0.3
 1.0s 16.00nm 5.1mb
 Z 20s 0.13um 3.9Msz
 LRG 47.98 23 eP 22 10.80 0.5
 1.1s 22.00nm 5.2mb
 Z 20s 0.13um 3.9Msz
 FRF 48.18 23 eP 22 11.90 0.0
 1.1s 17.10nm 5.0mb
 BUL 48.59 117 eP 22 16.30 0.7
 MFF 48.68 15 eP 22 15.40 -0.3
 1.0s 18.00nm 5.1mb
 SBF 48.74 23 eP 22 16.20 -0.1
 1.0s 22.00nm 5.2mb
 LSF 48.82 17 eP 22 15.50 -1.3
 0.9s 16.40nm 5.1mb
 TCF 49.05 17 eP 22 17.60 -1.0
 1.0s 8.00nm 4.7mb
 MAF 49.10 18 eP 22 19.50 0.6
 1.0s 20.00nm 5.1mb
 BGF 49.49 18 eP 22 22.30 0.4
 0.7s 6.05nm 4.7mb
 LPF 49.79 14 eP 22 23.60 -0.6
 0.9s 11.45nm 4.9mb
 AVF 49.85 18 eP 22 24.80 0.1
 0.8s 4.05nm 4.5mb
 LPG 49.86 21 eP 22 25.90 0.7
 1.0s 16.00nm 5.0mb
 LPL 49.87 21 eP 22 25.80 0.6
 0.9s 14.75nm 5.0mb
 SSF 50.14 18 eP 22 26.90 0.0
 1.2s 20.85nm 5.0mb
 GRR 50.17 14 eP 22 26.60 -0.5
 1.0s 20.00nm 5.0mb
 LBF 50.22 18 eP 22 27.30 -0.3
 0.8s 9.40nm 4.8mb
 LOR 50.43 18 eP 22 28.80 -0.4
 0.8s 9.40nm 4.8mb
 Z 20s 0.17um 4.1Msz

LDF 50.54 14 eP 22 30.20 0.3
 0.9s 16.40nm 5.0mb
 FLN 50.61 14 eP 22 29.50 -0.9
 1.0s 20.00nm 5.0mb
 Z 20s 0.17um 4.1Msz
 BSF 51.88 20 eP 22 39.40 -0.9
 1.0s 12.00nm 4.8mb
 HAU 51.88 19 eP 22 39.60 -0.6
 0.9s 14.75nm 4.9mb
 Z 20s 0.13um 3.9Msz
 FEL 52.34 21 eP 22 52.73 8.9X
 CDF 52.55 20 eP 22 44.40 -0.9
 1.0s 8.00nm 4.6mb
 SOTA 53.01 24 i(P) 22 51.40 2.7
 0.8s 10.50nm 4.8mb
 i 22 59.80
 DOU 53.18 17 P 22 56.70 6.9X
 CNCB 53.20 249 P 22 50.00 -1.1
 ZOBO 53.21 250 P 22 49.00 -2.3
 Z 22s 0.21um 4.1Msz
 LR 39 28.00
 LPB 53.25 249 eP 22 54.00 2.7
 SKO 54.13 35 eP 22 51.50 -5.3X
 ENN 54.16 18 eP 23 08.50 11.5X
 1.0s 17.00nm
 KHC 55.49 24 P 23 15.00 8.2X
 WTS 55.51 17 eP 23 18.00 11.2X
 1.0s 24.00nm
 ZST 56.26 27 eP 23 17.20 4.9X
 CLL 57.01 22 eP 23 25.00 7.4X
 BRG 57.01 23 eP 23 26.00 8.3X
 1.3s 13.00nm 4.8mb
 SPC 58.42 28 eP 23 33.50 5.8X
 MLR 58.88 34 eP 23 30.00 -1.0
 KRA 58.90 27 eP 23 37.00 6.2X
 HFS 64.48 16 eP 24 06.70 -1.5
 0.7s 1.90nm 4.4mb
 Z 16s 0.13um 4.2MszX
 LR 48 25.00
 NUR 68.24 21 eP 24 42.00 9.8X
 SUF 70.30 19 eP 24 45.20 0.4
 SOD 73.70 16 eP 25 16.00 11.0X
 KEV 75.48 14 eP 25 19.00 3.8X
 MAIO 78.90 53 eP 25 37.00 2.0
 S.D. = 1.1 on 45 of 61 obs.

% NOV 13, 1990 20h 20m 35.96±0.93s
 0.016 S ± 7.5km 77.886 W ± 6.8km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)
 CAYA 0.14 314 iP 20 39.50 -0.1
 S 20 43.00
 ANGL 0.51 138 eP 20 46.50 0.2
 eS 20 54.60
 COTA 0.57 308 iP+ 20 47.80 -0.1
 QUR 0.66 256 iPd 20 49.70 0.3
 S 21 00.90
 QTO 0.67 254 eP 20 50.20 0.6
 YANA 0.69 262 iP+ 20 49.80 -0.2
 iS 21 00.30
 GGP 0.73 257 iP+ 20 50.70 0.0
 eS 21 02.30
 VC1 0.80 220 iPd 20 51.30 -0.6
 S.D. = 0.4 on 8 of 8 obs.

? NOV 13, 1990 20h 26m 20.91±6.64s
 6.948 S ± 58.6km 128.777 E ± 18.6km
 DEPTH = 74.9 ± 35.1 km
 4.6mb (1 obs.)
 BANDA SEA (280)
 KUG 6.04 238 eP 27 49.00 -0.7
 eS 28 49.00
 MTN 6.30 159 iPc 27 54.60 1.3
 0.3s 457.00nm 6.4mb X
 KNA 8.75 180 iPc 28 26.80 -0.2
 0.3s 92.00nm 6.1mb X
 eS 29 52.00
 WB5 13.95 158 eP 29 33.80 -2.8X
 eS 31 54.00
 MBL 16.57 211 eP 30 10.50 0.5
 eS 32 58.00
 QIS 17.12 143 eP 30 17.00 0.1
 eS 33 09.00
 ASPA 17.34 164 eP 30 17.60 -2.0
 0.4s 15.60nm 4.6mb

eS 33 14.70
 WARB 19.24 186 eP 30 46.00 3.8X
 NANU 20.10 218 iPc 30 52.00 0.9
 eS 34 28.00
 FORR 23.79 181 iPd 31 30.40 2.8X
 S.D. = 1.6 on 7 of 10 obs.
 ? NOV 13, 1990 20h 47m 23.17±5.34s
 31.737 S ± 17.1km 68.126 W ± 34.1km
 DEPTH = 10.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)
 CFA 0.16 323 ePc 47 26.90 0.0
 RTCV 0.37 250 ePc 47 30.00 -0.8
 RTLL 0.50 324 ePc 47 32.00 -1.3
 ZON 0.51 292 eP 47 34.50 1.0
 eS 47 53.50
 RTCB 0.63 293 ePc 47 35.40 -0.4
 eS 47 48.00
 RTBS 1.13 273 e(P) 47 45.00 0.6
 RTRS 1.94 323 iPc 47 57.40 1.0
 eS 48 26.00
 S.D. = 1.1 on 7 of 7 obs.

* NOV 13, 1990 21h 01m 13.02±0.77s
 44.490 N ± 16.8km 148.694 E ± 11.4km
 DEPTH = 33.0km (normal)
 4.0mb (2 obs.)
 KURIL ISLANDS (221)
 MAT 11.25 229 eP 03 53.00 -1.5
 1.1s 18.99nm 5.2mb X
 (S) 06 05.00
 MDJ 13.63 277 eP 04 28.50 2.3
 CN2 16.69 276 P 05 07.40 1.6
 BJI 24.38 271 eP 06 32.50 3.4X
 SVW 36.25 43 eP 08 22.10 7.5X
 GTA 36.27 279 eP 08 14.20 -0.9
 IMA 37.44 35 iPd 08 24.80 0.1
 CD2 37.59 264 P 08 26.10 -0.1
 FBA 39.84 37 (P) 08 45.50 1.0
 CHG 48.55 255 eP 09 55.90 0.8
 GUN 52.08 274 P 10 21.80 -0.5
 KKN 52.58 274 P 10 24.80 -1.1
 PKI 52.62 274 P 10 25.60 -0.7
 DMN 52.81 274 P 10 27.20 -0.5
 GKN 52.91 275 P 10 27.60 -0.7
 WRA 65.45 195 P 11 56.00 1.3
 2.6s 2.50nm 3.9mb
 TNP 67.13 59 P 12 05.60 -0.1
 GBA 67.24 267 P 12 07.00 0.6
 NB2 69.31 339 P 12 16.00 -2.7
 0.7s 1.50nm 4.2mb
 PDCR 147.46 14 e(PKP) 20 54.10 1.4
 S.D. = 1.3 on 18 of 20 obs.

* NOV 13, 1990 21h 18m 55.32±0.96s
 31.054 S ± 8.8km 178.722 W ± 15.1km
 DEPTH = 207.7 ± 10.6 km
 5.2mb (4 obs.)
 KERMADEC ISLANDS REGION (177)
 RAO 1.93 21 P 19 33.50 -0.5
 S 19 53.50
 PUZ 7.43 199 eP 20 44.30 2.2
 eS 22 11.20
 MNG 10.64 205 eP 21 23.00 -0.6
 eS 23 19.30
 KIW 11.06 206 eP 21 29.60 0.6
 CAW 11.22 205 eP 21 29.10 -1.9
 MRW 11.46 206 eP 21 34.60 0.6
 KHZ 12.92 206 eP 21 51.30 -1.2
 DZM 15.99 300 iPc 22 30.90 0.3
 BRS 25.11 271 iPc 24 10.50 7.7X
 i 24 35.30
 CTA 33.30 281 iPd 25 16.20 0.9
 0.5s 49.30nm 5.4mb
 QIS 38.75 275 iPc 26 01.60 0.4
 ASPA 42.46 268 eP 26 31.60 0.0
 0.6s 15.90nm 4.7mb
 WRA 43.50 273 P 26 39.00 -1.0
 0.4s 45.90nm 5.3mb
 WB5 43.51 273 eP 26 39.70 -0.3
 FORR 45.23 256 eP 26 54.00 0.5
 0.4s 26.00nm 5.0mb
 SBA 47.34 184 P 27 18.00 8.5X
 TNP 89.55 44 P 31 31.90 1.5

13d 21h

SOD 140.66 345 ePKP 37 49.00 -11.7X
 SUF 144.52 340 ePKP 38 05.00 -2.5
 NUR 146.70 339 ePKP 38 12.00 0.8
 NB2 149.30 351 PKP 38 19.10 3.7X
 0.8s 3.80nm
 HFS 149.75 348 ePKP 38 19.40 3.4X
 0.3s 1.10nm
 KIC 154.79 166 PKP 38 36.00 11.4X
 S.D. = 1.3 on 17 of 23 obs.

NOV 13, 1990 22h 11m 52.35±0.48s
 15.640 N ± 5.8km 147.789 E ± 8.1km
 DEPTH = 34.3km (3 depth phases)
 4.7mb (11 obs.)

MARIANA ISLANDS REGION (215)

GUA 3.48 233 eP 12 46.10 0.6
 eS 13 25.20
 TT 15 24.50
 GUMO 3.49 235 eP 12 46.20 0.6
 PJG 3.49 235 eP 12 46.50 0.9
 IIDJ 21.65 338 eP 16 42.10 0.2
 CHJJ 21.79 341 eP 16 44.10 0.9
 MAT 22.50 339 (P) 16 50.00 -0.3
 1.6s 56.67nm 4.8mb
 MTMJ 22.67 339 eP 16 53.50 1.4
 NIJJ 22.88 342 eP 16 55.30 1.3
 SSE 28.76 307 eP 17 46.80 -2.2
 CN2 33.90 330 eP 18 33.50 -0.6
 WHN 34.00 302 eP 18 35.00 -0.1
 BJI 36.72 318 eP 18 57.00 -1.2
 1.5s 39.00nm 5.1mb
 WB5 37.68 201 eP 19 05.90 -0.5
 e 19 16.50 37km
 WRA 37.75 201 P 19 13.00 6.0X
 1.0s 16.20nm 4.8mb
 XAN 39.45 305 P 19 21.00 -0.2
 GYA 39.71 293 P 19 25.00 1.5
 ASPA 41.36 199 eP 19 36.60 -0.3
 0.8s 7.00nm 4.4mb
 CD2 42.92 299 eP 19 50.00 0.2
 LZH 44.03 306 eP 19 59.50 0.7
 2.0s 130.00nm 5.4mb
 CHG 46.65 281 eP 20 20.00 0.3
 GTA 48.00 309 Pd 20 30.20 -0.1
 1.0s 10.00nm 4.8mb
 LSA 53.63 296 eP 21 14.30 0.9
 WMO 57.82 312 iPc 21 43.90 0.9
 GUN 58.25 293 P 21 46.40 -0.2
 PKI 58.68 293 P 21 48.80 -0.8
 KKN 58.78 293 P 21 49.60 -0.6
 DMN 58.95 293 P 21 50.80 -0.5
 GKN 59.34 293 P 21 53.40 -0.6
 0.8s 17.00nm 5.2mb
 HYB 66.06 282 eP 22 38.00 -0.5
 GBA 67.82 279 Pd 22 48.60 -1.0
 0.6s 2.70nm 4.5mb
 INK 71.40 23 eP 23 11.00 0.3
 MBC 75.60 14 eP 23 35.50 0.4
 0.9s 6.00nm 4.6mb
 MAIO 79.57 305 eP 24 10.00 12.1X
 YKA 79.74 28 eP 24 08.00 9.9X
 0.8s 2.40nm 4.2mb
 TNP 84.35 52 P 24 23.40 0.5
 pP 24 33.50 32km
 APO 95.57 339 eP 25 13.50 -1.8
 0.5s 0.90nm 4.5mb
 KIC 145.10 307 PKP 31 28.56 -0.3
 TIC 145.13 307 PKP 31 28.46 -0.5
 LIC 145.41 307 PKP 31 29.40 0.0
 ZOBO 145.49 96 PKP 31 31.00 0.8
 LPB 145.53 97 ePKP 31 44.00 13.9X
 CNCB 145.66 97 PKP 31 34.00 3.5X
 SIV 152.24 95 PKP 31 57.00 17.0X
 S.D. = 0.9 on 37 of 43 obs.

NOV 13, 1990 22h 55m 53.24±0.86s
 39.123 N ± 6.7km 20.563 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.0 (ATH).

IGT 0.45 336 ePd 56 00.60 -1.7
 eS 56 09.04
 KEK 0.83 315 ePg 56 09.30 -0.1

VLS 0.94 179 ePg 56 11.80 0.5
 EVR 0.99 102 ePg 56 10.00 -2.1
 AGG 1.38 94 iPd 56 16.61 0.1
 eS 56 39.36
 KZN 1.51 38 ePg 56 21.40 1.1
 FNA 1.77 20 ePc 56 25.04 0.9
 eS 56 49.44
 LIT 1.78 56 ePd 56 24.04 -0.2
 eS 56 49.96
 OHR 1.99 5 ePn 56 28.70 1.3
 NEO 2.08 84 ePb 56 29.70 1.1
 GRG 2.31 37 ePd 56 31.24 -0.7
 VAY 2.68 34 ePn 56 36.70 -0.5
 SKO 2.92 13 ePn 56 41.00 0.4
 S.D. = 1.2 on 13 of 13 obs.

& NOV 13, 1990 23h 00m 43.28s
 59.886 N 153.443 W
 DEPTH = 137.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

IVS 0.22 56 iP 01 01.98 0.9
 eS 01 17.36
 INW 0.24 40 iP 01 01.70 0.8
 eS 01 16.48
 OPT 0.26 155 iP 01 01.91 1.0
 eS 01 16.74
 INE 0.26 47 iP 01 01.84 0.8
 eS 01 17.47
 PDB 0.39 256 iP 01 01.79 0.5
 iS 01 16.64
 AUH 0.52 180 eP 01 03.03 -0.6
 AUP 0.53 179 iP 01 03.11 -0.6
 AGU 0.53 179 eP 01 03.76 0.0
 AUE 0.53 176 iP 01 02.81 -0.7
 eS 01 17.21
 AUI 0.55 179 eP 01 03.01 -0.7
 RS2 0.67 30 iP 01 03.94 -0.8
 RSO 0.67 30 eP 01 03.72 -1.0
 REF 0.71 31 iP 01 04.14 -0.9
 RDN 0.72 28 iP 01 04.16 -0.8
 NCT 0.72 20 iP 01 04.17 -0.8
 MCNL 0.84 213 iP 01 04.55 -1.2
 RDT 0.86 36 iP 01 05.09 -0.9
 HOM 0.94 103 iP 01 05.95 -0.6
 iS 01 23.65
 CDD 0.96 186 iP 01 05.59 -1.3
 eS 01 23.99
 XLV 0.97 116 eP 01 05.87 -1.0
 eS 01 23.77
 >NNL 1.09 81 iP 01 08.06 0.1
 CNPM 1.18 107 iP 01 07.74 -1.1
 eS 01 26.71
 BRK 1.30 94 iP 01 08.99 -1.1
 SYI 1.39 157 iP 01 09.40 -1.6
 eS 01 30.25
 NKA 1.39 51 iP 01 11.70 0.7
 CKL 1.42 22 iP 01 10.74 -0.8
 SPU 1.47 27 iP 01 10.90 -1.1
 BGL 1.48 20 iP 01 11.48 -0.6
 CRP 1.52 24 iP 01 11.93 -0.8
 CGLM 1.59 26 eP 01 12.36 -1.0
 NCG 1.65 22 eP 01 13.15 -0.9
 SLKM 1.73 67 iP 01 13.41 -1.4
 SEW 2.02 82 iP 01 16.77 -1.5
 SUA 2.07 39 iP 01 17.88 -1.1
 SKT 2.30 23 eP 01 20.54 -1.3
 PMS 2.35 53 eP 01 20.53 -1.9
 LTI 2.82 84 eP 01 26.65 -1.7
 KNIM 2.89 78 eP 01 26.65 -2.7
 KKK 2.89 56 eP 01 28.55 -0.8
 GHO 2.91 48 eP 01 27.77 -1.9
 MTU 2.92 85 eP 01 28.08 -1.6
 CUT 2.96 30 eP 01 28.60 -1.6
 GLI 3.31 70 eP 01 32.54 -2.2
 43 obs. associated

* NOV 14, 1990 00h 03m 11.32±1.00s
 15.641 N ± 13.4km 147.850 E ± 16.3km
 DEPTH = 33.0km (normal)
 4.3mb (2 obs.)

MARIANA ISLANDS REGION (215)

GUMO 3.54 235 eP 04 05.50 0.2
 eS 04 48.10
 PJG 3.54 235 eP 04 05.30 0.0

WRA 37.77 201 P 10 36.00 9.7X
 0.9s 2.20nm 4.0mb
 LZH 44.07 306 eP 11 19.50 1.2
 2.0s 25.00nm 4.7mb
 GUN 58.30 293 P 13 06.00 -0.1
 PKI 58.73 293 P 13 08.80 -0.3
 KKN 58.84 293 P 13 09.00 -0.7
 DMN 59.00 293 P 13 10.80 0.0
 GKN 59.40 293 P 13 13.00 -0.5
 HYB 66.12 282 eP 13 58.00 0.0
 GBA 67.87 279 P 14 09.00 -0.1
 KIC 145.15 307 PKP 22 48.00 -0.1
 TIC 145.18 308 PKP 22 48.10 -0.1
 LIC 145.45 307 PKP 22 49.00 0.4
 S.D. = 0.5 on 13 of 14 obs.

? NOV 14, 1990 00h 08m 13.68±9.14s
 41.443 N ± 57.5km 23.408 E ± 20.5km
 DEPTH = 5.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)

SRS 0.35 157 ePd 08 20.80 0.0
 eS 08 27.68
 KNT 0.48 234 ePc 08 23.20 0.0
 eS 08 31.36
 SOH 0.62 184 ePc 08 26.12 0.0
 THE 0.88 203 iPc 08 31.00 0.0
 eS 08 45.08
 S.D. = 0.0 on 4 of 4 obs.

? NOV 14, 1990 00h 30m 43.22±6.12s
 38.369 N ± 30.3km 15.604 E ± 31.9km
 DEPTH = 103.4 ± 55.6 km
 SICILY (398)

ATN 0.24 208 Pc 30 58.10 0.1
 eSg 31 10.40
 CZI 0.94 26 P 31 02.10 -1.4
 TDS 1.41 24 Pd 31 09.40 0.5
 eSn 31 29.90
 ROI 1.42 32 P 31 10.20 1.2
 CSI 1.50 21 P 31 10.80 0.7
 MGR 1.77 359 P 31 13.00 -0.4
 eSn 31 36.50
 LCI 2.68 42 P 31 24.70 -0.7
 eSn 31 58.00
 S.D. = 1.3 on 7 of 7 obs.

* NOV 14, 1990 00h 31m 39.49±0.90s
 28.122 S ± 13.4km 26.789 E ± 11.1km
 DEPTH = 5.0km (geophysicist)
 4.8mb (2 obs.)

REPUBLIC OF SOUTH AFRICA (584)

SWZ 1.60 305 iPd 32 10.00 1.3
 S 32 30.00
 EVA 2.60 52 iPd 32 24.00 1.0
 S 32 59.00
 SLR 2.72 30 iPd 32 25.50 0.6
 0.9s 147.06nm
 BUL 8.12 12 iPn 33 38.10 -2.8
 iSn 35 05.20
 iS+ 35 47.50
 iSg 36 17.50
 CER 8.30 229 iPc 33 44.00 0.6
 S 35 15.00
 KRI 11.54 14 iPn 34 18.00 -10.1X
 iSn 36 13.00
 iSg 37 24.00
 LWI 25.81 5 iPc 37 14.60 1.0
 KIC 45.84 314 P 40 05.24 0.7
 TIC 46.23 314 P 40 07.90 0.3
 LKO 48.81 315 P 40 27.26 -0.6
 GBA 64.22 57 Pc 42 18.00 0.1
 0.8s 6.10nm 4.9mb
 GKN 78.66 50 P 43 44.62 0.1
 SIV 80.79 257 P 43 58.00 1.9X
 CHTO 83.91 65 P 44 12.60 0.5
 1.2s 7.64nm 4.8mb
 ZOBO 86.68 253 eP 44 24.00 -2.7
 S.D. = 1.5 on 13 of 15 obs.

? NOV 14, 1990 01h 10m 49.76±1.10s
 46.128 N ± 10.3km 14.077 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.6 (LJU), 2.1 (TRI). Felt

QUE	5.67	206	eP	44	20.50	0.1
			eS	45	22.10	
NDI	9.14	135	eP	45	08.50	-0.2
			eS	46	45.50	
GKN	14.58	116	P	46	22.00	0.0
DMN	15.14	116	P	46	29.24	-0.2

14d 04h

KKN 15.17 115 P 46 30.04 0.2
 PKI 15.39 116 P 46 32.44 -0.3
 GUN 15.55 114 P 46 35.32 0.5
 HFS 43.39 323 eP 50 56.80 0.0
 0.4s 1.10nm 4.0mb
 S.D. = 0.3 on 8 of 8 obs.

% NOV 14, 1990 05h 03m 53.75±1.0Bs
 39.199 N ± 9.3km 27.822 E ± 11.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

IZM 0.91 209 ePn 04 11.00 -0.2
 KCT 1.13 21 iPn 04 15.70 0.8
 BNT 1.16 4 ePn 04 14.00 -1.4
 EZN 1.32 299 ePn 04 18.60 0.5
 IZI 1.71 48 ePn 04 24.00 0.2
 S.D. = 1.2 on 5 of 5 obs.

? NOV 14, 1990 05h 11m 22.63±2.33s
 31.288 S ± 18.0km 69.976 W ± 30.6km
 DEPTH = 130.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.58 130 eP 11 42.20 -0.2
 RTCB 1.03 101 ePc 11 46.00 -0.2
 S 12 04.80
 RTRS 1.20 22 iPd 11 47.90 0.1
 RTLL 1.29 92 iPd 11 48.40 -0.4
 eS 12 08.00
 RTCV 1.35 115 ePc 11 50.00 0.5
 S 12 11.00
 CFA 1.52 103 ePd 11 51.50 0.2
 S 12 13.00
 S.D. = 0.4 on 6 of 6 obs.

% NOV 14, 1990 05h 28m 16.41±2.14s
 43.489 N ± 13.7km 8.013 E ± 11.0km
 DEPTH = 10.0km (geophysicist)

CORSICA (380)

ML 1.9 (LDG).

SBF 0.56 312 Pg 28 28.00 0.1
 Sg 28 34.20
 FIN 0.73 11 P 28 31.17 0.3
 S 28 39.88
 ROB 0.81 353 P 28 32.48 0.3
 S 28 40.91
 ENR 0.85 330 P 28 32.94 0.0
 S 28 41.94
 STV 0.90 327 P 28 33.71 -0.1
 S 28 43.06
 FRF 1.00 275 Pg 28 35.60 0.3
 PCP 1.12 20 P 28 37.13 -0.3
 S 28 52.29
 LRG 1.20 269 Pg 28 38.60 -0.2
 Sg 28 52.70
 PZZ 1.21 327 P 28 38.43 -0.6
 S 28 54.03
 S.D. = 0.4 on 9 of 9 obs.

NOV 14, 1990 06h 00m 10.47±0.56s
 43.506 N ± 4.2km 7.947 E ± 4.3km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

ML 2.5 (LDG).

SBF 0.52 314 Pg 00 21.40 0.5
 Sg 00 27.60
 FIN 0.73 15 P 00 24.54 -0.3
 S 00 33.36
 ROB 0.79 356 P 00 25.67 -0.2
 S 00 35.21
 ENR 0.82 332 P 00 26.18 -0.2
 S 00 35.62
 STV 0.87 329 P 00 27.11 -0.1
 S 00 37.15
 FRF 0.95 274 Pg 00 28.40 -0.1
 Sg 00 40.40
 LMR 1.06 261 Pg 00 30.20 -0.3
 Sg 00 43.20
 PCP 1.12 22 P 00 31.53 0.0
 S 00 45.68
 LRG 1.16 268 Pg 00 32.00 -0.1
 Sg 00 45.20
 PZZ 1.17 329 P 00 32.85 0.4

PGF 1.23 141 Pn 00 46.40
 Sn 00 33.60 0.2
 BHB 1.42 340 P 00 48.80
 S 00 36.44 0.1
 S 00 52.86
 CDR 1.59 277 eP 00 44.40 5.6X
 e 01 00.50
 LPL 2.19 337 Pg 00 50.60 3.0X
 S.D. = 0.3 on 12 of 14 obs.

% NOV 14, 1990 06h 01m 24.80±1.04s
 43.420 N ± 10.7km 7.898 E ± 9.2km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

ML 2.6 (LDG).

SBF 0.56 323 Pg 01 34.70 -1.4
 Sg 01 40.80
 FRF 0.92 279 Pg 01 42.00 -0.4
 Sg 01 54.00
 LMR 1.02 266 Pg 01 43.80 -0.2
 Sg 01 56.80
 LRG 1.12 272 Pg 01 45.50 -0.3
 Sg 01 58.90
 PGF 1.19 137 Pn 01 46.80 -0.2
 Sn 02 02.20
 CDR 1.57 280 eP 01 54.30 1.5
 e 02 14.10
 LPL 2.26 339 Pg 02 04.00 1.1
 S.D. = 1.2 on 7 of 7 obs.

NOV 14, 1990 06h 04m 14.48±0.63s
 43.512 N ± 4.7km 7.988 E ± 5.0km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

ML 2.6 (LDG).

SBF 0.53 311 Pg 04 25.40 0.1
 Sg 04 31.60
 FIN 0.71 13 P 04 28.51 -0.1
 S 04 37.43
 ROB 0.79 354 P 04 29.94 0.1
 S 04 39.27
 ENR 0.82 330 P 04 30.35 -0.1
 S 04 39.79
 STV 0.88 327 P 04 31.07 -0.3
 S 04 41.22
 FRF 0.98 273 Pg 04 32.80 -0.2
 Sg 04 44.50
 LMR 1.09 261 Pg 04 34.20 -0.8
 Sg 04 47.20
 PCP 1.11 21 P 04 34.66 -0.6
 S 04 49.22
 PZZ 1.18 327 P 04 37.02 0.4
 S 04 51.47
 LRG 1.19 268 Pg 04 36.00 -0.6
 Sg 04 51.30
 PGF 1.22 142 Pn 04 37.40 0.2
 Sn 04 52.50
 BHB 1.43 339 P 04 39.89 -0.6
 S 04 57.12
 CDR 1.62 277 eP 04 44.50 1.3
 e 05 03.70
 RRL 1.65 329 P 04 45.01 1.2
 LPL 2.20 336 Pg 04 54.40 2.7X
 S.D. = 0.7 on 14 of 15 obs.

NOV 14, 1990 06h 16m 04.82±1.34s
 41.535 N ± 10.8km 23.490 E ± 5.6km
 DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

ML 2.5 (SKO).

SRS 0.42 170 iPc 16 13.80 0.3
 eS 16 20.68
 KNT 0.58 230 iPc 16 16.12 -0.5
 iS 16 24.40
 SOH 0.72 188 iPc 16 18.93 -0.1
 eS 16 30.77
 VAY 0.72 253 iPg 16 19.70 0.7
 i 16 29.40
 iSg 16 32.30
 THE 0.99 204 ePc 16 23.32 -0.2
 eS 16 37.72
 GRG 1.00 235 ePd 16 23.96 0.1
 eS 16 38.04
 OUR 1.26 163 ePd 16 28.88 0.7

PAIG 1.61 175 eS 16 44.82
 ePc 16 33.04 -0.3
 eS 16 55.80
 LIT 1.62 208 ePd 16 32.84 -0.7
 iS 16 55.46
 ALN 2.03 107 ePd 16 39.20 -0.2
 S.D. = 0.5 on 10 of 10 obs.

NOV 14, 1990 07h 44m 55.72±0.36s
 7.616 N ± 8.8km 36.026 W ± 6.0km
 DEPTH = 10.0km (geophysicist)
 5.0mb (16 obs.) 4.5msz (4 obs.)
 CENTRAL MID-ATLANTIC RIDGE (406)

MBO 19.88 69 iPd 49 31.90 1.6
 PDCR 20.25 189 eP 49 23.50 -10.7X
 e 49 34.10
 LKO 30.15 84 Pc 51 04.18 -4.3X
 0.2s 16.50nm 5.6mb
 KIC 31.07 90 P 51 11.40 -5.1X
 SIV 34.13 227 iPc 51 42.00 -1.2
 CCH 38.77 230 P 52 22.50 -0.2
 ZOBO 39.65 233 P 52 31.00 0.5
 S 58 44.00
 LPB 39.78 233 P 52 31.60 0.3
 Z 16s 1.35um 4.9mszX
 LR 04 36.00
 CAF 49.69 35 eP 53 50.60 0.7
 FRF 51.67 39 eP 54 04.90 0.0
 1.0s 8.00nm 4.6mb
 SSF 51.77 34 eP 54 06.00 0.3
 LBF 51.99 34 eP 54 07.70 0.4
 LOR 52.09 34 eP 54 08.20 0.1
 1.1s 22.00nm 5.0mb
 Z 21s 0.47um 4.5msz
 SBF 52.31 39 eP 54 10.10 0.2
 1.0s 24.00nm 5.1mb
 PGF 52.67 41 eP 54 12.40 -0.2
 1.0s 16.00nm 4.9mb
 HAU 53.89 34 eP 54 21.50 0.1
 0.9s 16.40nm 5.0mb
 Z 21s 0.45um 4.5msz
 BSF 54.04 34 eP 54 22.60 0.0
 0.9s 13.10nm 5.0mb
 CDF 54.63 34 eP 54 26.60 -0.4
 1.1s 14.65nm 4.9mb
 PWLA 54.84 308 eP 54 28.30 -0.3
 CTI 55.99 38 P 54 36.00 -0.9
 SOTA 56.28 37 iPc 54 37.80 -1.2
 1.0s 17.90nm 5.1mb
 ELC 56.43 310 e(P) 54 39.80 -0.2
 FVI 56.94 38 P 54 43.00 -0.5
 GRF 57.51 34 eP 54 47.50 0.0
 Z 21s 0.20um 4.2msz
 e 58 50.00
 e 02 53.00
 FVM 57.54 310 eP 54 47.40 -0.5
 OLY 57.66 307 eP 54 47.80 -1.0
 MOX 58.21 34 eP 54 52.00 -0.4
 KHC 58.58 36 P 54 54.50 -0.6
 PTJ 58.63 40 eP 54 55.20 -0.3
 PRU 59.54 35 P 55 01.40 -0.2
 BRG 59.61 34 eP 55 02.40 0.3
 1.3s 18.00nm 5.0mb
 ZST 60.28 38 eP 55 06.40 -0.3
 SRO 60.87 39 i(P) 55 10.60 -0.2
 KSP 60.92 35 eP 55 11.00 -0.1
 KRA 62.72 37 iPd 55 23.50 0.3
 i 55 26.80
 e 55 40.50
 NB2 63.73 23 P 55 29.70 0.0
 1.2s 12.20nm 5.0mb
 HFS 64.23 25 eP 55 32.20 -0.8
 0.4s 1.00nm 4.4mb
 Z 18s 0.23um 4.4msz
 LR 15 17.00
 MLR 65.09 43 ePc 55 39.00 0.1
 NUR 69.23 27 eP 55 49.00 -15.6X
 ALO 69.65 304 eP 56 07.00 -1.0
 1.5s 13.89nm 4.9mb
 FFC 70.03 326 iPc 56 10.00 0.4
 1.0s 21.00nm 5.2mb
 DUG 75.04 309 ePd 56 41.40 1.6
 LRM 75.12 315 eP 56 41.40 1.1
 EDM 76.35 323 iPc 56 47.60 0.8
 YKA 78.01 332 eP 56 54.70 -1.0

0.8s 3.30nm 4.5mb
 TNP 78.42 307 iPd 56 59.60 0.8
 0.8s 7.35nm 4.8mb
 i 57 09.80
 MBC 81.06 346 eP 57 23.50 11.5X
 LBFM 81.92 311 eP 57 18.30 0.9
 INK 85.75 338 eP 57 37.00 1.0
 S.D. = 0.7 on 44 of 49 obs.

% NOV 14, 1990 09h 27m 05.54±1.35s
 39.038 N ±13.8km 22.065 E ±10.4km
 DEPTH = 33.0km (normol)
 GREECE (364)

AGG 0.21 94 iPc 27 12.28 0.0
 eS 27 19.72
 LIT 1.11 17 ePc 27 24.52 -0.3
 eS 27 42.16
 IGT 1.43 291 iPd 27 29.44 0.0
 FNA 1.82 343 ePc 27 35.04 -0.1
 eS 27 56.84
 GRG 1.93 8 iPd 27 37.14 0.4
 S.D. = 0.4 on 5 of 5 obs.

& NOV 14, 1990 09h 30m 01.15s
 63.111 N 150.389 W
 DEPTH = 101.8km
 CENTRAL ALASKA (1)
 <AGS-P>

TRF 0.34 8 iP 30 16.61 0.0
 eS 30 27.94
 HUR 0.37 111 eP 30 16.16 -0.4
 eS 30 27.22
 CUT 0.71 176 iP 30 18.82 -0.2
 iS 30 32.18
 RND 0.76 66 iP 30 19.17 -0.4
 eS 30 32.62
 MCK 0.90 46 eP 30 20.64 -0.4
 BWN 1.14 21 eP 30 23.26 -0.3
 SKT 1.25 205 iP 30 24.31 -0.6
 PWA 1.48 171 iP 30 27.75 0.1
 eS 30 46.90
 GH0 1.51 152 iP 30 28.10 0.0
 eS 30 49.05
 NEA 1.58 21 eP 30 28.19 -0.7
 PLRM 1.63 158 eP 30 29.36 -0.2
 PMR 1.63 158 iPd 30 29.80 0.3
 SUA 1.66 186 eP 30 29.91 -0.1
 eS 30 53.10
 NCG 1.90 207 eP 30 32.26 -0.9
 eS 30 57.31
 PMS 1.91 168 eP 30 33.81 0.6
 SCM 1.91 131 eP 30 33.80 0.5
 CCB 1.92 35 eP 30 32.23 -1.0
 KNK 1.93 151 eP 30 33.00 -0.4
 CGLM 1.96 203 eP 30 33.24 -0.7
 HDA 2.01 48 eP 30 33.50 -0.9
 CRP 2.03 205 eP 30 34.13 -0.7
 BGL 2.08 208 eP 30 35.30 -0.1
 MDM 2.08 26 eP 30 34.69 -0.7
 SPU 2.09 203 eP 30 34.65 -0.9
 CKL 2.13 206 eP 30 36.16 0.1
 FBA 2.13 31 iPc 30 35.30 -0.7
 TOA 2.20 116 iPd 30 38.50 1.6
 PAX 2.25 91 eP 30 37.39 -0.3
 eS 31 04.60
 SDG 2.30 103 eP 30 38.07 -0.2
 TTA 2.57 268 iPd 30 41.30 -0.7
 SLKM 2.61 178 eP 30 42.46 0.0
 KLU 2.64 126 eP 30 42.21 -0.8
 RDT 2.72 201 eP 30 44.47 0.5
 GLI 2.73 144 eP 30 44.12 0.1
 RDN 2.84 204 eP 30 46.10 0.5
 KNIM 3.05 154 eP 30 45.83 -2.5

36 obs. associated

NOV 14, 1990 09h 45m 17.24±0.45s
 46.050 N ±9.8km 150.944 E ±7.3km
 DEPTH = 33.0km (normol)
 4.9mb (33 obs.)
 KURIL ISLANDS (221)

MAT 13.47 230 (P) 48 28.00 -0.4
 0.9s 11.76nm 4.8mb
 MDJ 15.08 272 eP 48 55.00 5.5X
 CN2 18.17 272 eP 49 30.40 1.9

SNY 20.11 268 eP 49 52.00 1.2
 BJI 25.97 269 eP 50 50.50 2.2
 1.5s 26.00nm 4.6mb
 TTA 33.94 41 iPc 52 00.20 1.1
 0.6s 7.00nm 4.8mb
 XAN 33.96 264 P 52 01.00 1.4
 IMA 35.25 36 iPc 52 11.20 0.7
 0.7s 4.70nm 4.5mb
 BRW 35.25 26 iPc 52 11.10 0.9
 GTA 37.59 279 eP 52 31.80 1.4
 1.0s 10.00nm 4.6mb
 FBA 37.64 38 iPd 52 31.70 1.3
 0.7s 25.30nm 5.2mb
 TOA 38.50 42 iPc 52 39.70 2.0
 0.4s 5.10nm 4.7mb
 CD2 39.32 264 eP 52 45.50 0.6
 INK 43.04 32 ePd 53 16.00 1.1
 MBC 45.76 20 eP 53 37.00 0.3
 0.5s 2.00nm 4.3mb
 LSA 48.81 272 eP 54 02.60 0.9
 CHG 50.49 255 eP 54 14.90 0.8
 YKA 52.38 36 eP 54 27.80 -0.1
 0.6s 6.00nm 4.7mb
 GUN 53.56 274 P 54 36.62 -0.9
 KKN 54.05 274 P 54 41.06 0.1
 0.6s 48.00nm 5.7mb
 PKI 54.10 274 P 54 40.76 -0.7
 0.5s 20.00nm 5.4mb
 DMN 54.28 274 P 54 42.60 -0.1
 0.6s 32.00nm 5.5mb
 GKN 54.37 275 P 54 42.60 -0.6
 PNT 56.83 51 eP 55 02.00 1.4
 TNP 64.97 61 P 55 56.50 0.4
 WB5 67.32 197 eP 56 10.50 -0.4
 WRA 67.38 197 P 56 10.00 -1.3
 0.6s 7.20nm 4.9mb
 NB2 68.39 340 P 56 15.60 -1.7
 0.6s 7.00nm 4.9mb
 HFS 68.57 339 eP 56 15.60 -2.7
 0.5s 8.30nm 5.1mb
 GBA 68.90 268 P 56 20.00 -0.9
 ALQ 73.48 57 eP 56 48.00 -0.5
 EKA 76.65 345 P 57 06.00 0.0
 0.5s 2.10nm 4.4mb
 CDF 80.72 336 eP 57 28.00 -0.3
 0.7s 5.50nm 4.7mb
 HAU 81.34 337 eP 57 30.10 -1.4
 BSF 81.38 336 eP 57 30.80 -1.0
 0.8s 5.35nm 4.6mb
 FLN 82.34 341 eP 57 36.90 0.3
 0.5s 8.75nm 5.1mb
 LDF 82.42 341 eP 57 36.40 -0.7
 LOR 82.69 338 eP 57 37.90 -0.6
 0.6s 6.30nm 4.9mb
 Z 22s 0.08um 4.0msz
 GRR 82.77 341 eP 57 38.90 0.0
 0.5s 8.75nm 5.1mb
 LBF 82.92 338 eP 57 38.90 -0.9
 0.6s 5.40nm 4.8mb
 SSF 82.97 338 eP 57 39.40 -0.6
 0.6s 4.50nm 4.7mb
 LPF 83.15 341 eP 57 40.80 -0.1
 0.5s 7.30nm 5.0mb
 AVF 83.26 338 eP 57 41.40 -0.1
 0.5s 4.35nm 4.8mb
 SMF 83.27 338 eP 57 41.00 -0.5
 0.8s 12.10nm 5.1mb
 LPL 83.51 336 eP 57 43.30 0.2
 0.9s 9.85nm 4.9mb
 LPG 83.52 336 eP 57 43.60 0.4
 0.9s 9.85nm 4.9mb
 BGF 83.61 338 eP 57 43.20 -0.1
 MAF 83.99 339 eP 57 45.70 0.5
 0.9s 18.00nm 5.2mb
 TCF 84.02 339 eP 57 45.10 -0.3
 0.8s 9.40nm 5.0mb
 MFF 84.30 340 eP 57 45.90 -0.8
 0.5s 9.50nm 5.2mb
 SBF 84.81 334 eP 57 48.30 -1.1
 0.8s 10.75nm 5.1mb
 RJF 85.11 339 eP 57 51.40 0.6
 CAF 85.33 338 eP 57 52.40 0.4
 LMR 85.57 335 eP 57 53.00 -0.1
 0.8s 5.35nm 4.8mb
 LFF 85.65 339 eP 57 52.40 -1.1
 LPO 85.77 339 eP 57 52.80 -1.4
 PDCR 145.52 18 ePKP 04 52.70 -1.0

S.D. = 1.0 on 56 of 57 obs.

% NOV 14, 1990 09h 53m 23.82±1.22s
 39.098 N ±7.8km 27.647 E ±15.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.76 203 iPg 53 38.60 -0.1
 eSg 53 53.10
 EZN 1.25 306 iPn 53 47.30 0.2
 EDC 1.26 8 ePn 53 47.00 -0.2
 BNT 1.27 9 iPn 53 48.00 0.5
 KGT 1.38 349 iPn 53 48.10 -0.9
 S.D. = 0.8 on 5 of 5 obs.

% NOV 14, 1990 10h 34m 49.53±0.96s
 39.153 N ±7.3km 27.593 E ±11.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.80 199 ePg 35 05.00 0.0
 eSg 35 16.10
 EZN 1.19 305 ePn 35 11.80 0.1
 EDC 1.21 10 ePn 35 12.00 -0.1
 BNT 1.23 12 iPn 35 12.00 -0.4
 KCT 1.24 28 iPn 35 13.00 0.4
 S.D. = 0.4 on 5 of 5 obs.

? NOV 14, 1990 10h 44m 37.12±14.23s
 43.396 N ±80.9km 8.025 E ±51.6km
 DEPTH = 10.0km (geophysicist)
 CORSICA (380)

IMI 0.52 349 P 44 47.75 0.0
 ROB 0.91 353 P 44 54.51 0.0
 S 45 03.84
 ENR 0.94 332 P 44 55.02 -0.1
 S 45 04.45
 STV 0.99 329 P 44 55.53 -0.4
 S 45 05.89
 PZZ 1.29 329 P 45 01.65 0.5
 S 45 16.24
 S.D. = 0.4 on 5 of 5 obs.

* NOV 14, 1990 12h 15m 00.66±1.05s
 35.368 N ±11.5km 26.712 E ±6.5km
 DEPTH = 28.4 ±7.8 km
 4.4mb (1 obs.)
 CRETE (370)
 MD 4.1 (ATH).

KAP 0.42 64 ePg 15 07.30 -2.4
 NPS 0.91 264 ePg 15 17.20 -0.2
 ARG 1.43 53 ePg 15 25.40 0.6
 APE 1.95 331 ePb 15 30.40 -2.0
 VAM 2.05 272 ePg 15 37.70 3.8X
 SMG 2.34 2 ePg 15 40.70 2.8X
 KSL 2.45 71 ePb 15 41.80 2.2X
 ELL 2.93 61 iPn 15 48.00 1.5
 IZM 3.06 8 ePn 15 49.10 0.9
 VLI 3.34 295 ePn 15 51.10 -1.1
 KHL 3.71 37 iPn 15 57.10 -0.4
 BCK 3.76 55 ePn 16 00.00 1.8X
 EZN 4.46 356 ePn 16 05.40 -2.7
 ALT 4.57 35 eP 16 09.00 -0.8
 PPCY 4.64 94 eP 16 11.00 0.3
 AGG 5.05 317 ePd 16 18.18 1.7
 CSS 5.44 92 eP 16 22.00 0.1
 ALN 5.54 355 ePd 16 23.70 0.3
 LIT 5.79 326 ePc 16 28.94 2.1X
 KNT 6.52 334 ePc 16 38.66 1.6
 GRG 6.53 330 ePd 16 38.86 1.5
 FNA 6.85 324 ePc 16 41.02 -0.8
 EKA 28.62 324 Pc 21 01.50 5.1X
 1.2s 9.70nm 4.4mb
 MAT 84.24 49 (P) 27 48.00 17.1X
 WRA 115.36 97 PKP 33 41.00 -0.7
 1.2s 0.60nm
 S.D. = 1.5 on 18 of 25 obs.

* NOV 14, 1990 12h 22m 49.61±0.52s
 15.641 N ±7.6km 147.837 E ±10.5km
 DEPTH = 33.0km (normol)
 4.3mb (2 obs.)
 MARIANA ISLANDS REGION (215)

14d 12h

PJG 3.53 235 eP 23 43.80 0.4
 eS 24 26.00
 WB5 37.70 201 eP 30 04.00 0.0
 WRA 37.77 201 P 30 04.00 -0.6
 0.6s 3.40nm 4.4mb
 ASPA 41.37 200 eP 30 34.40 0.0
 0.8s 4.70nm 4.3mb
 CHTO 46.69 281 P 31 17.40 -0.1
 GUN 58.29 293 P 32 44.40 0.1
 PKI 58.72 293 P 32 46.80 -0.5
 KKN 58.83 293 P 32 48.10 0.2
 DMN 58.99 293 P 32 48.80 -0.2
 GKN 59.39 293 P 32 51.40 -0.3
 FBA 65.16 25 P 33 29.20 -0.2
 KIC 145.14 307 PKP 42 26.60 0.2
 0.8s 11.00nm
 TIC 145.17 307 PKP 42 26.70 0.3
 LIC 145.44 307 PKP 42 27.40 0.5
 S.D. = 0.3 on 14 of 14 obs.

* NOV 14, 1990 12h 25m 18.13±1.46s
 42.928 N ±10.8km 24.033 E ±17.3km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)

SRS 1.84 190 ePc 25 49.28 -0.7
 eS 26 12.24
 VAY 1.94 215 ePn 25 51.00 -0.4
 KNT 1.96 206 ePc 25 50.84 -0.9
 eS 26 15.96
 SOH 2.17 194 ePd 25 52.96 -1.8
 eS 26 22.76
 GRG 2.32 212 ePd 25 58.44 1.5
 eS 26 28.08
 THE 2.43 200 ePc 26 00.84 2.4
 ALN 2.52 143 ePc 25 59.92 0.1
 eS 26 32.00
 OUR 2.59 181 iPc 26 02.20 1.4
 BZS 3.20 328 ePc 26 09.50 0.1
 S.D. = 1.6 on 9 of 9 obs.

? NOV 14, 1990 12h 40m 50.05±3.74s
 35.192 N ±35.9km 26.745 E ±10.6km
 DEPTH = 10.0km (geophysicist)

CRETE (370)
 MD 3.9 (ATH).

KAP 0.50 44 ePg 40 59.90 -0.3
 NPS 0.93 275 ePg 41 00.00 -7.8X
 ARG 1.52 47 ePb 41 18.00 0.7
 VAM 2.09 277 ePb 41 30.70 5.1X
 APE 2.12 333 ePn 41 27.20 1.2
 SMG 2.51 2 ePg 41 37.30 5.8X
 CIN 2.64 24 eP 41 33.00 -0.3
 IZM 3.23 7 ePn 41 41.00 -0.8
 VLI 3.44 297 ePn 41 44.20 -0.6
 S.D. = 1.0 on 6 of 9 obs.

% NOV 14, 1990 13h 20m 09.22±0.96s
 40.457 N ±8.0km 23.518 E ±12.3km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

OUR 0.37 109 ePd 20 16.38 -0.5
 SOH 0.38 341 ePc 20 16.38 -0.7
 PAIG 0.54 167 ePd 20 20.54 0.3
 eS 20 30.34
 SRS 0.66 5 ePd 20 23.58 1.2
 KNT 0.85 326 ePc 20 25.34 -0.2
 eS 20 37.90
 S.D. = 1.1 on 5 of 5 obs.

? NOV 14, 1990 13h 24m 43.53±6.46s
 16.825 N ±28.5km 60.880 W ±53.0km
 DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
 ML 3.3 (FDF).

DEG 0.54 199 ePd 24 54.18 -0.6
 S 25 03.70
 SFG 0.64 208 eP 24 56.50 0.3
 SEG 0.73 235 ePd 24 56.87 -0.5
 BPA 0.96 283 eP 25 00.70 0.0
 MGG 0.99 205 ePd 25 01.39 0.2
 DOG 1.06 222 eP 25 02.60 0.5
 S.D. = 0.6 on 6 of 6 obs.

* NOV 14, 1990 13h 43m 01.57±0.62s
 15.754 N ±7.8km 147.807 E ±11.6km
 DEPTH = 33.0km (normal)
 4.4mb (3 obs.)

MARIANA ISLANDS REGION (215)

PJG 3.57 233 eP 43 56.20 0.2
 eS 44 38.50
 MAT 22.40 339 eP 48 00.00 1.4
 WB5 37.80 201 eP 50 17.50 0.8
 WRA 37.86 201 P 50 25.00 7.7X
 0.9s 5.00nm 4.4mb
 XAN 39.40 305 eP 50 30.00 -0.2
 GYA 39.68 293 P 50 33.80 1.1
 ASPA 41.47 199 eP 50 47.30 0.1
 1.0s 4.30nm 4.1mb
 LZH 43.97 306 eP 51 08.00 0.3
 2.5s 53.00nm 4.9mb
 CHTO 46.64 281 P 51 28.80 -0.2
 GTA 47.94 309 P 51 39.20 0.0
 GUN 58.22 293 P 52 55.60 -0.1
 PKI 58.65 293 P 52 58.20 -0.5
 KKN 58.75 293 P 52 59.00 -0.3
 DMN 58.92 293 P 52 59.80 -0.7
 GKN 59.31 293 P 53 02.60 -0.5
 KIC 145.04 307 PKP 02 37.40 -0.8
 TIC 145.08 308 PKP 02 37.60 -0.6
 LIC 145.35 307 PKP 02 38.40 -0.3
 ZOBO 145.49 96 ePKP 02 40.00 0.5
 S.D. = 0.7 on 18 of 19 obs.

% NOV 14, 1990 13h 55m 38.97±0.88s
 39.119 N ±6.4km 27.542 E ±10.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.75 197 ePg 55 53.70 0.0
 EZN 1.18 307 ePn 56 01.00 0.1
 EDC 1.25 11 ePn 56 02.00 -0.2
 BNT 1.27 13 iPn 56 02.90 0.4
 KCT 1.29 29 ePn 56 02.90 0.0
 KGT 1.34 352 iPn 56 03.50 -0.2
 S.D. = 0.3 on 6 of 6 obs.

% NOV 14, 1990 14h 23m 41.05±0.85s
 40.340 N ±11.2km 27.354 E ±5.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 1.9 (ISK).
 KGT 0.12 341 iPg 23 44.00 0.0
 EDC 0.39 89 ePg 23 49.70 0.7
 eSg 23 55.50
 BNT 0.43 88 iPg 23 49.40 -0.5
 iSg 23 55.90
 KCT 0.77 96 iPg 23 55.90 -0.2
 EZN 0.94 237 ePn 23 59.00 0.0
 S.D. = 0.6 on 5 of 5 obs.

NOV 14, 1990 14h 43m 37.44±0.19s
 46.105 N ±3.9km 138.527 E ±3.9km
 DEPTH = 25.1km (4 depth phases)
 4.8mb (35 obs.) 4.2MsZ (2 obs.)
 NEAR E. COAST OF EASTERN USSR (661)

ASAJ 3.53 123 P 44 33.80 1.9
 MDJ 6.47 260 ePn 45 10.00 -3.5X
 0.6s 40.00nm 5.5mb
 Pg 45 37.90
 Sg 47 04.50
 OFUJ 7.39 161 eP 45 24.20 -2.2
 YAMJ 8.00 171 eP 45 36.10 1.1
 CN2 9.56 261 eP 46 01.60 5.2X
 ePp 46 04.50
 MAT 9.56 182 iPc 45 57.80 1.3
 0.8s 13.43nm 5.3mb
 eS 47 52.00
 IIDJ 10.62 183 eP 46 13.10 1.9
 BJI 17.39 258 eP 47 43.00 3.2X
 1.0s 54.00nm 4.6mb
 Z 13s 2.37um 4.2MsZ
 TIA 18.85 246 eP 47 58.90 1.0
 Z 14s 2.10um
 E 11s 1.60um
 SSE 20.14 228 P 48 14.20 1.9
 0.9s 12.00nm 4.2mb
 Z 12s 1.10um 4.4MsZ

N 11s 0.80um
 E 11s 0.40um
 HHC 20.21 265 P 48 14.60 1.4
 Z 10s 3.70um 5.0MsZ
 N 11s 1.10um
 NJ2 20.66 234 Pc 48 17.00 -0.8
 Z 13s 0.70um 4.2MsZ
 N 12s 1.30um
 TIY 21.08 256 eP 48 22.50 0.4
 Z 15s 1.20um 4.4MsZ
 BTO 21.39 265 eP 48 26.00 0.8
 N 10s 1.10um
 E 10s 1.80um
 eS 52 14.00
 WHN 24.38 239 eP 48 54.50 -0.1
 LZH 27.79 261 eP 49 26.00 -0.5
 2.0s 32.00nm 4.7mb
 Z 12s 1.10um 4.7MsZ
 N 10s 0.70um
 E 10s 0.70um
 sP 49 38.50
 GTA 28.98 271 iPc 49 37.40 0.3
 0.6s 10.00nm 4.7mb
 Z 10s 1.30um 4.8MsZ
 E 10s 1.00um
 WMO 35.54 285 P 50 37.20 2.9X
 Z 12s 1.40um 4.9MsZ
 N 10s 1.20um
 E 11s 2.20um
 BRW 39.13 28 iPc 51 05.00 1.0
 TTA 39.57 41 P 51 07.40 -0.5
 1.1s 23.44nm 4.8mb
 pP 51 15.20 26km
 IMA 40.27 36 P 51 13.40 -0.2
 0.8s 8.62nm 4.5mb
 pP 51 20.60 24km
 FBA 42.86 37 P 51 34.80 0.1
 0.9s 29.17nm 5.0mb
 pP 51 42.10 24km
 PMR 42.97 42 P 51 35.30 -0.3
 0.9s 23.96nm 4.9mb
 GUN 44.93 265 P 51 51.86 -0.5
 0.6s 15.00nm 5.1mb
 KKN 45.42 265 P 51 55.60 -0.5
 0.7s 24.00nm 5.2mb
 PKI 45.46 265 P 51 55.88 -0.7
 DMN 45.65 265 P 51 57.54 -0.4
 GKN 45.73 266 P 51 57.82 -0.7
 0.7s 19.00nm 5.1mb
 INK 47.47 30 ePc 52 11.70 0.2
 MBC 48.51 18 eP 52 20.50 1.0
 1.2s 11.00nm 4.8mb
 SOD 55.81 334 iP 53 14.60 0.3
 QUE 56.65 280 eP 53 20.20 -0.9
 YKA 57.15 32 eP 53 25.20 1.3
 1.1s 4.70nm 4.4mb
 SUF 58.97 330 iP 53 36.40 -0.3
 0.4s 2.70nm 4.7mb
 GBA 60.34 258 Pc 53 44.80 -1.8
 0.8s 6.30nm 4.8mb
 NUR 61.00 329 eP 53 57.00 6.5X
 PNT 63.28 46 eP 54 05.00 -1.0
 0.7s 6.00nm 4.8mb
 HFS 64.98 333 eP 54 16.00 -0.9
 0.4s 2.00nm 4.6mb
 Z 16s 0.16um 4.3MsZ
 LR 19 50.00
 NB2 65.03 335 P 54 16.60 -0.7
 1.0s 12.50nm 5.0mb
 NEW 65.22 45 P 54 17.40 -1.3
 pP 54 25.40 26km
 WB5 65.78 184 eP 54 20.10 -2.2
 WRA 65.84 184 P 54 20.00 -2.8
 1.1s 1.70nm 4.1mb
 FFC 67.27 33 eP 54 30.00 -1.6
 1.0s 22.00nm 5.2mb
 LBFM 67.33 54 P 54 32.50 0.0
 LRM 69.22 45 ePc 54 44.00 -0.2
 ASPA 69.56 185 iPc 54 44.90 -1.2
 1.1s 9.50nm 4.8mb
 CMB 70.43 55 P 54 52.00 0.6
 1.2s 18.52nm 5.1mb
 KRA 70.46 323 iPd 54 52.00 0.7
 TNP 72.18 53 P 55 01.70 -0.5
 BRG 72.21 327 e(P) 55 01.60 -0.2
 CLL 72.22 328 iPc 55 01.80 0.0
 PRU 72.69 326 eP 55 05.40 0.7

ISA	73.18	56	eP	55 07.00	-0.9
CLC	73.57	55	eP	55 10.00	-0.1
KHC	73.75	326	P	55 12.00	1.1
SBB	74.24	56	eP	55 15.00	1.0
GSC	74.39	55	eP	55 15.00	0.1
MWC	74.43	57	eP	55 16.00	0.7
TPC	75.68	56	eP	55 22.00	-0.3
PLM	75.75	57	eP	55 23.00	0.1
BAR	76.35	57	eP	55 26.00	0.0
CDF	76.71	329	eP	55 28.00	0.2
HAU	77.38	329	eP	55 31.40	-0.1
Z 0.8s 5.35nm 4.6mb					
Z 20s 0.13um 4.2msz					
LOR	78.88	330	eP	55 39.40	-0.3
Z 0.8s 9.40nm 4.9mb					
Z 20s 0.13um 4.2msz					
LBF	79.09	330	eP	55 40.70	-0.2
SSF	79.18	331	eP	55 41.30	-0.1
Z 0.8s 4.05nm 4.5mb					
LPL	79.36	328	eP	55 43.20	0.6
Z 0.8s 6.70nm 4.7mb					
LPG	79.36	328	eP	55 43.30	0.5
Z 0.8s 6.70nm 4.7mb					
SMF	79.43	330	eP	55 42.60	-0.1
Z 0.9s 14.75nm 5.0mb					
GRR	79.43	334	eP	55 42.80	0.1
AVF	79.47	330	eP	55 43.10	0.2
Z 0.8s 10.75nm 4.9mb					
LPF	79.81	334	eP	55 45.10	0.4
Z 0.6s 7.20nm 4.9mb					
MAF	80.23	331	eP	55 47.70	0.7
Z 0.7s 13.25nm 5.1mb					
TCF	80.29	331	eP	55 47.50	0.1
ALO	80.34	49	eP	55 48.50	0.4
Z 1.0s 3.75nm 4.4mb					
LSF	80.56	331	eP	55 48.90	0.1
MFF	80.79	333	eP	55 50.60	0.6
Z 0.7s 11.00nm 5.0mb					
ZOBO	142.87	46	PKP	03 11.00	-0.3
LPB	143.10	46	(PKP)	03 06.00	-5.5X
CNCB	143.40	46	PKP	03 13.50	1.3
SIV	145.80	35	PKP	03 15.60	0.0
PDCR	146.48	356	ePKP	03 16.40	-0.3
e 03 25.00					

S.D. = 0.9 on 76 of 82 obs.

& NOV 14, 1990 14h 51m 32.58s
61.703 N 149.666 W
DEPTH = 45.5km
SOUTHERN ALASKA (2)
<AGS-P>. Felt (III) at Palmer.

PWA	0.11	243	iP	51 39.92	1.7
PLRM	0.28	113	iP	51 40.57	-0.5
eS 51 47.73					
PMR	0.28	113	iPd	51 40.60	-0.5
GHO	0.36	79	iP	51 41.55	-0.5
eS 51 49.71					
PMS	0.46	174	eP	51 42.99	-0.2
SUA	0.57	245	eP	51 44.21	-0.4
eS 51 53.94					
SML	0.64	80	eP	51 44.89	-0.6
KNK	0.65	116	iP	51 44.94	-0.7
eS 51 55.41					
CUT	0.76	338	iP	51 46.21	-0.8
SKT	0.93	288	iP	51 48.32	-1.1
eS 52 00.89					
SCM	1.12	82	iP	51 51.20	-1.0
eS 52 06.33					
CGLM	1.19	252	iP	51 52.67	-0.5
eS 52 08.90					
NKA	1.23	219	eP	51 54.49	0.9
SLKM	1.23	193	eP	51 52.26	-1.4
eS 52 08.40					
NCG	1.23	257	eP	51 53.07	-0.7
eS 52 09.94					
SPU	1.26	247	iP	51 53.34	-0.8
eS 52 10.47					
CRP	1.27	251	eP	51 53.63	-0.8
HUR	1.28	1	eP	51 53.75	-0.6
eS 52 10.31					
BGL	1.38	253	eP	51 55.16	-0.7
eS 52 13.99					
CKL	1.38	250	iP	51 55.00	-0.9
GLI	1.49	123	iP	51 55.80	-1.5
eS 52 15.10					
SEW	1.61	176	eP	51 57.06	-1.9

VZW	1.63	112	eP	52 16.24	eS
KNIM	1.65	144	iP	51 57.79	-1.6
TOA	1.70	75	eP	51 57.11	-2.5
VLZ	1.70	108	iP	51 59.84	-0.5
RDT	1.75	231	eP	51 58.53	-1.7
eS 51 59.58					
eS 52 21.45					
RND	1.75	12	eP	51 59.91	-1.2
KLU	1.80	95	iP	52 00.21	-1.6
NNL	1.85	206	eP	52 02.38	0.0
LT1	1.89	151	eP	52 00.38	-2.6
REF	1.91	232	eP	52 02.11	-1.4
eS 52 26.89					
RDN	1.92	233	eP	52 01.95	-1.6
eS 52 26.37					
RSO	1.95	232	eP	52 02.70	-1.3
RS2	1.95	232	eP	52 02.73	-1.3
NCT	1.95	236	eP	52 02.56	-1.4
TZL	2.04	78	eP	52 04.50	-0.6
SDG	2.11	65	eP	52 05.64	-0.4
HOM	2.27	206	eP	52 08.12	-0.2
CNPM	2.32	200	eP	52 08.88	-0.2
PAX	2.34	55	eP	52 08.84	-0.5
INE	2.34	227	eP	52 07.38	-2.1
INW	2.36	227	eP	52 08.02	-1.7
IVS	2.38	226	eP	52 08.98	-1.2
BWN	2.48	2	eP	52 09.93	-1.5
OPT	2.70	222	eP	52 13.80	-0.8
DDM	2.73	38	eP	52 15.06	0.1
GLB	2.81	93	eP	52 13.84	-2.4
WRH	2.87	14	eP	52 15.14	-1.8
PDB	2.94	231	eP	52 15.30	-2.6
CCB	3.07	15	eP	52 17.47	-2.4
TTA	3.21	295	eP	52 19.10	-2.7
DOT	3.24	50	eP	52 21.60	-0.6
FBA	3.32	14	eP	52 19.50	-3.8
MDM	3.33	11	eP	52 21.23	-2.3
TGL	3.44	103	eP	52 22.41	-2.7
GLM	3.45	16	eP	52 23.57	-1.7
BALM	3.59	98	eP	52 24.06	-3.1
KDC	4.22	201	eP	52 39.50	3.5
IMA	4.73	340	eP	52 39.80	-3.5
DWY	5.24	59	P	52 52.00	1.6

61 obs. associated

% NOV 14, 1990 15h 00m 37.29 ± 1.04s
60.561 N ± 6.2km 4.971 E ± 12.1km
DEPTH = 5.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.4 (BER).

ASK	0.14	125	eP	00 40.43	0.3
eS 00 42.26					
BER	0.25	135	iPc	00 42.48	0.1
eS 00 45.96					
SUE	0.51	348	eP	00 47.86	0.4
eS 00 55.22					
HYA	0.85	44	iPd	00 53.52	-0.6
eS 01 06.09					
KMY	1.36	174	eP	01 02.26	-0.6
eSg 01 19.98					
BLS2	1.61	141	eP	01 06.85	0.3
eSg 01 27.04					

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

* NOV 14, 1990 15h 31m 22.66 ± 1.46s
14.846 N ± 5.0km 60.260 W ± 15.5km
DEPTH = 29.6 ± 5.7 km
WINDWARD ISLANDS (95)
MD 4.0 (TRN). ML 3.6 (FDF).

CRM	0.64	262	iPd	31 35.19	-0.1
MVM	0.68	245	iPd	31 36.03	0.0
BIM	0.85	247	iPd	31 38.53	0.0
FDF	0.87	263	iPd	31 38.61	-0.2
0.1s 5.90nm					
S 31 52.70					
MDN	1.20	293	eP	31 42.82	-0.6
SLB	1.27	217	eP	31 43.65	-0.8
eS 32 01.45					
BBL	1.35	300	eP	31 45.52	-0.2
S 32 03.10					
MGG	1.47	316	ePd	31 46.23	-1.2
S 32 07.30					
DEG	1.65	332	ePd	31 48.22	-1.8
DOG	1.76	312	ePd	31 50.61	-1.0
SVV	1.78	212	eP	31 51.07	-0.8

SVB	1.84	212	eP	32 13.66	eS
eS 31 51.37					
eS 32 14.50					
SEG	1.96	322	eP	31 53.72	-0.7
S 32 20.50					
BPA	2.67	325	eP	32 06.00	1.4
eS 32 46.00					
GRW	3.00	207	eP	32 10.04	0.7
eS 32 47.82					
SKI	3.43	316	eP	32 17.42	1.9
TRN	4.32	195	eP	32 28.50	0.5

S.D. = 1.1 on 17 of 17 obs.

* NOV 14, 1990 15h 37m 52.52 ± 0.59s
46.160 N ± 10.2km 138.376 E ± 10.0km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)
NEAR E. COAST OF EASTERN USSR (661)

ASAJ	3.64	123	eP	38 49.00	1.1
CN2	9.46	260	eP	40 17.00	7.5X
MAT	9.61	181	eP	40 12.00	0.4
SNY	11.50	253	eP	40 45.00	7.6X
Z 11s 0.90um					
BJI	17.30	257	eP	41 59.00	6.0X
1.0s 18.00nm 4.2mb					
GTA	28.88	270	eP	43 51.60	1.4
FBA	42.88	37	P	45 49.20	0.3
GUN	44.83	265	P	46 04.76	-0.8
KKN	45.32	265	P	46 09.80	0.5
PKI	45.36	265	P	46 10.20	0.4
DMN	45.55	265	P	46 11.86	0.7
GKN	45.63	266	P	46 12.24	0.5
INK	47.47	30	eP	46 26.00	0.5
SUF	58.87	330	eP	47 50.00	0.0
HFS	64.88	333	eP	48 28.40	-1.8
0.4s 0.90nm 4.2mb					
NB2	64.93	335	P	48 30.50	-0.1
0.8s 2.70nm 4.4mb					
WRA	65.89	184	P	48 34.00	-3.0
0.7s 0.60nm 3.8mb					

S.D. = 1.3 on 14 of 17 obs.

* NOV 14, 1990 16h 30m 59.04 ± 1.70s
12.251 N ± 12.5km 141.136 E ± 14.1km
DEPTH = 126.8 ± 19.2 km
5.4mb (4 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUMO	3.87	70	eP	31	58.20	0.3
PJG	3.87	70	eP	31	57.50	-0.4
GUA	3.90	70	eP	31	58.20	0.0
			eS	32	40.10	
WB5	32.62	192	eP	37	20.10	-0.7
ASPA	36.39	191	iPd	37	53.30	0.4
	0.5s		9.90nm			4.9mb
DZM	42.19	144	iPc	38	41.30	0.3
GUN	53.76	296	P	40	12.26	1.2
	0.5s		96.00nm			6.0mb
PKI	54.14	295	P	40	14.48	0.6
KKK	54.28	295	P	40	15.18	0.5
	0.5s		35.00nm			5.5mb
DMN	54.42	295	P	40	16.44	0.6
GKN	54.86	296	P	40	16.18	-2.7
	0.4s		21.00nm			5.4mb
YKA	85.70	27	eP	43	24.00	-0.6
	0.5s		1.20nm			4.1mb X
TNP	91.50	51	P	43	53.20	0.4
AFIF	92.18	295	eP	43	49.50	-6.5X
ZOBO	151.38	101	PKP	50	29.00	-5.5X
	0.9s		23.79nm			
			i	50	42.10	
CNCB	151.47	103	PKP	50	38.00	3.4X
			i	50	43.00	
S.D. = 1.1 on 13 of 16 obs.						

14d 16h

MJMA	9.68	262	eP	43	12.00	0.5	OLY	72.87	39	P	23	29.70	-1.1	DOU	140.09	37	PKP	31	24.80	-5.4X
OASM	11.18	265	eP	43	30.70	-1.4	SIV	73.00	101	P	23	32.20	0.1	WTS	140.24	33	ePKP	31	31.00	0.6
BCAO	42.40	244	ePc	48	52.50	7.7X	PNT	73.27	13	eP	23	33.00	0.0		1.2s	41.00nm				
	0.4s		4.00nm			4.5mb		0.8s		30.00nm			5.4mb	GKN	140.41	287	PKP	31	23.42	-8.3X
HFS	43.32	331	eP	48	52.70	1.0	RSSD	73.33	25	P	23	32.70	-1.0	ENN	140.46	35	ePKP	31	31.50	0.6
	0.4s		1.20nm			4.0mb	QIS	75.02	254	iPc	23	44.00	0.3		1.0s	24.00nm				
NB2	44.83	331	P	49	05.20	1.2	FVM	75.20	38	P	23	43.00	-1.3	MEM	140.59	35	PKP	31	33.70	2.6X
	0.6s		1.10nm			3.9mb	SES	76.39	18	eP	23	51.00	0.1	NPA	142.84	177	ePKP	31	34.30	-1.8
	S.D. = 1.4	on	6	of	8	obs.		1.4s		191.00nm			6.0mb	KOD	143.28	257	ePKP	31	35.40	-1.9
?	NOV 14, 1990	17h	47m	04.47±10.32s			RSCP	76.49	42	P	23	51.70	0.0	MOX	143.45	32	iPKP	31	33.00	-3.1X
	39.955 N ±38.1km		26.235 E ±92.7km				EDM	78.34	15	iPc	24	01.30	-0.3		1.8s	65.00nm				
	DEPTH = 10.0km		(geophysicist)				JSC	78.43	45	P	24	02.00	-0.4	CLL	143.67	30	iPKP	31	33.60	-2.9
TURKEY						(366)	LHS	78.85	46	P	24	04.40	-0.3		1.7s	45.00nm				
MD 2.9 (ISK).							ASPA	79.02	249	iPc	24	05.50	-0.6	BNI	143.77	43	PKP	31	35.50	-1.6
								1.3s		31.00nm			5.2mb	HOF	143.79	32	ePKP	31	33.80	-3.0
EZN	0.15	152	iPc	47	07.50	-0.4	PPD	79.74	110	eP	24	10.10	0.1	GRF	143.86	33	ePKPc	31	34.70	-2.2
			iSg	47	16.50		WB5	79.89	253	iPc	24	11.00	0.3		1.4s	102.00nm				
KGT	0.96	58	iPn	47	22.90	0.2	WRA	79.89	253	P	24	10.00	-0.8	LSD	143.88	42	PKP	31	33.49	-3.9X
EDC	1.31	72	ePn	47	30.00	1.3	KDC	80.52	353	P	24	13.50	0.4	RRL	143.90	43	PKP	31	35.33	-2.1
BNT	1.35	72	ePn	47	29.00	-0.3	BLA	80.74	44	P	24	14.40	-0.5	RSP	144.09	42	PKP	31	35.54	-2.0
	S.D. = 1.4	on	4	of	4	obs.		0.8s		16.78nm			5.1mb	BHB	144.24	43	PKP	31	35.23	-2.5
							ADK	80.93	337	P	24	15.00	-0.5	PZZ	144.29	43	PKP	31	35.95	-2.0
	NOV 14, 1990	18h	11m	58.03±0.18s			CLE	82.66	40	iP	24	24.80	0.0	ORX	144.31	41	PKP	31	35.44	-2.5
	22.258 S ± 5.5km		138.805 W ± 6.9km				FFC	82.91	21	eP	24	26.00	0.2	BRG	144.41	30	iPKPd	31	35.60	-2.1
	DEPTH = 0.0km		(geophysicist)					0.6s		9.00nm			5.2mb		1.4s	100.00nm				
	5.5mb (18 obs.)						PMR	83.97	355	iPc	24	31.00	0.1	GBA	144.54	262	PKPd	31	37.60	-1.4
TUAMOTU ARCHIPELAGO REGION						(631)		1.2s		128.90nm			6.0mb		1.3s	61.50nm				
PVC	49.70	265	iPc	20	48.70	-5.4X	SVW	84.18	352	iPc	24	31.70	-0.4	STV	144.55	44	PKP	31	35.95	-2.4
DZM	50.46	259	iPc	21	01.00	1.0	TOA	84.27	357	iPd	24	33.40	0.8	HYB	144.59	269	ePKP	31	39.00	-0.1
BAR	58.58	22	eP	22	01.00	1.9	BAO	84.94	105	ePc	24	37.90	0.9	ENR	144.62	44	PKP	31	36.36	-2.1
PLM	59.13	21	eP	22	04.00	0.9	BMA	85.69	113	e(P)	24	41.70	1.1	FUR	144.81	35	ePKP	31	37.50	-1.1
SYF	59.24	18	eP	22	04.00	0.2	TTA	85.99	352	iPc	24	41.70	0.5		1.5s	152.00nm				
PAS	59.43	20	eP	22	06.00	1.1	YKA	86.63	11	eP	24	43.20	-1.0	ROB	144.88	43	PKP	31	37.59	-1.3
PEC	59.52	21	P	22	05.00	-0.6		0.6s		22.50nm			5.5mb	IMI	145.07	44	PKP	31	37.59	-1.6
MWC	59.54	20	eP	22	06.00	0.1	JFO	86.77	112	e(P)	24	46.90	0.9	CKI	145.08	43	PKP	31	37.30	-1.8
RVR	59.54	21	eP	22	06.00	0.3	FBA	87.15	356	iPc	24	46.50	-0.2	FIN	145.13	43	PKP	31	38.10	-1.2
ABL	59.76	19	P	22	07.50	0.0		1.2s		244.32nm			6.3mb	PCP	145.19	43	PKP	31	38.00	-1.4
BCH	59.83	18	P	22	08.00	0.2	RSNY	88.61	40	P	24	53.00	-1.2	MDI	145.27	40	PKPc	31	38.20	-1.1
SBB	60.04	20	eP	22	09.00	-0.2		0.9s		27.88nm			5.5mb	PRU	145.29	31	iPKPc	31	38.90	-0.4
TPC	60.09	22	eP	22	10.00	0.5	IMA	88.77	354	iPc	24	54.50	-0.2		1.3s	146.20nm				
PRS	60.56	16	ePc	22	13.40	0.8		0.6s		3.39nm			4.8mb	Z 14s		1.50um			5.9Mszx	
PRI	60.56	17	ePc	22	13.80	1.0	MAW	88.97	188	e(P)	24	55.00	-0.6	N 14s		1.30um				
ISA	60.74	19	eP	22	14.00	0.1	INK	90.38	2	eP	25	01.00	-0.9	E 14s		1.30um				
GSC	60.93	21	eP	22	16.00	0.7	MAT	97.59	306	eP	25	37.00	1.3	SOTA	145.33	37	iPKPc	31	39.50	-0.1
LLA	60.94	16	ePc	22	16.00	0.8		1.5s		25.00nm			5.7mb		1.4s	114.00nm				
SAO	60.95	16	ePc	22	15.60	0.3	MBC	99.01	5	eP	25	41.00	-0.2	KHC	145.40	32	iPKPc	31	39.50	-0.1
GCC	61.06	15	ePc	22	16.60	0.6		1.5s		13.00nm			5.4mb		1.3s	90.50nm				
SBA	61.17	191	iPd	22	18.10	1.7	XAN	120.09	297	PKP	30	52.70	-0.1	Z 18s		1.00um			5.6Mszx	
PCC	61.42	15	ePc	22	18.50	0.1	CD2	124.01	293	ePKP	31	00.90	0.4	N 20s		1.20um				
MHC	61.45	16	ePc	22	19.70	0.9	LZH	124.44	299	PKPd	31	01.50	0.2	E 20s		0.50um				
ARN	61.48	16	P	22	19.00	0.1				sPKP	31	14.50					03	40.00		
FRI	61.62	17	ePc	22	20.00	0.2	BDT	125.63	276	ePKP	31	04.00	0.1	OGA	145.44	37	iPKPc	31	40.30	0.4
BRK	61.80	15	ePc	22	21.40	0.4	CHG	126.08	278	ePKP	31	05.80	1.0		1.5s	125.00nm				
BKS	61.81	15	ePc	22	21.80	0.7		1.0s		31.25nm				WATA	145.47	36	iPKPc	31	39.50	-0.4
	0.9s		58.00nm			5.8mb	GTA	127.72	303	PKPc	31	07.40	-0.1		1.7s	221.00nm				
RTCB	62.20	115	ePc	22	24.00	-0.1	SWZ	128.51	162	iPKPd	31	08.00	-1.4	KSP	145.48	28	iPKPc	31	39.50	-0.1
CMB	62.42	16	ePc	22	25.60	0.4		1.0s		30.00nm					1.0s	80.00nm				
			e	22	47.70		EVA	130.12	166	iPKPc	31	13.50	1.0				31	55.00		
CFA	62.65	115	ePd	22	26.30	-0.7		0.8s		14.93nm				BOB	145.64	42	PKP	31	40.20	0.0
TNP	63.36	19	P	22	31.40	-0.2	LIC	132.67	103	PKP	31	17.18	-0.2	KSH	145.83	308	PKP	31	42.50	1.8
ORV	63.58	15	ePc	22	33.00	0.2	TIC	132.85	102	PKP	31	17.38	-0.4	SAL	145.85	40	PKP	31	40.90	0.6
MIN	64.31	15	ePc	22	37.10	-0.7	KIC	132.98	103	PKP	31	17.88	-0.1	CTI	146.26	38	PKP	31	41.00	-0.2
WDC	64.32	14	iPc	22	37.70	0.1		0.8s		13.00nm				KMR	146.38	33	iPKPc	31	43.00	1.8
			e	23	06.60		LKO	133.45	98	PKP	31	17.68	-1.2	FVI	146.57	37	PKP	31	40.90	-0.6
ALO	64.64	29	ePc	22	40.00	-0.1		0.7s		10.50nm				KBA	146.59	35	iPKPd	31	42.00	0.2
	1.2s		35.16nm			5.5mb	SOD	133.97	8	ePKP	31	16.00	-2.3	MME	146.70	42	PKPc	31	43.80	1.7
LBFM	65.20	14	P	22	43.00	-0.6	NB2	136.02	21	PKP	31	22.50	0.1	BDI	146.70	42	PKP	31	43.00	1.1
RMO	65.32	250	eP	22	43.00	-1.5		1.4s		18.60nm				VVI	146.74	38	PKP	31	43.50	1.7
TOO	65.77	238	eP	22	48.00	0.7	BUL	136.10	163	iPKPd	31	22.80	-1.2	PII	146.83	43	PKP	31	42.50	0.5
LPB	66.42	99	P	22	53.90	1.7		1.0s		20.50nm				NDI	146.94	289	iPKPc	31	44.50	1.8
CNCB	66.44	99	iPc	22	54.00	1.5	WMO	136.17	311	PKP	31	23.00	-0.3		0.8s	82.00nm				
ZOBO	66.47	99	Pc	22	53.70	1.0	HFS	137.50	20	ePKP	31	23.90	-1.3	VKA	147.32	31	iPKPc	31	45.30	2.6X
CMS	66.69	244	eP	22	54.00	0.8		0.5s		1.30nm					1.5s	201.00nm				
DAU	67.42	22	P	22	58.70	0.7	SUF	138.29	10	ePKP	31	16.00	-10.6X	PGD	147.49	41	PKP	31	45.50	2.2
CCH	67.95	100	P	23	03.00	1.2	GUN	139.31	287	PKP	31	20.66	-9.3X	VOY	147.53	37	ePKP	31	43.70	0.5
MEQ	68.39	35	iPc	23	02.00	-1.7		0.8s		21.00nm							31	45.60		
GOL	69.09	27	P	23	07.80	-0.5	KRI	139.53	163	iPKPc	31	20.00	-10.4X	SFI	147.55	41	PKP	31</		

LJU	147.87	36	ePKPc	31	45.00	1.4	VC1	3.30	155	P	35	01.40	1.4	DMN	16.87	85	P	48	53.80	-5.3X
			i	31	47.00		ZOBO	21.82	148	P	39	01.00	-0.9		0.6s	374.00nm			5.7mb	
CEY	148.00	37	ePKPc	31	44.90	1.0	LPB	22.05	149	P	39	02.00	-2.1	KKN	17.01	84	P	48	55.20	-5.7X
			i	31	47.20		CNCB	22.34	149	P	39	08.00	0.9		0.5s	243.00nm			5.6mb	
RIY	148.22	37	iPKPc	31	47.40	3.3X	CCH	23.80	146	eP	39	23.00	1.9	PKI	17.14	85	P	48	56.86	-5.7X
SPC	148.41	27	ePKP	31	44.90	0.3	S.D. = 1.3 on 10 of 10 obs.								0.5s	162.00nm			5.4mb	
ARV	148.44	41	PKP	31	45.80	1.2	% NOV 14, 1990 18h 39m 23.54±1.14s							GBA	17.37	140	Pd	49	05.00	-0.1
ASS	148.50	42	PKP	31	47.00	2.2	60.717 N ±13.2km 3.721 E ± 9.0km								1.1s	95.10nm			4.8mb	
SRO	148.59	30	iPKP	31	45.60	0.9	DEPTH = 10.0km (geophysicist)							GUN	17.54	84	P	49	02.14	-5.4X
			e	52	54.60		NORTH SEA (534)							KER	17.68	298	eP	49	07.00	-2.0
VBY	148.60	36	i(PKP)	31	49.20	4.4X	MD 1.8 (BER).							RYD	17.71	266	eP	49	09.00	-0.4
PTJ	148.73	35	ePKP	31	46.10	1.0	OSG	0.47	242	eP	39	33.47	0.4	MJMA	18.66	270	iPd	49	19.30	-1.8
ZAG	148.80	35	ePKP	31	46.50	1.4	SUE	0.61	56	iP	39	35.40	-0.5	TAB	19.68	308	eP	49	32.00	-0.9
MNS	148.87	43	PKPc	31	49.00	3.6X				eS	39	40.94		QASM	20.19	271	eP	49	38.30	0.1
BUD	149.16	30	ePKP	31	50.00	4.4X	ASK	0.76	107	eP	39	39.70	1.3	KOD	20.19	146	eP	49	39.30	0.7
RMP	149.18	44	PKP	31	50.00	4.2X				eS	39	50.16					eS	53	28.00	
POO	149.20	269	iPKPc	31	50.80	4.2X	HYA	1.29	68	eP	39	47.29	0.0	AFIF	20.89	266	P	49	50.00	4.4X
RDP	149.22	44	PKP	31	50.90	4.9X	KMY	1.69	152	iP	39	52.14	-1.1	KMSA	20.94	255	iPd	49	46.00	-0.1
PSZ	149.23	29	e(PKP)	31	46.00	0.2				iSg	40	19.89		UOSK	21.28	271	iPd	49	50.70	1.2
SDI	149.95	43	PKPd	31	51.60	4.5X	BLS2	2.15	130	eP	40	04.09	4.0X	LSA	22.11	78	iPc	49	59.60	1.4
DUI	150.38	43	PKP	31	54.00	6.3X				eSg	40	32.78					PcS	57	33.00	
SGO	151.51	44	PKP	31	55.50	6.2X	S.D. = 1.3 on 5 of 6 obs.							WMO	23.88	41	iPc	50	16.20	1.3
BZS	151.75	30	ePKP	31	50.00	0.5									3.0s	4000.00nm			6.4mb X	
			e	52	33.00		? NOV 14, 1990 18h 42m 28.47±2.09s								Z 15s	9.80um			5.4mszX	
BEO	151.78	32	ePKP	31	50.00	0.4	5.818 S ±16.0km 149.423 E ±17.4km								N 11s	6.30um				
COZ	153.18	27	ePKPd	32	00.00	8.2X	DEPTH = 127.0 ± 18.6 km								E 11s	7.50um				
VRI	153.66	23	ePKP	31	54.00	1.7	4.2mb (1 obs.)										PP	50	51.70	
			e	52	06.00		NEW BRITAIN REGION (192)							CSTJ	25.89	285	Pc	50	37.50	3.4X
MLR	153.68	25	ePKPd	31	53.00	0.5	LAT	2.55	251	eP	43	09.00	-0.7	HLBJ	26.23	287	Pc	50	42.50	5.2X
CFR	154.76	22	ePKP	31	55.50	1.8	PMG	4.22	212	eP	43	33.00	1.1	WAJH	26.36	274	eP	50	42.00	3.5X
QUE	155.62	294	ePKP	31	56.80	1.1				eS	44	23.00		AYN	26.54	280	eP	50	42.50	2.4
KNT	155.65	35	ePKPd	31	58.16	3.1X	MTN	19.34	248	eP	46	45.40	-1.2	BURJ	26.66	288	Pc	50	46.00	4.7X
NAI	156.22	169	ePKP	32	00.00	3.1X	WBS	20.24	225	eP	46	55.70	-0.1	SHMJ	26.72	289	Pc	50	47.60	5.9X
AGG	156.78	40	ePKPd	32	08.84	12.1X	DZM	23.06	136	iPc	47	22.90	-0.8	KFNJ	26.75	287	Pc	50	36.00	-6.0X
MAIO	158.82	315	ePKP	32	01.00	1.7	ASPA	23.20	219	eP	47	26.00	1.0	HRI	26.77	290	eP	50	47.00	4.7X
BBTK	161.06	20	ePKP	32	03.00	1.5				0.5s	4.80nm	4.2mb	BHL	26.90	291	P	50	47.00	3.5X	
S.D. = 1.1 on 170 of 199 obs.							MAT	43.43	347	eP	50	21.00	0.7				S	55	26.00	
? NOV 14, 1990 18h 18m 06.99±5.46s							S.D. = 1.3 on 7 of 7 obs.							SHWJ	26.90	284	P	50	48.80	5.2X
39.025 N ±35.2km 20.484 E ±33.1km							NOV 14, 1990 18h 45m 03.86±0.15s							ARO	26.95	239	ePd	50	52.00	8.0X
DEPTH = 10.0km (geophysicist)							27.440 N ± 3.7km 66.092 E ± 2.1km							DSI	27.00	286	eP	50	49.00	4.8X
GREECE-ALBANIA BORDER REGION (392)							DEPTH = 37.1km (9 depth phases)							MBH	27.46	282	eP	50	52.50	4.0X
IGT	0.52	347	ePc	18	17.80	0.4	5.3mb (74 obs.) 5.1msz (12 obs.)							KAS	29.88	306	eP	51	11.50	1.2
AGG	1.44	90	ePc	18	32.96	-0.2	PAKISTAN (710)							BBTK	30.21	303	eP	51	14.00	0.8
FNA	1.89	21	ePd	18	38.40	-1.2	CENTROID, MOMENT TENSOR (HRV)							GTA	30.40	58	iPc	51	15.20	0.2
LIT	1.89	55	ePd	18	39.56	0.0	Data Used: GDSN								1.4s	120.00nm			5.5mb	
OHR	2.10	7	ePn	18	47.30	4.7X	L.P.B.: 13S, 27C								Z 16s	9.00um			5.5mszX	
GRG	2.43	37	iPc	18	47.20	-0.1	Centroid Location:							CHG	31.33	99	iPc	51	23.50	0.3
SOH	2.84	50	ePc	18	54.40	1.1	Origin Time 18:45: 5.0 0.7								0.9s	52.10nm			5.3mb	
S.D. = 1.0 on 6 of 7 obs.							Lat 27.45N 0.07 Lon 65.84E 0.06							AAE	31.64	240	eP	51	33.00	6.8X
* NOV 14, 1990 18h 31m 32.73±0.90s							Dep 28.7 3.7 Half-duration 2.2							ELL	31.87	296	iP	51	29.50	1.6
41.122 N ± 8.3km 21.084 E ± 7.7km							Moment Tensor: Scale 10**17 Nm							BDT	32.00	102	ePc	51	28.50	-0.5
DEPTH = 10.0km (geophysicist)							Mrr= 0.74 0.07 Mtt=1.25 0.10								0.8s	36.30nm			5.3mb	
YUGOSLAVIA (383)							Mff= 0.52 0.09 Mrt= 0.82 0.21							ALT	32.05	300	eP	51	29.00	-0.4
ML 1.7 (SKO).							Mrf=-1.76 0.22 Mtf=-1.40 0.07							KMI	32.87	86	Pc	51	36.50	-0.3
OHR	0.22	267	iPg	31	37.80	0.4	Principal Axes:								3.0s	500.00nm			5.9mb	
			iSg	31	42.20		T Vol= 2.98 Plg=41 Azm= 62								Z 15s	4.20um			5.3mszX	
FNA	0.40	147	ePc	31	40.20	-0.8	N -0.94 49 233								N 10s	2.50um				
			eS	31	48.20		P -2.04 4 329								E 12s	1.20um				
SKO	0.89	17	iPn	31	49.00	-0.8	Best Double Couple: Mo=2.5*10**17							YLV	32.90	303	iP	51	36.30	-0.4
VAY	1.14	79	ePn	31	55.00	1.0	NP1: Strike= 97 Dip=59 Slip= 151							CD2	32.97	75	iPc	51	37.00	-0.4
LIT	1.48	133	iPd	31	59.72	0.3	NP2: 203 66 35								0.6s	80.00nm			5.8mb	
S.D. = 1.1 on 5 of 5 obs.							OUE								Z 15s	10.20um			5.7mszX	
? NOV 14, 1990 18h 34m 06.80±3.93s							10.46 329 iPd 47 33.20 -1.3							LZH	33.07	65	iPc	51	38.50	0.1
2.361 N ±41.1km 79.809 W ±64.7km							0.8s 46.12nm 5.7mb								4.0s	620.00nm			5.8mb X	
DEPTH = 10.0km (geophysicist)							BOM								Z 18s	14.30um			5.7msz	
SOUTH OF PANAMA (83)							10.51 143 iPc 47 33.00 -2.2								N 13s	4.60um				
COTA	2.49	144	P	34	47.80	-0.7	11.38 140 iPc 47 46.70 -0.4													
YANA	2.75	153	Pd	34	51.80	-0.5	0.8s 35.82nm 5.6mb X													
			iS	35	25.70		iS 49 49.20													
GGP	2.80	154	eP	34	52.60	-0.4	SHI 12.13 284 iPc 47 55.50 -1.8													
QTO	2.85	153	iPd	34	53.40	-0.2	BBU 14.02 269 iPn 48 22.10 0.1													
			iS	35	38.00		eS 50 47.10													
CAYA	2.91	141	P	34	55.00	0.5	DHR 14.29 269 eP 48 25.00 -0.6													
							KSH 14.54 32 iPd 48 26.00 -2.9													
							E 15s 91.50um													
							TEH 15.00 307 ePc 48 39.50 4.4X													
							HYB 15.23 128 ePd 48 37.00 -0.9													
							GKN 16.43 84 P 48 47.54 -6.0X													
							0.7s 336.00nm 5.6mb													

N	15s		5.00um			VBY	43.90	308	ePc	53	09.20	0.7	E	14s		4.30um					
E	15s		2.20um			KSP	44.10	316	eP	53	10.00	-0.1				pP	53	55.00	33km		
			S	57	38.00											PP	55	42.00			
PVL	36.40	306	eP	52	08.00	DUI	44.20	303	P	53	13.00	1.8				S	00	43.00			
MLR	36.52	310	ePc	52	10.00	LJU	44.46	309	eP	53	13.50	0.4	PCP	48.59	306	P	53	44.04	-1.7		
RZN	36.56	304	iPd	52	09.00	CEY	44.50	308	eP	53	14.00	0.5	SLE	48.73	311	eP	53	45.80	-0.9		
PLD	36.64	304	eP	52	07.00	SDI	44.68	303	P	53	14.70	-0.3	CKI	48.78	306	P	53	49.50	2.4		
CMP	37.08	310	ePc	52	19.00	VOY	44.90	309	eP	53	16.70	-0.1	ZLA	48.78	310	eP	53	46.60	-0.6		
PAIG	37.10	301	iPd	52	14.61	TRI	44.96	308	eP	53	16.60	-0.5	FIN	48.83	306	P	53	48.04	0.5		
PGB	37.11	305	eP	52	14.00	PRU	45.02	314	eP	53	17.50	-0.1	ORX	49.00	308	P	53	46.91	-2.1		
MMB	37.28	303	eP	52	04.00	KBA	45.39	310	iPc	53	20.70	0.0	MMK	49.02	308	eP	53	48.90	-0.4		
SRS	37.31	303	ePd	52	14.34		0.6s		15.50nm			5.1mb	FEL	49.06	311	eP	53	54.51	5.1X		
SOH	37.45	302	ePc	52	16.36	ARV	45.39	305	P	53	21.00	0.4	IMI	49.06	306	P	53	48.75	-0.7		
KKB	37.80	304	iP	52	19.00	KHC	45.50	313	P	53	21.80	0.4	ROB	49.07	306	P	53	50.09	0.6		
VTG	37.82	305	iP	52	20.00					53	33.00	39km	SBF	49.39	306	eP	53	51.60	-0.3		
KNT	37.84	303	iPc	52	25.82	MNS	45.55	304	P	53	27.00	5.1X		0.7s		77.15nm			5.8mb		
LIT	38.02	301	ePc	52	20.12	BRG	45.56	316	iP	53	22.60	0.8	ENR	49.40	306	P	53	51.11	-0.9		
VAY	38.10	303	eP	52	22.00		1.4s		48.00nm			5.2mb	DIX	49.41	308	eP	53	52.40	0.1		
GRG	38.18	302	ePc	52	22.32					53	28.70	20kmX	STV	49.47	306	P	53	51.62	-0.9		
BTO	38.32	58	P	52	24.00					53	38.00		BHB	49.50	307	P	53	51.01	-1.7		
	N	16s	3.50um							00	16.00		RSP	49.51	307	P	53	50.80	-2.1		
	E	13s	2.90um			ASS	45.58	305	P	53	22.40	0.3	NB2	49.51	328	P	53	51.20	-1.4		
			pP	52	35.00	NJ2	45.67	71	Pc	53	23.50	0.6		0.9s		31.30nm			5.3mb		
			PP	53	57.00		0.8s		100.00nm			5.8mb	CDF	49.58	312	eP	53	53.60	0.3		
			S	58	17.00		Z	14s	1.30um			5.0MsZx		0.9s		9.85nm			4.8mb		
SNG	38.42	115	eP	52	21.60		N	16s	2.80um				LSD	49.58	308	P	53	53.16	-0.5		
FNA	38.94	302	ePc	52	29.48	FVI	45.72	309	P	53	22.80	-0.3	PZZ	49.62	306	P	53	51.42	-2		
SKO	39.02	304	iP	52	28.30	BHG	45.78	311	eP	53	23.90	0.3	NPA	49.65	215	eP	53	58.50	4		
	Z	20s	3.09um		5.1MsZ	VVI	45.92	309	P	53	25.00	0.3	EMS	49.74	308	eP	53	55.40	0		
	E	20s	2.74um			CRE	46.12	305	P	53	26.30	-0.1	RRL	49.84	307	P	53	55.32	-0.3		
OHR	39.41	302	eP	52	24.00	UPP	46.12	328	iP	53	25.10	-0.9	LPG	49.86	308	eP	53	55.40	-0.4		
HHC	39.52	58	Pc	52	34.00	SFI	46.20	306	P	53	28.20	1.3		0.9s		42.60nm			5.5mb		
	1.2s		100.00nm		5.5mb	CLL	46.22	316	eP	53	33.00	6.0X	BSF	49.88	311	eP	53	54.80	-0.9		
	Z	17s	6.00um		5.5MsZx		1.1s		14.00nm			4.8mb	LPL	49.88	308	eP	53	55.30	-0.6		
	N	13s	1.60um							53	44.10	39km		0.9s		34.40nm			5.4mb		
	E	14s	3.80um			PGD	46.29	306	P	53	29.00	1.1	CN2	49.90	55	iPc	53	55.40	-0.3		
			PP	54	10.00	CTI	46.46	309	P	53	30.30	1.2		5.0s		700.00nm			5.9mb X		
			S	58	35.00	SOD	46.51	340	iP	53	29.00	-0.1		Z	17s	8.00um			5.8MsZx		
IGT	39.64	300	ePd	52	33.60					53	35.80	23kmX		N	14s	1.90um					
TIY	40.02	63	iPc	52	37.50	SQTA	46.85	310	iPc	53	31.30	-0.9		E	14s	2.10um					
	0.6s		100.00nm		5.8mb		0.6s		17.70nm			5.2mb				eP	54	08.00	46km		
	Z	14s	6.70um		5.6MsZx					53	42.70	40km				ePP	55	50.00			
	E	11s	4.10um							56	45.90					eS	01	00.00			
			PP	54	10.00					53	33.00	-0.1	BNI	49.92	307	P	53	54.70	-1.4		
			S	58	42.00	OGA	46.95	310	eP	53	33.00	-0.1	FRF	49.97	305	eP	53	55.70	-0.6		
NAI	40.11	229	iPd	52	37.00	MOX	46.98	315	iP	53	34.00	1.0		1.1s		26.85nm			5.2mb		
IPM	40.30	118	ePd	52	42.50	MME	47.04	306	P	53	33.00	-0.9	LMR	50.08	305	eP	53	56.30	-0.8		
	0.6s		21.50nm		5.1mb	GRF	47.10	314	eP	53	34.70	0.7	WTS	50.14	316	eP	53	58.50	1.1		
			e	52	53.50		1.1s		26.00nm			5.1mb		1.0s		36.00nm			5.3mb		
PSZ	41.15	312	eP	52	46.00		Z	18s	1.00um			4.8MsZ	TRO	50.14	340	eP	53	57.08	-0.1		
SPC	41.23	314	iP	52	47.20					53	41.80	24kmX	HAU	50.18	311	eP	53	57.50	-0.4		
KRA	41.64	316	iPc	52	50.60	BDI	47.11	306	P	53	34.80	0.6		0.5s		5.85nm			4.9mb		
	0.7s		34.00nm		5.2mb	PII	47.15	305	P	53	34.00	-0.5		Z	22s	1.23um			4.9MsZ		
	Z	18s	1.70um		5.0MsZ	SAL	47.22	308	P	53	35.00	0.1	WIT	50.31	317	e(P)	53	49.00	-9.7X		
			i	52	52.70	DL2	47.23	61	eP	53	34.50	-0.6	NSS	50.32	333	iPc	53	57.90	-0.7		
			i	53	05.60		1.5s		30.00nm			5.1mb	RGS	50.46	331	eP	53	59.00	-0.7		
WHN	42.07	74	iPc	52	55.00		Z	16s	3.20um			5.4MsZx	MEM	50.53	314	P	53	51.60	-8.8X		
	0.8s		100.00nm		5.6mb		E	14s	3.60um				ENN	50.59	315	eP	54	02.50	1.6		
	Z	16s	3.10um		5.3MsZx					00	25.00			1.0s		31.00nm			5.3mb		
	N	12s	2.90um			SSE	47.79	72	Pd	53	40.00	0.4	CDR	50.60	305	ePc	54	01.10	0.0		
	E	14s	5.00um				1.0s		29.00nm			5.3mb	LOF	51.14	338	eP	54	03.50	-1.3		
			sP	53	08.00		Z	20s	3.20um			5.3MsZ	BAG	51.38	90	eP	54	08.00	0.4		
			eS	59	15.00		N	14s	2.30um				DOU	51.41	314	P	54	07.60	0.5		
BJI	42.98	60	eP	53	02.50		E	14s	1.30um					S			01	30.00			
	1.5s		250.00nm		5.7mb					53	57.00		LBF	51.78	310	eP	54	09.50	-0.6		
	Z	16s	6.40um		5.6MsZx					PP	55	36.00		1.2s		53.55nm			5.4mb		
	E	12s	2.88um							S	00	32.00		LOR	51.86	310	eP	54	10.00	-0.6	
			eSP	53	16.00						53	37.70	-1.8		0.7s		20.95nm			5.2mb	
			ePP	54	48.00	MDI	47.79	308	P	53	37.70	-1.8		Z	22s		6.50um			5.6MsZ	
			eS	59	20.00	KEV	47.95	343	iP	53	40.90	0.6	SMF	51.88	309	eP	54	10.40	-0.4		
ZST	43.04	312	e(P)	53	02.20		0.8s		32.30nm			5.4mb	HYA	51.91	328	eP	54	12.00	1.3		
			e	55	47.00					04	30.00		SSF	52.10	310	eP	54	12.00	-0.4		
NUR	43.28	331	iP	53	03.20	BOB	47.95	307	P	53	40.60	-0.2		0.8s		43.00nm			5.5mb		
	0.6s		22.20nm		5.1mb	VDL	47.99	309	eP	53	41.20	-0.1	AVF	52.21	309	eP	54	12.70	-0.5		
	Z	16s	6.40um		5.6MsZx	HFS	48.07	328	eP	53	40.50	-0.9		0.7s		13.25nm			5.0mb		
			e	59	38.00		0.5s		39.90nm			5.7mb	BGF	52.57	309	eP	54	15.60	-0.3		
			e	02	44.00		Z	17s	1.68um			5.1MsZx		0.7s		22.05nm			5.2mb		
			LR	14	12.00					15	22.00		MAF	52.77	309	eP	54	17.30	-0.2		
MGR	43.33	300	P	53	05.00	SAX	48.12	310	eP	53	42.30	-0.1		0.9s		24.55nm			5.2mb		
PTJ	43.45	309	eP	53	05.50	LLS	48.34	310	eP	53	43.20	-0.8	MDJ	52.84	53	eP	54	17.50	-0.4		
SGO	43.53	301	P	53	06.50	TMA	48.39	309	eP	53	44.20	-0.2		1.5s		100.00nm					

					Z 20s 2.50um 5.5MsZ					Test Site (Dept. of Energy).				
TCF	53.02	309	eP	54 19.00 -0.3	MBL	70.97	127	eP	56 20.00 0.1	TNP	1.09	322	iPc	17 21.40 -0.8
	0.8s	17.45nm		5.1mb	KNA	74.38	117	iPd	56 40.40 0.3	CLC	1.72	215	iPc	17 31.00 -1.1
	53.19	307	eP	54 20.60 0.0	MTN	74.66	114	eP	56 42.20 0.5	GSC	1.95	190	iPc	17 34.30 -1.3
CAF	0.8s	28.20nm		5.3mb	MBC	76.51	1	eP	56 51.50 0.3	KVN	2.27	324	iPc	17 39.00 -1.3
	53.49	309	eP	54 22.30 -0.4		0.7s	33.00nm		5.4mb	FRI	2.68	266	iP	17 44.70 -1.2
	1.2s	38.70nm		5.3mb	BRW	77.07	13	eP	56 55.30 0.9	SBB	2.79	205	iPc	17 46.10 -1.5
RJF	53.56	308	eP	54 23.60 0.4	WARB	78.96	127	eP	57 06.90 1.3	TPC	3.13	175	iPc	17 50.60 -1.7
	1.1s	43.95nm		5.4mb	WB5	81.10	118	eP	57 17.90 0.8	CMB	3.29	285	iPc	17 53.10 -1.5
	Z 22s	0.98um		4.8MsZ	WRA	81.12	118	P	57 17.00 -0.2	MWC	3.30	205	ePc	17 53.80 -1.0
LPO	53.83	307	eP	54 25.20 0.0		0.5s	40.00nm		5.7mb	ABL	3.31	225	iPc	17 53.50 -1.6
	0.8s	26.85nm		5.3mb	IMA	81.96	15	ePc	57 20.70 -0.3	PEC	3.39	191	iPc	17 55.00 -1.0
	54.13	307	eP	54 27.40 0.0		0.5s	14.20nm		5.3mb	PHAM	3.53	248	iPc	17 56.80 -1.2
LDF	1.0s	60.00nm		5.6mb	FORR	82.83	130	eP	57 26.50 0.7	MSU	3.56	68	eP	17 57.00 -1.2
	54.50	312	iPc	54 29.70 -0.4	ASPA	82.83	121	iPc	57 26.50 0.4	PRI	3.62	254	iPc	17 57.90 -1.4
	0.5s	17.50nm		5.3mb		0.6s	39.60nm		5.7mb	BCH	3.63	237	iPc	17 58.10 -1.4
EPF	54.60	305	eP	54 29.60 -1.4	INK	83.44	7	eP	57 29.00 0.6	PLM	3.89	186	iPc	18 01.80 -1.4
	0.7s	8.25nm		4.9mb	TTA	83.92	18	ePc	57 32.20 1.1	DUG	4.06	42	eP	18 04.00 -1.7
	54.63	309	eP	54 30.80 -0.2		1.0s	10.00nm		4.9mb	SAO	4.09	265	iP	18 04.20 -1.7
FLN	54.73	312	iPc	54 31.30 -0.4	FBA	84.27	14	ePc	57 32.40 -0.3	PRS	4.11	259	iPc	18 04.50 -1.7
	0.5s	17.50nm		5.3mb		1.2s	26.52nm		5.3mb	ARN	4.12	273	eP	18 05.10 -1.2
	Z 21s	1.27um		5.0MsZ	SVW	85.50	19	ePc	57 40.60 1.6	CIS	4.16	204	eP	18 05.30 -1.6
EBR	54.75	302	eP	54 33.00 1.0	QIS	85.62	116	eP	57 40.00 -0.1	MHC	4.20	273	iPc	18 06.00 -1.6
	54.81	302	eP	54 33.00 0.5	PMG	86.46	102	eP	57 45.00 0.6	BLP	4.22	232	iPc	18 06.60 -1.1
	54.99	305	Pc	54 33.00 -0.7	PMR	86.83	16	ePc	57 46.00 0.6	GLA	4.35	163	iPc	18 07.80 -1.9
BTH			iP	54 41.50 28km		0.6s	11.00nm		5.3mb	ORV	4.65	302	iPc	18 12.00 -1.9
			iSP	54 47.50	TOA	87.07	15	ePc	57 48.60 1.8	BKS	4.70	280	eP	18 13.00 -1.7
			PcP	55 33.00	YKA	90.38	0	eP	57 55.50 -6.8X	BRK	4.72	280	eP	18 13.00 -1.9
GRR	55.00	312	eP	54 33.50 -0.2		0.5s	1.80nm		4.6mb	ZSP	4.73	280	ePc	18 13.20 -1.8
	0.5s	6.55nm		4.9mb	CTA	90.79	112	eP	58 07.00 2.2	PCC	4.80	275	ePc	18 13.70 -2.3
	55.14	311	eP	54 34.80 0.1			eS	09 04.00		DAU	5.11	50	eP	18 20.00 -0.6
SHNJ	55.43	66	P	54 37.50 0.5	SIV	129.93	272	PKP	04 12.20 0.3	WDC	5.86	307	ePc	18 28.70 -2.3
	55.55	68	P	54 37.90 0.0	LPB	136.37	275	ePKP	04 30.00 5.4X	LBFM	5.94	316	iPc	18 31.60 -0.7
	55.91	69	P	54 40.50 0.0	CNCB	136.37	274	PKP	04 26.30 1.5	ALQ	8.34	103	ePc	19 03.30 -2.8
ECHE	56.04	301	eP	54 42.20 0.8	PMO	146.10	76	iPKP	04 46.20 4.9X	GOL	8.97	71	eP	19 13.60 -1.3
	56.21	320	Pc	54 42.80 0.4		1.1s	45.00nm			LRM	9.08	18	ePn	19 16.70 0.5
	0.5s	10.60nm		5.1mb	TPT	146.33	75	iPKP	04 46.90 5.2X	GLD	9.10	71	eP	19 16.00 -0.5
KRI	56.46	223	eP	54 34.00 -10.8X		1.1s	55.00nm			LON	10.34	339	eP	19 35.00 1.6
	56.61	349	eP	54 44.60 -0.4	VAH	146.44	76	iPKP	04 48.60 6.7X	BMW	10.56	333	ePc	19 40.10 3.7
	56.66	303	eP	54 45.00 -0.9		1.1s	25.00nm			DPW	10.72	353	iPc	19 38.50 -0.2
ECRI	56.73	305	eP	54 46.10 -0.3	RUV	146.63	75	iPKP	04 49.40 7.2X	NEW	11.04	357	eP	19 42.20 -0.8
	57.11	64	P	54 47.40 -1.7		1.1s	30.00nm			RSSD	11.62	50	eP	19 47.70 -3.4
	57.38	300	eP	54 51.00 -0.1	S.D. = 0.9 on 246 of 287 obs.					PNT	12.31	350	eP	20 00.00 -0.2
TKSJ	57.85	65	P	54 54.50 0.3	NOV 14, 1990 19h 03m 55.92±0.51s					0.8s 40.00nm 5.8mb				
	58.26	316	eP	54 51.00 -5.8X	44.425 N ± 3.2km 7.004 E ± 4.5km					PGC	12.53	338	eP	20 16.00 12.9
	58.27	303	iPc	54 57.00 -0.2	DEPTH = 10.0km (geophysicist)					SES	13.71	15	ePd	20 18.60 -0.2
GUD	58.33	302	iPc	54 57.50 0.0	NORTHERN ITALY (545)					1.0s 115.00nm 5.8mb				
	1.5s	83.33nm		5.6mb	ML 2.6 (LDG).					MEO	14.60	94	iPd	20 30.80 0.2
			eS	03 08.00						EDM	16.13	7	iPd	20 49.10 -1.3
AFC	58.46	299	eP	54 57.60 -1.1	PZZ	0.11	41	P	03 58.89 0.0	BIX	16.53	88	eP	20 56.00 0.5
	58.46	300	eP	54 58.20 -0.3			S	04 01.04		FFC	20.09	25	iPc	21 35.90 -2.6
	58.47	299	eP	54 58.50 -0.2	STV	0.29	128	P	04 01.65 -0.4		0.8s	319.00nm		5.7mb
WKYJ	59.04	65	P	55 02.90 0.3			S	04 05.65		OLY	20.12	87	eP	21 36.90 -2.1
	59.04	63	eP	55 02.60 0.1	ENR	0.36	123	P	04 03.25 -0.1	FVM	20.55	80	eP	21 41.50 -2.0
	59.25	298	iPc	55 03.00 -0.9			S	04 08.13		PWLA	22.95	87	eP	22 07.50 -0.2
MAL	59.62	222	iPc	55 06.20 -0.6	BHB	0.46	24	P	04 05.05 -0.2	YKA	25.32	2	eP	22 27.20 -3.1
	1.0s	14.50nm		5.1mb			S	05 10.69			0.6s	15.90nm		4.9mb
	EHOR	59.66	300	eP	55 06.20 -0.6	ROB	0.63	101	P	04 08.63 -0.1	TKL	26.20	84	eP
DAV	59.73	98	eP	55 07.70 0.1			S	04 17.86		CLE	27.16	70	iP	22 45.10 -2.4
	59.82	302	eP	55 07.80 -0.1	SBF	0.64	151	Pg	04 09.20 0.4	NAV	28.21	79	eP	22 55.60 -1.6
	60.15	298	eP	55 09.00 -1.1			Sg	04 18.00		BLA	28.52	79	iP	22 58.80 -1.2
MTMJ	60.23	62	eP	55 10.30 -0.5	RSP	0.75	14	P	04 10.68 0.0		1.0s	60.00nm		5.4mb
	60.56	62	iPc	55 11.70 -1.2	IMI	0.82	129	P	04 11.97 0.1	JSC	28.55	85	eP	22 58.30 -1.9
	1.5s	94.44nm		5.7mb	FIN	0.89	104	P	04 12.83 -0.2	LHS	28.85	85	eP	23 01.00 -1.9
Z 20s	1.06um		5.0MsZ				S	04 24.93		TOA	30.98	333	ePc	23 21.30 -0.4
			eS	03 30.00	FRF	0.90	197	Pg	04 12.80 -0.4	PMR	31.78	331	ePd	23 28.50 -0.1
	IJDJ	60.58	63	eP	55 12.10 -1.0			Sg	04 24.40			0.8s	24.00nm	
IFR	60.60	295	iPd	55 14.20 0.7	LRG	1.08	206	Pg	04 16.20 0.1	INK	32.57	348	ePc	23 33.00 -2.4
	61.01	61	eP	55 14.80 -1.2			Sg	04 30.80		HBVT	33.24	64	iPc	23 40.00 -1.6
	61.30	62	eP	55 16.00 -2.0	PCP	1.11	83	P	04 17.24 0.5	FBA	33.34	336	iPd	23 41.70 -0.5
YAMJ	61.59	59	P	55 19.40 -0.5	LMR	1.15	198	Pg	04 17.60 0.2	SVW	34.23	327	iPc	23 48.90 -1.1
	62.18	62	eP	55 22.60 -1.3			Sg	04 32.00		BNH	34.52	63	eP	23 50.60 -2.1
	62.33	345	iPc	55 23.20 -1.2	S.D. = 0.3 on 13 of 13 obs.					TTA	35.23	330	ePc	23 57.80 -0.8
DAG	0.5s	21.83nm		5.5mb	& NOV 14, 1990 19h 17m 00.71s					IMA	36.00	335	iPc	24 04.10 -1.1
	62.50	295	iP	55 26.00 -0.1	37.227 N 116.371 W					MIM	36.05	62	eP	24 03.50 -2.1
	62.61	58	P	55 25.60 -1.1	DEPTH = 0.0km					SCH	37.75	46	eP	24 17.00 -2.8
TIO	63.05	293	iP	55 31.00 1.1	5.4mb (56 obs.)					FRB	38.93	32	eP	24 28.00 -1.6
	66.96	219	eP	55 54.50 -0.7	SOUTHERN NEVADA (41)						0.5s	45.00nm		5.4mb
	0.4s	12.71nm		5.4mb	<DOE>. ML 5.1 (BRK). 37° 13'					MBC	39.13	359	ePc	24 29.90 -1.2
LKO	69.45	270	P	56 10.70 -0.2	38.70" N., 116° 22' 16.46" W.,						0.8s	31.00nm		5.0mb
	0.7s	12.00nm		5.0mb	Surface Elev. 2059 m., Depth of					DAG	55.81	16	iPc	26 37.70 -3.8
	70.09	267	Pd	56 15.78 1.0	Burial 600 m., Shot Time						0.6s	14.00nm		5.2mb
KIC	0.7s	13.50nm		5.1mb	191700.71, "HOUSTON," Nevada					RUV	59.76	215	iP	27 09.00 -0.8
	70.22	267	P	56 16.46 0.9							1.0s	25.00nm		5.3mb
	70.41	267	P	56 17.64 0.9						ZOBO	69.95	130	Pc	28 14.00 -2.2

14d 19h

	1.0s	24.25nm	5.3mb	CFA	81.93	140	ePd	29	22.00	-1.6		1.0s	23.00nm	5.5mb	
Z	20s	0.69um	4.9msz	EHOR	81.95	48	eP	29	22.00	-1.7		Z	18s	0.40um	4.9msz
		LR	50 12.00	BRG	82.02	29	iP	29	22.60	-1.2		NJ2	93.93	316 Pd	30 20.00 -1.6
KEV	70.02	13 eP	28 14.00 -1.7		1.0s	30.00nm				5.4mb		LKO	100.38	70 Pd	30 47.66 -3.6
EKA	71.66	34 P	28 24.00 -1.9										0.9s	10.50nm	5.4mb
	0.8s	10.00nm	5.0mb	SLE	82.14	34	ePc	29	22.90	-1.6		WB5	116.84	265 ePKP	35 46.80 -2.4
SOD	72.02	14 iP	28 24.70 -3.2	ZLA	82.30	34	ePc	29	24.00	-1.4		WRA	116.89	265 PKP	35 46.00 -3.3
NB2	73.19	24 P	28 32.00 -2.9	EMS	82.69	36	ePc	29	26.30	-1.4			0.7s	4.50nm	
	0.6s	12.60nm	5.2mb	DIX	82.90	36	ePc	29	27.70	-1.2		WRA	116.89	265 PKP	35 53.00 3.7
SIV	74.21	125 P	28 39.20 -2.2	KSP	82.94	28	iP	29	27.00	-1.6			0.6s	1.50nm	
HFS	74.67	23 iPc	28 40.50 -3.0	PRU	82.95	29	P	29	26.80	-1.9		ASPA	119.18	261 iPKPd	35 50.70 -2.9
	0.5s	42.80nm	5.7mb	LPL	83.00	36	eP	29	28.20	-1.1			1.0s	6.10nm	
SUF	75.95	17 iP	28 48.00 -2.7		0.9s	22.10nm				5.4mb		SPA	127.04	180 iPKPc	36 06.10 -1.5
	0.5s	4.10nm	4.8mb	EVIA	83.01	46	eP	29	28.00	-1.4			1.0s	15.00nm	
FLN	77.23	38 iPc	28 56.30 -1.8	LPG	83.02	36	eP	29	28.60	-1.0		GBA	127.80	343 PKPc	36 06.60 -3.7
	0.9s	45.85nm	5.6mb		1.1s	36.65nm				5.5mb			1.2s	9.40nm	
GRR	77.30	38 iPc	28 57.00 -1.5	LLS	83.04	34	ePc	29	28.30	-1.2		KRI	143.80	65 iPKPd	36 23.50 -16.6
LPF	77.45	38 iPc	28 57.70 -1.6	FUR	83.05	32	eP	29	28.30	-1.0		BUL	145.13	71 iPKPc	36 37.70 -4.6
	1.1s	78.15nm	5.8mb		1.0s	40.00nm				5.6mb			1.0s	49.50nm	
NUR	77.50	19 iP	28 57.20 -2.2	EROO	83.15	43	eP	29	28.40	-1.5		SWZ	146.27	84 iPKPc	36 41.50 -2.6
LDF	77.52	38 iPc	28 58.00 -1.7	MAL	83.17	49	iPc	29	29.50	-0.6			0.7s	27.40nm	
	0.9s	37.65nm	5.5mb	MMK	83.18	35	ePc	29	29.60	-0.7		SLR	147.93	79 iPKPc+36	48.00 1.2
WIT	77.61	31 eP	29 00.50 0.4	ECHE	83.24	45	eP	29	29.20	-1.2			1.0s	35.00nm	
WTS	78.27	32 eP	29 02.50 -1.2	LSD	83.25	36	P	29	29.55	-1.1		Z	22s	4.44um	6.2mszX
	1.0s	33.00nm	5.4mb	KHC	83.25	30	iP	29	29.10	-1.2		EVA	148.92	80 ePKP	36 50.50 2.1
NIJ	78.34	308 eP	29 02.70 -1.7		1.0s	10.00nm				5.0mb			0.6s	14.67nm	
DOU	78.68	34 P	29 04.20 -1.9	ECOG	83.31	48	eP	29	29.80	-1.1		NPA	149.11	51 ePKP	36 49.30 0.6
ENN	78.78	33 ePc	29 05.00 -1.6	BNI	83.32	37	Pc	29	29.90	-1.0		MAW	149.57	179 iPKP	36 51.00 3.2
	0.9s	38.00nm	5.4mb	AFC	83.34	48	eP	29	29.80	-1.3			212 obs.	associated	
MFF	78.87	39 iPc	29 05.60 -1.6	RRL	83.47	37	P	29	30.89	-0.9					
	1.1s	58.60nm	5.5mb	ORX	83.50	36	P	29	30.27	-1.5		& NOV 14, 1990 19h 23m 37.90s			
MEM	78.93	33 P	29 06.00 -1.4	RSP	83.52	36	P	29	30.47	-1.4		38.817 N		122.798 W	
CHJJ	79.08	307 eP	29 06.70 -1.8	VDL	83.54	34	ePc	29	31.20	-0.9		DEPTH =	4.0km		
MDJ	79.08	318 eP	29 06.50 -1.9	TMA	83.56	35	ePc	29	30.90	-1.2		NORTHERN CALIFORNIA		(36)	
MAT	79.27	308 iPc	29 07.50 -2.1	SDTA	83.75	33	eP	29	31.50	-1.5		<BRK>. ML 3.6 (BRK).			
	1.0s	44.00nm	5.4mb		1.0s	40.10nm				5.6mb		Mo=3.4*10**14 Nm (BRK). Felt (V)			
MTMJ	79.50	308 eP	29 09.10 -1.8	BHB	83.75	37	P	29	31.50	-1.4		ot Loch Lamond, (IV) at			
LSF	79.95	39 iPc	29 10.90 -2.1	PZZ	83.93	37	P	29	32.94	-1.0		Middletown and (III) at Finley.			
	0.9s	24.55nm	5.1mb	OGA	83.94	33	eP	29	33.50	-0.6		Also felt at Cobb, Kelseyville			
EPLA	79.99	47 eP	29 11.50 -1.9	BHG	84.07	32	iPd	29	33.30	-1.2		and Lakeport.			
IDJ	80.12	307 eP	29 12.50 -1.7	SNY	84.18	319	Pc	29	34.50	-0.6					
TCF	80.26	38 iPc	29 12.60 -2.1	MDI	84.19	35	P	29	33.00	-2.0		NWRM	0.37	191 eP	23 45.30 0.1
	0.9s	26.20nm	5.2mb	STV	84.23	37	P	29	32.94	-2.5		BRK	1.03	156 eP	23 57.20 -0.7
ECRI	80.33	43 eP	29 14.00 -1.2	ENR	84.29	37	P	29	32.63	-3.1			iS	24 12.50	
SSF	80.34	37 iPc	29 13.20 -1.9	LRG	84.34	38	iPc	29	34.40	-1.5		BKS	1.04	155 eP	23 57.10 -1.0
	1.1s	43.95nm	5.3mb		1.0s	30.00nm				5.5mb			iS	24 12.40	
LOR	80.36	37 iPc	29 13.40 -1.9	FRF	84.41	38	iPc	29	34.50	-1.7		ORV	1.25	53 ePc	23 59.40 -2.3
	1.0s	78.15nm	5.6mb		0.9s	37.65nm				5.6mb		PCC	1.36	166 eP	24 01.00 -2.5
BGF	80.38	38 iPc	29 13.20 -2.1	ROB	84.45	37	P	29	34.37	-2.1		MHC	1.73	148 ePd	24 07.40 -1.7
	0.9s	45.85nm	5.4mb	LMR	84.51	38	iPc	29	35.10	-1.6		WDC	1.77	6 e(P)	24 09.10 -0.4
AVF	80.46	37 iPc	29 13.70 -2.0		1.0s	46.00nm				5.7mb		ARN	1.77	145 eP	24 07.70 -1.9
	1.0s	34.00nm	5.3mb	CKI	84.55	36	P	29	35.00	-1.9		MIN	1.78	31 iPd	24 08.70 -1.1
LFF	80.46	40 iPc	29 14.10 -1.7	SBF	84.57	37	eP	29	35.10	-2.0		GCC	1.89	160 ePc	24 09.20 -2.1
	0.9s	44.20nm	5.4mb		0.9s	29.50nm				5.5mb		CMB	2.05	112 iPc	24 12.10 -1.5
MAF	80.48	38 iPc	29 13.80 -2.1	PCP	84.58	36	P	29	34.68	-2.5		FHC	2.18	336 e(P)	24 12.00 -3.5
	1.0s	30.00nm	5.2mb	FIN	84.68	36	P	29	34.88	-2.7		SAO	2.31	152 eP	24 14.00 -3.4
RJF	80.60	39 iPc	29 14.60 -1.9	SAL	84.69	34	P	29	36.40	-1.1		LBFM	2.62	15 eP	24 23.00 1.1
	1.0s	36.00nm	5.3mb	IMI	84.75	37	P	29	34.37	-3.6		LLA	2.64	146 iPc	24 20.40 -1.7
LBF	80.62	37 eP	29 14.60 -2.1	BOB	84.84	35	P	29	37.40	-1.0		PRS	2.73	155 eP	24 21.00 -2.3
GUD	80.73	46 iPc	29 15.90 -1.6	CTI	84.85	33	P	29	37.00	-1.5		TNP	4.44	98 eP	24 44.50 -3.3
SMF	80.80	37 iPc	29 15.50 -2.1	IFR	84.87	51	iP	29	38.00	-0.9			17 obs.	associated	
	1.1s	42.75nm	5.4mb	FVI	84.91	32	P	29	37.00	-1.6		? NOV 14, 1990 19h 26m 36.83±15.35s			
LPO	80.87	40 iPc	29 16.20 -1.8	KRA	84.92	27	ePd	29	37.30	-1.4		39.931 N ±74.4km		24.106 E ±87.4km	
	1.0s	40.00nm	5.4mb		1.1s	57.00nm				5.7mb		DEPTH =	5.0km	(geophysicist)	
HAU	80.99	35 iPc	29 16.90 -1.7	VKA	85.03	30	e(P)	29	37.00	-2.3		AEGEAN SEA		(365)	
	1.0s	56.00nm	5.5mb	ZST	85.40	29	iP	29	40.20	-0.9		PAIG	0.33	270 ePc	26 43.22 -0.2
CDF	81.11	34 iPc	29 17.70 -1.6							36 13.50			eS	26 46.86	
	1.0s	36.00nm	5.4mb	SPC	85.76	27	eP	29	41.60	-1.5		SOH	1.06	327 ePc	26 57.66 0.4
CAF	81.14	39 iPc	29 17.40 -2.0	PII	86.13	36	P	29	41.50	-3.3			eS	27 11.10	
	0.9s	44.20nm	5.5mb	SRO	86.18	29	eP	29	43.60	-1.4		SRS	1.25	342 ePc	26 59.86 -0.6
EVAL	81.21	49 eP	29 18.00 -1.9	PGF	86.31	37	iPc	29	44.80	-1.1			iS	27 18.38	
MOX	81.27	31 iP	29 18.50 -1.5		1.1s	31.75nm				5.4mb		KNT	1.54	324 ePc	27 05.46 0.5
	1.2s	28.00nm	5.2mb	PGD	86										

BCH 0.85 154 iPd 34 30.40 -0.8
 SAO 1.09 318 iPd 34 34.20 -1.0
 FRI 1.23 33 iPd 34 36.20 -1.4
 IS 34 51.80
 BLP 1.39 175 eP 34 40.50 0.3
 ABL 1.54 135 eP 34 40.40 -2.1
 GCC 1.59 313 eP 34 41.00 -2.0
 ARN 1.61 330 eP 34 42.00 -1.3
 CMB 2.08 3 eP 34 50.20 0.0
 ES 35 14.40
 TNP 3.40 50 e(P) 35 08.00 -1.1
 13 obs. associated

* NOV 14, 1990 20h 01m 58.58± 1.82s
 35.366 N ± 23.1km 26.759 E ± 9.9km
 DEPTH = 33.0km (normal)

CRETE (370)
 MD 3.7 (ATH).

KAP 0.39 61 ePg 02 05.60 -1.9
 NPS 0.94 264 ePg 02 15.90 0.4
 ARG 1.40 52 ePg 02 23.70 1.7
 APE 1.97 330 ePb 02 29.70 -0.6
 VAM 2.09 272 ePg 02 36.40 4.4X
 CIN 2.47 25 eP 02 38.00 0.6
 VLI 3.38 295 ePn 02 50.10 -0.2
 S.D. = 1.6 on 6 of 7 obs.

& NOV 14, 1990 20h 21m 33.06s
 60.593 N 148.695 W
 DEPTH = 6.2km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

KNIM 0.53 117 iP 21 43.82 0.0
 ES 21 52.34
 SEW 0.62 218 iP 21 45.11 -0.3
 ES 21 53.65
 LTI 0.69 143 eP 21 46.38 -0.6
 ES 21 57.67
 SLKM 0.76 264 iP 21 47.58 -0.7
 ES 21 58.23
 PMS 0.78 327 eP 21 47.98 -0.6
 ES 21 58.60
 MTU 0.80 139 eP 21 48.73 -0.2
 ES 22 00.42
 KNK 0.83 8 eP 21 48.79 -0.7
 ES 22 00.86
 GLI 0.84 69 iP 21 48.23 -1.4
 ES 22 00.81
 PLRM 1.02 348 eP 21 51.70 -1.1
 ES 22 06.06
 HIN 1.10 99 eP 21 53.27 -0.9
 VZW 1.15 65 eP 21 53.23 -1.7
 ES 22 09.43
 GH0 1.19 355 eP 21 54.53 -1.1
 ES 22 11.38
 PWA 1.21 332 eP 21 54.85 -1.0
 NKA 1.26 278 eP 21 57.30 0.5
 VLZ 1.28 64 eP 21 55.19 -1.9
 ES 22 12.69
 SUA 1.33 312 eP 21 56.63 -1.4
 ES 22 14.84
 >NNL 1.41 248 eP 21 58.55 -0.7
 SCM 1.41 27 eP 21 58.36 -1.0
 ES 22 16.94
 CVA 1.46 91 eP 21 58.26 -1.6
 KLU 1.62 55 eP 22 00.98 -1.4
 ES 22 22.14
 CNPM 1.66 231 eP 22 01.18 -1.7
 SCAM 1.73 92 iP 22 01.75 -2.0
 SPV 1.75 291 eP 22 02.49 -1.6
 ES 22 25.26
 CGLM 1.77 295 eP 22 03.14 -1.3
 CRP 1.82 293 eP 22 03.98 -1.3
 RDT 1.83 271 eP 22 03.59 -1.8
 ES 22 26.41
 NCG 1.87 297 iP 22 04.56 -1.4
 CKL 1.88 290 eP 22 04.54 -1.6
 ES 22 28.59
 BGL 1.93 292 eP 22 05.20 -1.5
 TOA 1.94 38 eP 22 05.92 -1.1
 SKT 1.95 317 eP 22 05.29 -1.8
 CUT 1.97 338 eP 22 05.82 -1.4
 REF 1.98 269 eP 22 05.91 -1.7
 RAGM 2.00 94 eP 22 03.99 -3.8
 RDN 2.01 270 eP 22 06.01 -2.0

RSO 2.01 268 eP 22 06.25 -1.8
 RS2 2.01 268 eP 22 06.50 -1.6
 NCT 2.09 271 eP 22 07.35 -1.8
 TZL 2.15 46 eP 22 06.11 -3.7
 HMT 2.21 95 eP 22 08.01 -2.8
 INE 2.24 258 iP 22 09.09 -2.2
 INW 2.27 259 eP 22 09.64 -2.1
 SDG 2.46 36 eP 22 14.35 0.0
 GLB 2.53 68 eP 22 13.60 -1.7
 TGL 2.89 84 eP 22 17.52 -3.1
 WAX 2.89 90 iP 22 17.50 -3.1
 BALM 3.14 79 iP 22 21.67 -2.4
 YAH 3.45 91 eP 22 25.14 -3.4

48 obs. associated

NOV 14, 1990 20h 30m 13.65± 0.53s
 42.910 N ± 5.7km 3.823 W ± 5.5km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)
 ML 3.7 (LDG). mbLg 3.5 (MDD).
 Felt (III) at Sedono.

ECRI 1.01 107 iPg 30 35.30 2.5
 ESg 30 49.20
 GUD 2.28 186 ePn 30 50.70 -1.3
 ERUA 2.50 259 ePn 30 56.10 1.0
 ESn 31 25.00
 EMON 2.62 283 ePn 30 58.50 1.7
 ESn 31 28.80
 TOL 3.03 183 e(Pb) 31 11.00 8.4X
 iPg 31 13.50
 iSn 31 34.50
 eSb 31 40.00
 iSg 31 48.00
 EPF 3.06 86 Pn 31 05.10 2.1
 Sn 31 39.80
 EPLA 3.31 212 ePn 31 04.90 -1.7
 eSn 31 41.60
 EROO 3.79 122 ePn 31 12.50 -0.8
 eSn 31 55.60
 LFF 3.87 57 Pn 31 15.80 1.3
 Sn 31 58.30
 ECHE 3.95 146 ePg 31 35.50 19.8X
 ESg 32 18.00
 LPO 4.04 62 Pn 31 17.20 0.4
 Sn 32 02.20
 EVIA 4.38 166 ePg 31 42.00 20.1X
 ESg 32 30.60
 MFF 4.53 34 Pn 31 24.60 0.9
 Sn 32 14.40
 RJF 4.53 56 Pn 31 24.00 0.2
 Sn 32 13.60
 CAF 4.71 63 Pn 31 26.00 -0.4
 Sn 32 17.20
 EBAN 4.74 180 ePg 31 49.60 22.7X
 ESg 32 40.60
 ETER 4.97 95 ePn 31 30.60 0.6
 LSF 5.08 47 Pn 31 31.60 0.0
 Sn 32 27.80
 TCF 5.47 50 Pn 31 36.60 -0.6
 Sn 32 37.00
 LPF 5.48 20 Pn 31 38.00 0.7
 MAF 5.64 52 Pn 31 38.40 -1.1
 Sn 32 39.40
 GRR 5.86 20 Pn 31 42.40 -0.1
 Sn 32 45.40
 BGF 5.99 50 Pn 31 44.20 -0.2
 Sn 32 49.70
 LDF 6.24 23 Pn 31 47.80 -0.2
 Sn 32 54.00
 FLN 6.30 21 Pn 31 48.20 -0.6
 AVF 6.41 50 Pn 31 50.00 -0.4
 SMF 6.61 53 Pn 31 52.00 -1.2
 SSF 6.65 49 Pn 31 53.00 -0.8
 Sn 33 03.00
 LBF 6.87 51 Pn 31 56.20 -0.7
 LOR 6.97 49 Pn 31 57.00 -1.2

S.D. = 1.1 on 26 of 30 obs.

* NOV 14, 1990 21h 02m 32.02± 0.83s
 25.752 N ± 17.8km 95.783 E ± 9.5km
 DEPTH = 100.0km (geophysicist)

BURMA-INDIA BORDER REGION (294)

KMI 6.32 94 eP 04 04.50 0.0
 CHG 7.50 156 eP 04 20.50 0.0
 GUN 9.10 286 P 04 43.76 1.1

PKI 9.46 283 P 04 47.08 -0.3
 KKN 9.60 285 P 04 49.04 -0.3
 GKN 10.20 285 P 04 56.76 -0.5
 S.D. = 0.7 on 6 of 6 obs.

NOV 14, 1990 21h 08m 41.40± 0.42s
 15.590 N ± 6.7km 147.753 E ± 7.0km
 DEPTH = 30.2km (2 depth phases)
 4.9mb (17 obs.)

MARIANA ISLANDS REGION (215)

GUMO 3.43 235 eP 09 34.50 0.4
 ES 10 16.30
 PJG 3.43 235 eP 09 34.00 -0.1
 CHJJ 21.82 341 eP 13 32.90 -0.2
 MAT 22.53 340 (P) 13 40.00 -0.1
 1.0s 20.00nm 4.5mb
 MTMJ 22.71 339 eP 13 41.90 -0.1
 NIJJ 22.92 342 eP 13 44.50 0.6
 YAMJ 23.50 345 P 13 51.00 1.4
 OFUJ 24.00 348 eP 13 55.00 0.6
 SSE 28.76 307 Pd 14 37.00 -1.6
 0.8s 9.00nm 4.5mb
 WHN 33.99 302 eP 15 25.00 0.3
 BJI 36.73 318 eP 15 47.00 -0.8
 1.5s 39.00nm 5.1mb
 WB5 37.62 201 eP 15 55.10 -0.4
 WRA 37.69 201 P 16 06.00 9.9X
 0.9s 6.00nm 4.4mb
 XAN 39.45 305 Pd 16 10.60 -0.2
 GYA 39.70 293 P 16 14.20 1.2
 CD2 42.91 299 P 16 39.70 0.4
 LZH 44.03 306 iPd 16 49.50 1.1
 2.0s 85.00nm 5.2mb
 CHG 46.63 281 iPd 17 09.80 0.7
 0.9s 10.50nm 4.8mb
 BDT 46.70 279 eP 17 10.00 0.4
 GTA 48.01 309 iPd 17 20.00 0.1
 1.0s 10.00nm 4.8mb
 Pcp 18 48.40
 LSA 53.62 296 eP 18 03.80 0.8
 WMO 57.83 312 P 18 33.50 0.8
 GUN 58.24 293 P 18 35.92 -0.2
 0.9s 38.00nm 5.5mb
 PKI 58.67 293 P 18 38.34 -0.7
 0.9s 18.00nm 5.2mb
 KKN 58.77 293 P 18 38.94 -0.7
 0.8s 21.00nm 5.3mb
 DMN 58.93 293 P 18 40.26 -0.6
 GKN 59.33 294 P 18 43.04 -0.5
 1.0s 64.00nm 5.7mb
 HYB 66.04 282 iPc 19 27.80 -0.2
 1.0s 25.00nm 5.3mb
 GBA 67.79 279 Pd 19 38.10 -1.0
 0.6s 4.90nm 4.8mb
 KOD 68.46 275 eP 19 44.10 0.4
 QUE 74.52 298 eP 20 19.90 0.3
 MBC 75.66 14 eP 20 25.00 0.0
 1.0s 7.00nm 4.6mb
 Pp 20 35.00 32km
 MAIO 79.57 305 eP 20 49.00 1.5
 YKA 79.80 28 eP 20 47.40 -0.7
 0.8s 2.10nm 4.2mb
 TNP 84.41 52 P 21 13.00 0.2
 pP 21 22.00 28km
 SBB 84.83 56 eP 21 15.00 0.2
 GSC 85.48 55 eP 21 19.00 1.0
 SOD 86.93 341 eP 21 23.00 -1.5
 HFS 95.98 339 eP 22 04.20 -2.5
 0.5s 1.00nm 4.5mb
 N82 96.15 340 P 22 05.80 -1.8
 0.8s 2.50nm 4.7mb
 KIC 145.10 307 PKPd 28 18.16 -0.4
 1.0s 39.00nm
 TIC 145.14 307 PKPd 28 18.18 -0.4
 LIC 145.41 307 PKPd 28 19.06 0.0
 1.0s 51.50nm
 ZOBO 145.52 96 PKP 28 20.00 0.1
 LPB 145.56 97 ePKP 28 16.00 -3.8X
 CNCB 145.69 97 PKP 28 22.00 1.9
 SIV 152.27 95 PKP 28 36.00 6.9X
 S.D. = 0.9 on 44 of 47 obs.

* NOV 14, 1990 21h 17m 19.53± 1.19s
 16.171 N ± 14.4km 148.028 E ± 20.2km
 DEPTH = 33.0km (normal)
 4.7mb (1 obs.)

14d 21h

MARIANA ISLANDS REGION (215)

GUMO 3.99 230 eP 18 20.30 0.3
 18 55.50
 PJG 3.99 230 eP 18 19.90 -0.1
 MAT 22.09 339 (P) 22 19.00 5.5X
 LZH 43.91 306 Pd 25 27.00 1.9
 2.0s 25.00nm 4.7mb
 GUN 58.25 293 P 27 13.60 -0.3
 PKI 58.68 293 P 27 16.40 -0.5
 KKN 58.79 293 P 27 17.00 -0.5
 DMN 58.95 293 P 27 18.40 -0.3
 GKN 59.35 293 P 27 20.60 -0.7
 KIC 144.96 308 PKP 36 56.00 0.0
 TIC 144.99 308 PKP 36 56.00 0.0
 LIC 145.27 308 PKP 36 56.80 0.3
 S.D. = 0.8 on 11 of 12 obs.

& NOV 14, 1990 22h 14m 59.70s
 31.940 N 116.240 W
 DEPTH = 6.0km (geophysicist)
 BAJA CALIFORNIA (48)
 <PAS-P>. ML 3.9 (PAS).

IKP 0.72 9 iPc 15 13.20 -0.8
 15 22.40
 BAR 0.82 334 iPd 15 15.00 -1.0
 15 24.50
 PLM 1.50 340 iPd 15 26.60 -0.8
 GLA 1.63 47 eP 15 27.00 -2.1
 PEC 2.09 339 eP 15 35.60 -0.2
 TPC 2.17 4 iPd 15 36.10 -0.8
 SCI 2.21 299 eP 15 36.30 -1.1
 CIS 2.34 309 eP 15 37.30 -2.0
 ABL 3.83 320 eP 15 59.50 -1.2
 BCH 4.56 316 eP 16 10.00 -0.9
 CMB 6.97 332 e(P) 16 50.00 5.2
 11 obs. associated

NOV 14, 1990 22h 27m 58.65±0.54s
 38.910 N ± 5.1km 21.767 E ± 4.5km
 DEPTH = 10.0km (geophysicist)
 3.5mb (1 obs.)
 GREECE (364)
 ML 3.2 (ATH).

EVR 0.03 78 ePg 28 00.70 -0.1
 AGG 0.45 75 iPd 28 08.14 0.2
 28 16.60
 VLS 1.18 232 ePb 28 19.00 -1.6
 NEO 1.20 70 ePn 28 21.70 0.7
 IGT 1.28 300 ePd 28 21.60 -0.7
 28 42.36
 LIT 1.31 25 ePc 28 23.12 0.2
 28 43.88
 KZN 1.40 0 ePb 28 23.60 -0.6
 KEK 1.72 298 ePg 28 31.40 2.5
 ATH 1.79 121 ePn 28 31.50 1.6
 PAIG 1.80 55 iPd 28 29.53 -0.4
 28 52.36
 FNA 1.90 351 iPd 28 31.89 0.5
 29 01.60
 THE 1.95 28 ePd 28 31.84 -0.3
 PLG 1.95 41 ePn 28 31.40 -0.8
 GRG 2.10 13 ePd 28 34.20 -0.1
 SOH 2.27 32 ePd 28 36.60 -0.2
 29 05.92
 OHR 2.32 342 ePn 28 39.20 1.7
 VLI 2.38 157 ePn 28 38.40 0.1
 KNT 2.41 21 iPd 28 39.14 0.4
 VAY 2.49 14 ePn 28 39.80 0.0
 SRS 2.61 32 ePc 28 41.16 -0.5
 SKO 3.07 355 ePn 28 48.00 0.0
 28 51.20
 29 27.00
 ALN 3.84 58 ePd 28 57.76 -1.3
 NB2 23.11 347 P 33 04.00 -1.4
 0.5s 0.80nm 3.5mb
 S.D. = 1.0 on 23 of 23 obs.

? NOV 14, 1990 22h 51m 07.92±4.11s
 7.382 S ± 34.5km 128.503 E ± 23.6km
 DEPTH = 140.1 ± 44.1 km
 4.7mb (1 obs.)
 BANDA SEA (280)

KUG 5.59 240 eP 52 29.00 -1.0

MTN 6.01 155 eS 53 35.00
 0.2s 200.00nm 6.0mb X
 KNA 8.32 178 iPd 53 08.40 1.5
 0.3s 24.00nm 5.4mb X
 WB5 13.66 156 eP 54 15.00 -2.1
 54 35.00
 54 40.00
 OIS 16.94 142 eP 54 57.00 -1.1
 57 52.00
 ASPA 17.00 163 iPd 54 59.70 0.9
 0.4s 15.90nm 4.7mb
 58 02.90
 GUN 54.10 312 P 00 21.40 0.4
 PKI 54.26 312 P 00 22.40 0.2
 KKN 54.47 312 P 00 23.40 -0.2
 DMN 54.50 312 P 00 24.40 0.5
 GKN 55.06 312 P 00 27.40 -0.4
 S.D. = 1.3 on 11 of 11 obs.

& NOV 14, 1990 22h 57m 55.98s
 59.921 N 151.899 W
 DEPTH = 75.1km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

HOM 0.29 154 eP 58 07.61 -0.2
 58 16.97
 NNL 0.33 68 iP 58 08.52 0.5
 XLV 0.48 169 eP 58 08.29 -0.9
 58 18.34
 CNPM 0.52 139 iP 58 09.15 -0.5
 58 19.38
 BRLK 0.54 107 iP 58 09.29 -0.5
 INE 0.60 284 eP 58 09.36 -1.3
 INW 0.64 284 eP 58 10.01 -0.9
 58 21.18
 RSO 0.69 322 iP 58 11.01 -0.6
 58 22.47
 RS2 0.69 322 iP 58 11.08 -0.5
 REF 0.70 325 iP 58 11.03 -0.6
 58 22.57
 RDT 0.70 339 iP 58 10.81 -0.8
 58 22.42
 OPT 0.72 249 eP 58 10.97 -0.8
 58 22.60
 RDN 0.73 324 iP 58 11.30 -0.7
 58 22.86
 NCT 0.82 322 iP 58 12.34 -0.6
 58 25.45
 NKA 0.89 21 iP 58 14.90 1.3
 AUE 0.94 234 eP 58 13.71 -0.5
 AUP 0.95 235 eP 58 14.12 -0.4
 AGU 0.96 235 eP 58 13.68 -1.0
 AUI 0.97 234 eP 58 13.35 -1.3
 58 27.13
 SLKM 1.02 54 eP 58 14.39 -1.0
 PDB 1.17 264 iP 58 15.72 -1.4
 58 31.01
 SEW 1.24 80 eP 58 17.26 -0.8
 58 34.89
 SPU 1.27 357 iP 58 18.05 -0.4
 58 35.84
 CKL 1.30 351 iP 58 18.62 -0.3
 CDD 1.34 223 iP 58 18.39 -1.0
 58 35.88
 SYI 1.34 191 eP 58 18.52 -0.8
 58 35.65
 CRP 1.36 355 iP 58 19.76 0.0
 BGL 1.37 350 iP 58 19.72 -0.2
 CGLM 1.39 358 iP 58 20.03 -0.1
 58 39.03
 MCNL 1.44 240 iP 58 19.22 -1.6
 58 36.54
 NCG 1.49 355 iP 58 21.50 0.0
 58 41.83
 SUA 1.65 20 iP 58 23.54 -0.1
 58 45.17
 PMS 1.76 40 eP 58 24.88 -0.2
 PWA 2.00 29 eP 58 28.30 0.0
 58 53.21
 LTI 2.04 85 iP 58 27.26 -1.5
 SKT 2.07 5 eP 58 29.01 -0.3
 KNIM 2.13 77 iP 58 28.25 -1.8
 58 52.48
 MTU 2.14 86 eP 58 28.58 -1.6
 58 54.62

PLRM 2.16 38 eP 58 29.54 -0.9
 PMR 2.16 38 iPd 58 29.50 -1.0
 SVW 2.19 305 iPd 58 29.30 -1.7
 KDC 2.20 188 eP 58 29.20 -1.8
 KNK 2.26 47 eP 58 30.81 -1.1
 GHO 2.36 37 eP 58 32.61 -0.7
 GLI 2.57 66 eP 58 33.87 -2.3
 CUT 2.61 17 eP 58 36.27 -0.5
 VZW 2.88 64 eP 58 38.29 -2.3
 SCM 2.95 47 eP 58 40.69 -0.8
 VLZ 3.01 64 eP 58 40.71 -1.5
 HUR 3.25 19 eP 58 46.02 0.3
 KLU 3.33 59 iP 58 45.12 -1.8
 TOA 3.55 49 ePc 58 49.40 -0.4
 TTA 3.61 329 iPd 58 49.00 -1.7
 TRF 3.63 12 eP 58 49.42 -1.6
 RND 3.79 21 eP 58 52.37 -0.8
 MCK 4.07 19 eP 58 56.93 -0.3
 GLB 4.26 66 eP 58 57.21 -2.6
 PAX 4.35 42 eP 59 00.15 -0.9
 TGL 4.58 76 eP 59 02.21 -2.2
 BALM 4.86 73 eP 59 05.48 -2.8
 WRH 4.90 20 eP 59 06.86 -1.9
 HDA 5.06 25 eP 59 09.97 -1.0
 YAH 5.10 81 eP 59 09.19 -2.5
 CCB 5.11 20 eP 59 09.54 -2.1
 FBA 5.35 19 iPc 59 13.20 -1.8
 GLM 5.50 20 eP 59 15.28 -1.9
 IMA 6.22 353 iPd 59 26.00 -1.3
 67 obs. associated

& NOV 14, 1990 23h 36m 29.26s
 61.301 N 149.429 W
 DEPTH = 36.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

PMS 0.09 228 iP 36 35.27 -0.2
 PLRM 0.33 26 iP 36 36.95 -0.6
 36 42.95
 PMR 0.33 26 iPd 36 36.80 -0.7
 PWA 0.41 329 iP 36 38.54 -0.1
 KNK 0.48 76 iP 36 38.61 -1.1
 GHO 0.53 27 iP 36 39.78 -0.6
 36 48.42
 SUA 0.65 285 iP 36 41.76 -0.4
 SLKM 0.89 206 eP 36 44.73 -0.6
 NKA 1.04 238 eP 36 49.17 1.6
 SCM 1.14 61 iP 36 48.50 -0.5
 CUT 1.18 341 eP 36 49.59 0.1
 SEW 1.20 180 eP 36 49.55 -0.2
 GLI 1.21 109 eP 36 48.80 -1.2
 37 04.61
 SKT 1.21 305 iP 36 50.21 0.2
 CGLM 1.24 271 iP 36 50.76 0.2
 KNIM 1.27 138 iP 36 49.78 -1.0
 37 06.77
 SPU 1.28 266 iP 36 50.72 -0.2
 37 08.00
 CRP 1.32 270 eP 36 51.93 0.3
 NCG 1.32 276 iP 36 52.12 0.5
 CKL 1.41 267 eP 36 52.60 -0.4
 VZW 1.41 99 eP 36 52.27 -0.7
 BGL 1.43 270 eP 36 53.61 0.4
 LTI 1.48 148 eP 36 52.48 -1.4
 VLZ 1.51 95 eP 36 53.87 -0.4
 37 13.05
 NNL 1.56 217 eP 36 55.94 0.8
 RDT 1.63 245 eP 36 56.29 0.2
 37 17.54
 HUR 1.69 357 eP 36 57.93 1.0
 37 18.95
 KLU 1.70 82 iP 36 56.59 -0.6
 37 18.69
 TOA 1.75 61 eP 36 58.57 0.7
 REF 1.80 244 eP 36 58.90 0.3
 37 22.81
 RDN 1.81 246 eP 36 58.80 0.0
 RSO 1.83 244 eP 36 59.53 0.4
 RS2 1.83 244 eP 36 59.58 0.4
 NCT 1.86 248 eP 36 59.80 0.3
 TZL 2.05 67 eP 37 02.77 0.8
 RND 2.13 7 eP 37 03.88 0.7
 INE 2.18 237 eP 37 04.28 0.3
 TRF 2.19 350 eP 37 05.41 1.2
 INW 2.20 237 eP 37 04.90 0.6
 SDG 2.21 55 eP 37 05.15 0.8

PAX 2.50 46 eP 37 09.36 0.8
 GLB 2.71 85 eP 37 12.39 1.0
 PDB 2.80 239 eP 37 13.12 0.5
 TGL 3.26 97 eP 37 19.04 -0.2
 BALM 3.44 91 eP 37 20.45 -1.4
 TTA 3.50 301 eP 37 22.40 -0.2
 FBA 3.69 11 iPd 37 25.90 0.6
 MDM 3.71 8 eP 37 26.02 0.4
 IMA 5.15 340 iPc 37 45.60 -0.4
 49 obs. associated

NOV 15, 1990 01h 32m 55.37±0.39s
 40.022 N ± 3.5km 23.385 E ± 3.4km
 DEPTH = 5.0km (geophysicist)
 GREECE (364)

MD 3.2 (ATH).

PAIG 0.25 113 ePc 33 00.72 0.4
 eS 33 04.24
 PLG 0.35 7 ePb 33 02.60 0.1
 OUR 0.55 56 ePc 33 06.56 0.1
 eS 33 14.56
 THE 0.69 332 iPd 33 08.84 -0.3
 eS 33 19.32
 LIT 0.69 277 ePc 33 09.36 0.2
 eS 33 19.16
 NEO 0.73 190 ePb 33 09.40 -0.5
 SOH 0.80 358 iPc 33 10.66 -0.7
 eS 33 23.08
 SRS 1.10 8 ePc 33 16.32 -0.3
 eS 33 32.72
 KNT 1.20 342 iPc 33 17.85 -0.3
 eS 33 34.88
 GRG 1.20 322 ePd 33 18.10 -0.1
 iS 33 35.85
 KZN 1.27 283 ePb 33 19.10 -0.3
 AGG 1.29 220 ePd 33 19.00 -0.8
 eS 33 39.68
 VAY 1.44 335 iPn 33 22.00 -0.1
 0.3s 242.00nm
 iSn 33 39.00
 iSg 33 42.60
 LR 33 47.00

MMB 1.59 9 ePc 33 24.00 -0.2
 EVR 1.65 228 ePb 33 25.50 0.4
 FNA 1.71 297 iPc 33 25.66 -0.4
 eS 33 50.56
 KKB 1.86 353 iPd 33 28.00 -0.1
 RZN 1.95 31 iPc 33 30.00 0.4
 RDO 1.99 55 ePn 33 28.90 -1.1
 ALN 2.21 66 ePd 33 34.32 1.1
 eS 34 05.20
 KDZ 2.24 43 iP 33 32.00 -1.7
 OHR 2.25 300 ePn 33 45.30 11.4X
 EZN 2.27 94 ePn 33 33.60 -0.5
 PLD 2.31 25 eP 33 38.00 3.4X
 PRK 2.36 108 ePg 33 40.10 4.7X
 IGT 2.40 259 ePc 33 37.52 1.5
 eS 34 07.96
 VTS 2.57 357 iP 33 40.00 1.5
 PGB 2.59 13 eP 33 40.00 1.3
 DIM 2.60 38 eP 33 41.00 2.3
 JMB 3.43 44 eP 34 01.00 10.4X
 PVL 3.51 24 iPd 34 00.00 -1.6
 BZS 5.74 347 ePc 34 32.00 8.7X
 MLR 5.78 18 eP 34 23.50 -0.5

S.D. = 0.9 on 28 of 33 obs.

% NOV 15, 1990 01h 51m 06.05±1.23s
 1.097 S ± 6.5km 78.295 W ± 20.6km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

TUNG 0.35 205 iP 51 13.40 0.0
 S 51 19.20
 VC1 0.47 347 iP+ 51 15.50 -0.2
 S 51 21.00
 QTO 0.92 345 eP 51 24.00 0.1
 GGP 0.96 342 Pd 51 24.80 0.0
 iS 51 37.20
 ANGL 1.03 47 eP 51 39.50 13.8X
 CAYA 1.21 15 P 51 28.80 -0.1
 COTA 1.42 358 P 51 32.70 0.3
 S.D. = 0.2 on 6 of 7 obs.

NOV 15, 1990 02h 16m 42.64±0.92s
 39.874 N ± 7.4km 22.519 E ± 5.7km

DEPTH = 5.0km (geophysicist)
 GREECE (364)

LIT 0.23 354 ePc 16 47.04 -0.2
 eS 16 50.96
 THE 0.83 24 ePc 16 58.82 -0.3
 eS 17 11.64
 PAIG 0.89 86 iPd 17 00.54 0.3
 eS 17 14.00
 GRG 1.08 355 ePc 17 03.56 0.0
 eS 17 19.88
 SOH 1.14 34 ePd 17 04.40 -0.1
 eS 17 20.24
 FNA 1.26 316 ePc 17 07.24 0.7
 eS 17 26.16
 KNT 1.32 13 ePc 17 07.68 0.2
 eS 17 25.80
 VAY 1.45 2 ePn 17 09.50 -0.2
 IGT 1.72 259 ePc 17 13.04 -0.4
 eS 17 44.52
 OHR 1.80 314 ePn 17 18.80 4.2X
 S.D. = 0.4 on 9 of 10 obs.

NOV 15, 1990 02h 34m 32.40±0.12s
 3.908 N ± 3.5km 97.457 E ± 2.8km
 DEPTH = 48.4km (4 depth phases)
 6.0mb (80 obs.) 6.8msz (37 obs.)
 NORTHERN SUMATERA (706)

Ms 6.8 (BRK), 6.7 (PAS).
 Mo=1.6*10**19 Nm (PPT). At least
 1 person killed, 32 injured and
 estimated 2.1 million U.S.
 dollars damage caused in the
 Blangkejeren-Kutacane-Medon
 area. Landslides occurred in the
 epicentral area. Felt at Banda
 Aceh and Lhokseumawe. Also felt
 at Ipoh, Keland, Kuala Lumpur,
 Pinang and Taiping, Malaysia and
 Bangkok and Phuket, Thailand.
 Complex event, observed on
 broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=220 Dip=85 Slip= 15
 NP2: 129 75 175
 Principal Axes:

T P1g=14 Azm= 85
 P 7 353
 Comment: The focal mechanism is
 poorly controlled and
 corresponds to strike-slip
 faulting with a small reverse
 component. The preferred fault
 plane is not determined.

RADIATED ENERGY
 No. of sta: 6 Focal mech. M
 Energy 1.1±0.3*10**14 Nm

MOMENT TENSOR SOLUTION
 Dep 26 No. of sta: 14
 Moment Tensor: Scale 10**18 Nm
 Mrr=0.65 Mtt=-7.82
 Mff=7.17 Mrt=-1.36
 Mrf=-3.02 Mtf=-2.30

Principal axes:
 T Vol= 8.53 P1g=20 Azm= 84
 N 0.01 67 231
 P -8.53 12 349

Best Double Couple: Mo=8.5*10**18
 NP1:Strike=125 Dip=67 Slip= 174
 NP2: 218 84 23
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 21S, 58C M.W.: 12S, 35C
 Centroid Location:
 Origin Time 02:34:39.2 0.2
 Lat 4.02N 0.02 Lon 97.52E 0.02
 Dep 15.0 FIX Half-duration 10.0

Moment Tensor: Scale 10**19 Nm
 Mrr=0.10 0.02 Mtt=-1.03 0.01
 Mff=0.94 0.01 Mrt=-0.26 0.08
 Mrf=-0.38 0.08 Mtf=-0.49 0.01
 Principal Axes:
 T Val= 1.15 P1g=17 Azm= 79
 N 0.09 67 217
 P -1.24 15 345

Best Double Couple: Mo=1.2*10**19

NP1:Strike=122 Dip=67 Slip= 178
 NP2: 212 88 23

TSI 1.18 110 ePc 34 50.50 -2.2
 IPM 3.62 79 iPc 35 26.20 -1.3
 iS 36 33.00
 e 38 41.50
 KLM 4.26 101 eP 35 34.00 -2.4
 e 35 53.00
 eS 36 41.00
 SNG 4.52 44 eP 35 39.60 -0.5
 KGM 6.15 108 ePd 36 01.50 -1.5
 i 36 32.60
 i 36 55.00
 iS 37 43.70
 NNT 8.92 14 eP 36 34.20 -7.3X
 NST 11.98 13 eP 37 24.50 1.2
 eS 40 53.00
 BDT 13.34 6 eP 37 42.00 0.8
 eS 41 41.50
 CHG 14.89 5 iPd 38 03.50 2.0
 eS 41 04.00
 KKM 18.81 83 ePc 38 52.00 1.1
 1.0s 339.30nm 5.5mb
 e 39 08.00
 TRT 19.04 127 iPd 38 53.40 -0.1
 1.4s 1267.60nm 6.0mb
 19.30 38 Pc 38 58.00 1.6
 8.0s *****nm 6.3mb X
 BKB2 20.09 104 iPc 39 05.90 1.0
 1.0s 665.40nm 5.9mb
 KOD 20.80 289 iPd 39 14.00 1.5
 iS 42 56.00
 KMI 21.70 13 iP- 39 25.00 3.6X
 GBA 21.99 297 Pd 39 25.20 1.1
 0.9s 338.80nm 5.8mb
 HYB 22.88 307 iPd 39 33.00 0.0
 0.8s 792.30nm 6.2mb
 e 40 10.00 194kmX
 GYA 24.09 21 P 39 47.00 2.2
 E 13s 340.00um
 HKC 24.43 40 iP 39 52.30 4.4X
 iS 44 16.00
 GZH 24.49 37 iPc 39 51.00 2.6
 Z 20s 166.00um 6.5msz
 OCP 25.60 64 eP 39 57.00 -2.0
 BAG 25.89 60 eP 40 02.00 0.1
 eS 44 33.00
 PKI 26.19 335 P 40 03.22 -1.6
 GUN 26.30 336 P 40 04.62 -1.2
 LSA 26.34 348 eP 40 06.30 0.0
 pP 40 16.00 35kmX
 PP 40 47.00
 S 44 33.00
 ScP 47 07.00
 DMN 26.35 335 P 40 05.98 -0.2
 0.7s 113.00nm 5.6mb
 KKN 26.44 335 P 40 05.36 -1.6
 GKN 26.90 334 P 40 09.54 -1.5
 POO 27.28 304 iP 40 14.20 -0.3
 0.9s 126.05nm 5.5mb
 iS 44 56.00
 CD2 27.51 12 eP 40 16.40 -0.1
 Z 16s 181.00um 6.7mszX
 E 20s 454.00um
 DAV 28.16 82 eP 40 24.60 2.1
 BOM 28.31 304 iP 40 23.50 -0.3
 iS 45 10.50
 QZH 29.17 42 Pc 40 32.00 0.6
 Z 20s 137.00um 6.6msz
 N 18s 413.00um
 E 18s 458.00um
 KUG 29.54 118 eP 40 22.70 -12.2X
 0.8s 559.20nm
 WHN 30.92 29 Pc 40 48.00 1.1
 8.0s 2900.00nm 6.1mb X
 N 14s 380.00um
 E 14s 363.00um
 NDI 31.26 324 iPd 40 47.50 -2.4
 1.0s 55.00nm 5.3mb
 ePP 41 52.00
 iS 45 52.00
 ANP 31.35 45 iPd 40 50.80 0.0
 iS 46 02.00
 XAN 31.82 18 Pc 40 54.70 -0.2
 0.7s 100.00nm 5.7mb
 LZH 32.56 10 ePc 41 04.37 3.0X

15d 02h

			eS	46	22.73				PP	44	48.00				eS	53	29.00			
			e	46	30.74				eS	49	44.00				eS	45	00.31	-1.3		
MBL	33.19	140	iPd	41	06.10	-0.8	MA10	47.52	318	iPc+	43	04.20	-0.8	QTRJ	63.69	303	Pd	45	00.94	-1.3
NJ2	34.45	33	Pc	41	18.40	0.8		1.5s	78.83nm		5.5mb		BADA	64.01	300	eP	45	03.70	0.1	
	7.0s	2100	00nm			6.2mb X			eS	50	02.00		MASJ	64.02	303	P	45	02.09	-1.7	
N	21s	272.00um					GUMO	47.75	75	P	43	05.00	-2.0	MKRJ	64.05	303	Pc	45	03.25	-0.7
E	23s	219.00um					PJG	47.75	75	eP	43	05.00	-2.0	DSI	64.27	303	eP	45	05.00	-0.3
			pP	41	31.00	48km	GUA	47.79	75	eP	43	05.00	-2.3	PRNI	64.35	302	eP	45	06.00	0.2
			PP	42	39.00			0.7s	115.07nm		6.0mb		BHL	64.55	306	P	45	08.00	0.8	
SSE	35.08	37	P	41	20.00	-3.0X	Z	22s	79.79um		6.6Msz				S	53	48.00			
	6.0s	1400.00nm				6.1mb X			eS	49	04.50		RMN	64.70	302	eP	45	08.00	-0.2	
Z	20s	49.70um				6.3Msz	QIS	47.97	122	iPc	43	07.10	-1.6	AKSR	65.05	294	iPd	45	11.50	1.1
N	16s	525.00um						0.4s	97.00nm		6.2mb		AKRL	65.34	294	iPd	45	15.00	2.8X	
E	16s	410.00um					HIA	49.01	19	ePd	43	10.56	-5.7X	AGMR	65.48	294	iPc	45	19.00	5.9X
			PP	42	36.00				iS	50	20.69		NRI	65.69	356	iPd	45	11.00	-2.6	
GTA	35.40	3	Pd	41	25.80	-0.1	MDJ	49.40	30	Pc	43	21.00	1.7	KVT	66.09	313	iP	45	16.00	-0.9
	1.4s	280.00nm				6.0mb		9.0s	3700.00nm		6.4mb X		CSS	66.66	306	eP	45	19.30	-1.3	
Z	24s	186.00um				6.8MszX	Z	25s	40.20um		6.3MszX		SONG	66.85	251	eP	45	26.10	4.0X	
E	14s	179.00um					N	17s	226.00um			KOT	66.98	301	eP	45	21.50	-1.2		
			PP	42	50.00		E	20s	394.00um			HLW	67.39	301	eP	45	25.70	0.4		
TIY	36.33	20	Pd	41	34.30	0.7	YYYY	49.47	102	eP	43	20.00	-0.5			eS	54	21.00		
	9.0s	4200.00nm				6.4mb X	MAJO	49.55	44	ePc	43	17.45	-3.2X	PPCY	67.43	306	eP	45	26.00	0.6
Z	18s	158.00um				6.8Msz			eS	50	29.64		KAS	67.83	313	eP	45	26.50	-1.4	
E	16s	458.00um							eSS	54	24.29		ANTO	68.17	311	iPd	45	28.26	-1.8	
			S	47	10.00		MAT	49.55	44	eP	43	20.00	-0.6	BBTK	68.19	311	iPd	45	29.00	-1.2
MEKA	36.56	147	iPd	41	36.00	0.4		1.3s	36.54nm		5.2mb		BCK	69.34	309	iP	45	36.00	-1.3	
KNA	36.63	123	eP	41	33.20	-3.0X			eS	50	28.00		ELL	69.73	308	iP	45	38.50	-1.3	
	0.8s	146.00nm				6.0mb	SHI	49.59	306	iPd	43	20.00	-1.3	PET	69.85	34	eP	45	42.00	2.0
TIA	36.91	27	P	41	38.50	0.1	BBU	50.13	301	(P)	43	25.10	-0.1	KSL	69.88	307	eP	45	39.40	-1.1
N	12s	259.00um						0.9s	1135.00nm		6.9mb		ALT	70.02	310	iP	45	40.00	-1.5	
MTN	37.36	117	eP	41	41.10	-1.3	DHR	50.43	301	eP	43	27.50	0.0	KRI	70.07	251	eP	45	31.40	-10.7X
	0.3s	49.00nm				5.9mb	LAT	50.56	102	eP	43	33.00	4.4X	GPA	70.12	311	iP	45	40.00	-2.0
MRWA	37.44	153	iPd	41	43.90	1.0	PMG	51.26	105	eP	43	33.00	-0.9	EYL	70.29	312	iP	45	41.60	-1.5
	0.7s	128.00nm				6.0mb	TEH	52.95	313	eP	43	48.00	1.5	OBN	70.45	328	ePd	45	42.00	-1.6
BTO	38.24	16	P	41	52.00	2.3	RYD	53.06	298	iPd	43	47.00	-0.4	HRT	70.71	312	iP	45	43.60	-2.0
	9.0s	5500.00nm				6.5mb X			iS	51	18.00		IZI	70.76	311	eP	45	44.80	-1.1	
N	15s	166.00um					CTA	53.52	118	iPc+	43	49.20	-1.5	GBZT	70.87	312	iPd	45	44.50	-2.0
E	15s	168.00um						1.7s	1219.23nm		6.7mb		YLV	70.88	312	iP	45	45.60	-1.1	
HHC	38.91	17	iPc	41	56.80	1.5			iS	51	04.00		ARG	71.06	307	eP	45	47.80	0.1	
	5.0s	5200.00nm				6.6mb X	CTAO	53.52	118	iPc	43	49.12	-1.6	ISK	71.21	312	iP	45	47.60	-0.9
Z	18s	206.00um				7.0Msz	KMSA	54.04	292	eP	43	53.70	-0.9	BUL	71.63	247	eP	45	51.50	-0.1
			pP	42	08.00	40km	QLP	54.43	127	iPc	43	56.70	-0.6	BNT	71.93	311	iP	45	51.00	-1.9
QUE	38.91	316	iP-	41	53.60	-1.9	ARO	54.57	281	iP+	44	01.00	2.4	EDC	71.97	311	eP	45	52.30	-0.8
			ePP	43	37.50		ADE	54.73	138	iPc-	43	58.70	-0.8	IZM	72.09	309	iP	45	52.90	-1.0
			e	47	56.00			1.0s	470.00nm		6.5mb		DZM	72.15	115	iPc	45	53.90	-0.7	
			eS	48	49.00		RAB	55.26	98	eP	44	02.00	-1.6	SMG	72.31	308	eP	45	54.50	-0.6
BAL	38.94	153	eP	41	56.00	0.5			iS	51	48.00		PSN	72.38	315	iPc	45	54.00	-1.4	
	1.0s	263.00nm				6.0mb	KER	55.62	309	ePc	44	04.50	-1.5	KGT	72.41	311	iP	45	55.10	-0.6
BJI	39.75	23	iPc	42	05.83	3.7X	AFIF	55.96	296	eP	44	10.00	1.4	EVA	72.58	241	iPd	45	59.00	1.8
MUN	39.90	155	iPc	42	04.20	0.8	QASM	56.09	299	eP	44	08.30	-1.2		0.6s	106.67nm		6.0mb		
	1.0s	1080.00nm				6.6mb	UQSK	57.05	298	eP	44	16.50	0.1	TLB	72.67	316	eP	45	58.00	0.9
	20s	126.50um					TAB	57.60	313	eP	44	18.00	-2.2	NPS	72.94	306	eP	45	58.40	-0.5
E	20s	126.50um					CMS	57.92	131	iPc	44	21.50	-0.8	PRK	72.99	310	eP	45	58.20	-0.9
KLB	40.25	153	iPc	42	06.60	0.3		1.2s	512.00nm		6.5mb		EZN	73.04	310	iP	45	58.20	-1.2	
	0.7s	255.00nm				6.1mb	YSS	58.00	35	P	44	24.00	1.5	PVC	73.06	110	iPc	46	04.50	4.7X
KSH	40.39	334	P	42	04.00	-3.6X	RMQ	58.06	124	eP	44	21.00	-2.3	SLR	73.10	242	ePd	46	00.34	0.2
Z	18s	113.00um				6.8Msz		1.0s	510.00nm		6.6mb		APE	73.25	307	eP	46	00.00	-0.7	
E	18s	117.00um					AAE	58.49	278	eP	44	30.00	3.1X	PPE	73.29	317	eP	46	01.00	0.3
			PP	43	41.00		BFD	58.54	138	eP	44	28.00	1.5	JMB	73.30	313	iPd	46	00.00	-0.8
WMO	40.67	349	ePd	42	09.81	0.0			i	44	33.90	19kmX	ALN	73.43	311	ePd	46	00.34	-1.2	
			ePP	43	49.04		NPA	60.64	250	iPc	44	45.20	3.9X	IAS	73.54	318	eP	46	03.00	0.9
			iS	48	23.17			1.5s	690.00nm		6.6mb		ISR	73.81	316	eP	46	05.00	1.1	
			eSS	51	07.00		TOO	60.72	137	ePd	44	42.00	0.5	VR1	73.83	317	ePd	46	04.00	0.1
WARB	41.15	138	eP	42	13.50	-0.3			i	44	48.80	22kmX	RDO	73.85	312	eP	46	02.80	-1.2	
DL2	41.19	29	P	42	15.20	1.3			i	45	06.40		BUC	73.99	315	iPd	46	04.00	-0.8	
N	20s	196.00um					NAI	60.83	266	iPd	44	46.00	3.1X	DIM	73.99	313	iPd	46	04.00	-0.9
E	20s	350.00um					BWA	61.23	133	iPc	44	45.00	0.0	KDZ	74.02	312	iPc	46	04.00	-1.0
			S	48	28.00		BRS	61.72	124	iPd	44	47.20	-1.3	VAM	74.11	306	eP	46	05.40	-0.3
COOL	41.33	148	eP	42	14.00	-1.2			i	45	57.70	319kmX	CVO	74.20	317	ePc	46	07.00	0.9	
	0.3s	5.00nm				4.7mb X			iS	53	11.50		MLR	74.30	316	ePd	46	06.00	-0.8	
RKG	42.04	155	eP	42	26.00	5.0X	CAN	62.06	134	iPc	44	49.70	-1.0	PVL	74.33	314	iPd	46	07.00	0.2
WB5	43.29	124	eP	42	29.90	-1.5	COO	62.21	128	eP	44	52.00	0.3	RZN	74.54	312	iPd	46	07.00	-1.3
			eS	48	18.00			1.0s	171.00nm		6.1mb		PLD	74.61	313	iP	46	08.00	-0.5	
			e	14	07.00		WAJH	62.24	297	eP	44	52.30	0.4	ATH	74.80	308	eP	46	10.00	0.4
JAY	43.69	98	ePd	42	34.00	-0.8	CNB	62.33	133	ePd	44	52.50	0.1	MTUR	74.86	316	eP	46	10.50	0.5
SNY	44.40	28	iPc	42	38.00	-2.0			i	44	56.10	12kmX	CMP	74.89	316	ePd	46	13.00	3.0X	
N	21s	142.00um					YAK	62.76	16	iPd	44	53.00	-1.8	PAIG	75.07	310	ePc	46	10.02	-1.1
E	21s	233.00um					RIV	62.99	131	eP	45	00.00	3.3X	PGB	75.07	313	iP	46	10.00	-1.2
			PP	44	21.00		Z	22s	10.07um		5.9Msz		MMB	75.26	312	ePd	46	11.00	-1.3	
			iS	49	06.00				iS	53	24.00		VLI	75.27	307	eP	46	12.40	0.0	
SHK	44.68	43	eP	42	41.50	-0.9			e	59	12.00		SRS	75.29	311	ePc	46	10.		

THE	75.70	311	ePd	46	13.14	-1.6
VTS	75.78	313	iPd	46	15.00	-0.4
KNT	75.82	311	ePd	46	13.98	-1.4
AGG	76.00	309	ePc	46	14.38	-2.1
LIT	76.00	310	ePd	46	14.70	-1.8
SWZ	76.00	241	iPd	46	17.00	0.1
	0.7 s	95.89nm			5.8mb	
VAY	76.09	311	iP	46	15.30	-1.6
	1.3 s	282.00nm			6.1mb	
		i		46	20.00	15kmX
		i		46	31.30	
GRG	76.17	311	ePd	46	15.70	-1.7
BMR	76.34	318	ePc	46	19.00	0.8
EVR	76.39	309	eP	46	17.30	-1.5
KZN	76.57	310	eP	46	18.20	-1.5
DRV	76.66	164	eP	46	24.40	4.8X
FNA	76.92	311	ePc	46	19.86	-1.8
SKO	77.00	312	iP	46	20.00	-2.0
Z	17 s	24.97um			6.6MszX	
N	18 s	24.72um				
E	17 s	25.49um				
		i		46	22.10	7kmX
		i		46	41.00	
		i		46	49.80	
		i		47	02.00	
		i		47	19.00	
		iPPP		51	58.00	
		iS		56	03.00	
		i		56	13.00	
		iScS		56	38.00	
		LR		26	38.00	
VLS	77.27	308	eP	46	23.30	-0.3
UZH	77.28	319	iPc	46	25.00	1.6
BZS	77.32	316	eP	46	23.00	-0.6
OHR	77.39	311	iP	46	21.80	-2.4
	1.2 s	268.00nm			6.1mb	
		i		46	36.80	53km
		iS		56	05.00	
IGT	77.59	309	ePd	46	23.78	-1.5
TIM	77.61	316	iPd	46	25.00	-0.2
KEK	78.02	310	eP	46	28.00	0.4
SUF	78.03	334	iP	46	26.00	-1.2
	0.7 s	31.20nm			5.4mb	
BEQ	78.04	315	eP	46	26.50	-1.1
		i		46	28.50	6kmX
PVY	78.15	313	eP	46	28.50	0.0
NUR	78.18	331	iP	46	28.60	0.5
	0.8 s	38.10nm			5.5mb	
Z	20 s	54.20um			6.9Msz	
		e		56	20.00	
		e		01	18.00	
		LR		25	30.00	
IYA	78.23	313	eP	46	29.00	0.1
ULC	78.63	312	eP	46	30.50	-0.5
PLE	78.65	313	eP	46	31.40	0.2
TTG	78.66	312	eP	46	30.10	-1.0
		eS		56	22.40	
SPC	78.70	319	eP	46	31.70	0.3
		e		56	33.80	
PSZ	78.78	318	iP	46	31.20	-0.5
SMY	78.82	37 P		46	40.00	8.3X
Z	22 s	37.63um			6.7Msz	
NKY	78.89	313	eP	46	31.30	-1.2
BDV	78.97	312	eP	46	33.00	0.2
KRA	79.00	320	iPd	46	32.30	-0.5
	0.9 s	145.00nm			5.9mb	
Z	22 s	26.00um			6.5Msz	
E	22 s	30.00um				
		i		46	34.40	7kmX
		i		46	38.50	
		eS		56	27.00	
SOD	79.09	338	iP	46	31.70	-1.3
HCY	79.22	312	eP	46	33.40	-0.8
BRY	79.23	313	eP	46	33.40	-1.0
BUD	79.31	317	eP	46	34.00	-0.5
LCI	79.48	310	P	46	35.10	-0.5
KEV	79.65	341	ePd	46	37.48	1.5
		iS		56		

15d 02h

ORX	86.87	315	P	47	13.60	0.1	MFF	92.41	317	eP	47	40.00	0.7			0.9s	23.00nm					
BLS2	86.94	329	eP	47	14.00	0.5	EPF	92.56	313	eP	47	40.20	0.1			RMW	118.32	29	PKP	53	25.00	8.7X
ROB	87.00	314	P	47	14.32	0.3		1.4s	78.40nm				5.9mb			FFC	119.3B	13	ePKP	53	18.00	0.0
IMI	87.01	314	P	47	14.42	0.3	GRR	92.62	319	eP	47	40.80	0.6				1.2s	21.00nm				
BNS	87.17	321	iPc	47	16.50	1.9		1.3s	180.50nm				6.3mb			NEW	119.90	26	PKP	53	18.00	-1.3
	Z	17s					LPF	92.80	318	eP	47	42.00	1.0			Z	22s		65.79um			7.2MsZ
			iPP	50	58.50			1.3s	252.70nm				6.5mb			SCH	120.04	350	ePKP	53	20.00	0.7
			iPPP	53	12.50		EROO	92.80	311	e(P)	47	43.50	2.3			SES	120.61	21	ePKP	53	20.00	-0.5
			i	54	40.00		EKA	92.84	326	P	47	43.00	2.0				1.7s	187.00nm				
			iS	57	50.00		ESK	0.7s	45.40nm				6.0mb			FHC	121.58	36	ePKP	53	23.00	0.3
HYA	87.22	331	eP	47	16.00	1.4		92.86	326	ePc	47	3B.00	-3.2X			LBFM	122.44	34	PKP	53	23.00	-1.5
CDF	87.23	318	iPd	47	14.60	-0.5		1.0s	80.00nm				6.1mb			WDC	122.57	36	iPKPc	53	25.20	0.7
	1.0s	44.00nm				5.6mb	BTH	92.94	313	iPd	47	43.50	1.7			MIN	123.26	35	ePKP	53	29.70	3.6X
DIX	87.25	316	ePd	47	16.30	0.8			eP	47	59.00	53km			LRM	123.81	25	ePKP	53	26.60	-0.5	
ENR	87.33	314	P	47	15.35	-0.3			SKS	58	18.00				ORV	123.84	36	ePKP	53	27.80	0.7	
SBF	87.34	314	eP	47	15.20	-0.5			S	58	52.00				BRK	124.47	38	e(PKP)	53	29.00	0.7	
WIT	87.39	323	eP	47	17.00	1.4			SP	00	32.00						ePP	55	52.50			
STV	87.40	314	P	47	15.35	-0.6			i	04	02.00						e	12	38.00			
RSP	87.40	315	P	47	15.24	-0.8			e	06	38.00						e	14	14.00			
BMB	87.41	315	P	47	15.24	-0.7	SDN	93.63	34	P	47	50.00	5.3X				e	17	52.00			
LSD	87.46	315	P	47	16.68	0.2		Z	18s	33.33um			6.8MsZ			BKS	124.48	38	e(PKP)	53	28.80	0.5
PZZ	87.54	314	P	47	16.17	-0.6	SPA	93.88	180	iPc	47	52.10	6.3X				eSS	12	20.00			
BSF	87.58	318	eP	47	16.10	-0.7		1.5s	255.68nm				6.4mb				eSSS	16	40.00			
	0.8s	34.90nm				5.6mb	Z	20s	20.72um				6.6MsZ				eSSSS	20	16.00			
EMS	87.58	316	ePc	47	17.70	0.7	TTA	94.00	26	P	47	4B.00	1.6				e	23	42.00			
BER	87.68	330	eP	47	21.00	4.2X	IMA	94.00	23	P	47	46.10	-0.3				eLQ	26	24.00			
LPG	87.74	315	eP	47	17.80	-0.1		1.2s	20.83nm				5.4mb			CMB	125.49	37	ePKP	53	31.30	0.9
	0.7s	129.20nm				6.3mb	ECHE	94.01	310	e(P)	47	50.00	3.1X			CMB	125.49	37	ePKPc	53	28.00	-2.3
RRL	87.75	315	P	47	17.50	-0.4	ETOR	94.65	311	e(P)	47	52.20	2.4			FRI	126.59	37	ePKP	53	33.50	1.1
LPL	87.75	315	eP	47	18.10	0.3	ECRI	94.69	313	e(P)	47	53.00	3.0X			SYA	128.02	40	ePKP	53	38.00	2.6
KMY	87.81	329	eP	47	18.19	0.7	ETA	95.15	324	eP	47	53.40	1.7			ISA	128.21	37	ePKP	53	36.00	0.3
BNI	87.82	315	P	47	18.00	-0.1		1.0s	116.00nm				6.3mb				e	57	16.00			
HAU	87.87	318	iPd	47	17.80	-0.3	EVIA	95.34	309	e(P)	47	59.20	6.1X			RSSD	128.44	20	PKP	53	34.00	-2.1
	0.8s	94.45nm				6.1mb	ECP	95.36	323	eP	47	54.20	1.5			CLC	128.64	37	ePKP	53	48.00	11.5X
Z	20s	50.00um				6.9MsZ		0.8s	162.00nm				6.5mb			SBB	129.26	38	ePKP	53	37.00	-0.7
SUE	87.92	331	eP	47	21.00	3.0X	ENIJ	95.38	308	e(P)	47	59.90	6.7X				e	57	10.00			
FRF	87.92	313	eP	47	19.00	0.6	GUD	96.25	311	e(P)	48	00.20	3.0X			PAS	129.40	39	ePKP	53	37.00	-0.9
MEM	87.93	320	iPd	47	18.69	0.4	TOL	96.31	311	eP	48	01.00	3.6X				ePP	57	48.00			
ENN	87.97	321	ePc	47	19.50	1.0			ePP	51	24.00						ePKS	59	29.00			
	1.0s	140.00nm				6.2mb			iS	59	16.00						ePPP	01	01.00			
LMR	88.04	313	eP	47	19.30	0.4			ePS	00	26.00						eSKS	03	00.00			
	0.8s	56.40nm				5.9mb			iSS	05	56.00						eSKSP	08	28.00			
LRG	88.14	313	eP	47	20.00	0.6			iSSS	09	30.00						eSS	15	12.00			
	0.8s	125.95nm				6.2mb	AFC	96.38	308	e(P)	48	02.80	4.9X				e	18	10.00			
DBN	88.35	322	eP	47	25.00	4.8X	ECOG	96.39	308	e(P)	48	02.00	4.1X				eSSS	20	47.00			
Z	18s	33.90um				6.8MsZ	EBAN	96.41	309	e(P)d	48	03.50	5.6X			MWC	129.42	39	ePKP	53	43.00	4.8X
			eS	58	07.00		AKU	96.70	338	eP	48	05.00	6.5X				e	57	04.00			
			eSS	04	00.00			1.0s	24.00nm				5.7mb			GSC	129.46	37	ePKP	53	39.00	0.9
CDR	88.55	313	ePd	47	22.00	0.5	TEGH	97.02	276	eP	48	08.00	7.0X				e	57	03.00			
			i	47	23.50	5kmX	SHGH	97.04	276	eP	48	08.00	6.9X			RVR	130.00	38	ePKP	53	42.00	3.0X
			e	47	46.90		MAL	97.15	308	iPc	48	07.20	6.0X				e	57	07.00			
DOU	88.87	320	P	47	23.50	0.7			iS	58	34.00				TPC	130.73	37	ePKP	53	43.00	2.5	
			e	47	30.00	20kmX			iPS	59	16.00						e	57	04.00			
			S	57	55.00				iSS	01	44.00				PLM	130.74	39	ePKP	53	42.00	1.3	
			e	58	12.00		LEGH	97.20	276	eP	48	07.00	5.2X				e	57	04.00			
UCC	88.96	321	P	47	23.00	-0.2	MBC	97.21	8	eP	48	03.00	2.3			RSNY	131.23	352	PKP	53	42.00	1.0
			S	58	06.00			1.0s	12.00nm				5.4mb			Z	22s		42.33um			7.1MsZ
SNF	89.03	320	iPd	47	23.95	0.4	KOGH	97.23	277	eP	48	08.00	6.0X			BAR	131.31	39	ePKP	53	43.00	1.4
SBA	89.51	169	iP	47	27.80	2.5	KUK	97.34	277	eP	48	07.50	5.0X				e	57	07.00			
LBF	89.55	317	eP	47	26.20	0.1	WEGH	97.35	276	eP	48	08.50	6.0X			GOL	131.79	24	PKP	53	42.00	-0.6
LOR	89.60	317	iPd	47	26.40	0.0	PMR	97.48	26	P	48	04.00	1.9			Z	20s		31.00um			7.0MsZ
	1.2s	209.20nm				6.3mb		1.2s	17.05nm				5.5mb			GLD	131.80	24	PKP	53	42.00	-0.5
Z	22s	37.50um				6.8MsZ	Z	18s	45.71um				7.0MsZ			Z	20s		32.50um			7.0MsZ
SMF	89.67	317	iPd	47	26.70	0.0	EHOR	97.61	309	e(P)	48	09.10	5.9X			ELF	133.10	359	PKP	53	45.15	0.5
SSF	89.86	317	eP	47	27.90	0.4	EPRU	97.76	308	e(P)	48	08.80	4.8X			LDN	133.25	359	PKP	53	45.40	0.5
AVF	89.99	317	iPd	47	28.20	0.1	EMLA	97.81	311	e(P)	48	10.30	6.2X			DLA	133.44	359	PKP	53	45.80	0.5
BGF	90.36	317	eP	47	30.40	0.5	EMON	98.00	315	e(P)	48	07.40	2.5			PNJ	134.75	351	ePKP	53	50.00	2.2
MAF	90.59	316	eP	47	31.30	0.3	EJIF	98.04	307	e(P)	48	10.50	5.3X			ALO	135.29	28	ePKP	53	42.00	-7.3X
ETER	90.80	312	e(P)	47	34.50	2.5	ERUA	98.10	314	e(P)	48	10.10	4.8X			Z	22s		27.78um			6.9MsZ
TCF	90.83	316	eP	47	32.80	0.7	IFR	98.30	305	iP	48	10.00	3.3X				e	53	50.00			
ESEL	91.03	310	e(P)	47	37.70	4.6X			i	48	13.50	11kmX			FVM	137.68	9	PKP	53	54.00	0.5	
CAF	91.09	315	eP	47	34.20	0.9			i	52	07.50				CBN	137.83	354	ePKP	53	53.00	-0.7	
LSF	91.30	316	iPd	47	34.60	0.4	EVAL	98.82	309	e(P)	48	13.60	4.9X				e	57	27.00			
BRW	91.35	18	eP	47	35.30	1.4	STS	98.99	314	e(P)	48	13.80	4.4X			JFO	138.04	242	ePKP	53	55.70	1.0
RJF	91.43	315	eP	47	35.90	1.1	TIO	100.56	302	iPd iff	48	22.00	5.1X			MEO	138.66	20	e(PKP)	53	48.80	-6.6X
Z	22s	40.00um				6.8MsZ	KIC	101.66	277	Pd iff	48	28.88	6.9X			BLA	139.05	357	PKP	53	54.00	-2.1
LPO	91.74	315	eP	47	37.30	1.1	TIC	101.91	278	Pd iff	48	29.76	6.6X			UYO	140.50	16	e(PKP)	53	57.20	-1.5
LFF	92.02	315	eP	47	38.80	1.3	LIC	101.95	277	Pd iff	48	30.										

ITB7	145.53	230 e(PKP)	54 10.00	2.3		BOM	19.38	259 eP	32 49.00	-3.7X	MAF	73.40	314 iPc	39 57.40	0.7
ITB	145.73	230 e(PKP)	54 09.80	1.8				iS	36 15.50			1.3s	27.10nm		5.0mb
ITB1	145.95	230 e(PKP)	54 10.10	1.7				iS	33 01.00	0.3	TCF	73.61	314 iPc	39 58.70	0.7
LNV	148.36	198 ePKP	54 16.50	4.6X		WHN	20.15	66 eP	33 02.00	-0.8	EKA	74.04	324 P	40 02.00	1.8
PCH	148.38	199 ePKP	54 17.00	4.8X		WMO	20.34	349 iPc	33 02.00	-0.8		0.8s	9.40nm		4.8mb
TACH	148.49	199 ePKP	54 16.00	3.8X				S	36 44.00			1.4s	28.00nm		5.0mb
SAN	148.58	199 ePKP	54 17.00	4.6X		KSH	21.13	321 P	33 13.00	2.1X	LSF	74.07	314 iPc	40 00.80	0.2
LCCH	148.85	198 ePKP	54 18.50	5.7X		TIY	21.62	46 Pc	33 13.80	-2.1	CAF	74.12	312 eP	40 01.90	0.9
PEL	148.87	199 iPKPc	54 17.60	4.7X		Z	19s	8.30um		5.2MsZ		0.6s	6.75nm		4.8mb
	1.0s	110.00nm				BTO	21.98	37 P	33 18.00	-1.4	RJF	74.37	313 iPc	40 03.50	1.1
		i	54 23.70			HHC	23.01	38 P	33 30.00	0.4		0.7s	9.90nm		4.9mb
ROCH	149.14	199 iPKPc	54 19.00	5.4X		TIA	24.20	54 eP	33 40.30	-0.7	LDF	74.41	317 iPc	40 02.90	0.4
JACH	149.27	200 ePKP	54 17.00	3.4X		8JI	25.34	45 eP	33 53.00	1.2		0.7s	11.00nm		4.9mb
CFA	149.34	204 e(PKP)	54 15.00	1.3			1.2s	1016.00nm		6.2mb X	LPO	74.79	312 iPc	40 05.80	1.0
ZON	149.57	204 ePKP	54 20.50	6.5X		SSE	26.02	68 P	33 58.00	-0.2		0.5s	7.30nm		4.9mb
RTCB	149.67	204 ePKP	54 16.00	1.8			1.0s	12.00nm		4.4mb	GRR	74.94	316 iPc	40 06.00	0.4
DGP	150.76	314 ePKP	54 19.00	2.8X				sP	34 14.00			0.7s	8.80nm		4.8mb
BPA	150.83	316 ePKP	54 21.00	4.8X		SNY	31.11	47 eP	34 42.50	-1.4	LFF	75.01	313 iPc	40 07.10	1.0
CYA	150.86	211 ePKPd	54 12.00	-4.0X		MAIO	31.31	301 iPc	34 47.00	1.2		0.6s	9.00nm		4.9mb
SEG	151.02	315 ePKP	54 21.00	4.5X		CN2	33.21	45 eP	35 01.40	-0.8	LPF	75.17	316 iPc	40 07.50	0.6
SKI	151.23	318 ePKP	54 26.10	9.3X		PRNI	51.50	291 eP	37 32.00	1.0		0.7s	7.70nm		4.7mb
NEV	151.26	317 ePKP	54 24.62	7.8X		BBTK	52.59	303 eP	37 40.00	0.8	FBA	80.01	22 P	40 34.00	0.7
BBL	151.58	313 ePKP	54 24.00	6.6X		HRT	54.92	304 iP	37 57.10	0.9		pP		40 48.00	48km
CRM	151.66	311 ePKP	54 24.60	7.1X		VRI	56.90	310 ePc	38 11.00	0.7	TOL	80.12	309 eP	40 36.00	1.6
MVM	151.77	311 ePKP	54 24.90	7.2X		MLR	57.46	310 ePc	38 15.00	0.6	YKA	91.15	12 P	41 44.50	16.0X
FDf	151.85	312 ePKP	54 24.80	7.0X		SUF	58.42	330 iP	38 20.40	-0.2	SIV	154.36	283 PKP	48 25.80	9.4X
	0.6s	1.15nm					0.5s	8.00nm		5.1mb	ZOBO	160.68	290 ePKP	48 26.00	1.3
BIM	151.93	311 ePKP	54 23.10	5.2X		SOD	59.09	336 iP	38 25.20	0.0	S.D. = 1.0 on 74 of 85 obs.				
SLB	152.33	310 ePKP	54 26.77	8.2X		WB5	59.36	134 eP</							

15d 04h

PWLA	0.7s	6.85nm	4.0mb	
ELC	18.90	24 P	31 32.80	-1.9
PRM	20.58	19 P	31 51.30	-1.1
JSC	20.94	37 P	31 54.80	-1.4
JSC	21.72	38 P	32 02.20	-1.8
GOL	22.81	344 ePd	32 14.20	-0.7
	1.0s	20.00nm	4.5mb	
		i	32 31.80	79km
GLD	22.81	344 eP	32 16.20	1.3
		e	32 32.00	69km
		i	32 40.10	
PLM	23.32	315 eP	32 20.50	0.7
		i	32 43.70	109kmX
PEC	23.84	316 P	32 25.00	0.3
BLA	24.31	34 P	32 29.60	0.4
	0.6s	8.64nm	4.4mb	
GSC	24.48	319 eP	32 33.00	2.0
SBB	24.76	316 eP	32 35.00	1.4
ISA	25.77	317 eP	32 45.00	2.0
DUG	25.93	332 P	32 44.30	-0.2
TNP	26.58	323 e(P)	32 50.00	-0.6
		e	33 09.00	84kmX
LRM	30.54	339 eP	33 25.80	-0.4
		e	33 49.60	107kmX
LBFM	31.44	323 eP	33 33.60	-0.5
		e	33 49.80	67km
PNT	36.13	335 eP	34 14.00	-0.1
FFC	36.92	356 iPc	34 19.80	-0.8
	0.8s	16.00nm	5.0mb	
SCH	43.63	25 eP	35 16.00	0.0
YKA	46.14	349 P	35 34.00	-1.9
SIV	49.10	131 P	36 15.60	16.0X
PMR	56.63	333 P	36 54.50	-0.4
FBA	57.66	337 eP	37 02.30	0.2
	0.9s	8.33nm	4.9mb	
SVW	59.32	331 eP	37 13.00	-0.8
		e	37 13.30	1kmX
MBC	59.47	354 eP	37 13.50	-1.0
	1.0s	6.00nm	4.7mb	
		pP	37 31.00	67km
TTA	60.12	333 eP	37 18.30	-0.9
	1.0s	20.00nm	5.2mb	
		e	37 18.60	1kmX
BRW	63.54	342 eP	37 41.80	-0.1
DAG	70.07	14 iPd	38 22.50	-0.5
	0.7s	10.96nm	4.9mb	
NB2	83.13	28 P	39 37.50	1.2
	0.9s	6.20nm	4.6mb	
APO	84.55	28 eP	39 44.30	0.9
	0.8s	12.30nm	5.0mb	
SOD	85.64	19 eP	39 49.00	0.2
WRA	131.24	259 PKP	46 23.00	-0.4
	0.9s	1.40nm		
GBA	148.26	10 PKP	46 55.00	1.0

S.D. = 1.2 on 42 of 44 obs.

? NOV 15, 1990 04h 43m 42.04±0.97s
48.042 N ± 9.2km 6.694 E ± 7.4km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.5 (LDG).

BSF	0.22	162 Pg	43 46.60	-0.3
		Sg	43 49.30	
HAU	0.23	261 Pg	43 47.20	0.1
		Sg	43 50.50	
CDF	0.54	46 Pg	43 52.70	-0.2
		Sg	43 59.70	
FEL	0.90	100 ePg	43 59.81	0.4
LOR	2.07	249 Pg	44 21.00	3.8X
		Sg	44 47.20	
SMF	2.39	235 Pg	44 27.20	5.3X
		Sg	44 56.50	

S.D. = 0.6 on 4 of 6 obs.

NOV 15, 1990 04h 48m 12.22±1.72s
3.982 N ± 3.8km 97.324 E ± 3.7km
DEPTH = 30.4 ± 12.0 km
5.8mb (70 obs.) 5.6MsZ (15 obs.)

NORTHERN SUMATERA (706)
Felt at Blangkejeren. Complex event, observed on broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1: Strike=215 Dip=60 Slip= 90
NP2: 35 30 90
Principal Axes:

T P1g=75 Azm=125
P 15 305
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.

RADIATED ENERGY
No. of sta: 5 Focd mech. F
Energy 1.2±0.5*10**13 Nm

TSI	1.33	111 e(P)	48 34.70	-0.1
IPM	3.74	81 eP	49 08.60	-0.7
KLM	4.40	101 eP	49 18.00	-0.7
		eS	50 30.50	
SNG	4.56	46 eP	49 20.60	-0.4
NNT	8.88	15 eP	50 21.00	-0.5
PCT	11.37	20 iPc	50 56.00	0.3
	0.7s	4.20nm	4.7mb X	
NST	11.94	13 eP	51 07.00	3.6X
		e	54 31.50	
BDT	13.28	7 eP	51 22.80	1.5
	1.0s	434.70nm	6.4mb	
CHG	14.83	6 ePd	51 45.00	3.4X
	0.9s	125.00nm	5.3mb	
		eS	54 46.00	
CHTO	14.83	6 iPd	51 45.69	4.1X
KKM	18.93	83 ePd	52 35.00	1.5
	1.0s	335.20nm	5.5mb	
		e	52 39.00	
TRT	19.19	127 ePc	52 37.00	0.6
	1.3s	520.80nm	5.6mb	
QIZ	19.32	38 P	52 40.00	2.0
	17s	64.80um		
N	16s	53.20um		
BKB2	20.24	105 ePd	52 46.00	-1.9
KOD	20.65	289 eP	52 55.00	2.5
		eS	56 48.00	
KMI	21.66	13 iPc	53 07.07	4.5X
		iS	57 05.77	
		eS	57 22.60	
GBA	21.83	297 Pd	53 05.90	1.8
	1.0s	216.70nm	5.5mb	
HYB	22.73	307 iPc	53 14.50	1.4
	1.0s	150.00nm	5.4mb	
GYA	24.07	21 iPc	53 29.00	2.8
	5.0s	*****nm	6.7mb X	
Z	14s	20.00um	5.7MsZ X	
N	12s	22.30um		
E	12s	17.20um		
HKC	24.46	40 iP	53 36.00	6.2X
GZH	24.51	38 P	53 32.00	1.7
	5.0s	*****nm	6.7mb X	
Z	23s	14.20um	5.4MsZ X	
N	17s	34.10um		
E	16s	29.30um		
QCP	25.69	64 eP	53 38.00	-3.5X
BAG	25.96	60 eP	53 45.40	1.1
PKI	26.07	335 P	53 44.48	-0.9
GUN	26.18	337 P	53 45.32	-1.1
DMN	26.23	335 P	53 46.76	0.0
LSA	26.24	348 eP	53 47.60	0.6
		ScS	04 37.00	
KKN	26.31	335 P	53 46.56	-0.9
GKN	26.77	334 P	53 50.58	-1.0
POO	27.13	304 iP	53 55.00	0.2
	0.9s	36.97nm	5.0mb	
		iS	58 36.00	
CD2	27.46	12 P	53 59.00	1.2
BOM	28.16	304 iP	54 05.70	1.6
		iS	58 51.70	
DAV	28.28	82 eP	53 56.70	-8.6X
QZH	29.20	42 P	54 14.00	0.6
	4.0s	3100.00nm	6.4mb X	
Z	14s	18.10um	5.8MsZ X	
N	14s	16.00um		
E	14s	13.70um		
WHN	30.92	29 P	54 31.00	2.4
	6.0s	3500.00nm	6.3mb X	
N	13s	20.50um		
E	13s	41.90um		
NDI	31.12	324 iP	54 29.50	-1.0
XAN	31.79	18 Pd	54 36.00	-0.4
LZH	32.51	10 P	54 43.50	0.8
	6.0s	1850.00nm	6.2mb X	
Z	24s	23.10um	5.8MsZ X	

E	15s	21.50um	55 56.50	
PP			54 48.20	-1.6
MBL	33.33	139 iPc	55 00.20	0.7
NJ2	34.47	33 Pd		
	6.0s	1800.00nm	6.2mb X	
Z	20s	7.00um	5.4MsZ	
N	15s	14.60um		
E	16s	21.50um		
SSE	35.11	37 P	55 06.00	1.0
	6.0s	1940.00nm	6.2mb X	
Z	20s	12.10um	5.6MsZ	
N	16s	18.20um		
E	16s	13.60um		
		S	00 36.00	
GTA	35.34	3 P	55 07.00	-0.1
	5.5s	2090.00nm	6.3mb X	
Z	26s	14.30um	5.6MsZ X	
N	13s	5.60um		
		PP	56 32.00	
		S	00 43.00	
TIY	36.31	20 P	55 16.00	0.8
	6.0s	3300.00nm	6.4mb X	
Z	15s	27.90um	6.2MsZ X	
N	15s	33.80um		
		S	00 54.00	
MEKA	36.69	147 eP	55 17.50	-1.0
KNA	36.78	123 eP	55 09.50	-9.8X
TIA	36.90	27 eP	55 20.50	0.4
Z	18s	19.60um	5.9MsZ	
N	12s	9.50um		
		S	00 59.00	
MTN	37.51	117 eP	55 23.00	-2.5
	0.3s	24.00nm	5.5mb	
MRWA	37.56	153 iPd	55 26.50	0.8
BTO	38.21	16 P	55 31.00	-0.2
	6.0s	3500.00nm	6.4mb X	
N	12s	9.60um		
E	12s	7.40um		
		PP	57 08.00	
		eS	01 24.00	
QUE	38.76	316 e(P)	55 37.90	1.8
		eS	01 40.30	
		eS	55 39.00	2.2
HHC	38.88	17 Pd		
	5.0s	3100.00nm	6.3mb X	
Z	18s	16.90um	5.9MsZ	
N	13s	4.60um		
E	13s	9.20um		
BAL	39.07	153 eP	55 39.00	0.7
	1.0s	184.00nm	5.8mb	
BJI	39.73	23 iPc	55 44.82	1.1
MUN	40.02	155 eP	55 46.00	-0.2
	1.0s	340.00nm	6.1mb	
KSH	40.27	334 eP	55 50.40	2.1
KLB	40.38	153 iPd	55 48.50	-0.7
	0.6s	135.00nm	5.9mb	
WMQ	40.58	349 iPc	55 51.00	0.2
	4.0s	1000.00nm	5.9mb X	
Z	22s	6.10um	5.4MsZ	
N	10s	2.20um		
E	16s	6.40um		
		PP	57 31.00	
DL2	41.19	29 eP	55 55.00	-0.7
	6.0s	2150.00nm	6.1mb X	
N	15s	5.90um		
E	15s	10.60um		
NWAO	41.27	154 iPc	55 57.49	1.0
		e	55 59.47	
WARB	41.30	138 eP	55 56.00	-0.8
		e	57 57.50	
RKG	42.16	155 eP	56 08.30	4.5X
WB5	43.44	124 eP	56 12.30	-2.1
		ePcP	58 03.50	
		eScP	01 57.50	
		eS	02 42.00	
JAY	43.83	98 ePd	56 16.80	-0.9
SNY	44.40	28 P	56 21.80	0.0
	7.0s	2200.00nm	6.1mb X	
Z	21s	11.80um	5.8MsZ	
N	11s	2.60um		
E	15s	9.70um		
ASPA	45.01	129 iPd	56 24.60	-2.5
	0.5s	138.70nm	6.1mb	
Z	23s	9.00um	5.6MsZ X	
		iPcP	58 09.10	
		ePP	59 00.70	
		iPcS	02 00.30	
		iS	03 00.40	

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

References

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CN2	46.79	28	Pc	56	40.50	-0.4	SMG	72.16	308	eP	59	35.80	-0.4	E	18s	1.60um				
	5.0s	1400.00nm			6.2mb	X	PSN	72.23	315	iPd	59	35.00	-1.5	KMR	82.50	318	iP+	00	33.90	0.5
Z	22s	11.00um			5.8Msz		DZM	72.30	115	iPd	59	37.90	0.4	SDI	82.52	311	P	00	32.40	-1.3
N	14s	6.00um					EVA	72.50	241	eP	59	39.50	0.8	KHZ	82.55	134	P	00	34.50	0.8
E	14s	2.50um					CFR	72.56	316	eP	59	38.00	-0.5	VOY	82.59	316	eP	00	32.70	-1.3
		pP	56	56.00	60kmX		NPS	72.79	306	eP	59	38.70	-1.4	TRI	82.67	315	eP	00	33.60	-0.7
		PP	58	33.00			EZN	72.89	310	eP	59	39.70	-0.8	BRG	82.75	321	iPc	00	34.90	0.3
		S	03	29.00			SLR	73.02	242	iPc	59	43.50	1.8		2.4s	140.00nm			5.6mb	
		SS	06	51.00				0.9s	315.13nm			6.3mb		Z	20s	2.50um			5.6Msz	
MAIO	47.38	318	iPd	56	46.50	0.8		Z	22s	7.04um		5.9Msz		E	20s	2.00um				
OIS	48.12	122	iPc	56	50.00	-1.7	APE	73.10	307	eP	59	41.30	-0.6			i	01	43.00		
	1.0s	164.00nm			6.0mb		JMB	73.15	313	iP	59	41.00	-1.0	TCW	82.84	132	eP	00	34.90	-0.3
HIA	48.99	19	iPc	56	57.71	-0.2	ISR	73.67	316	eP	59	46.00	1.0	AQU	82.84	312	P	00	34.60	-0.8
		eS	04	07.38			RDO	73.70	312	eP	59	44.30	-0.9	KHC	82.91	319	iP	00	36.00	0.4
MDJ	49.40	30	P	57	00.00	-1.2	BUC	73.85	315	iPc	59	54.00	8.0X			e	01	09.80		
	30s	5.80um			5.4MszX		KDZ	73.87	312	iPd	59	45.00	-1.2	KBA	83.00	317	iP	00	35.50	-0.7
N	16s	8.70um					VAM	73.96	306	eP	59	46.50	-0.3		0.8s	23.10nm			5.3mb	
E	17s	15.20um					CVO	74.06	317	eP	59	48.00	0.8			i	00	38.00		
		PP	58	55.00			MLR	74.15	316	ePc	59	47.50	-0.4	MRW	83.16	132	P	00	36.20	-0.7
		S	04	09.00			CMP	74.74	316	ePc	59	56.00	4.8X	SNZO	83.18	132	ePc	00	36.56	-0.4
SHI	49.44	306	eP	57	02.00	0.0	PAIG	74.92	310	ePc	59	51.00	-1.3	ARV	83.20	313	Pc	00	37.20	0.1
MAJO	49.59	44	ePc	57	01.77	-1.0	SRS	75.15	311	eP	59	52.00	-1.5	WEL	83.22	132	Pd	00	38.00	0.8
MAT	49.59	44	eP	57	02.00	-0.8	PLG	75.16	311	eP	59	52.50	-1.2	RDP	83.34	311	P	00	37.30	-0.7
	0.8s	11.94nm			5.0mb		SOH	75.29	311	eP	59	53.00	-1.4	RMP	83.35	311	P	00	37.90	0.0
		eS	04	13.00			MAW	75.43	193	iP	59	56.10	1.5	CLL	83.36	321	iPc	00	37.70	0.0
DHR	50.28	301	eP	57	09.00	0.8	VTs	75.63	313	iPc	59	56.00	-0.5		2.8s	450.00nm			6.1mb	
PMG	51.41	105	eP	57	16.00	-0.9	KNT	75.67	311	eP	59	55.28	-1.3	WET	83.37	319	eP	00	38.00	0.1
RYD	52.90	298	eP	57	28.00	-0.1	AGG	75.85	309	eP	59	55.16	-2.5	FVI	83.37	316	P	00	37.70	-0.2
CTA	53.67	118	iPc	57	32.90	-0.8	LIT	75.85	310	iPc	59	55.80	-1.9	MNS	83.38	312	P	00	37.60	-0.5
	1.2s	220.31nm			6.0mb		SWZ	75.92	241	iPd	59	58.80	0.4	HFS	83.39	330	eP	00	37.10	-0.6
CTAO	53.67	118	ePc	57	31.95	-1.8		0.9s	109.24nm			5.9mb			0.7s	39.10nm			5.7mb	
		e	57	33.94			GRG	76.02	311	ePc	59	56.72	-1.9	Z	18s	3.47um			5.8Msz	
KMSA	53.89	292	eP	57	35.30	-0.1	BMR	76.19	318	ePd	00	01.00	1.6			LR	32	57.00		
MJMA	54.34	299	eP	57	39.00	0.3	EVR	76.24	309	eP	59	59.00	-1.0	ASS	83.40	313	P	00	37.90	-0.3
ARO	54.42	281	iP+	57	42.00	2.6	KZN	76.42	310	eP	59	59.70	-1.2	NGZ	83.45	130	P	00	38.40	-0.2
OLP	54.58	127	eP	57	39.00	-1.3	FNA	76.77	311	eP	00	01.00	-1.8	VVI	83.61	316	Pd	00	39.50	0.3
ADE	54.87	138	iPd	57	42.60	0.2	SKO	76.86	312	iP	00	01.60	-1.6	MNG	83.62	131	P	00	39.00	-0.3
	1.0s	400.00nm			6.4mb		BZS	77.17	316	eP	00	04.00	-0.9		0.6s	70.00nm			6.0mb	
AFIF	55.80	296	eP	57	51.00	1.6	OHR	77.24	311	iP	00	05.20	-0.3	CRE	83.92	313	P	00	40.30	-0.6
TAB	57.46	313	e(P)	58	01.00	0.0		1.0s	150.00nm			6.0mb	SFI	84.00	314	P	00	41.50	0.4	
CMS	58.07	131	eP	58	04.00	-1.2	TIM	77.46	316	iPc	00	07.00	0.5	LOF	84.00	338	eP	00	40.52	-0.2
	1.0s	185.00nm			6.1mb		BEO	77.89	315	eP	00	08.00	-0.8	HOF	84.05	320	iPc	00	41.50	0.2
RMO	58.21	124	eP	58	04.00	-2.3	SUF	77.90	334	eP	00	08.00	-0.5	PGD	84.09	314	P	00	42.30	0.5
	1.2s	441.00nm			6.4mb			0.8s	16.50nm			5.1mb	CTI	84.15	316	P	00	42.00	0.0	
AAE	58.35	278	eP	58	10.50	2.7	NUR	78.06	331	eP	00	08.00	-1.4	WATA	84.21	317	iPc	00	41.60	-0.7
BFD	58.68	138	eP	58	11.50	2.1		0.8s	19.10nm			5.2mb		0.7s	41.10nm			5.7mb		
NPA	60.54	250	iP	58	26.10	3.6X	SPC	78.56	319	eP	00	12.50	-0.2	PGZ	84.21	131	eP	00	41.90	-0.3
		i	59	10.00			PSZ	78.63	318	iP	00	12.20	-0.8	MOX	84.22	320	iP	00	42.50	0.4
TOO	60.87	137	eP	58	25.00	0.5	KRA	78.86	320	iPc	00	14.00	-0.1		3.2s	902.00nm			6.4mb X	
BWA	61.37	133	eP	58	27.90	-0.1		0.9s	54.00nm			5.6mb	NSS	84.43	334	eP	00	40.84	-2.0	
WAJH	62.09	297	eP	58	34.00	1.1			e	00	17.00		SOTA	84.46	317	iPc	00	43.00	-0.6	
CAN	62.21	134	eP	58	32.70	-0.9			e	00	26.50			0.8s	47.60nm			5.7mb		
		e	59	14.00			SOD	78.97	338	iP	00	13.50	-0.9			i	00	44.50		
COO	62.36	128	eP	58	35.00	0.3	BUD	79.17	317	eP	00	15.80	0.0	GRF	84.46	319	ePc	00	43.90	0.5
	1.0s	143.00nm			6.1mb		KEV	79.54	341	iP	00	17.80	0.4		1.8s	187.00nm			6.0mb	
CNB	62.47	133	iPd	58	35.90	0.5		0.7s	26.70nm			5.4mb	GRFO	84.47	319	iPc	00	42.14	-1.2	
		e	59	06.00			SRO	79.68	318	eP	00	25.80	7.3X	OGA	84.58	317	iPc	00	44.30	0.0
AYN	63.06	300	eP	58	39.30	0.0			e	10	25.00			0.8s	42.00nm			5.7mb		
SHWJ	63.78	302	P	58	45.30	1.0	ROI	80.35	309	P	00	24.00	1.6	NB2	84.65	331	P	00	43.20	-0.9
BADA	63.86	300	eP	58	45.00	0.5	ORI	80.47	310	P	00	24.00	1.1		1.2s	47.30nm			5.6mb	
BURJ	63.91	304	P	58	45.50	0.5	ZST	80.52	318	eP	00	23.70	0.6	MME	84.83	314	P	00	45.70	0.1
KFNJ	63.94	304	P	58	45.40	0.4	TDS	80.53	309	P	00	24.30	1.0	BDI	84.90	314	P	00	44.00	-1.8
DSI	64.12	303	eP	58	46.00	-0.2	CSI	80.57	309	P	00	24.50	0.9	SAL	84.94	315	P	00	46.10	0.3
PRNI	64.20	302	eP	58	47.00	0.2	KTK1	80.62	339	eP	00	22.83	-0.4	PII	84.96	313	P	00	44.80	-1.1
BHL	64.40	306	P	58	48.00	-0.1	HVAR	80.63	313	iP	00	23.40	-0.3	NOZ	85.22	129	eP	00	48.20	0.9
RMN	64.54	302	eP	58	48.00	-1.1	CZI	80.67	309	P	00	25.20	1.2	KONO	85.44	329	ePc	00	48.68	0.7
CSS	66.51	306	eP	59	00.50	-1.1	VKA	81.05	318	iPc	00	26.00	0.1	MDI	85.51	315	P	00	47.50	-1.1
SONG	66.75	251	eP	59	06.10	2.6		3.3s	1601.00nm			6.5mb X	VDL	85.66	316	ePc	00	49.90	0.2	
PPCY	67.28	306	eP	59	03.50	-3.0X	ZAG	81.12	316	iPc	00	27.10	0.9	BOB	85.71	314	P	00	48.90	-0.9
KAS	67.68	313	iPc	59	08.50	-0.4	PTJ	81.14	316	iP	00	26.50	0.0	SAX	85.73	317	ePc	00	50.60	0.5
ANTO	68.02	311	iPc	59	08.49	-2.6	ATN	81.15	308	P	00	28.00	1.4	LLS	85.98	317	ePc	00	51.30	0.0
LWI	68.76	266	iPc	59	18.40	2.1	MGR	81.15	310	P	00	26.00	-0.5	TMA	86.08	316	ePc	00	51.20	-0.6
BCK	69.19	309	iP	59	16.00	-2.4	KSP	81.26	321	iPc	00	27.30	0.4	PGF	86.10	312	eP	00	49.80	-2.0
ELL	69.58	308	iP	59	20.00	-0.9		1.2s	34.00nm			5.2mb		1.2s	80.35nm			5.8mb		
KSL	69.73	307	eP	59	21.20	-0.4			e	03	47.50		SLE	86.29	317	ePc	00	52.50	-0.1	
ALT	69.87	310	iP	59	21.40	-1.2	SGO	81.36	310	P	00	27.50	-0.1	PCP	86.36	314	P	00	52.56	-0.5
KRI	69.97	251	iPc	59	12.80	-10.7X	UPP	81.40	330	iP										

	0.9s	13.10nm		5.2mb	ECRI	94.55	313	eP	01	34.00	2.6	E	10s	3.80um				
DIX	87.10	316 ePc	00	57.30	0.4	EVIA	95.19	309	eP	01	36.00	1.5		pP	23	47.00	35kmX	
ENR	87.18	314 P	00	57.38	0.3	GUD	96.10	311	eP	01	40.00	1.3		S	27	38.00		
SBF	87.19	314 eP	00	55.60	-1.5	TOL	96.16	311	eP	01	40.00	1.2	GBA	21.84	297 P	23	38.00	2.4
WTS	87.21	322 iPc	00	56.90	0.1	EBAN	96.26	309	eP	01	40.50	1.2	HYB	22.75	308 ePc	23	46.00	1.3
	0.9s	58.00nm		5.8mb	MAL	97.00	308	eP	01	44.50	1.9	GYA	24.15	21 P	24	00.00	1.7	
STV	87.25	314 P	00	57.18	-0.2	KIC	101.52	277	Pdiff	02	09.20	5.7X		1.4s	600.00nm		5.9mb	
RSP	87.25	315 P	00	57.69	0.3	LKO	102.04	281	Pdiffd02	07	20	1.4X		Z 14s	4.40um		5.1mszX	
WIT	87.25	323 eP	00	59.00	2.0		0.9s		9.50nm			5.4mb		N 12s	5.40um			
BHB	87.26	315 P	00	56.46	-0.9	DPW	119.71	27	e(PKP)	07	01.20	0.1		E 12s	2.30um			
LSD	87.31	315 P	00	57.69	-0.2	NEW	119.90	26	e(PKP)	07	01.00	-0.4	PKI	26.12	335 P	24	16.04	-1.1
PZZ	87.40	314 P	00	58.61	0.5	SCH	119.94	349	ePKP	07	02.00	0.7	GUN	26.23	337 P	24	16.92	-1.2
EMS	87.43	316 ePc	00	59.10	0.7	LBFM	122.45	34	e(PKP)	07	05.90	-0.9		0.6s	42.00nm		5.1mb	
BSF	87.44	318 eP	00	56.20	-2.0	WDC	122.58	35	ePKP	07	08.20	1.5	DMN	26.28	335 P	24	17.40	-1.1
	0.7s	13.25nm		5.3mb	MIN	123.28	35	ePKP	07	09.50	1.2	LSA	26.30	348 eP	24	18.40	-0.5	
LPG	87.59	315 eP	00	57.90	-1.4	LRM	123.79	25	ePKP	07	10.50	1.2	KKN	26.37	335 P	24	17.46	-1.8
	0.8s	73.45nm		6.0mb	BRK	124.49	38	ePKP	07	10.70	0.2	GKN	26.82	335 P	24	22.04	-1.3	
RRL	87.60	315 P	00	58.71	-0.5	MHC	125.21	38	ePKP	07	09.80	-2.3	POO	27.14	304 iP	24	26.80	0.6
LPL	87.60	315 eP	00	58.00	-1.2	ARN	125.27	38	e(PKP)	07	12.80	0.7	BOM	28.17	304 eP	24	35.00	-0.5
BNI	87.67	315 P	00	59.10	-0.3	CMB	125.51	36	ePKP	07	12.50	-0.1			iS	29	24.00	
HAU	87.72	318 eP	00	57.80	-1.7	PTI	126.18	27	e(PKP)	07	15.80	1.9	WHN	31.00	29 P	25	01.00	0.4
	0.8s	47.00nm		5.8mb	PRI	126.58	38	ePKP	07	15.50	0.7	NDI	31.16	324 eP	25	00.00	-2.0	
Z	22s	1.15um		5.2msz	FRI	126.61	37	ePKP	07	15.70	1.0	XAN	31.87	18 P	25	07.50	-0.8	
FRF	87.78	313 eP	00	58.80	-1.0	TNP	127.31	34	e(PKP)	07	15.80	-0.5	LZH	32.59	10 Pc	25	13.00	-1.6
	0.8s	59.10nm		5.9mb	DUG	128.06	29	e(PKP)	07	17.70	0.1		2.5s	110.00nm		5.2mb		
MEM	87.79	320 iPc	01	00.15	0.5	ISA	128.23	37	ePKP	07	19.00	1.1			sP	25	23.50	
ENN	87.83	321 ePc	01	00.50	0.6	ABL	128.31	39	e(PKP)	07	19.80	1.5			PP	26	28.00	
	1.0s	50.00nm		5.8mb	RSSD	128.41	20	e(PKP)	07	17.50	-0.7	NJ2	34.54	33 eP	26	30.90	-0.5	
LMR	87.89	313 eP	00	59.20	-1.1	SBB	129.28	38	ePKP	07	21.00	1.1	SSE	35.18	37 eP	25	36.50	-0.3
	1.2s	86.30nm		5.9mb	MWC	129.45	38	ePKP	07	23.00	2.6	GTA	35.41	3 Pc	25	39.00	0.1	
LRG	87.99	313 eP	01	00.00	-0.8	GSC	129.48	36	ePKP	07	22.00	1.7		1.2s	1030.00nm		6.6mb	
	1.0s	94.00nm		6.1mb	RVR	130.02	38	ePKP	07	23.00	1.7	TIY	36.39	20 eP	25	47.00	0.0	
Z	21s	0.93um		5.2msz	PEC	130.22	38	e(PKP)	07	21.80	0.1		N 16s	9.10um				
CDR	88.41	313 ePd	01	03.20	0.4	TPC	130.75	37	ePKP	07	24.00	1.3	BTO	38.29	16 P	26	03.00	0.0
		i	01	05.10		PLM	130.77	38	ePKP	07	27.00	4.0X		N 13s	1.90um			
DOU	88.73	320 P	01	04.50	0.3	BAR	131.34	39	ePKP	07	28.00	4.2X		E 13s	1.70um			
UCC	88.82	321 P	01	05.00	0.4	GOL	131.77	24	e(PKP)	07	23.80	-1.0			eS	31	56.50	
SNF	88.89	320 P	01	05.40	0.4	ALO	135.29	28	e(PKP)	07	25.00	-6.5X	QUE	38.79	316 eP	26	04.90	-2.6
LBF	89.40	317 eP	01	06.30	-1.3	JFO	137.96	242	ePKP	07	28.70	-8.1X	HHC	38.96	17 Pd	26	10.00	1.4
	1.1s	59.85nm		5.8mb				e	07	39.10		BJI	39.81	23 eP	26	16.00	0.4	
LOR	89.46	317 eP	01	06.40	-1.4	VAO	140.64	238	ePKP	07	43.20	1.6		1.0s	42.00nm		5.2mb	
	1.0s	62.50nm		5.9mb	BDF	143.89	249	iPKPc	07	34.67	-12.8X	MUN	39.97	155 iPc	26	17.70	0.8	
Z	22s	1.15um		5.3msz	BAO	143.98	249	ePKPd	07	46.80	-0.8		1.0s	180.00nm		5.9mb		
SMF	89.53	317 eP	01	06.80	-1.3	CFA	149.35	205	ePKPd	07	57.20	1.3	KSH	40.32	334 eP	26	23.00	3.1X
	0.8s	34.25nm		5.7mb	ZON	149.58	204	ePKP	07	58.50	2.2	KLB	40.33	153 iPd	26	20.40	0.5	
SBA	89.61	169 P	01	10.60	2.8	RTCB	149.69	204	ePKP	07	57.80	1.3		0.6s	42.00nm		5.4mb	
SSF	89.72	317 eP	01	07.60	-1.4	DEG	150.61	314	ePKP	08	01.00	2.9	WMO	40.64	349 P	26	22.20	-0.2
	1.3s	86.65nm		5.9mb	BPA	150.68	316	ePKP	08	03.00	4.8X			PP	28	03.50		
AVF	89.85	317 eP	01	08.40	-1.2	CYA	150.85	212	e(PKP)	08	02.00	3.8X	NWAO	41.22	154 iPd	26	27.60	0.4
	1.1s	52.50nm		5.7mb	SEG	150.87	315	ePKP	08	03.00	4.6X		1.0s	100.00nm		5.5mb		
BGF	90.22	317 eP	01	10.60	-0.7	SKI	151.09	318	ePKP	08	05.72	6.9X	DL2	41.27	29 eP	26	28.00	0.5
	1.3s	131.75nm		6.0mb	NEV	151.11	317	ePKP	08	06.33	7.5X	WB5	43.43	124 iPc	26	43.50	-1.9	
MAF	90.45	316 eP	01	11.40	-1.0	BBL	151.43	313	ePKP	08	04.00	4.7X			ePcP	28	32.20	
	0.8s	25.50nm		5.6mb	SLB	152.18	310	ePKP	08	05.91	5.4X			eS	32	26.00		
TCF	90.69	316 eP	01	12.70	-0.8	LPR	152.34	324	PKP	08	01.80	1.1	ASPA	44.99	129 iPc	26	56.00	-2.0
	1.3s	83.05nm		5.9mb	CPD	152.58	323	PKP	08	00.00	-0.9		1.4s	56.50nm		5.2mb		
CAF	90.94	315 eP	01	14.00	-0.7	PORP	152.99	325	PKP	08	02.30	0.8			iPcP	28	39.20	
	1.3s	86.65nm		5.9mb	SIV	155.64	239	PKP	08	06.00	0.8			ePcS	32	29.90		
LSF	91.16	316 eP	01	14.60	-1.0			i	08	33.40				eS	33	30.60		
	1.0s	52.00nm		5.8mb	CCH	159.02	229	PKP	08	11.50	1.8	CN2	46.87	28 P	27	11.80	-0.8	
RJF	91.28	315 eP	01	15.80	-0.4			i	08	49.30		MA10	47.41	318 eP	27	17.00	-0.1	
	0.9s	39.30nm		5.8mb	CNCB	160.75	227	PKP	08	14.00	2.2	OIS	48.11	122 eP	27	21.00	-1.7	
Z	21s	0.93um		5.2msz	LPB	161.01	228	PKP	08	14.00	2.1			e	28	50.00		
LPO	91.59	315 eP	01	17.30	-0.3		1.2s	62.50nm				MDJ	49.48	30 eP	27	32.50	-0.3	
	0.8s	63.15nm		6.1mb				i	09	00.00		MAT	49.66	44 eP	27	34.00	-0.4	
LFF	91.87	315 eP	01	18.70	-0.2	ZOBO	161.20	228	ePKPc	08	13.96	1.7		0.8s	8.96nm		4.8mb	
	1.2s	92.25nm		6.1mb														
DAG	91.94	348 iPd	01	19.50	0.8													
	0.7s	10.27nm		5.4mb														
LDF	91.96	319 eP	01	18.30	-1.0													
	0.9s	55.70nm		6.0mb														
FLN	92.17	319 eP	01	19.10	-1.1													
	0.9s	47.50nm		5.9mb														
MFF	92.26	317 eP	01	19.90	-0.8													
	0.9s	67.15nm		6.1mb														
EPF	92.41	313 eP	01	21.40	-0.1													
	0.9s	15.55nm		5.4mb														
GRR	92.48	319 eP	01	20.80	-0.8	KLM	4.42	100	eP	19	51.00	-1.0	BRS	61.86	124 iPd	29	01.50	-0.8
	1.3s	83.05nm		6.0mb	NST	12.02	13	eP	21	39.00	2.0			iC	29	10.50		
EROO	92.65	311 eP	01	24.00	1.4	BDT	13.36	7	eP	21	55.90	1.2	WAJH	62.09	297 eP	29	05.30	1.5
LPF	92.65	318 eP	01	21.80	-0.6	KKM	18.97	83	ePc	23	07.00	1.1	CAN	62.19	133 eP	29	03.20	-1.2
	1.3s	122.75nm		6.2mb	OIZ	19.40	38	eP	23	13.00	2.5			e	29	45.50		
EKA	92.70	326 P	01	24.00	1.5													
	1.0s	31.00nm		5.7mb														
ECHE	93.87	310 eP	01	30.00	1.7													
IMA	93.98	23 eP	01	27.60	-0.8													
ETOR	94.50	311 eP	01	32.20	1.0													

KAS	67.71	313	iPd	29	39.00	-1.0	ARV	83.23	313	Pd	31	08.80	0.7	1.4s	45.75nm	5.7mb				
BBTK	68.07	311	eP	29	41.00	-1.4	BHG	83.37	317	iPd	31	08.80	0.1	CAF	90.97	315	eP	31	46.60	1.0
ELL	69.60	308	iP	29	51.00	-0.9	RDP	83.37	311	P	31	09.10	0.2		1.1s	29.30nm			5.6mb	
ALT	69.89	310	iP	29	52.60	-1.0	RMP	83.38	311	P	31	09.00	0.1	LSF	91.19	316	eP	31	47.00	0.5
KRI	69.91	251	iPc	29	43.00	-11.1X	CLL	83.39	321	iPd	31	09.20	0.5	RJF	91.31	315	iPc	31	48.20	1.1
EYL	70.17	312	eP	29	53.50	-1.8		1.7s	79.00nm				5.5mb		1.3s	65.00nm			5.9mb	
IZI	70.64	311	eP	29	57.00	-1.0	MNS	83.40	312	Pd	31	07.80	-1.2	LPO	91.62	315	eP	31	49.70	1.2
GBZT	70.75	312	eP	29	56.50	-2.1	FVI	83.40	316	P	31	08.70	-0.1		0.9s	37.65nm			5.8mb	
YLV	70.76	312	iP	29	57.50	-1.3	HFS	83.44	330	eP	31	07.80	-0.9	LFF	91.90	315	eP	31	51.00	1.2
BUL	71.48	247	iPc	30	03.60	0.1		0.7s	16.70nm				5.2mb		1.3s	72.20nm			5.9mb	
BNT	71.80	311	eP	30	04.00	-1.0	MNG	83.60	131	P	31	09.90	-0.1	LDF	92.00	319	eP	31	50.80	0.6
EDC	71.84	311	eP	30	04.00	-1.2		0.7s	33.00nm				5.5mb		1.0s	36.00nm			5.8mb	
IZM	71.96	309	iP	30	05.40	-0.6	VVI	83.64	316	Pd	31	10.50	0.4	FLN	92.21	319	eP	31	51.50	0.4
PSN	72.26	315	iP	30	07.00	-0.6	CRE	83.95	313	Pd	31	12.10	0.3		1.0s	40.00nm			5.8mb	
DZM	72.30	115	iPc	30	07.20	-1.1	SFI	84.02	314	Pd	31	13.60	1.6	MFF	92.29	317	iPc	31	52.20	0.6
EVA	72.44	241	iPd	30	11.50	2.3	PGD	84.12	314	P	31	13.50	0.7		0.9s	32.75nm			5.8mb	
	0.6s	43.33nm				5.6mb	CTI	84.18	316	Pd	31	13.70	0.7	EPF	92.44	313	eP	31	54.50	2.1
EZN	72.92	310	eP	30	10.30	-1.2	MOX	84.25	320	iP	31	13.50	0.4	GRR	92.51	319	eP	31	53.10	0.6
SLR	72.96	242	iPc	30	14.00	1.8		2.0s	127.00nm				5.6mb		1.3s	57.75nm			5.8mb	
	1.0s	120.00nm				5.8mb	SQTA	84.49	317	iPc	31	13.50	-1.0	LPF	92.69	318	eP	31	54.20	0.9
JMB	73.18	313	iP	30	13.00	0.0							id	0.9s	21.30nm			5.6mb		
PVC	73.22	110	iPc	30	15.00	1.4							i	0.9s	21.30nm			5.6mb		
ALN	73.30	311	ePc	30	12.82	-0.9	GRF	84.50	319	ePc	31	14.90	0.6	EKA	92.74	326	Pd	31	55.20	1.7
VRI	73.72	317	ePc	30	16.00	-0.1		2.2s	250.00nm				5.9mb		0.9s	14.80nm			5.4mb	
DIM	73.87	313	eP	30	16.00	-1.0	OGA	84.62	317	iPd	31	15.60	0.4	DUG	128.14	29	PKP	37	48.00	-0.3
KDZ	73.89	312	iPc	30	17.00	-0.2	NB2	84.70	331	P	31	14.80	-0.3	RSSD	128.49	20	PKP	37	47.00	-2.0
MLR	74.18	316	ePc	30	18.00	-1.0		1.4s	44.20nm				5.4mb	SBB	129.36	38	ePKP	37	52.00	1.3
PLD	74.49	313	iP	30	20.00	-0.6	BDI	84.93	314	P	31	16.00	-0.7	GSC	129.56	36	ePKP	37	52.00	0.9
CMP	74.77	316	ePd	30	28.00	5.8X	SAL	84.97	315	Pd	31	18.00	1.3	PEC	130.30	38	PKP	37	52.70	0.2
PGB	74.95	313	iP	30	23.00	-0.4	PII	84.98	313	P	31	16.00	-0.8	TPC	130.83	37	ePKP	37	54.00	0.5
MMB	75.14	312	iP	30	23.00	-1.4	MDI	85.54	315	Pd	31	19.40	-0.1	BAR	131.41	39	ePKP	37	56.00	1.4
SRS	75.17	311	ePc	30	23.14	-1.5	VDL	85.69	316	ePd	31	21.10	0.5	GOL	131.85	24	PKP	37	54.30	-1.3
SOH	75.31	311	ePc	30	23.50	-1.9	BOB	85.74	314	Pd	31	21.60	0.9	ALO	135.37	28	e(PKP)	37	58.00	-4.3X
MAW	75.35	193	iP	30	26.90	1.9	SAX	85.76	317	ePd	31	21.80	0.7	VAO	140.58	238	ePKP	38	12.90	0.8
KKB	75.65	312	iPc	30	26.00	-1.3	LLS	86.01	317	ePd	31	22.60	0.4	TKL	140.63	1	PKP	38	01.70	-10.0X
VTS	75.66	313	iPd	30	27.00	-0.5	TMA	86.11	316	ePd	31	22.60	-0.1	BAO	143.93	249	ePKPd	38	17.70	-0.4
KNT	75.70	311	ePc	30	26.46	-1.1	PGF	86.12	312	iPc	31	22.80	0.1	LVN	148.31	198	ePKP	38	28.00	3.3X
SWZ	75.86	241	iPc	30	29.00	0.1		1.4s	91.50nm				5.8mb	PCH	148.33	200	ePKP	38	30.00	5.1X
	0.6s	100.00nm				5.9mb	SLE	86.32	317	ePd	31	23.50	0.0	TACH	148.44	199	ePKP	38	29.50	4.5X
LIT	75.87	310	ePc	30	27.34	-1.3	ZLA	86.40	317	ePd	31	24.30	0.4	PEL	148.82	200	iPKPc	38	30.50	4.8X
VAY	75.96	311	iP	30	27.70	-1.3	CKI	86.59	314	P	31	25.00	0.2		1.0s	75.00nm				
GRG	76.04	311	ePc	30	27.94	-1.6	FEL	86.65	318	eP	31	25.86	0.7	ROCH	149.09	199	ePKP	38	31.00	4.7X
BMR	76.23	318	ePd	30	31.00	0.6	MMK	86.75	316	ePd	31	26.30	0.4	CFA	149.27	205	e(PKP)	38	27.20	0.8
FNA	76.80	311	iP	30	32.18	-1.6	ODF	87.12	318	eP	31	27.00	-0.4	RTCB	149.61	204	e(PKP)	38	28.90	1.9
SKO	76.88	312	iP	30	31.50	-2.7		0.9s	9.85nm				5.0mb	SIV	155.58	239	PKP	38	33.00	-2.7
OHR	77.27	311	eP	30	31.00	-5.4X	DIX	87.13	316	ePd	31	29.00	1.2		S.D. = 1.1 on 212 of 225 obs.					
	1.0s	80.00nm				5.7mb	SBF	87.22	314	iPc	31	28.10	0.1		NOV 15, 1990 05h 47m 22.00 ± 1.24s					
IGT	77.47	309	eP	30	36.54	-0.9		0.8s	45.65nm				5.7mb		3.923 N ± 5.2km 97.349 E ± 5.3km					
SUF	77.95	334	eP	30	39.00	-0.6	WTS	87.25	322	iPd	31	29.00	1.2		DEPTH = 48.5 ± 10.6 km					
	0.8s	6.50nm				4.7mb		0.8s	35.00nm				5.6mb		5.4mb (59 obs.) 4.9Msz (5 obs.)					
SPC	78.59	319	iP	30	43.80	0.1	WIT	87.29	323	eP	31	29.00	1.0		NORTHERN SUMATERA					
PSZ	78.67	318	iP	30	43.80	-0.2	BSF	87.47	318	eP	31	28.50	-0.6		Felt at Blangkejeren.					
KRA	78.90	320	eP	30	37.00	-8.1X		0.8s	8.05nm				5.0mb	TSI	1.28	109	e(P)	47	37.80	-6.0X
	1.0s	56.00nm				5.5mb	LPG	87.62	315	eP	31	30.30	0.1	IPM	3.72	80	iPc	48	17.00	-1.5
SOD	79.03	338	iP	30	44.20	-1.3		0.7s	26.45nm				5.6mb							
SRO	79.71	318	iP	30	49.00	-0.5	LPL	87.63	315	eP	31	30.20	0.1							
ROI	80.37	309	P	30	56.00	2.7		0.8s	43.00nm				5.7mb	KLM	4.36	101	eP	48	41.00	13.5X
ORI	80.49	310	P	30	53.00	-0.9	BNI	87.70	315	P	31	30.00	-0.3							
TDS	80.55	309	P	30	55.70	1.5	HAU	87.76	318	eP	31	30.10	-0.3	SNG	4.59	45	eP	48	29.80	-0.8
ZST	80.56	318	iP	30	54.20	0.2		0.9s	32.75nm				5.5mb	NNT	8.93	15	eP	49	24.30	-7.0X
CSI	80.60	310	P	30	56.20	1.7	FRF	87.80	313	eP	31	31.00	0.3	PCT	11.41	20	eP	50	03.00	-2.2
CZI																				

• NOV 15, 1990 06h 49m 01.07±1.22s
36.513 N ±10.4km 71.304 E ± 7.5km
DEPTH = 222.6 ± 14.1 km
4.3mb (5 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

QUE 7.28 211 iPc 50 46.20 0.2
eS 52 06.10
NDI 9.26 146 iPc 51 11.00 -0.4
0.5s 42.25nm 4.9mb
eS 52 49.00

GKN 14.10 123 P 52 12.08 -0.6
DMN 14.68 123 P 52 20.04 0.2
KKN 14.68 122 P 52 19.76 -0.1
PKI 14.90 123 P 52 22.58 -0.2
GUN 15.01 121 P 52 24.06 0.0
HYB 20.07 159 eP 53 23.00 4.0X
GBA 23.47 165 P 53 54.00 2.1
S 58 24.00

NUR 37.96 324 eP 55 59.00 0.6
SOD 39.83 335 eP 56 15.00 1.3
HFS 43.21 322 eP 56 40.70 -0.7
0.6s 6.30nm 4.2mb
NB2 44.52 323 P 56 51.60 -0.2
0.7s 4.80nm 4.0mb

KIC 75.03 267 P 00 19.30 -0.8
TIC 75.09 267 P 00 19.90 -0.5
LIC 75.34 267 P 00 21.00 -0.8
YKA 81.22 3 P 00 53.20 0.5
WRA 81.79 122 P 00 56.00 -0.4
1.1s 1.90nm 3.7mb
ASPA 84.06 125 iPc 01 07.80 -0.1
0.5s 4.80nm 4.5mb
S.D. = 0.8 on 18 of 19 obs.

? NOV 15, 1990 06h 49m 52.69±7.17s
46.659 N ±73.0km 0.456 W ±68.5km
DEPTH = 5.0km (geophysicist)

FRANCE (538)

ML 2.4 (LDG).

MFF 0.22 105 Pg 49 56.30 -0.9
Sg 49 58.80
LPF 1.43 344 Pg 50 18.60 -0.7
Sg 50 37.20
LSF 1.43 106 Pg 50 19.00 -0.4
Sg 50 36.80
GRR 1.75 351 Pg 50 24.40 0.5
Sg 50 47.20
TCF 1.88 100 Pg 50 27.20 1.4
Sg 50 50.00
S.D. = 1.4 on 5 of 5 obs.

? NOV 15, 1990 06h 58m 51.91±1.03s
38.670 N ±12.3km 1.035 W ± 7.8km
DEPTH = 10.0km (geophysicist)

SPAIN (377)

mbLg 2.7 (MDD).

ACU 0.51 108 ePg 59 02.50 0.2
ECHE 0.92 3 ePg 59 09.40 -0.1
eSg 59 22.80
EVIA 1.15 269 iPg 59 14.60 1.1
eS 59 29.00
EBAN 2.22 258 iPnc 59 28.20 -1.1
ETOR 2.29 340 ePg 59 35.50 5.2X
eSg 59 03.50
GUD 3.11 310 ePg 59 53.00 10.9X
eSg 00 30.00
S.D. = 1.6 on 4 of 6 obs.

& NOV 15, 1990 07h 25m 24.38s
34.457 N 106.859 W
DEPTH = 6.5km

NEW MEXICO (496)

<SNM>. MD 3.6 (SNM). Felt (IV)
at Jorales and Vegueta; (III) at
La Joya and Tome. Also felt at
Bernardo.

BDNM 0.06 305 P 25 26.60 0.5
LPM 0.24 128 P 25 29.20 -0.1
LAZ 0.24 257 P 25 29.05 -0.3
BNM 0.37 149 P 25 31.55 -0.3
BMNM 0.38 241 P 25 31.80 -0.3
WTX 0.39 191 P 25 31.60 -0.7

CRNM 0.51 168 P 25 34.25 -0.5
SBM 0.55 209 P 25 34.85 -0.6
ALO 0.59 34 iPc 25 35.70 -0.5
SMNM 0.69 191 P 25 37.40 -0.8
PV09 4.43 336 eP 26 33.00 -0.9
MMU 5.17 317 P 26 52.90 8.5
GOL 5.37 12 e(P) 26 48.00 0.9
MSU 5.89 315 e(P) 26 56.30 1.8
DAU 6.90 331 e(P) 27 09.00 0.3
TPC 7.62 270 eP 27 40.00 21.4
GSC 8.22 279 eP 27 57.00 30.0
SBB 9.05 275 eP 28 08.00 29.5
TNP 9.11 296 e(P) 27 40.00 0.5
BIX 9.14 77 eP 28 13.50 33.8
RSSD 9.89 12 e(P) 28 05.50 15.2
21 obs. associated

% NOV 15, 1990 09h 14m 43.04±1.37s
45.922 N ±20.2km 25.860 E ± 5.7km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

CVO 0.24 114 iPd 14 48.00 -0.2
VRI 0.61 95 iPc 14 55.00 -0.3
MTUR 0.89 219 ePc 15 01.00 0.8
ISR 0.92 148 eP 15 04.50 3.8X
BRD 0.93 116 eP 15 04.00 3.3X
TNR 1.14 257 eP 15 03.00 -1.4
COZ 1.22 241 ePd 15 05.00 -0.9
PPE 1.26 76 eP 15 17.50 11.1X
CFR 1.77 114 eP 15 09.00 -4.9X
TLB 2.03 130 eP 15 18.00 0.3
BMR 2.39 318 eP 15 32.00 9.2X
BZS 2.99 266 ePc 15 33.00 1.7
S.D. = 1.3 on 7 of 12 obs.

NOV 15, 1990 09h 43m 11.82±0.55s
15.024 N ±7.7km 122.036 E ± 9.1km
DEPTH = 22.1km (2 depth phases)
4.9mb (10 obs.) 4.3Msz (3 obs.)
PHILIPPINE ISLANDS REGION (248)
Felt (V) at Manila and (IV) at
Quezon City.

OCP 1.00 248 iP 43 19.80 -10.6X
BAG 1.97 315 iPc+ 43 42.00 -2.5
1.0s 1290.00nm
iS 44 06.00
DAV 8.62 156 eP 45 25.60 7.3X
SSE 16.02 357 eP 47 05.20 7.8X
1.0s 9.00nm 3.9mb X
Z 20s 0.50um 5.2Msz
WHN 16.98 337 eP 47 13.00 3.4X
NJ2 17.20 351 eP 47 11.00 -1.3
GYA 18.31 311 P 47 28.60 2.2X
LOE 19.64 280 eP 47 41.00 -1.2
NST 21.13 275 eP 48 03.00 5.3X
BDT 22.23 279 eP 48 10.00 1.3
0.5s 17.90nm 4.8mb
XAN 22.34 330 P 48 09.50 -0.2
CHG 22.41 283 eP 48 11.40 0.9
0.9s 13.24nm 4.4mb
CD2 23.04 316 eP 48 19.00 2.4X
1.0s 20.00nm 4.6mb
Z 18s 1.09um 4.3Msz
IPM 23.13 245 ePc 48 18.70 1.1
TIY 24.15 341 eP 48 28.00 0.6
Z 16s 0.70um 4.2MszX
KUG 25.07 176 eP 48 32.80 -3.5X
BJI 25.44 349 eP 48 39.00 -0.7
1.0s 18.00nm 4.7mb
MAT 25.83 31 (P) 48 49.00 5.6X
eS 53 28.00
LZH 26.54 326 eP 48 53.50 3.4X
1.5s 42.00nm 4.9mb
Z 16s 0.80um 4.4MszX
SNY 26.74 3 Pd 48 52.60 1.0
Z 16s 0.80um 4.4MszX
E 15s 0.90um 4.4MszX
CN2 28.83 5 eP 49 13.00 2.5X
Z 16s 0.70um 4.4MszX
N 12s 0.30um
E 12s 0.30um
epP 49 21.00 28km
MDJ 30.19 11 eP 49 23.00 0.3
GTA 31.15 325 eP 49 33.00 1.6
Z 14s 0.60um 4.4MszX

PKI 36.20 296 P 50 14.94 -0.5
0.8s 22.00nm 5.1mb
KKN 36.36 297 P 50 16.62 0.0
0.9s 26.00nm 5.1mb
DMN 36.47 296 P 50 17.78 0.1
WB5 36.74 160 eP 50 18.40 -1.2
GKN 36.96 297 P 50 20.30 -1.3
ASPA 40.17 163 iPc 50 47.50 -0.7
0.4s 18.50nm 5.2mb
Z 22s 0.20um 3.9Msz
HYB 41.76 279 eP 51 03.50 2.1
GBA 43.18 274 P 51 14.00 0.9
KOD 43.70 269 eP 51 17.00 -0.6
ADE 52.18 163 iPd 52 22.50 -0.6
DZM 57.04 129 iPc 53 02.60 3.7X
MAIO 59.22 303 eP 53 13.00 -1.1
FBA 76.60 26 P 55 02.90 0.8
e 55 08.00 16km

VRI 83.00 315 ePc 55 40.50 3.7X
HFS 85.94 332 eP 55 50.50 -0.8X
1.4s 49.40nm 5.5mb
Z 18s 0.12um 4.3Msz
LR 32 36.00

KRA 86.19 321 eP 55 56.10 3.4X
SPC 86.28 320 eP 55 57.70 4.2X
NB2 86.68 333 P 55 55.20 0.2
1.1s 13.20nm 5.1mb
YKA 91.06 23 P 56 16.80 1.1
S.D. = 1.2 on 26 of 42 obs.

% NOV 15, 1990 09h 45m 56.32±1.25s
40.265 N ±14.4km 29.202 E ± 7.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.0 (ISK).

IZI 0.22 71 iPg 46 01.30 0.2
iSg 46 04.90
YLV 0.33 23 iPg 46 03.30 0.2
iSg 46 07.30
KCT 0.65 269 iPg 46 09.30 0.0
HRT 0.66 32 iPg 46 09.30 -0.2
EYL 0.79 67 iPg 46 11.60 -0.2
S.D. = 0.2 on 5 of 5 obs.

% NOV 15, 1990 09h 54m 51.66±0.86s
39.139 N ± 6.5km 27.309 E ±10.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM 0.74 183 ePg 55 06.50 0.3
eSg 55 19.00
EZN 1.02 312 iPn 55 10.40 -0.6
EDC 1.28 19 ePn 55 15.50 0.1
BNT 1.30 21 iPn 55 15.80 0.0
KGT 1.31 360 iPn 55 16.80 0.9
IZI 2.05 54 ePn 55 26.00 -0.7
S.D. = 0.8 on 6 of 6 obs.

% NOV 15, 1990 09h 57m 25.11±1.12s
39.075 N ± 7.3km 27.618 E ±14.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

IZM 0.73 202 ePg 57 39.50 0.0
eSg 57 51.50
EZN 1.25 307 ePn 57 48.40 0.1
EDC 1.28 8 ePn 57 49.00 0.1
BNT 1.30 10 iPn 57 49.30 0.1
KGT 1.40 350 iPn 57 50.30 -0.3
S.D. = 0.2 on 5 of 5 obs.

? NOV 15, 1990 10h 18m 20.54±1.37s
39.125 N ± 8.1km 27.573 E ±17.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZM 0.77 199 ePg 18 35.50 0.0
eSg 18 47.00
EZN 1.19 306 ePn 18 42.40 -0.4
BNT 1.26 12 ePn 18 43.20 -0.7
KGT 1.34 351 iPn 18 46.30 1.1
S.D. = 1.3 on 4 of 4 obs.

15d 11h

& NOV 15, 1990 11h 44m 41.40s
34.760 N 97.590 W
DEPTH = 5.0km (geophysicist)
OKLAHOMA (499)
<TUL>. mblg 3.9 (TUL). 3.6
(NEIS). Felt (V) at Lindsay and
Moysville. (IV) at Bradley and
(III) at Elmore City. Also felt
at Rush Springs.

FKO	0.53	18	iPg	44	51.00	-1.0
OCO	0.77	7	ePg	44	54.59	-2.2
MEQ	0.82	272	ePg	44	55.90	-1.9
RRO	0.94	318	ePg	45	00.00	0.2
SIO	1.44	46	iPg	45	06.40	-1.8
TUL	1.86	51	iPnd	45	13.87	-0.4
BIX	1.87	49	eP	45	10.50	-3.9
ACO	2.31	327	ePn	45	20.00	-0.8
RLO	2.52	55	iPn	45	22.80	-0.9
OLY	5.07	80	eP	45	57.00	-2.9
FVM	6.61	59	eP	46	18.00	-3.7
ELC	7.23	67	eP	46	26.00	-4.3
ALO	7.29	274	e(P)	46	21.00	-10.4
PWLA	7.83	86	eP	46	34.50	-4.3
GLD	7.86	312	e(P)	46	38.00	-1.3
GOL	7.92	311	eP	46	35.70	-4.6
RSCP	9.88	82	e(P)	47	06.00	-1.1
RSSD	10.59	334	eP	47	14.00	-3.0
BLA	14.12	75	e(P)	48	01.00	-3.3
RSNY	20.21	54	e(P)	49	21.00	1.2

20 obs. associated

? NOV 15, 1990 11h 52m 22.30±1.18s
39.118 N ± 8.8km 27.625 E ± 14.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

Izm	0.77	202	iPg	52	37.50	0.1
			iSg	52	50.00	
EZN	1.23	306	ePn	52	44.90	-0.2
BNT	1.26	10	iPn	52	46.60	0.9
KCT	1.26	26	ePn	52	45.00	-0.8

S.D. = 1.2 on 4 of 4 obs.

NOV 15, 1990 11h 54m 32.62±0.43s
41.845 N ± 5.1km 19.754 E ± 4.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MD 2.9 (TTG).

ULC	0.39	288	iPg	54	40.60	-0.1
			eSg	54	48.00	
TTG	0.69	328	ePg	54	46.10	-0.2
			eSg	54	58.30	
PVY	0.77	12	iPg	54	47.00	-0.7
			iSg	54	59.40	
BDV	0.82	303	ePg	54	49.00	0.5
			eSg	55	04.50	
IVA	1.03	6	ePg	54	52.00	-0.2
			eSg	55	08.30	
QHR	1.07	133	iPg	54	51.10	-1.8
	0.8s	462.00nm				
			iSg	55	07.90	
			Lg	55	11.80	
HCY	1.11	303	iPg	54	54.00	0.5
			iSg	55	10.70	
NKY	1.12	330	iPg	54	54.90	1.2
			iSg	55	11.60	
SKO	1.26	84	iPg	54	56.50	0.4
	0.6s	300.00nm				
			iSg	55	13.70	
			Lg	55	15.20	
BRY	1.38	320	ePg	54	58.50	0.4
			eSg	55	20.00	
PLE	1.51	350	ePg	55	00.50	0.7
			eSg	55	23.00	
FNA	1.62	130	iP	55	02.17	0.8
			eS	55	24.44	
VAY	2.18	103	ePn	55	08.50	-0.9
GRG	2.18	113	ePc	55	09.52	0.0
			iS	55	37.64	
IGT	2.35	169	ePd	55	10.68	-1.2
KNT	2.46	105	ePd	55	13.96	0.6
			eS	55	44.32	
LIT	2.71	129	ePd	55	18.36	1.4
			iS	55	52.05	

SRS	2.97	103	ePc	55	21.00	0.3
			iS	55	57.76	
AGG	3.44	144	ePc	55	28.28	1.0
BZS	4.00	19	ePc	55	34.50	-0.8
VOY	5.95	317	e(Pn)	56	00.80	-2.1
			eSn	57	05.70	

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

% NOV 15, 1990 12h 41m 08.68±0.87s
39.627 N ± 7.8km 29.527 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZI	0.71	357	ePg	41	21.70	-1.0
			eSg	41	33.70	
ALT	0.73	141	ePg	41	23.00	-0.1
YLV	0.95	353	ePg	41	27.70	0.9
KCT	1.09	305	iPn	41	28.40	-0.8
HRT	1.20	5	iPn	41	31.20	0.2
BNT	1.43	301	iPn	41	35.20	0.5
EDC	1.47	300	ePn	41	35.50	0.3

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

? NOV 15, 1990 13h 07m 21.61±28.76s
39.499 N ± 188.km 29.502 E ± 84.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.84	358	ePg	07	37.40	-0.4
YLV	1.07	355	ePg	07	42.20	0.4
			eSg	07	56.20	
KCT	1.16	311	iPn	07	43.20	0.0
HRT	1.33	5	iPn	07	46.20	0.1

S.D. = 0.6 on 4 of 4 obs.

% NOV 15, 1990 13h 19m 15.04±1.05s
39.127 N ± 7.5km 27.682 E ± 12.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

Izm	0.80	204	ePg	19	30.60	0.0
			eSg	19	43.10	
EDC	1.23	7	ePn	19	38.00	0.2
KCT	1.24	25	ePn	19	38.00	0.0
EZN	1.26	304	ePn	19	38.50	0.1
KGT	1.35	348	iPn	19	39.70	-0.2

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

& NOV 15, 1990 13h 33m 48.50s
32.700 N 115.900 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.0 (PAS).

GLA	0.97	68	iPc	34	05.70	-1.6
PLM	1.04	309	iPd	34	07.70	-0.9
PEC	1.59	319	eP	34	17.00	-0.3

3 obs. associated

? NOV 15, 1990 13h 35m 02.23±1.25s
39.122 N ± 8.6km 27.752 E ± 14.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

Izm	0.82	208	ePg	35	18.10	0.0
			eSg	35	30.10	
KCT	1.22	22	ePn	35	25.00	0.1
EZN	1.31	303	ePn	35	26.50	0.1
KGT	1.37	346	iPn	35	27.20	-0.2

S.D. = 0.2 on 4 of 4 obs.

* NOV 15, 1990 13h 38m 31.78±1.85s
3.985 N ± 15.4km 97.591 E ± 15.3km
DEPTH = 60.9 ± 23.1 km
NORTHERN SUMATERA (706)

TSI	1.08	116	ePd	38	51.00	-0.1
			eS	39	08.40	
IPM	3.48	80	ePd	39	25.00	0.4
	0.7s	47.40nm				
			e	40	04.70	
			e	40	48.80	
SNG	4.37	43	eP	39	36.90	-0.3
	0.4s	220.34nm				

GBA	22.07	297	P	43	23.00	-0.1
HYB	22.94	307	eP	43	32.00	0.2
GKN	26.89	334	P	44	00.00	-9.1X
WB5	43.22	125	eP	46	28.80	-0.1

S.D. = 0.4 on 6 of 7 obs.

& NOV 15, 1990 13h 47m 15.70s
47.128 N 76.219 W
DEPTH = 18.0km (geophysicist)
SOUTHERN QUEBEC (447)
<OTT-P>. mblg 4.1 (OTT). Felt
mildly at Maniwaki.

GRO	0.58	155	Pgd	47	26.55	-0.4
			Sg	47	34.78	
TRQ	1.46	128	Pn	47	41.62	0.3
			Sg	48	01.41	
OTT	1.77	168	Pn	47	46.33	0.7
			Sg	48	09.65	
RSNY	2.84	155	eP	47	59.90	-1.1
HBVT	3.54	140	eP	48	10.00	-0.9
BNH	4.30	124	eP	48	21.00	-0.7
WVLY	4.95	201	eP	48	28.50	-2.4
MIM	5.33	108	eP	48	34.00	-2.3
ELF	5.33	224	P	48	33.25	-3.1
LDN	5.39	222	P	48	33.75	-3.4
CBM	5.54	89	eP	48	36.50	-2.8
DLA	5.71	224	P	48	36.10	-5.6
TBR	6.15	166	eP	48	46.00	-1.9
CLE	6.80	216	iP	49	17.50	20.4
SCH	9.72	34	eP	49	32.00	-5.6
YKA	26.42	320	P	52	56.00	3.3

16 obs. associated

% NOV 15, 1990 13h 51m 08.73±0.91s
39.108 N ± 6.7km 27.476 E ± 11.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

Izm	0.73	193	iPg	51	23.10	0.0
			iSg	51	35.60	
EZN	1.14	309	ePn	51	30.00	-0.1
BNT	1.29	15	iPn	51	32.70	0.0
KCT	1.33	31	iPn	51	33.10	-0.1
KGT	1.35	354	iPn	51	33.70	0.2

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

& NOV 15, 1990 14h 08m 28.80s
39.527 N 111.097 W
DEPTH = 1.4km
UTAH (478)
<SLC-P>. CL 3.0 (SLC).

DAU	0.89	352	eP	08	46.30	-0.3
DUG	1.48	297	e(P)	08	56.00	-0.7

2 obs. associated

% NOV 15, 1990 14h 10m 21.15±0.99s
40.316 N ± 18.4km 28.929 E ± 6.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZI	0.42	87	ePg	10	29.60	-0.1
YLV	0.42	53	iPg	10	30.10	0.3
			eSg	10	43.10	
KCT	0.44	261	iPg	10	30.40	0.2
HRT	0.76	48	ePn	10	35.70	-0.3
BNT	0.77	273	ePn	10	36.00	-0.2

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

% NOV 15, 1990 14h 43m 57.71±1.00s
41.109 N ± 12.8km 28.697 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 1.8 (ISK).

CTT	0.21	281	iPg	44	02.10	-0.1
ISK	0.28	99	iPg	44	03.70	0.2
			iSg	44	06.70	
HRT	0.79	111	iPg	44	13.70	0.6
BNT	0.96	218	ePn	44	16.10	0.2
IZI	0.97	142	ePg	44	16.10	-0.1
			eSg	44	30.10	
EYL	1.23	116	ePn	44	20.00	-0.7

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

% NOV 15, 1990 15h 08m 31.40±1.33s
43.731 N ±14.0km 7.029 E ± 8.0km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)

STV 0.56 22 P 08 42.61 -0.1
S 08 51.33
ENR 0.57 30 P 08 42.97 -0.1
PZZ 0.78 4 P 08 46.54 -0.1
ROB 0.83 47 P 08 47.95 0.5
S 09 01.01
CDR 0.92 267 e(Pg) 08 48.90 0.0
e(Sg) 09 03.70
FIN 0.98 60 P 08 49.13 -0.8
PCP 1.36 53 P 08 57.07 0.6
LSD 1.73 3 P 09 06.10 4.2X
S.D. = 0.6 on 7 of 8 obs.

NOV 15, 1990 15h 18m 00.68±0.23s
51.119 N ± 4.2km 93.238 E ± 4.5km
DEPTH = 29.1km (5 depth phases)
5.0mb (50 obs.) 4.1Msz (4 obs.)
CENTRAL USSR (326)

WMO 8.21 209 iPd 20 02.00 1.2
GTA 12.58 156 eP 20 59.00 -1.6
1.0s 10.00nm 4.9mb
Z 14s 1.90um 4.8Msz
BTO 15.69 126 eP 21 41.00 -0.2
N 10s 0.70um
E 10s 0.90um
HHC 16.32 122 eP 21 49.50 0.3
Z 10s 2.80um
KSH 16.79 233 P 21 56.60 1.4
LZH 16.85 149 Pd 21 57.50 1.5
1.5s 57.00nm 4.5mb
Z 18s 1.50um 5.2Msz
E 13s 1.90um
TIY 19.10 127 eP 22 22.00 -1.7
Z 16s 1.20um
N 10s 1.00um
BJI 19.42 116 eP 22 27.50 0.1
0.8s 10.00nm 4.1mb
Z 10s 1.66um 4.2Msz
N 10s 0.91um
XAN 20.53 140 P 22 35.50 -3.7X
CD2 21.65 155 eP 22 50.70 0.1
SNY 22.73 102 Pc 23 03.40 2.3
Z 18s 1.80um 4.6Msz
N 10s 0.60um
E 12s 0.80um
CN2 22.84 96 Pc 23 04.60 2.4
Z 14s 1.50um 4.6Msz
eP 23 12.50 28km
GUN 23.84 196 P 23 12.62 0.2
GKN 23.99 199 P 23 14.00 0.4
KKN 24.07 198 P 23 14.60 0.1
0.6s 77.00nm 5.5mb
PKI 24.25 197 P 23 16.66 0.2
DMN 24.28 198 P 23 17.42 0.8
MDJ 25.05 91 eP 23 29.20 5.6X
NDI 25.45 214 eP 23 27.00 -0.5
0.7s 27.40nm 5.0mb
GYA 26.67 152 P 23 41.20 2.3
MAIO 28.24 252 eP 23 53.00 -0.1
eS 29 03.00
QUE 28.63 233 iPd 23 55.50 -1.3
0.8s 33.58nm 5.1mb
MAT 34.98 97 eP 24 56.00 3.8X
0.7s 5.48nm 4.6mb
TAB 35.26 267 eP 24 56.00 1.3
HYB 35.61 205 eP 24 56.00 -1.7
e 25 04.50 29km
SOD 35.64 322 iP 24 58.70 1.3
POO 35.97 212 eP 24 58.50 -2.2
SUF 36.67 315 iP 25 06.90 0.8
0.6s 5.30nm 4.6mb
NUR 37.95 311 iP 25 17.60 0.7
0.8s 39.60nm 5.3mb
GBA 39.55 205 Pc 25 28.50 -2.1
0.6s 2.40nm 4.1mb
KAS 41.22 280 eP 25 46.00 1.7
UPP 41.47 312 iP 25 46.80 0.8
KOD 42.77 203 eP 25 57.20 -0.3
HFS 43.16 314 eP 25 59.50 -0.4
0.9s 42.30nm 5.2mb

Z 17s 0.47um 4.5Msz
LR 44 15.00
MLR 43.70 290 eP 26 05.00 0.4
KRA 44.74 299 ePd 26 13.00 0.2
0.7s 25.00nm 5.2mb
Z 16s 0.80um 4.7Msz
e 26 20.50 25km
SPC 45.02 298 eP 26 16.10 0.8
DAG 45.48 343 ePd 26 17.80 -0.6
DSI 46.32 268 iPd 26 25.90 0.4
KSP 46.32 301 ePd 26 25.50 0.2
MUD 47.01 311 iPd 26 33.80 3.2X
0.7s 20.00nm 5.2mb
ZST 47.31 298 eP 26 34.20 1.1
PRNI 47.39 267 iPd 26 34.50 0.5
BRG 47.56 302 iPd 26 30.50 -4.6X
1.2s 22.00nm 5.1mb
i 26 41.00 36km
i 26 48.10
PRU 47.72 301 P 26 37.20 0.8
1.0s 14.50nm 5.0mb
CLL 47.82 303 iPd 26 37.70 0.6
1.0s 34.00nm 5.3mb
e 26 46.00 28km
MBH 47.85 267 iPd 26 37.90 0.1
BRW 48.29 24 ePd 26 47.30 6.8X
KHC 48.72 301 iPd 26 45.30 1.1
1.0s 7.00nm 4.6mb
MOX 48.92 303 iPd 26 46.00 0.4
1.0s 26.00nm 5.2mb
GRF 49.67 302 iPd 26 52.50 1.1
1.3s 41.00nm 5.3mb
Z 21s 0.10um 3.8Msz
FVI 50.63 298 P 26 59.00 0.3
SQTA 51.12 300 iPd 27 03.20 0.5
1.0s 20.90nm 5.0mb
MBC 51.19 10 ePd 27 03.00 0.4
0.8s 18.00nm 5.1mb
OGA 51.44 300 iPd 27 05.90 0.7
0.8s 15.00nm 5.0mb
CTI 51.59 298 P 27 05.50 -0.7
MEM 51.85 306 P 27 08.20 0.3
FEL 52.45 302 eP 27 12.22 -0.5
CDF 52.52 303 eP 27 12.80 -0.4
0.8s 10.75nm 4.8mb
IMA 52.55 28 iPd 27 19.60 6.4X
0.8s 10.30nm 4.8mb
DOU 52.88 306 P 27 16.30 0.6
BSF 53.13 303 eP 27 17.00 -0.7
0.8s 10.75nm 4.9mb
HAU 53.26 303 eP 27 18.40 -0.1
0.8s 12.10nm 4.9mb
Z 20s 0.20um 4.2Msz
AKSR 53.37 263 iPd 27 21.00 1.4
AGAL 53.65 263 iPd 27 23.00 1.4
LPL 54.61 301 eP 27 28.60 -0.2
0.9s 6.55nm 4.7mb
LPG 54.62 301 eP 27 28.50 -0.4
1.0s 12.00nm 4.9mb
BNI 54.94 300 P 27 31.00 -0.1
LOR 55.03 304 eP 27 30.60 -1.0
1.0s 10.00nm 4.8mb
Z 20s 0.17um 4.1Msz
FBA 55.11 27 ePd 27 38.60 6.7X
1.1s 84.06nm 5.7mb
LBF 55.15 303 eP 27 31.30 -1.2
0.8s 9.40nm 4.9mb
SSF 55.35 304 eP 27 32.90 -0.9
0.8s 9.40nm 4.9mb
SMF 55.44 303 eP 27 33.50 -1.0
1.0s 18.00nm 5.1mb
AVF 55.60 304 eP 27 34.90 -0.8
0.8s 8.05nm 4.8mb
BGF 56.02 304 eP 27 38.00 -0.7
1.0s 12.00nm 4.9mb
LDF 56.22 307 eP 27 39.20 -0.9
0.8s 21.50nm 5.2mb
FLN 56.29 307 eP 27 39.40 -1.2
0.8s 29.55nm 5.4mb
MAF 56.38 304 eP 27 41.00 -0.3
1.0s 17.00nm 5.0mb
TCF 56.53 304 eP 27 41.90 -0.5
0.8s 10.05nm 4.9mb
GRR 56.72 307 eP 27 42.60 -1.1
0.8s 18.80nm 5.2mb
LPF 57.05 307 eP 27 45.00 -1.0
0.8s 17.45nm 5.1mb

PMR 57.18 30 eP 27 53.50 6.8X
MFF 57.54 305 eP 27 49.10 -0.4
0.8s 18.80nm 5.2mb
TOA 57.70 29 iPd 27 57.30 6.8X
0.9s 74.20nm 5.7mb
LPO 58.13 303 eP 27 53.70 0.0
1.0s 24.00nm 5.2mb
LFF 58.19 303 eP 27 54.20 0.1
0.9s 18.00nm 5.1mb
TOL 64.26 302 eP 28 36.00 0.8
YKA 64.61 14 P 28 35.90 -1.1
FFC 73.76 9 eP 29 39.00 5.6X
1.0s 24.00nm 5.2mb
PNT 76.08 21 eP 29 54.00 7.2X
0.5s 4.00nm 4.7mb
BCAO 76.97 261 iPd 29 51.00 -1.3
0.6s 19.00nm 5.3mb
WB5 79.38 141 eP 30 04.70 -0.5
WRA 79.42 141 P 30 04.00 -1.5
1.1s 5.50nm 4.5mb
LRM 80.92 18 eP 30 21.00 7.4X
ALO 92.57 16 e(P) 31 10.00 -0.7
0.9s 3.36nm 4.8mb
SIV 139.36 320 PKP 37 26.40 -0.5
SPA 140.93 180 ePKP 37 22.00 -6.3X
0.8s 8.33nm
ZOBO 142.16 330 ePKP 37 31.00 -1.6
LPB 142.40 330 ePKP 37 21.00 -11.8X
CNCB 142.62 329 ePKP 37 33.00 -0.3
S.D. = 1.0 on 85 of 100 obs.

? NOV 15, 1990 16h 40m 52.28±1.28s
38.993 N ±17.8km 144.586 E ±19.4km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

MAT 5.61 246 iPd 42 15.00 -0.6
0.7s 24.66nm 4.9mb
(S) 43 16.00
GUN 49.46 276 P 49 42.40 0.7
KKN 49.98 276 P 49 46.00 0.4
GKN 50.38 276 P 49 48.80 0.3
WRA 59.41 191 P 50 54.00 0.1
0.6s 1.80nm 4.4mb
YKA 60.85 31 P 51 13.80 10.5X
GBA 63.85 267 Pc 51 23.80 -0.2
0.7s 3.30nm 4.5mb
HFS 73.31 337 eP 52 21.20 -0.7
0.4s 1.40nm 4.3mb
S.D. = 0.7 on 7 of 8 obs.

% NOV 15, 1990 16h 52m 21.48±1.92s
42.330 N ±10.5km 19.929 E ±13.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

PVY 0.27 7 iPg 52 27.00 -0.2
iSg 52 33.00
TTG 0.50 282 ePg 52 31.00 -0.7
eSg 52 40.00
IVA 0.54 358 ePg 52 32.50 0.0
eSg 52 41.00
ULC 0.62 234 ePg 52 34.00 0.0
eSg 52 45.00
BDV 0.82 267 ePg 52 37.50 0.2
eSg 52 51.20
HCY 1.07 277 ePg 52 41.70 0.1
eSg 53 00.00
BRY 1.17 300 ePg 52 44.00 0.6
eSg 53 05.00
S.D. = 0.5 on 7 of 7 obs.

NOV 15, 1990 17h 32m 26.23±0.41s
0.430 N ± 8.2km 125.325 E ±11.2km
DEPTH = 33.0km (normal)
5.0mb (7 obs.)
MOLUCCA PASSAGE (266)

MTN 14.39 157 eP 35 50.30 0.6
0.3s 17.00nm 5.1mb
WB5 22.04 157 eP 37 19.20 -0.7
eS 41 18.00
QIS 25.11 147 eP 37 50.00 0.3
CHG 31.68 307 eP 38 49.70 0.5
MAT 37.87 17 iPd 39 41.00 -0.9

15d 17h

0.7s 6.85nm 4.6mb
 TIY 38.96 344 eP 39 51.00 -0.1
 CN2 43.18 0 P 40 26.40 0.8
 LSA 43.66 315 eP 40 31.20 0.9
 GTA 45.26 332 Pd 40 42.80 0.1
 0.8s 10.00nm 4.8mb
 GUN 46.62 309 P 40 54.22 0.4
 0.5s 46.00nm 5.7mb
 PKI 46.82 309 P 40 55.44 0.0
 0.5s 11.00nm 5.1mb
 KKN 47.03 309 P 40 57.02 0.1
 DMN 47.08 309 P 40 57.74 0.4
 GKN 47.63 309 P 41 01.76 0.2
 0.7s 33.00nm 5.5mb
 HYB 49.00 293 eP 41 11.50 -0.7
 GBA 49.18 288 Pd 41 12.40 -1.1
 0.6s 3.00nm 4.5mb
 WMO 54.66 327 eP 41 53.60 -0.8
 S.D. = 0.7 on 17 of 17 obs.

& NOV 15, 1990 17h 41m 25.39s
 61.563 N 151.961 W
 DEPTH = 106.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

NCG 0.19 211 iP 41 39.91 0.9
 eS 41 51.60
 CGLM 0.26 185 iP 41 40.09 0.9
 eS 41 52.04
 CRP 0.31 198 iP 41 40.34 -0.9
 BGL 0.36 215 iP 41 40.63 -0.8
 SPU 0.39 187 iP 41 40.45 -1.0
 iS 41 53.36
 CKL 0.41 206 iP 41 40.73 -0.9
 SKT 0.47 26 iP 41 41.05 -0.8
 SUA 0.59 99 iP 41 42.60 -0.3
 iS 41 55.97
 NKA 0.89 157 iP 41 46.52 1.1
 PWA 1.00 84 eP 41 46.42 -0.1
 eS 42 02.67
 RDT 1.02 192 iP 41 45.90 -0.9
 eS 42 02.35
 NCT 1.11 206 iP 41 47.23 -0.7
 eS 42 04.37
 RDN 1.12 201 iP 41 47.16 -0.9
 iS 42 04.42
 REF 1.14 199 iP 41 47.49 -0.8
 iS 42 04.98
 CUT 1.16 43 iP 41 47.87 -0.5
 eS 42 05.26
 RS2 1.17 200 eP 41 47.92 -0.8
 eS 42 06.36
 RSO 1.17 200 eP 41 47.89 -0.8
 eS 42 05.59
 PMS 1.20 104 iP 41 48.33 -0.5
 iS 42 05.41
 PLRM 1.35 88 eP 41 49.26 -1.3
 iS 42 08.65
 PMR 1.35 88 iPc 41 49.30 -1.3
 SLKM 1.36 141 eP 41 49.54 -1.1
 GHO 1.46 80 eP 41 50.70 -1.3
 >NNL 1.56 168 eP 41 53.00 -0.1
 INE 1.60 200 eP 41 52.41 -1.4
 INW 1.61 201 eP 41 52.57 -1.2
 KNK 1.69 94 eP 41 53.32 -1.4
 eS 42 16.12
 HUR 1.79 36 eP 41 54.75 -1.3
 eS 42 16.93
 SVW 1.82 257 ePd 41 53.40 -3.1
 BRK 1.88 163 eP 41 55.71 -1.5
 SEW 1.91 139 eP 41 56.24 -1.3
 iS 42 19.34
 HOM 1.92 175 eP 41 56.91 -0.7
 eS 42 21.25
 OPT 2.02 199 eP 41 58.78 -0.2
 TRF 2.05 22 iP 41 58.20 -1.3
 CNPM 2.08 170 eP 41 58.00 -1.7
 eS 42 23.41
 PDB 2.09 213 iP 41 58.96 -0.9
 SCM 2.22 81 eP 42 00.21 -1.5
 eS 42 27.89
 AUE 2.32 198 eP 42 01.47 -1.4
 TTA 2.34 308 iPc 42 01.10 -2.2
 RND 2.35 37 eP 42 01.73 -1.6
 KNIM 2.39 119 iP 42 00.94 -3.0
 GLI 2.45 104 iP 42 02.08 -2.6

eS 42 32.25
 LTI 2.53 125 iP 42 03.20 -2.5
 MTU 2.64 125 eP 42 05.41 -1.8
 VZW 2.66 99 eP 42 05.21 -2.2
 VLZ 2.75 97 eP 42 06.35 -2.2
 CDD 2.77 198 eP 42 07.45 -1.5
 TOA 2.80 76 iPc 42 08.50 -0.9
 KLU 2.89 89 eP 42 08.29 -2.4
 SDG 3.17 69 eP 42 13.59 -0.8
 PAX 3.35 62 eP 42 15.54 -1.3
 WRH 3.41 29 eP 42 15.13 -2.5
 DDM 3.59 49 iP 42 20.50 0.4
 CCB 3.63 30 eP 42 18.06 -2.4
 HDA 3.65 36 eP 42 18.65 -2.3
 MDM 3.80 25 eP 42 20.37 -2.6
 FBA 3.84 28 eP 42 20.70 -2.8
 GLM 4.01 29 eP 42 23.61 -2.2
 TGL 4.50 96 eP 42 30.63 -1.9
 IMA 4.59 351 iPd 42 31.20 -2.6
 BALM 4.67 92 eP 42 32.70 -2.2
 YAH 5.12 99 eP 42 39.13 -2.1
 DWY 6.26 61 P 42 54.40 -2.3
 YKA 17.39 70 P 45 19.90 -2.4
 63 obs. associated

& NOV 15, 1990 19h 55m 28.59s
 62.917 N 151.305 W
 DEPTH = 107.3km
 CENTRAL ALASKA (1)
 <AGS-P>.

CUT 0.70 137 iP 55 46.77 -0.2
 eS 56 00.18
 TRF 0.71 40 eP 55 46.89 -0.3
 iS 56 01.72
 HUR 0.77 85 eP 55 47.17 -0.4
 eS 56 01.51
 SKT 0.95 186 iP 55 48.87 -0.4
 RND 1.22 65 iP 55 51.87 -0.5
 eS 56 08.92
 MCK 1.35 52 eP 55 53.36 -0.4
 PWA 1.44 152 eP 55 54.83 0.0
 SUA 1.48 170 eP 55 56.09 0.6
 BWN 1.51 32 eP 55 55.93 0.3
 NCG 1.57 195 eP 55 55.94 -0.7
 eS 56 17.01
 GHO 1.60 135 eP 55 56.61 -0.3
 S 56 18.97
 CGLM 1.65 192 eP 55 56.80 -0.8
 PLRM 1.67 142 eP 55 57.04 -0.7
 PMR 1.67 142 eP 55 59.20 1.5
 CRP 1.70 194 eP 55 57.76 -0.6
 BGL 1.74 198 eP 55 58.08 -0.6
 SPU 1.78 192 eP 55 58.41 -0.7
 CKL 1.79 196 eP 55 59.01 -0.4
 PMS 1.87 153 iP 56 00.20 -0.1
 KNK 2.02 137 eP 56 01.14 -1.1
 TTA 2.15 272 iPc 56 02.70 -1.3
 CCB 2.33 40 eP 56 04.94 -1.3
 RDT 2.41 193 eP 56 07.48 0.1
 SLKM 2.47 167 eP 56 07.57 -0.6
 TOA 2.52 107 iPd 56 08.30 -0.5
 FBA 2.52 36 iPc 56 07.50 -1.3
 PAX 2.67 86 eP 56 10.16 -0.7
 SDG 2.68 96 eP 56 10.22 -0.8
 SVW 2.73 230 ePc 56 10.20 -1.4
 GLI 2.86 134 eP 56 11.70 -1.6
 SEW 2.96 162 eP 56 13.43 -1.2
 KNIM 3.09 145 eP 56 13.71 -2.7
 32 obs. associated

NOV 15, 1990 21h 41m 27.75±0.46s
 49.563 N ± 9.7km 156.037 E ± 8.8km
 DEPTH = 33.0km (normol)
 4.6mb (18 obs.)
 KURIL ISLANDS (221)

TTA 29.03 44 iPc 47 26.70 0.2
 0.6s 3.20nm 4.2mb
 IMA 30.38 38 iPd 47 38.50 -0.1
 0.6s 2.50nm 4.2mb
 FBA 32.75 41 iPd 47 59.70 0.6
 0.7s 23.84nm 5.2mb
 YKA 47.50 39 P 50 00.40 -0.6
 CHG 54.66 257 eP 50 56.40 0.7
 KKN 57.17 275 P 51 13.60 -0.4
 PKI 57.24 275 P 51 15.00 0.4

DMN 57.41 275 P 51 14.80 -0.9
 GKN 57.44 276 P 51 10.20 -5.6X
 HFS 66.48 341 eP 52 13.70 -1.9
 0.4s 0.90nm 4.2mb
 WB5 71.76 201 eP 52 49.00 0.4
 WRA 71.83 201 P 52 48.00 -1.0
 0.9s 5.80nm 4.6mb
 GBA 72.39 270 P 52 53.00 0.5
 FLN 79.99 344 eP 53 34.30 -0.5
 0.6s 5.40nm 4.7mb
 LDF 80.09 344 eP 53 34.70 -0.6
 0.8s 5.35nm 4.6mb
 GRR 80.41 345 eP 53 36.80 -0.2
 0.6s 7.20nm 4.8mb
 LPF 80.79 345 eP 53 39.00 0.0
 0.8s 6.70nm 4.7mb
 LPL 81.60 339 eP 53 44.10 0.5
 0.8s 5.35nm 4.6mb
 LPG 81.62 339 eP 53 44.30 0.5
 0.6s 5.40nm 4.7mb
 MAF 81.85 342 eP 53 44.90 0.3
 0.8s 6.70nm 4.7mb
 TCF 81.86 342 eP 53 45.30 0.6
 0.8s 4.70nm 4.6mb
 MFF 82.01 344 eP 53 45.70 0.3
 0.6s 3.60nm 4.6mb
 LSF 82.03 342 eP 53 45.50 -0.1
 0.6s 2.70nm 4.5mb
 RJF 82.94 342 eP 53 50.50 0.2
 CAF 83.19 342 eP 53 52.10 0.4
 0.4s 2.85nm 4.7mb
 LFF 83.45 343 eP 53 53.10 0.2
 0.4s 2.85nm 4.8mb
 LPD 83.60 342 eP 53 54.00 0.3
 0.6s 3.60nm 4.7mb
 PRNI 84.76 312 iPd 54 00.00 0.2
 MBH 85.30 312 eP 54 02.50 0.1
 S.D. = 0.6 on 28 of 29 obs.

* NOV 15, 1990 21h 48m 16.90±1.07s
 26.180 N ± 14.9km 128.699 E ± 16.3km
 DEPTH = 33.0km (normol)
 4.7mb (7 obs.)
 RYUKYU ISLANDS (238)

SSE 8.22 308 P 50 16.20 -0.6
 1.0s 9.00nm 4.8mb
 Z 12s 1.00um
 E 10s 0.80um
 BJI 17.33 326 eP 52 19.00 1.3
 0.5s 18.00nm 4.5mb
 CN2 17.78 352 eP 52 25.00 1.6
 TIY 17.94 314 Pc 52 27.20 1.8
 Z 14s 0.70um
 E 10s 0.40um
 XAN 18.80 299 P 52 35.80 -0.3
 CD2 22.39 288 eP 53 13.00 -0.9
 LZH 23.40 301 eP 53 21.00 -2.9
 GTA 27.50 306 P 53 59.80 -2.6
 0.6s 10.00nm 4.7mb
 GUN 38.04 283 P 55 36.80 2.4
 PKI 38.50 282 P 55 39.20 0.9
 KKN 38.58 282 P 55 39.20 0.4
 DMN 38.76 282 P 55 41.90 1.5
 GKN 39.11 283 P 55 43.60 0.4
 WRA 46.17 173 P 56 41.00 0.6
 0.5s 2.20nm 4.4mb
 SLL 79.02 333 eP 00 17.90 -1.0
 0.8s 14.20nm 5.0mb
 VRI 79.42 316 eP 00 20.00 -1.3
 NB2 79.54 334 P 00 20.70 -1.1
 0.9s 3.90nm 4.4mb
 CLL 84.43 325 eP 00 47.00 -0.3
 FFC 88.45 27 eP 01 07.00 0.1
 0.7s 6.00nm 5.0mb
 S.D. = 1.5 on 19 of 19 obs.

? NOV 15, 1990 21h 59m 07.20±2.01s
 37.918 N ± 15.3km 30.300 E ± 18.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).
 BCK 0.51 153 iPg 59 17.50 -0.1
 iSg 59 27.00
 KHL 0.73 304 iPg 59 21.80 0.1
 iSg 59 33.80

ALT 1.14 353 ePn 59 34.50 5.8X
ELL 1.21 195 ePn 59 30.00 0.2
CIN 1.78 260 eP 59 38.00 -0.2
S.D. = 0.3 on 4 of 5 obs.

& NOV 15, 1990 23h 45m 08.64s
60.612 N 151.181 W
DEPTH = 51.9km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

NKA 0.13 348 iP 45 18.43 3.2
SLKM 0.49 102 iP 45 19.61 -0.4
NNL 0.57 186 eP 45 21.48 0.5
RDT 0.61 267 iP 45 20.72 -0.7
SPU 0.71 324 iP 45 22.07 -0.7
REF 0.76 261 iP 45 22.83 -0.7
RDN 0.79 264 iP 45 22.89 -1.0
RSO 0.79 260 iP 45 23.22 -0.8
RS2 0.79 260 iP 45 23.26 -0.8
CGLM 0.81 330 iP 45 23.51 -0.6

CRP 0.81 325 iP 45 23.71 -0.5
CKL 0.81 317 iP 45 23.48 -0.7
BRLK 0.86 170 eP 45 24.19 -0.6

NCT 0.86 267 iP 45 24.09 -0.8
BGL 0.88 318 iP 45 24.46 -0.6

SUA 0.88 14 iP 45 24.45 -0.6
NCG 0.93 330 iP 45 25.10 -0.6

HOM 0.98 194 eP 45 25.70 -0.7

SEW 1.00 120 eP 45 25.93 -0.6
PMS 1.01 51 iP 45 26.10 -0.7

INE 1.09 240 iP 45 26.85 -1.1
CNPM 1.09 181 eP 45 27.17 -0.7

INW 1.11 241 iP 45 27.30 -1.0

XLV 1.19 193 eP 45 28.37 -0.9
PWA 1.22 31 eP 45 29.18 -0.4

SKT 1.38 353 eP 45 31.50 -0.5
PLRM 1.40 44 eP 45 31.00 -1.1

PMR 1.40 44 iPc 45 31.00 -1.1
OPT 1.41 228 eP 45 31.66 -0.6

KNK 1.55 58 iP 45 33.24 -1.1
GHO 1.60 42 eP 45 33.81 -1.2

AUE 1.67 222 eP 45 35.25 -0.7
AUP 1.68 223 iP 45 36.33 0.1

AGU 1.69 223 eP 45 36.18 -0.2
AUH 1.69 223 eP 45 35.82 -0.5

AUI 1.71 222 eP 45 35.99 -0.5
PDB 1.72 243 iP 45 35.12 -1.5

KNIM 1.73 97 iP 45 34.32 -2.4
LTI 1.75 108 iP 45 34.86 -2.2

CUT 1.85 13 eP 45 38.11 -0.4
MTU 1.87 108 eP 45 37.18 -1.5

GLI 2.02 81 iP 45 38.14 -2.8
CDD 2.10 218 eP 45 41.49 -0.5

SYI 2.10 198 eP 45 32.83 -9.2
MCNL 2.14 229 eP 45 41.05 -1.5

SVW 2.23 285 iPc 45 41.40 -2.5
SCM 2.23 55 eP 45 42.56 -1.4

VZW 2.31 77 iP 45 42.54 -2.5
VLZ 2.43 75 eP 45 44.21 -2.4

HUR 2.49 16 eP 45 48.73 1.3
KLU 2.71 69 eP 45 48.39 -2.3

TOA 2.84 56 iPc 45 51.10 -1.5

KDC 2.95 194 eP 45 54.00 -0.1

TZL 3.13 60 eP 45 54.65 -1.9

TTA 3.27 317 iPc 45 56.90 -1.8

PAX 3.60 46 eP 46 01.81 -1.6

GLB 3.68 74 eP 46 01.43 -3.1

FBA 4.58 18 eP 46 14.70 -2.3

IMA 5.59 349 eP 46 28.70 -2.7

59 obs. associated

? NOV 16, 1990 00h 31m 49.04±9.31s
31.018 S ±17.7km 67.406 W ±79.2km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.92 230 e(P) 32 06.40 0.7
RTLL 0.96 251 iPc 32 07.00 0.7

RTCV 1.28 229 e(P) 32 10.20 -0.6
RTCB 1.28 248 ePc 32 10.50 -0.3

RTBS 1.87 249 e(P) 32 18.70 -0.5
RTRS 1.96 295 ePd 32 20.60 0.0

S.D. = 0.7 on 6 of 6 obs.
? NOV 16, 1990 01h 12m 37.01±3.71s
44.553 N ±8.9km 7.638 E ±28.7km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ENR 0.36 206 P 12 45.02 0.5

STV 0.38 216 P 12 44.20 -0.7
PZZ 0.39 263 P 12 45.22 0.2

BHB 0.39 317 P 12 45.02 -0.1
S.D. = 0.9 on 4 of 4 obs.

& NOV 16, 1990 01h 28m 08.99s
61.526 N 149.136 W
DEPTH = 37.6km

SOUTHERN ALASKA (2)
<AGS-P>. Felt (III) at Butte,
Palmer and Wasilla.

PLRM 0.07 2 iP 28 14.65 -0.5
PMR 0.07 2 iPd 28 14.70 -0.5

GHO 0.27 22 iP 28 16.17 -0.6
KNK 0.35 109 iP 28 17.07 -0.6

PMS 0.35 216 iP 28 17.19 -0.5
PWA 0.38 290 iP 28 17.47 -0.5

SML 0.48 53 iP 28 18.47 -0.9
SUA 0.77 266 iP 28 23.08 -0.5

SCM 0.92 70 iP 28 24.78 -0.8
CUT 1.03 329 iP 28 26.69 -0.4

SLKM 1.15 208 iP 28 28.38 -0.5
GLI 1.18 122 eP 28 28.63 -0.7

SKT 1.23 293 iP 28 29.77 -0.2
NKA 1.29 233 eP 28 32.19 1.4

VZW 1.33 109 eP 28 31.32 -0.2
KNIM 1.36 149 eP 28 30.96 -0.9

CGLM 1.40 262 eP 28 32.55 0.1
VLZ 1.41 105 eP 28 31.99 -0.5

SEW 1.44 186 iP 28 32.66 -0.2
SPU 1.45 257 iP 28 33.05 -0.1

NCG 1.46 266 iP 28 33.68 0.4
CRP 1.48 261 eP 28 34.10 0.5

HUR 1.48 351 eP 28 34.07 0.6
TOA 1.52 66 iP 28 34.69 0.5

KLU 1.54 90 iP 28 34.06 -0.5
CKL 1.58 259 iP 28 35.28 0.2

BGL 1.59 262 eP 28 35.56 0.4
LTI 1.62 157 eP 28 34.47 -1.0

MTU 1.71 154 eP 28 36.05 -0.8
HIN 1.71 130 iP 28 36.75 -0.2

NNL 1.83 216 eP 28 39.06 0.5
TZL 1.84 72 iP 28 39.49 0.8

RDT 1.86 240 iP 28 38.82 -0.2
RND 1.89 4 eP 28 39.81 0.3

CVA 1.92 119 eP 28 39.27 -0.6
BRLK 1.97 207 eP 28 40.06 -0.5

SDG 1.97 58 eP 28 41.10 0.5
TRF 2.00 345 eP 28 41.96 0.7

REF 2.02 241 eP 28 41.35 -0.2
RDN 2.04 242 eP 28 41.40 -0.3

RSO 2.06 240 iP 28 42.08 0.0

RS2 2.06 240 eP 28 42.13 0.0
NCT 2.08 244 eP 28 42.27 -0.1
SGAM 2.17 117 eP 28 42.61 -0.9

PAX 2.25 48 eP 28 45.18 0.5
CNPM 2.26 208 eP 28 44.57 -0.2

INE 2.42 234 eP 28 46.75 -0.4
INW 2.45 235 eP 28 47.31 -0.1

RAGM 2.46 116 eP 28 46.99 -0.6
GLB 2.56 90 eP 28 48.27 -0.7

HMT 2.66 114 eP 28 49.14 -1.3
OPT 2.76 229 eP 28 52.73 0.9

PDB 3.04 237 eP 28 54.77 -1.0
HDA 3.06 18 eP 28 56.85 0.8

TGL 3.15 101 eP 28 56.49 -1.0
SVW 3.16 265 iPc 28 56.50 -1.0

DOT 3.17 46 eP 28 58.47 0.8
CCB 3.19 10 eP 28 57.71 -0.2

BALM 3.32 96 eP 28 58.46 -1.3
FBA 3.44 10 eP 29 01.10 -0.4

MDM 3.47 6 eP 29 01.48 -0.5
TTA 3.51 297 ePc 29 01.20 -1.4

IMA 4.98 338 ePd 29 22.60 -0.9
63 obs. associated

& NOV 16, 1990 01h 38m 15.56s
59.917 N 150.978 W
DEPTH = 38.8km

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

BRLK 0.16 163 iP 38 22.19 -0.3
NNL 0.20 308 iP 38 23.62 0.8

CNPM 0.41 199 iP 38 24.33 -0.8
HOM 0.42 233 iP 38 25.01 -0.2

XLV 0.60 219 iP 38 26.40 -1.2
SLKM 0.70 32 iP 38 28.56 -0.6

SEW 0.79 76 iP 38 29.38 -0.9
NKA 0.84 351 iP 38 32.24 1.3

RDT 0.97 313 iP 38 32.26 -0.7
REF 1.03 304 iP 38 33.12 -0.8

RSO 1.04 302 eP 38 33.32 -0.8
RS2 1.04 302 eP 38 33.34 -0.8

INE 1.06 279 iP 38 33.10 -1.2
RDN 1.07 305 iP 38 33.41 -1.0

NCT 1.17 304 eP 38 34.85 -0.9
OPT 1.17 258 eP 38 35.28 -0.4

AUE 1.34 246 iP 38 37.69 -0.4
AUP 1.36 247 eP 38 38.31 -0.2

AGU 1.37 247 eP 38 38.30 -0.3
AUH 1.37 247 eP 38 38.33 -0.3

AUI 1.37 246 eP 38 38.20 -0.4
SPU 1.38 338 iP 38 38.31 -0.4

CKL 1.45 333 iP 38 39.37 -0.4
CRP 1.47 337 eP 38 40.13 0.0

CGLM 1.48 340 iP 38 40.06 -0.2
SYI 1.50 210 eP 38 39.60 -0.7

PMS 1.50 27 eP 38 40.45 -0.1
BGL 1.52 33 iP 38 40.57 -0.2

SUA 1.56 4 iP 38 41.39 0.1
LTI 1.58 84 eP 38 40.18 -1.3

NCG 1.60 339 iP 38 41.73 -0.2
PDB 1.63 267 eP 38 41.38 -0.8

MTU 1.68 86 eP 38 43.86 1.0
KNIM 1.68 74 eP 38 41.36 -1.6

CDD 1.68 235 iP 38 42.70 -0.3
PWA 1.82 17 eP 38 45.62 0.6

MCNL 1.86 248 eP 38 45.00 -0.6
PLRM 1.91 28 eP 38 45.66 -0.6

PMR 1.91 28 iPd 38 46.50 0.2
KNK 1.95 39 eP 38 45.89 -1.0

SKT 2.09 353 eP 38 49.46 0.6
GHO 2.12 27 eP 38 49.59 0.3

KDC 2.31 201 iPc 38 49.60 -2.4
CUT 2.52 8 eP 38 55.57 0.6

SVW 2.59 299 iPd 38 54.80 -1.2
VLZ 2.60 60 eP 38 54.48 -1.6

SCM 2.62 41 eP 38 56.12 -0.4
KLU 2.95 55 iP 38 59.38 -1.7

TOA 3.21 45 iPd 39 04.20 -0.6
TZL 3.45 49 eP 39 07.16 -1.0

TRF 3.56 5 eP 39 11.17 1.2

16d 01h

GLB 3.84 63 eP 39 11.07 -2.8
 TTA 3.87 324 eP 39 13.10 -1.2
 TGL 4.14 75 eP 39 15.83 -2.2
 BALM 4.42 72 eP 39 18.64 -3.3
 YAH 4.64 80 eP 39 23.61 -1.7
 FBA 5.22 15 eP 39 30.30 -2.8

57 obs. associated

& NOV 16, 1990 03h 36m 41.50s

62.130 N 151.455 W

DEPTH = 86.4km

CENTRAL ALASKA

<AGS-P>.

(1)

SKT 0.15 193 iP 36 53.41 1.0
 CUT 0.62 63 iP 36 56.43 -0.7
 SUA 0.75 153 iP 36 58.26 -0.3
 NCG 0.80 205 iP 36 58.23 -0.9
 CGLM 0.87 198 eP 36 58.87 -0.9
 PWA 0.89 122 iP 36 59.68 -0.2

CRP 0.93 201 eP 36 59.84 -0.7
 BGL 0.98 208 eP 37 00.58 -0.5
 SPU 0.99 197 iP 37 00.33 -0.9
 CKL 1.03 205 iP 37 00.92 -0.7
 HUR 1.20 44 iP 37 02.76 -0.9

PLRM 1.23 115 eP 37 02.71 -1.2
 eS 37 20.55

PMR 1.23 115 iPc 37 02.70 -1.2
 GH0 1.25 106 iP 37 03.64 -0.7

eS 37 21.75
 PMS 1.27 134 iP 37 03.64 -0.9

eS 37 22.17
 NKA 1.40 176 eP 37 07.83 1.7

TRF 1.43 22 iP 37 05.85 -0.9
 iS 37 24.83

KNK 1.60 115 iP 37 07.52 -1.3
 RDT 1.63 197 eP 37 08.31 -0.9

NCT 1.73 205 eP 37 10.46 -0.1
 SLKM 1.73 159 iP 37 09.89 -0.7

RDN 1.74 202 eP 37 09.85 -0.9
 REF 1.75 201 eP 37 10.86 -0.1

RND 1.75 42 eP 37 09.70 -1.2
 eS 37 31.50

RS2 1.79 201 eP 37 11.67 0.2
 RSO 1.79 201 eP 37 11.13 -0.3

SCM 1.97 97 eP 37 12.30 -1.5
 NNL 2.10 178 eP 37 16.03 0.6

INE 2.22 201 eP 37 14.93 -2.3
 SVW 2.24 245 iPc 37 16.00 -1.4

SEW 2.25 154 eP 37 16.02 -1.5
 TTA 2.26 293 iPc 37 15.80 -1.9

BRLK 2.39 173 eP 37 19.75 0.3
 GLI 2.44 119 eP 37 17.15 -2.9

TOA 2.48 88 iPc 37 19.60 -1.2
 KNIM 2.54 133 iP 37 18.08 -3.3

VZW 2.58 112 eP 37 19.80 -2.2
 CNPM 2.62 178 eP 37 22.65 0.1

OPT 2.63 200 eP 37 23.25 0.5
 VLZ 2.64 110 eP 37 20.29 -2.5

NEA 2.68 23 eP 37 21.32 -2.1
 PDB 2.70 211 eP 37 22.62 -1.1

KLU 2.70 101 iP 37 21.52 -2.3
 LTI 2.73 139 eP 37 20.80 -3.3

SDG 2.79 79 eP 37 23.94 -1.0
 WRH 2.80 31 eP 37 22.52 -2.5

TZL 2.84 89 eP 37 24.36 -1.2
 PAX 2.90 70 eP 37 25.08 -1.4

CCB 3.01 31 eP 37 25.92 -2.0
 HDA 3.06 40 eP 37 27.19 -1.4

MDM 3.19 26 eP 37 28.56 -1.8
 CDD 3.39 200 eP 37 34.58 1.4

GLB 3.70 97 eP 37 35.08 -2.4
 IMA 4.07 347 iPc 37 40.50 -2.3

TGL 4.36 105 eP 37 43.52 -3.3
 BALM 4.49 100 eP 37 45.21 -3.4

ANM 6.72 297 iPc 38 18.10 -1.2

57 obs. associated

* NOV 16, 1990 04h 18m 23.44±0.99s

29.884 N ±26.1km 70.582 E ±12.6km

DEPTH = 33.0km (normal)

4.7mb (5 obs.)

PAKISTAN

(710)

NDI 5.92 100 ePn 19 59.50 8.4X

ePg 20 21.50
 eSn 20 59.00
 e 21 36.00
 GKN 12.45 95 P 21 21.48 0.1
 DMN 12.94 97 P 21 29.12 1.1

0.4s 7.00nm 5.1mb
 KKN 13.05 96 P 21 29.36 0.0

PKI 13.21 96 P 21 31.18 -0.4
 GUN 13.55 95 P 21 35.24 -0.8

0.3s 20.00nm 5.5mb
 HFS 48.19 326 eP 27 02.30 -0.1

0.4s 1.10nm 4.2mb
 NB2 49.58 327 P 27 13.20 0.1

0.7s 1.70nm 4.2mb
 WB5 78.84 121 eP 30 25.20 0.1

WRA 78.86 121 P 30 25.00 -0.2
 0.4s 3.20nm 4.7mb

S.D. = 0.6 on 9 of 10 obs.

% NOV 16, 1990 04h 55m 29.10±0.90s

39.344 N ±7.8km 29.156 E ±11.1km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

ALT 0.80 111 ePg 55 43.70 -0.9
 IZI 1.02 14 ePg 55 49.70 1.2

KHL 1.06 164 ePg 55 49.90 0.8
 iSg 56 03.90

KCT 1.09 326 iPg 55 49.70 0.1
 YLV 1.23 8 iPn 55 51.70 -0.4

BNT 1.39 317 ePn 55 53.70 -0.8

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

? NOV 16, 1990 04h 59m 55.53±4.97s

32.376 S ±59.7km 68.760 W ±19.8km

DEPTH = 100.0km (geophysicist)

MENDOZA PROVINCE, ARGENTINA (139)

RTCV 0.55 20 ePc 00 12.00 0.1
 CFA 0.89 30 iPc 00 15.00 -0.1

S 00 33.90
 RTCB 0.89 358 ePd 00 15.30 0.2

eS 00 34.20
 RTBS 0.92 320 ePc 00 15.30 -0.1

RTLL 1.07 13 iPc 00 17.00 -0.1
 (S) 00 34.50

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

& NOV 16, 1990 06h 13m 22.43s

63.048 N 149.551 W

DEPTH = 78.0km

CENTRAL ALASKA (1)

<AGS-P>.

HUR 0.08 209 iP 13 33.76 1.7
 eS 13 42.15

RND 0.48 41 iP 13 35.91 -0.2
 eS 13 45.73

TRF 0.52 321 iP 13 36.71 0.1
 eS 13 46.77

CUT 0.73 207 eP 13 38.36 0.0
 MCK 0.74 22 eP 13 38.49 -0.1

BWN 1.13 2 eP 13 42.86 -0.4
 GH0 1.31 167 eP 13 45.45 -0.2

eS 14 04.50
 PWA 1.41 186 eP 13 46.75 -0.1

SKT 1.41 221 eP 13 46.29 -0.6
 PMR 1.47 172 iPd 13 48.20 0.5

PLRM 1.47 172 eP 13 48.13 0.4
 NEA 1.55 8 eP 13 47.77 -1.0

WRH 1.57 24 iP 13 48.12 -0.9
 SCM 1.60 139 eP 13 49.59 0.1

SUA 1.69 200 eP 13 50.72 0.1
 KNK 1.72 162 eP 13 51.31 0.3

eS 14 14.67
 CCB 1.78 25 eP 13 50.71 -1.1

HDA 1.79 39 eP 13 51.00 -0.9
 PMS 1.81 180 eP 13 53.78 1.5

DDM 1.82 64 eP 13 53.29 0.9
 TOA 1.83 120 iPc 13 53.20 0.6

PAX 1.86 91 eP 13 53.21 0.1
 SDG 1.91 104 eP 13 53.97 0.3

eS 14 19.32
 FBA 2.01 22 eP 13 55.10 0.1

NCG 2.05 218 eP 13 55.11 -0.5
 CGLM 2.09 214 eP 13 56.12 -0.1

TZL 2.16 116 eP 13 57.52 0.5
 CRP 2.17 216 eP 13 55.14 -2.1
 GLM 2.17 25 eP 13 56.10 -1.1

BGL 2.23 218 eP 13 58.47 0.4
 CKL 2.27 216 eP 13 58.43 -0.3

KLU 2.31 131 eP 13 58.02 -1.1
 VLZ 2.45 140 eP 13 59.53 -1.4

SLKM 2.57 187 eP 14 03.18 0.5
 KNIM 2.84 161 eP 14 05.06 -1.4

TTA 2.95 271 iPc 14 06.80 -1.2
 SVW 3.46 238 eP 14 13.90 -1.1

IMA 3.52 331 iPd 14 14.90 -1.0

38 obs. associated

% NOV 16, 1990 06h 17m 29.87±0.50s

38.048 N ±5.8km 14.083 E ±4.1km

DEPTH = 10.0km (geophysicist)

SICILY (398)

GIB 0.07 217 Pc 17 30.30 -2.1
 eSg 17 31.90

MNO 0.50 103 P 17 40.00 0.0
 eSg 17 48.00

MCT 0.55 221 Pc 17 41.30 0.3
 eSg 17 49.60

FAI 0.84 203 Pc 17 47.70 1.7
 eSg 18 01.00

USI 0.97 313 Pc 17 48.00 -0.3
 eSg 18 02.30

CVT 1.09 251 P 17 51.20 0.9
 eSn 18 05.30

ATN 1.09 84 Pc 17 50.30 -0.1
 eSn 18 05.60

MEU 1.16 144 Pc 17 50.80 -0.8
 eSg 18 06.80

MSI 1.17 82 P 17 51.90 0.2
 eSn 18 09.40

ERC 1.18 270 P 17 51.80 -0.1
 LVI 1.38 268 P 17 54.80 -0.3

MGR 2.38 28 P 18 09.00 -0.5
 TDS 2.38 47 P 18 10.80 1.2

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

? NOV 16, 1990 06h 21m 02.64±3.47s

38.071 N ±33.7km 14.053 E ±18.3km

DEPTH = 10.0km (geophysicist)

SICILY (398)

GIB 0.08 194 Pd 21 03.70 -1.6
 eSg 21 05.90

MNO 0.53 105 P 21 13.20 -0.1
 eSn 21 22.50

MCT 0.55 217 P 21 14.30 0.4
 eSg 21 21.10

FAI 0.85 201 P 21 20.00 1.0
 ATN 1.12 85 P 21 23.80 0.2

eSn 21 42.70

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

? NOV 16, 1990 06h 56m 57.19±13.90s

40.521 N ±74.5km 26.128 E ±88.7km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

EZN 0.71 168 iPg 57 10.90 -0.3
 eSg 57 18.40

KGT 0.90 94 iPg 57 14.20 -0.2
 EDC 1.34 97 ePn 57 23.00 1.2

BNT 1.38 96 ePn 57 22.20 -0.2

S.D. = 1.2 on 4 of 4 obs.

NOV 16, 1990 07h 20m 10.16±0.19s

59.707 S ±5.6km 26.244 W ±5.9km

DEPTH = 33.0km (normal)

5.5mb (17 obs.) 5.3Msz (9 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 14S, 35C

Centroid Location:

Origin Time 07:20:14.2 0.2

Lat 60.30S 0.03 Lon 25.60W 0.07

Dep 15.0 FIX Half-duration 2.3

Moment Tensor; Scale 10**17 Nm

Mrr=2.66 0.08 Mtt=-2.61 0.09

Mff=-0.05 0.09 Mrt=-2.00 0.30

Mrf= 1.28 0.26 Mtf=-1.18 0.09
Principal Axes:
T Val= 3.97 Plg=60 Azm=228
N -0.53 25 84
P -3.44 15 346
Best Double Couple: Mo=3.7*10**17
NP1: Strike= 45 Dip=37 Slip= 45
NP2: 277 65 118

AIA 18.20 236 eP 24 22.80 1.4
MAW 36.95 140 eP 27 17.00 -0.2
1.0s 53.00nm 5.4mb
PCH 38.93 292 eP 27 34.50 0.1
FCH 39.06 293 iP 27 36.40 0.6
LNV 39.08 291 iPd 27 25.00 -10.4X
TACH 39.10 292 iP 27 35.00 -0.7
SAN 39.14 292 eP 27 36.00 0.0
PEL 39.40 292 iPc 27 38.50 0.2
0.6s 230.00nm 6.1mb
VAO 39.48 329 eP 27 40.50 1.4
LCCH 39.54 291 eP 27 40.00 0.6
CFA 39.56 296 eP 27 39.00 -0.5
ITB7 39.65 318 eP 27 43.20 2.8
ROCH 39.70 292 iP 27 35.00 -5.9X
JFO 39.84 335 e(P) 27 43.60 1.6
ITB 39.97 318 e(P) 27 43.50 0.6
ITB1 40.16 318 e(P) 27 44.50 0.0
PPD 41.62 324 iPd 27 56.60 0.0
SBA 42.46 184 iPc 28 04.00 1.2
CRZF 45.99 110 eP 28 45.00 13.5X
eS 35 25.00
eSS 38 50.00
LR 39 40.00
BAO 46.80 331 ePc 28 38.70 0.3
PRY 49.00 72 iPc 28 58.00 2.5
0.5s 3.24nm 4.6mb
EVA 50.13 74 iPc 29 05.00 0.8
0.5s 21.13nm 5.4mb
SIV 50.49 315 iPc 29 05.80 -1.0
CCH 51.15 308 P 29 11.80 -0.3
SOB1 51.59 341 ePc 29 14.60 -0.6
e 29 29.20
e 29 38.40
LPB 52.70 306 Pc 29 24.00 0.0
1.0s 104.00nm 5.7mb
Z 19s 2.78um 5.3msz
ZOBO 52.95 307 iPc 29 26.00 0.0
S 36 54.00
LR 45 48.00
DRV 53.53 173 eP 29 28.20 -0.8
ARE 54.18 303 eP 29 35.00 0.3
BUL 55.30 69 iPc 29 40.90 -1.9
1.0s 52.50nm 5.5mb
KRI 58.63 68 iPc 29 54.00 -12.4X
iP 30 02.10 27kmX
NNA 60.48 300 iP 30 18.30 -0.7
0.8s 26.87nm 5.4mb
LIC 67.85 23 Pc 31 07.90 0.9
0.6s 25.50nm 5.5mb
Z 20s 0.93um 5.0msz
KIC 68.04 23 Pc 31 08.90 0.7
0.6s 18.50nm 5.3mb
TIC 68.26 23 P 31 10.22 0.6
LKO 70.98 22 Pc 31 26.16 -0.1
0.6s 28.00nm 5.5mb
BCAO 72.99 47 iPc 31 39.20 1.0
0.6s 46.00nm 5.7mb
id 32 03.60
BOG 74.32 310 e(P) 31 44.00 -2.3
CEOS 76.28 317 iP 31 55.50 -1.6
OLLA 76.68 319 iP 31 58.50 -0.9
LTZ 76.74 194 P 31 59.70 0.3
SDV 76.96 315 iPd 32 00.50 -0.5
GUAC 77.00 318 iP 32 00.50 -0.7
THZ 77.66 195 P 32 05.50 1.0
WLZ 81.14 197 P 32 23.20 0.0
TOO 82.84 173 eP 32 32.00 -0.1
NWA0 82.90 150 eP 32 32.00 -0.4
0.6s 8.00nm 5.0mb
Z 20s 0.70um 5.0msz
N 20s 0.50um
E 20s 0.20um
BFD 83.03 171 eP 32 35.00 2.0
MUN 83.53 149 iPd 32 34.60 -1.1
0.9s 58.00nm 5.7mb
KLB 84.30 150 iPd 32 40.10 0.5

0.8s 30.00nm 5.5mb
ADE 84.85 168 iPd 32 43.20 0.8
1.1s 81.01nm 5.8mb
BAL 84.96 149 eP 32 43.00 0.1
CAN 85.24 176 eP 32 44.00 -0.3
MRWA 86.09 148 eP 32 49.00 0.4
BWA 86.11 176 eP 32 48.50 -0.2
MEKA 89.24 149 eP 33 04.00 0.2
COO 90.04 178 iPd 33 08.60 1.0
RMQ 94.03 176 eP 33 35.00 9.0X
MBL 94.78 148 eP 33 29.50 0.1
ASPA 95.34 162 iPc 33 31.20 -0.9
0.8s 33.80nm 5.8mb
Z 22s 4.40um 5.9msz
WRA 99.06 162 P 33 47.00 -1.9
0.7s 7.20nm 5.3mb
WB5 99.13 162 eP 33 48.90 -0.3
GBA 108.54 95 PKPd 38 35.30 -1.4
0.5s 1.80nm
ALQ 114.88 297 e(PKP) 38 55.00 6.3X
Z 18s 0.69um 5.3msz
QUE 117.11 76 ePKP 38 54.00 1.0
BDT 122.24 113 ePKP 39 01.80 -1.0
PRI 122.53 287 ePKP 39 03.00 0.0
FRI 122.75 288 ePKP 39 03.00 -0.2
LLA 123.05 287 ePKP 39 04.30 0.4
HFS 123.48 23 ePKP 39 01.80 -2.1
0.4s 2.90nm
Z 17s 0.65um 5.4mszX
LR 24 03.00
CHG 123.57 112 ePKP 39 05.10 -0.3
NB2 123.86 21 PKP 39 04.70 -0.1
0.7s 3.70nm
GCC 123.89 286 ePKP 39 06.00 0.5
CMB 123.90 288 ePKP 39 05.20 -0.4
MHC 123.96 287 ePKP 39 07.00 1.2
UPP 124.04 25 iPKP 39 04.10 -0.9
DMN 124.13 93 PKP 39 06.28 -0.4
0.6s 44.00nm
GKN 124.22 92 PKP 39 06.00 -0.7
0.6s 77.00nm
PKI 124.26 93 PKP 39 06.56 -0.4
0.6s 45.00nm
KKN 124.37 93 PKP 39 06.76 -0.3
0.6s 66.00nm
BKS 124.67 287 ePKP 39 07.80 0.8
0.6s 22.00nm
BRK 124.68 287 ePKP 39 07.60 0.6
GUN 124.77 94 PKP 39 07.76 -0.2
0.7s 74.00nm
NUR 126.22 28 iPKP 39 09.20 -0.1
0.6s 13.00nm
LRM 126.35 300 ePKP 39 10.20 -0.2
FFC 129.02 314 ePKP 39 14.00 -0.8
0.7s 7.00nm
EDM 132.33 306 ePKP 39 20.00 -1.2
SOD 132.56 25 iPKP 39 21.20 0.1
DAG 136.30 2 iPKPc 39 27.60 -0.4
0.4s 11.86nm
YKA 139.17 315 ePKP 39 32.50 -1.2
0.6s 14.00nm
LZH 140.35 104 PKP 39 36.50 -0.4
XAN 141.15 111 PKP 39 35.00 -3.3X
NJ2 143.93 124 PKPd 39 41.50 -1.5
Z 22s 0.30um 5.0msz
SSE 144.04 128 ePKP 39 41.00 -2.2
Z 20s 0.50um 5.3msz
TIY 145.79 111 PKPc 39 47.00 0.8
N 12s 1.30um
pPKP 39 57.00
TIA 146.72 118 ePKP 39 49.60 2.0
BTO 146.89 105 iPKPc 39 50.00 2.1
MBC 147.51 334 ePKP 39 46.50 -1.2
0.7s 20.00nm
HHC 147.84 107 ePKP 39 52.00 2.6
INK 148.89 317 ePKP 39 38.00 -12.0X
BJI 149.40 113 ePKP 39 56.50 4.8X
DL2 150.94 121 ePKP 39 59.00 5.0X
TOA 151.60 301 iPKPd 40 01.50 7.1X
0.6s 78.60nm
PMR 152.70 299 iPKPd 40 02.00 6.1X
FBA 153.22 306 iPKPd 40 02.70 6.1X
SNY 154.19 120 ePKP 40 03.90 5.3X
Z 22s 0.50um 5.3msz
MAT 154.73 150 ePKP 40 08.00 8.5X
1.3s 28.85nm
SVW 155.46 295 iPKPd 40 08.50 8.7X

IMA 155.88 308 iPKPd 40 10.10 9.8X
TTA 156.18 299 iPKPd 40 10.90 10.1X
CN2 156.59 120 PKP 40 02.00 0.2
Z 18s 0.80um 5.6msz
epPKP 40 10.00
e 40 31.00
S.D. = 1.0 on 93 of 111 obs.
% NOV 16, 1990 08h 33m 51.69±0.85s
40.588 N ± 6.1km 27.219 E ± 7.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
KGT 0.15 155 iPg 33 55.20 0.0
EDC 0.55 116 ePg 34 03.00 0.2
eSg 34 10.00
BNT 0.58 113 iPg 34 03.10 -0.4
eSg 34 09.60
EZN 1.02 222 iPn 34 11.00 0.0
CTT 1.07 58 iPn 34 11.60 -0.3
DMK 1.30 18 iPn 34 15.90 0.2
ISK 1.48 71 iPn 34 17.70 -0.6
YLV 1.64 90 iPn 34 21.70 1.0
GBZT 1.70 83 ePn 34 22.00 0.4
iSg 34 44.00
IZI 1.74 98 ePn 34 21.10 -1.1
HRT 1.88 82 iPn 34 23.20 -0.9
IZM 2.19 179 ePn 34 33.00 4.3X
EYL 2.24 90 ePn 34 31.00 1.5
S.D. = 0.8 on 12 of 13 obs.
% NOV 16, 1990 08h 58m 10.48±0.77s
31.593 S ± 15.7km 68.967 W ± 15.3km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)
RTCB 0.18 53 eP 58 26.50 0.1
S 58 39.00
RTBS 0.42 261 eP 58 27.00 0.0
RTCV 0.45 126 e(P) 58 27.20 -0.1
RTL 0.50 82 iPc 58 27.40 -0.2
eS 58 40.50
CFA 0.62 91 eP 58 28.70 0.2
RTRS 1.48 343 iPc 58 37.40 0.0
S.D. = 0.2 on 6 of 6 obs.
? NOV 16, 1990 10h 06m 49.61±1.50s
2.882 N ± 18.8km 95.823 E ± 12.0km
DEPTH = 33.0km (normal)
4.9mb (3 obs.)
OFF W COAST OF NORTHERN SUMATERA(705)
TSI 2.81 77 ePc 07 35.80 2.7
eS 08 02.10
IPM 5.46 72 ePc 08 09.80 -1.0
0.5s 27.30nm 5.0mb
e 08 20.90
e 09 50.50
SNG 6.40 48 eP 08 24.00 -0.1
e 23 38.90
CHG 16.13 11 eP 10 34.20 -1.4
PKI 26.49 339 Pd 12 26.64 0.3
0.6s 11.00nm 4.7mb
DMN 26.64 338 Pd 12 28.06 0.5
0.6s 17.00nm 4.8mb
GUN 26.64 340 Pd 12 28.38 0.7
0.8s 38.00nm 5.1mb
KKN 26.74 339 Pd 12 28.86 0.4
0.9s 38.00nm 5.0mb
GKN 27.17 338 Pd 12 32.88 0.6
0.7s 72.00nm 5.4mb
LZH 33.86 12 eP 13 30.00 -1.5
1.5s 23.00nm 4.9mb
WB5 44.09 123 eP 14 55.50 -1.2
WRA 44.09 123 P 15 04.00 7.2X
0.5s 2.20nm 4.2mb
S.D. = 1.4 on 11 of 12 obs.
? NOV 16, 1990 11h 53m 30.63±2.17s
33.728 S ± 12.3km 177.395 W ± 30.7km
DEPTH = 33.0km (normal)
4.8mb (2 obs.)
SOUTH OF KERMADEC ISLANDS (179)
HBZ 5.21 221 P 54 49.70 1.4
PUZ 5.59 218 eP 54 53.00 -0.6
eS 55 54.50

16d 11h

NOZ 6.12 216 eP 55 02.20 1.1
 TAZ 6.68 226 eP 55 10.30 1.3
 MNG 8.92 218 eP 55 37.40 -2.8
 DZM 18.38 305 iPd 57 45.00 0.3
 ASPA 43.54 270 iPc 01 32.80 -0.3
 0.9s 10.90nm 4.6mb
 Z 17s 0.40um 4.4mszX
 WRA 44.82 275 P 01 42.00 -1.5
 0.6s 11.00nm 4.9mb
 WB5 44.83 275 eP 01 43.10 -0.4
 IPM 85.54 278 ePc 06 08.80 1.8
 BCAO 147.30 210 ePKPd 13 10.30 -0.2
 0.8s 7.00nm
 ic 13 24.40

NUR 149.60 338 ePKP 13 25.00 12.4X
 KIC 151.93 164 PKP 13 34.60 17.0X
 NB2 152.11 351 PKP 13 30.80 14.3X
 0.8s 3.20nm
 HFS 152.60 348 ePKP 13 31.30 14.2X
 0.5s 1.80nm
 S.D. = 1.5 on 11 of 15 obs.

& NOV 16, 1990 12h 12m 00.32s
 60.012 N 153.134 W
 DEPTH = 118.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

INW 0.06 1 iP 12 16.11 0.8
 eS 12 28.72
 INE 0.06 36 iP 12 16.01 0.7
 eS 12 29.18
 OPT 0.36 188 iP 12 16.94 -0.7
 eS 12 29.71
 RS2 0.49 22 iP 12 17.77 -0.8
 RSO 0.49 23 iP 12 17.74 -0.8
 REF 0.53 24 iP 12 17.97 -0.8
 iS 12 32.43
 RDN 0.54 20 iP 12 18.02 -0.7
 PDB 0.58 248 iP 12 17.96 -0.9
 eS 12 31.31
 AUE 0.67 191 iP 12 18.54 -0.9
 AUP 0.67 193 eP 12 18.81 -0.8
 AUH 0.67 194 eP 12 18.90 -0.7
 RDT 0.67 32 iP 12 18.76 -0.9
 eS 12 32.98
 AUI 0.70 192 eP 12 18.84 -0.9
 HOM 0.83 115 eP 12 20.34 -0.5
 eS 12 35.41
 XLV 0.91 127 eP 12 19.96 -1.7
 >NNL 0.92 87 eP 12 21.75 0.0
 MCNL 1.03 217 eP 12 21.71 -1.1
 CNPM 1.08 116 iP 12 22.23 -1.1
 CDD 1.12 194 eP 12 22.48 -1.3
 BRK 1.16 101 eP 12 23.24 -1.0
 NKA 1.19 51 eP 12 25.34 0.8
 CKL 1.25 18 iP 12 24.74 -0.6
 SPU 1.29 24 iP 12 24.84 -0.8
 BGL 1.31 16 iP 12 25.52 -0.4
 CRP 1.35 21 iP 12 25.96 -0.5
 CGLM 1.41 23 iP 12 26.47 -0.6
 SYI 1.46 165 eP 12 26.08 -1.4
 eS 12 46.25
 NCG 1.48 19 iP 12 27.54 -0.3
 SLKM 1.54 70 eP 12 27.11 -1.4
 SVW 1.65 313 iPd 12 28.60 -1.3
 SUA 1.87 38 iP 12 31.96 -0.7
 eS 12 56.63
 SKT 2.12 21 iP 12 34.79 -1.0
 PMS 2.15 53 eP 12 34.77 -1.4
 PWA 2.29 43 eP 12 36.58 -1.3
 KDC 2.30 171 iPd 12 35.30 -2.6
 PLRM 2.52 49 eP 12 38.75 -2.1
 PMR 2.52 49 iPd 12 39.20 -1.7
 LTI 2.65 87 iP 12 40.74 -1.8
 KNK 2.69 57 eP 12 40.71 -2.5
 GHO 2.71 48 eP 12 41.15 -2.3
 KNIM 2.72 81 eP 12 40.62 -2.9
 MTU 2.75 88 eP 12 42.55 -1.4
 CUT 2.77 29 eP 12 42.90 -1.3
 TTA 3.24 336 iPc 12 49.00 -1.5
 SCM 3.37 55 eP 12 49.08 -3.2
 VZW 3.42 69 eP 12 50.25 -2.6
 VLZ 3.54 69 eP 12 51.54 -2.9
 TRF 3.71 20 eP 12 55.06 -1.9
 KLU 3.84 64 eP 12 54.76 -3.8

RND 3.97 29 eP 12 58.23 -2.1
 TOA 3.98 55 iPc 12 58.70 -1.8
 PAX 4.72 48 eP 13 07.81 -2.8
 GLB 4.80 69 eP 13 08.35 -3.2
 NEA 4.96 21 eP 13 11.32 -2.4
 WRH 5.06 26 eP 13 12.10 -3.0
 FBA 5.49 24 iPc 13 18.60 -2.4
 56 obs. associated

* NOV 16, 1990 12h 26m 26.20 ± 1.82s
 51.228 N ± 21.1km 15.710 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.0 (KRA).

KSP 0.53 136 iPd 26 34.90 -2.1
 0.4s 62.00nm
 iS 26 43.50
 eLR 26 51.00
 BRG 1.17 253 iPn 26 48.20 0.2
 iPg 26 49.80
 iSg 27 09.20
 PRU 1.45 211 Pn 26 53.50 1.1
 Pg 26 54.80
 i 26 57.00
 Sn 27 11.80
 Sg 27 18.70
 CLL 1.70 274 iPn 26 54.70 -1.4
 iPg 26 57.10
 eSg 27 23.00
 KHC 2.51 214 iPn 27 08.10 0.4
 iPg 27 15.00
 Sn 27 39.90
 Sg 27 57.50
 HOF 2.60 251 ePn 27 08.70 -0.3
 KRA 2.94 112 eP 27 15.50 1.8
 iS 27 53.50
 S.D. = 1.6 on 7 of 7 obs.

& NOV 16, 1990 12h 59m 12.74s
 57.326 N 143.100 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AGS-P>.

MID 2.71 322 eP 59 50.85 -6.3
 YKU 2.85 37 eP 59 54.37 -4.7
 eS 00 25.11
 PNL 3.05 38 iP 59 56.42 -5.5
 eS 00 28.76
 HON 3.08 44 eP 59 56.53 -5.8
 eS 00 31.37
 YAH 3.13 12 iP 59 58.01 -5.2
 eS 00 32.45
 YAH 3.13 12 iP 59 58.09 -5.1
 BCPM 3.20 33 iP 59 58.48 -5.5
 eS 00 33.44
 TGL 3.44 2 eP 00 01.81 -5.8
 LTI 3.68 320 eP 00 03.66 -7.3
 BALM 3.74 6 iP 00 06.09 -5.8
 KNIM 3.87 323 eP 00 06.19 -7.4
 eS 00 46.97
 GLI 4.12 332 eP 00 10.09 -6.9
 VZW 4.14 336 eP 00 10.50 -7.0
 GLB 4.15 355 iP 00 11.25 -6.2
 VLZ 4.16 338 eP 00 10.59 -7.0
 SEW 4.33 313 eP 00 13.26 -6.7
 KLU 4.42 342 eP 00 14.58 -6.9
 HYT 4.54 37 P 00 17.90 -5.3
 BRK 4.75 304 eP 00 19.67 -6.5
 CNPM 4.81 301 eP 00 19.65 -7.3
 SLKM 4.88 314 eP 00 20.94 -6.9
 TZL 4.88 347 eP 00 21.76 -6.1
 KNK 4.93 328 eP 00 22.38 -6.2
 SCM 5.01 336 eP 00 23.25 -6.5
 TOA 5.04 343 eP 00 23.13 -7.1
 KDC 5.08 279 eP 00 24.94 -5.7
 SYI 5.11 288 eP 00 25.22 -5.9
 PMS 5.14 323 eP 00 24.96 -6.6
 PLRM 5.27 327 eP 00 27.92 -5.4
 GHO 5.35 329 eP 00 28.92 -5.7
 PWA 5.54 324 eP 00 31.22 -6.0
 SUA 5.70 320 eP 00 32.69 -6.8
 RDT 5.81 308 eP 00 33.76 -7.3
 CDD 5.81 290 eP 00 34.42 -6.6
 REF 5.90 307 eP 00 35.19 -7.2
 RSO 5.91 306 eP 00 35.58 -7.0

RS2 5.91 306 eP 00 35.73 -6.9
 RDN 5.94 307 eP 00 34.84 -8.0
 SPU 6.00 314 eP 00 36.47 -7.2
 NCT 6.03 307 eP 00 35.75 -8.5
 CGLM 6.06 315 eP 00 38.08 -6.5
 CRP 6.09 314 eP 00 37.35 -7.7
 CKL 6.12 313 eP 00 38.38 -7.1
 NCG 6.17 315 eP 00 38.80 -7.4
 BGL 6.18 314 eP 00 39.50 -6.8
 CUT 6.24 328 eP 00 40.93 -6.1
 PDB 6.31 298 eP 00 40.45 -7.6
 SKT 6.32 321 eP 00 40.81 -7.5
 TRF 7.10 333 eP 00 52.88 -6.4
 49 obs. associated

& NOV 16, 1990 13h 29m 44.40s
 38.433 N 122.760 W
 DEPTH = 6.0km
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 2.B (BRK). Felt at
 Santa Rosa.

NWRM 0.10 283 iPc 29 46.50 -0.2
 ZSP 0.63 141 iPc 29 56.70 -0.3
 iS 30 09.00
 BRK 0.68 145 iPc 29 57.50 -0.6
 iS 30 08.20
 BKS 0.69 143 iPd 29 57.50 -0.8
 eS 30 08.10
 e 30 20.10
 PCC 0.98 162 iPc 30 02.00 -1.3
 iS 30 16.50
 MHC 1.40 141 iPd 30 09.20 -1.4
 eS 30 28.40
 ARN 1.45 138 eP 30 08.80 -2.5
 ORV 1.49 41 eP 30 09.70 -2.0
 GCC 1.53 156 eP 30 13.50 1.3
 CMB 1.91 101 eP 30 16.10 -1.8
 eS 30 40.10
 SAO 1.97 147 iP 30 17.00 -1.6
 11 obs. associated

? NOV 16, 1990 14h 14m 27.82 ± 1.51s
 11.844 N ± 11.9km 62.256 W ± 26.0km
 DEPTH = 159.4 ± 17.6 km
 4.3mb (2 obs.)
 WINDWARD ISLANDS (95)

BBL 3.73 12 eP 15 25.00 -0.5
 MGG 4.15 13 eP 15 32.00 1.0
 SEG 4.59 9 eP 15 37.00 0.3
 DEG 4.59 15 eP 15 36.00 -0.8
 SIV 27.68 178 P 20 02.20 -0.8
 ZOBO 28.53 192 P 20 12.00 0.7
 e 26 40.00
 FVM 36.20 321 P 21 18.70 1.9
 GOL 47.07 314 P 22 45.00 -0.7
 TNP 55.33 308 P 23 47.30 -0.3
 YKA 62.72 336 eP 24 35.80 -1.9
 0.3s 1.90nm 4.5mb
 NB2 71.72 29 P 25 34.80 0.8
 0.9s 2.90nm 4.0mb
 RMO 147.40 239 ePKP 33 52.50 0.3
 S.D. = 1.2 on 12 of 12 obs.
 NOV 16, 1990 14h 34m 14.02 ± 0.70s
 39.867 N ± 6.4km 24.002 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.0 (ATH).

PAIG 0.26 284 iPd 34 19.80 0.4
 eS 34 23.51
 OUR 0.47 358 iPc 34 24.53 1.0
 eS 34 30.92
 PLG 0.66 320 iPnc 34 26.40 -0.8
 eSn 34 35.00
 SOH 1.08 333 iPc 34 34.85 0.6
 eS 34 49.55
 THE 1.10 314 ePc 34 35.23 0.5
 eS 34 50.44
 LIT 1.19 282 ePc 34 35.96 -0.2
 eS 34 52.03
 SRS 1.29 346 ePd 34 37.92 0.0
 iS 34 55.64
 KNT 1.54 327 ePd 34 42.23 0.6
 eS 35 03.92

[illegible]

16d 16h

PRU 143.96 347 PKPd 00 08.80 -1.2
1.0s 14.50nm
MEM 144.61 356 PKP 00 11.20 0.1
SNF 144.80 358 PKP 00 11.80 0.4
HRI 144.84 307 ePKP 00 13.00 0.8
GRF 144.89 350 iPKPd 00 12.50 0.8
SRO 144.93 341 iPKP 00 12.50 0.8
ZST 144.96 343 ePKP 00 12.30 0.5
KHC 144.98 347 iPKPd 00 13.50 1.7
1.4s 29.00nm
DOU 145.20 357 PKP 00 13.00 0.9
DSI 145.75 304 ePKP 00 16.00 2.4X
FLN 146.51 3 iPKPd 00 16.40 2.1X
0.5s 13.10nm
CDF 146.68 354 ePKP 00 17.30 2.6X
0.9s 19.65nm
LDF 146.70 3 iPKPd 00 16.80 2.2X
0.6s 9.00nm
MBH 146.75 301 ePKP 00 19.00 3.8X
GRR 146.86 4 iPKPd 00 17.40 2.5X
0.5s 14.60nm
LPF 147.20 4 iPKPd 00 18.70 3.3X
0.5s 24.80nm
SOTA 147.28 349 iPKPd 00 19.20 3.4X
0.9s 12.30nm
LOR 148.06 358 ePKP 00 21.00 4.1X
0.6s 7.20nm
SSF 148.27 358 ePKP 00 21.80 4.6X
1.0s 15.00nm
LBF 148.34 358 ePKP 00 21.70 4.4X
0.7s 9.90nm
AVF 148.55 359 ePKP 00 22.00 4.4X
0.9s 8.20nm
MFF 148.68 3 ePKP 00 22.40 4.6X
TCF 149.06 0 ePKP 00 23.40 4.9X
0.7s 5.50nm
LSF 149.09 1 ePKP 00 23.30 4.8X
MAF 149.13 360 ePKP 00 23.90 5.4X
0.9s 16.40nm
LPL 149.60 354 ePKP 00 26.00 6.4X
0.9s 12.30nm
LPG 149.62 354 ePKP 00 26.10 6.4X
0.9s 13.10nm
OHR 149.65 332 ePKP 00 25.00 5.5X
LFF 150.38 2 ePKP 00 26.90 6.5X
0.6s 8.10nm
CAF 150.43 0 ePKP 00 27.10 6.5X
0.7s 9.90nm
LPO 150.65 2 ePKP 00 27.50 6.6X
S.D. = 1.0 on 31 of 54 obs.

NOV 16, 1990 16h 29m 04.23±1.01s
52.099 N ± 7.7km 170.983 W ± 3.9km
DEPTH = 56.1 ± 8.6 km
4.8mb (29 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 3.53 269 iPc 29 58.40 0.6
SDN 7.02 58 ePd 30 44.60 -2.1
SVW 12.34 37 ePd 32 01.40 2.1
TTA 13.47 30 eP 32 13.90 -0.2
PMR 15.20 43 eP 32 37.00 0.5
JMA 16.49 25 iPc 32 58.80 5.7X
TOA 16.68 43 ePc 32 56.20 0.8
FBA 17.50 34 eP 33 04.60 -0.8
INK 24.12 34 eP 34 14.50 -0.8
MBC 31.15 21 eP 35 19.00 -0.1
YKA 31.17 48 eP 35 22.00 2.6
0.6s 2.30nm
PNT 32.10 74 eP 35 29.00 1.2
0.5s 4.00nm
NEW 34.04 75 eP 35 44.50 -0.2
0.9s 10.42nm
SES 36.63 68 eP 36 07.00 0.4
CHJJ 38.53 266 P 36 23.10 0.4
MAT 38.69 267 eP 36 24.00 -0.1
1.0s 18.00nm
TNP 39.54 89 eP 36 39.00 7.7X
IIDJ 39.56 266 P 36 32.10 0.8
FFC 39.71 58 eP 36 32.00 -0.2
1.0s 16.00nm
ISA 40.31 93 eP 36 51.00 13.5X
CLC 40.75 92 eP 36 54.00 12.9X
SBB 41.35 93 eP 36 48.00 2.0
CNC 42.13 285 P 36 51.00 -1.2
TNC 42.83 93 eP 36 58.00 -0.2
PLM 42.84 94 eP 36 58.00 -0.4

BAR 43.41 95 eP 37 17.00 14.2X
RSSD 43.95 73 eP 37 07.00 -0.3
SNY 44.39 284 eP 37 10.40 -0.2
Z 24s 0.40um
GOL 45.79 79 eP 37 22.00 -0.1
0.8s 4.46nm
ALQ 48.19 84 e(P) 37 50.00 9.1X
1.2s 5.86nm
BJI 49.91 286 eP 37 53.50 -0.3
DAG 50.19 8 ePc 37 54.30 -1.2
TIA 51.83 282 eP 38 07.20 -1.3
HMC 52.09 290 eP 38 10.60 0.1
SSE 52.83 274 eP 38 16.40 0.4
1.0s 38.00nm
BTO 53.14 291 P 38 18.60 0.3
NJ2 53.60 277 Pd 38 21.20 -0.4
TIY 53.63 287 Pd 38 22.40 0.5
FVM 55.78 70 eP 38 35.00 -2.5
WHN 57.40 279 Pd 38 49.50 0.4
XAN 58.22 286 P 38 54.20 -0.7
GTA 59.71 296 iPc 39 04.00 -1.3
0.6s 10.00nm
LZH 59.76 291 eP 39 04.50 -1.2
2.0s 39.00nm
SOD 60.12 352 iP 39 06.40 -1.1
WMQ 62.91 307 iPd 39 26.20 -0.5
CD2 63.51 287 P 39 30.70 0.0
JSC 63.66 68 eP 39 30.00 -1.6
LHS 63.77 67 eP 39 31.00 -1.3
SUF 64.73 351 eP 39 37.00 -1.1
NUR 67.04 352 eP 39 52.00 -0.9
NB2 67.20 359 P 39 53.00 -1.0
0.7s 3.30nm
HFS 68.06 357 eP 39 57.70 -1.6
0.6s 9.00nm
LSA 71.67 295 eP 40 23.00 0.6
CHG 75.43 282 ePc 40 44.00 0.2
0.9s 10.50nm
CHTO 75.43 282 ePc 40 44.00 0.2
GUN 75.97 297 P 40 47.34 0.1
0.5s 39.00nm
KKN 76.39 298 P 40 49.26 -0.2
0.7s 19.00nm
PKI 76.50 297 P 40 49.98 -0.1
0.9s 22.00nm
GKN 76.58 298 P 40 50.08 -0.3
0.8s 49.00nm
BDT 76.60 281 eP 40 52.40 2.1
DMN 76.63 298 P 40 50.72 -0.1
PRU 78.18 356 P 40 58.10 -0.5
GRF 78.57 359 ePc 41 01.60 0.8
0.8s 11.00nm
SPC 78.64 353 eP 41 12.40 11.0X
KHC 79.07 357 eP 41 04.70 1.1
ZST 79.85 355 eP 41 08.60 0.9
CDF 79.86 1 eP 41 08.30 0.4
0.5s 2.20nm
HAU 80.25 2 eP 41 10.20 0.3
0.5s 4.35nm
BSF 80.43 2 eP 41 11.20 0.3
0.5s 2.90nm
LOR 80.91 4 eP 41 14.10 0.7
SSF 81.11 4 eP 41 15.20 0.8
0.7s 6.60nm
LBF 81.20 3 eP 41 15.40 0.5
0.7s 4.40nm
MFF 81.37 6 eP 41 16.50 0.8
AVF 81.37 4 eP 41 16.30 0.6
0.7s 4.95nm
SMF 81.54 4 eP 41 17.40 0.8
0.7s 7.70nm
LSF 81.82 5 eP 41 18.60 0.5
1.0s 18.00nm
MAF 81.90 5 eP 41 19.40 0.9
QUE 83.67 312 eP 41 28.90 0.7
WB5 85.99 230 eP 41 39.20 -0.3
WRA 86.06 230 P 41 39.00 -0.8
1.2s 7.10nm
WRA 86.06 230 P 41 49.00 9.2X
1.6s 0.60nm
HYB 88.38 297 ePd 41 51.50 0.2
1.2s 50.00nm
ASPA 89.47 229 iPc 41 56.40 0.3
1.1s 17.20nm
GBA 92.10 295 P 42 08.60 0.0
BCAO 123.10 349 ePKPd 47 56.30 0.3
0.4s 6.00nm

S.D. = 0.9 on 77 of 85 obs.

& NOV 16, 1990 18h 36m 45.20s
33.250 N 115.617 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.5 (PAS).

GLA 0.69 106 eP 36 58.60 -0.5
PLM 1.05 276 eP 37 04.20 -1.3
2 obs. associated

? NOV 16, 1990 18h 58m 09.49±7.29s
33.453 S ±17.8km 70.371 W ±36.4km
DEPTH = 90.5 ± 56.6 km
CHILE-ARGENTINA BORDER REGION (127)

FCH 0.14 28 iPd 58 22.80 -0.3
iS 58 34.70
PCH 0.21 215 iP 58 22.70 -0.3
iS 58 34.50
SAN 0.24 270 eP 58 23.50 0.4
iS 58 35.50
PEL 0.41 319 iPc 58 24.60 0.7
iS 58 37.60
TACH 0.51 247 iP 58 24.80 0.2
iS 58 38.50
ROCH 0.72 312 iP 58 24.80 -1.9
iS 58 38.50
JACH 0.79 346 iP 58 28.00 0.7
iS 58 43.50
LNV 1.00 240 iPc 58 29.00 -0.5
iS 58 45.50
LCCH 1.00 268 iP 58 30.50 1.0
iS 58 47.50

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

? NOV 16, 1990 19h 55m 39.28±0.84s
12.308 N ± 8.6km 145.006 E ±37.7km
DEPTH = 33.0km (normal)
4.5mb (1 obs.)
SOUTH OF MARIANA ISLANDS (210)
Felt on Guam.

GUA 1.23 356 iPc 56 00.70 0.5
eS 56 16.00
GUMO 1.28 354 iPc 56 00.70 -0.2
PJG 1.28 354 iPc 56 00.70 -0.3
ASPA 37.37 197 eP 02 50.90 0.0
0.7s 5.40nm
DZM 40.12 148 iPc 03 13.90 0.0
S.D. = 0.4 on 5 of 5 obs.

? NOV 16, 1990 21h 38m 50.81±1.16s
35.211 S ±24.9km 17.127 W ±11.8km
DEPTH = 10.0km (geophysicist)
4.9mb (1 obs.)
SOUTH ATLANTIC RIDGE (410)

PDCR 30.10 313 e(P) 45 02.50 -0.3
e 45 58.40
LIC 42.76 18 P 46 50.06 0.0
Z 20s 0.14um
BUL 42.82 82 eP 46 50.80 0.0
KIC 42.96 18 P 46 51.74 0.0
TIC 43.17 18 P 46 53.28 -0.1
SIV 43.60 285 P 46 59.20 2.2
CNCB 48.69 279 P 47 38.00 0.0
LPB 48.93 279 eP 47 38.00 -1.7
ZOBO 49.10 279 P 47 41.00 -0.2
BCAO 51.74 48 ePc 48 00.90 0.3
0.9s 14.00nm
id 48 06.10

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

* NOV 16, 1990 21h 42m 10.58±2.36s
35.344 N ±20.6km 22.914 E ±16.3km
DEPTH = 79.2 ± 17.3 km
4.0mb (1 obs.)
MEDITERRANEAN SEA (400)
MD 4.0 (ATH).

VAM 1.05 86 ePb 42 29.00 -1.5
eSb 42 49.10
VLI 1.37 1 ePb 42 35.40 0.9
ITM 2.00 337 ePg 42 46.90 3.9X
NPS 2.21 91 ePn 42 45.70 -0.2

ATH	2.70	14	ePn	42 54.70	2.1
APE	2.73	50	ePb	42 58.00	4.9X
KAP	3.48	85	ePn	43 05.60	2.1
EVV	3.67	346	ePn	43 08.70	2.4
AGG	3.70	353	eP	43 08.02	1.5
			eS	43 30.65	
SMG	3.94	52	ePg	43 25.50	15.6X
PAIG	4.62	7	iPd	43 19.65	0.3
			iS	43 50.85	
IGT	4.66	335	iPc	43 18.89	-1.1
PRK	4.73	34	ePn	43 20.70	-0.2
LIT	4.76	356	ePc	43 21.74	0.4
KZN	5.04	350	ePn	43 25.00	-0.3
THE	5.28	0	ePd	43 27.85	-0.7
SOH	5.48	3	ePc	43 30.70	-0.7
KSL	5.48	80	ePn	43 31.70	0.3
FNA	5.56	348	ePd	43 32.02	-0.6
GRG	5.62	356	ePd	43 32.50	-0.9
			eS	44 17.02	
KNT	5.81	360	ePc	43 35.65	-0.3
VAY	5.97	358	ePn	43 37.70	-0.5
OHR	5.99	345	iPn	43 37.50	-1.1
KHL	6.08	59	ePn	43 38.00	-1.8
SKO	6.72	351	iPn	43 47.50	-1.0
KHC	15.40	336	eP	45 50.50	6.1X
PRU	15.86	340	eP	45 55.50	5.2X
GRF	16.70	333	ePc	46 05.50	4.7X
HFS	25.52	349	eP	47 33.90	0.9

S.D. = 1.3 on 23 of 29 obs.

NOV 16, 1990 22h 54m 49.06±0.87s
 28.046 N ± 8.0km 139.132 E ± 8.2km
 DEPTH = 542.9 ± 12.7 km
 4.7mb (11 obs.)

BONIN ISLANDS REGION (212)

MAT	8.51	355	iPc	56 51.60	-0.9
	0.7s	80.14nm		5.0mb	
		eS	58 30.00		
GUMO	15.35	158	eP	58 02.50	0.7
	1.0s	352.00nm		5.9mb	X
PJG	15.35	158	eP	58 02.40	0.6
GUA	15.41	158	eP	58 02.70	0.3
	0.7s	202.74nm		5.8mb	
SSE	15.91	285	eP	58 06.00	-1.2
NJ2	18.00	288	Pd	58 28.00	0.5
CN2	19.19	329	eP	58 41.20	2.5X
WHN	21.75	283	Pc	59 03.50	1.1
		pP	59 05.90	9kmX	
XAN	26.51	291	P	59 45.00	0.0
CD2	30.85	284	P	00 22.40	-0.2
	0.6s	47.00nm		5.3mb	
		S	04 45.70		
GTA	34.36	300	P	00 52.20	0.1
	0.8s	10.00nm		4.5mb	
CHG	37.86	265	ePd	01 21.00	0.0
	0.9s	12.60nm		4.5mb	
WMO	43.82	305	P	02 09.50	1.0
GUN	46.70	283	P	02 31.92	0.7
PKI	47.19	283	P	02 34.82	0.0
	0.5s	13.00nm		4.7mb	
KKN	47.25	283	P	02 35.38	0.2
	0.6s	28.00nm		5.0mb	
DMN	47.44	283	P	02 36.86	0.2
	0.4s	23.00nm		5.0mb	
GKN	47.75	283	P	02 39.08	0.2
WB5	47.86	186	eP	02 37.40	-2.1
WRA	47.93	186	P	02 54.00	14.0X
	0.6s	1.50nm			
GBA	58.88	269	P	03 57.00	-1.1
KOD	60.30	266	eP	04 07.20	-0.6
QUE	62.08	291	eP	04 18.90	-0.2
SOD	72.52	338	iP	05 21.80	-0.1
YKA	72.58	28	eP	05 21.70	-0.6
	0.5s	3.10nm		4.1mb	
SUF	75.16	334	eP	05 37.00	0.3
NUR	76.98	332	eP	05 49.00	2.3
HFS	81.46	336	eP	06 09.00	-1.2
	0.4s	3.10nm		4.2mb	
NB2	81.71	337	P	06 10.80	-0.7
	0.7s	5.00nm		4.2mb	
TNP	82.95	51	P	06 18.80	0.4

S.D. = 0.9 on 28 of 30 obs.

NOV 16, 1990 23h 17m 43.28±0.77s
 20.345 S ± 5.6km 177.904 W ± 7.8km

DEPTH = 566.3 ± 10.6 km
 4.7mb (14 obs.)
 FIJI ISLANDS REGION (181)

SGE	4.81	304	iP	19 12.60	-0.7
		iS	20 28.00		
DZM	14.70	261	iPc	20 52.10	2.9
PUZ	17.98	190	eP	21 21.60	0.8
WLZ	18.33	197	P	21 26.90	2.8
NOZ	18.55	190	eP	21 28.20	2.1
NGZ	19.59	195	eP	21 36.60	0.6
CNZ	19.62	195	eP	21 37.00	0.7
PGZ	20.81	193	P	21 46.10	-1.0
	0.3s	11.00nm		5.0mb	
MNG	20.98	194	P	21 47.00	-1.7
	0.2s	14.00nm		5.2mb	
KIW	21.35	195	P	21 51.80	-0.2
MTW	21.49	194	eP	21 51.90	-1.4
CAW	21.55	195	eP	21 52.90	-0.9
WDW	21.71	195	P	21 55.20	-0.1
MRW	21.75	195	P	21 55.60	0.0
MOW	21.80	194	eP	21 55.60	-0.5
TCW	21.84	196	P	21 55.70	-0.7
THZ	22.73	198	P	22 04.70	0.2
KHZ	23.16	196	P	22 07.50	-0.8
	0.3s	17.00nm		5.2mb	
LTZ	23.85	198	P	22 13.20	-1.4
CTA	33.59	264	iPd	23 39.00	0.3
	0.9s	25.21nm		4.8mb	
WB5	44.69	262	eP	25 07.20	-1.0
WRA	44.71	262	P	25 07.00	-1.3
	0.6s	14.00nm		4.7mb	
WARB	50.96	252	eP	25 54.50	-0.8
SYF	77.50	46	eP	28 43.00	0.6
PRS	77.64	44	eP	28 43.50	0.5
GCC	77.66	43	eP	28 43.10	0.1
PCC	77.70	42	eP	28 43.40	0.2
BCH	77.81	45	P	28 44.00	0.0
SAO	77.85	43	eP	28 44.40	0.3
PR1	77.99	44	eP	28 45.80	0.8
BRK	78.01	42	eP	28 45.30	0.5
BKS	78.02	42	eP	28 45.50	0.5
MHC	78.08	43	eP	28 46.00	0.6
LLA	78.09	44	eP	28 46.80	1.4
ARN	78.15	43	P	28 45.80	0.1
ABL	78.20	46	P	28 46.00	-0.2
MWC	78.63	47	eP	28 49.00	0.5
PLM	78.98	48	eP	28 50.00	-0.3
SBB	79.05	47	eP	28 50.00	-0.5
FRI	79.11	44	eP	28 50.60	-0.1
ISA	79.16	46	eP	28 51.00	-0.1
CMB	79.29	43	eP	28 51.50	-0.1
WDC	79.50	40	eP	28 52.80	0.2
ORV	79.50	41	eP	28 52.70	0.0
MIN	79.92	40	eP	28 55.00	0.0
TPC	79.96	48	eP	28 56.00	0.8
GSC	80.09	47	eP	28 56.00	0.1
LBFM	80.36	39	P	28 57.30	-0.1
TNP	81.36	44	P	29 02.30	-0.2
	0.9s	10.94nm		4.4mb	
SNY	82.15	320	eP	29 05.30	-0.8
CN2	82.23	322	P	29 06.40	-0.1
LON	83.74	35	P	29 13.70	-0.4
RMW	84.19	34	P	29 16.00	-0.3
TTA	84.78	10	iPc	29 18.40	-0.4
	1.1s	16.40nm		4.6mb	
PMR	84.85	13	iPc	29 18.00	-1.0
	1.2s	26.10nm		4.7mb	
PNT	86.48	34	eP	29 27.00	-0.2
	0.9s	14.00nm		4.7mb	
NEW	87.20	36	P	29 29.00	-1.7
	0.8s	3.65nm		4.2mb	
ALQ	87.23	51	eP	29 31.00	-0.4
	0.9s	4.41nm		4.2mb	
FBA	88.07	12	iPd	29 32.90	-1.4
	0.7s	32.50nm		5.3mb	
IMA	88.08	10	iPd	29 33.40	-1.1
	0.8s	5.30nm		4.4mb	
XAN	88.11	307	P	29 36.00	0.8
LRM	88.54	40	eP	29 37.10	-0.1
CHG	90.28	290	ePd	29 46.90	1.5
	1.0s	12.50nm		4.8mb	
INK	94.10	15	eP	30 01.00	-0.9
QUE	121.21	294	ePKP	35 34.40	0.2
SOB1	128.51	121	e(PKP)	35 48.50	0.0
NB2	138.84	353	PKP	35 59.10	-7.5X
	0.8s	2.90nm			

HFS	139.40	351	ePKP	35 58.00	-9.5X
	0.5s	1.50nm			
EKA	144.84	5	PKP	36 18.00	0.9
	2.3s	103.40nm			
KRA	147.14	339	iPKPc	36 23.50	2.5
KSP	147.57	343	iPKPd	36 25.20	3.5X
	0.8s	25.00nm			
CLL	147.93	347	iPKP	36 25.80	3.6X
	1.3s	53.00nm			
		i	36 29.70		
ADI	147.94	300	ePKP	36 26.00	3.1X
BRG	148.13	346	iPKP	36 26.50	3.9X
	1.0s	30.00nm			
		i	36 30.90		
MLR	148.14	327	ePKPc	36 26.50	3.6X
DSI	148.17	297	iPKPd	36 27.00	3.8X
PRNI	148.74	295	iPKPd	36 29.00	4.8X
PRU	148.81	344	PKPd	36 27.80	4.2X
	0.9s	22.40nm			
MOX	148.84	348	iPKPc	36 28.50	4.8X
	1.3s	36.00nm			
MEM	149.64	355	PKP	36 30.20	5.4X
GRF	149.83	348	ePKPd	36 31.70	5.9X
		e	36 37.70		
KHC	149.84	345	ePKP	36 25.60	0.3
		i	36 31.10		
SNF	149.85	357	PKP	36 30.60	5.5X
DOU	150.25	357	PKP	36 31.70	5.9X
FLN	151.57	4	iPKPd	36 34.10	6.3X
	0.8s	24.20nm			
CDF	151.69	353	ePKP	36 34.70	6.6X
	0.8s	6.70nm			
LDF	151.76	3	iPKPd	36 34.40	6.3X
	0.7s	6.60nm			
GRR	151.92	4	iPKPd	36 35.00	6.7X
	0.6s	12.65nm			
HAU	152.19	354	ePKP	36 35.60	6.9X
	0.7s	6.60nm			
LPF	152.26	5	iPKPd	36 36.00	7.2X
	0.6s	16.25nm			
BSF	152.32	353	ePKP	36 35.80	6.8X
	0.8s	5.35nm			
LOR	153.11	357	ePKP	36 37.80	7.8X
	0.8s	6.70nm			
SSF	153.33	358	ePKP	36 39.30	9.0X
	0.7s	3.30nm			
LBF	153.38	357	ePKP	36 39.00	8.6X
BCAO	157.50	228	iPKPc	36 36.00	-0.7
	0.6s	8.00nm			
		ic	37 13.10		

S.D. = 1.0 on 70 of 95 obs.

& NOV 17, 1990 00h 25m 41.80s
 32.700 N 115.900 W
 DEPTH = 6.0km (geophysicist)
 CALIFORNIA-MEXICO BORDER REGION (45)
 <PAS-P>. ML 2.5 (PAS).

GLA	0.97	68	eP	25 59.00	-1.6
PLM	1.04	309	eP	26 00.70	-1.2
PEC	1.59	319	eP	26 10.30	-0.3
	3 obs.	associated			

& NOV 17, 1990 00h 47m 42.68s
 64.689 N 148.990 W
 DEPTH = 15.8km
 CENTRAL ALASKA (1)
 <AGS-P>.

NEA	0.12	199	iP	47 46.05	-0.3
			eS	47 49.00	
MDM	0.42	50	iP	47 51.11	-0.2
CCB	0.51	94	eP	47 53.12	0.3
FBA	0.55	67	iP _C	47 53.40	-0.2
BWN	0.56	202	eP	47 53.42	-0.2
GLM	0.75	66	eP	47 56.93	0.0
			eS	48 08.59	
HDA	0.92	107	eP	48 00.20	0.3
			eS	48 13.43	
MCK	0.96	179	eP	48 00.70	0.2
RND	1.29	177	eP	48 05.63	-0.4
			eS	48 23.63	
TRF	1.37	205	eP	48 06.20	-1.0
			eS	48 25.12	
DJE	1.59	113	eP	48 09.37	-0.8
			eS	48 30.51	
DDM	1.64	122	eP	48 10.63	-0.4

17d 00h

HUR	1.74	190	eP	48	11.60	-0.9
PAX	2.33	136	eP	48	20.88	-0.1
			eS	48	50.24	
CUT	2.36	195	eP	48	21.13	-0.2
DOT	2.40	114	eP	48	21.90	0.0
IMA	2.40	307	iPd	48	21.10	-1.0
SDG	2.66	143	eP	48	26.12	0.4
TOA	2.89	153	eP	48	30.61	1.7
GHO	2.93	179	eP	48	28.65	-0.8
SKT	2.95	204	eP	48	28.69	-1.0
SCM	2.96	165	eP	48	29.53	-0.4
PWA	3.08	188	eP	48	30.74	-0.7
PLRM	3.11	181	eP	48	31.20	-0.7
PMR	3.11	181	iPd	48	30.80	-1.1
KNK	3.30	176	eP	48	34.25	-0.5
SUA	3.33	195	eP	48	35.12	-0.2
PMS	3.47	185	eP	48	36.95	-0.2
KLU	3.50	155	eP	48	38.03	0.5
TTA	3.58	244	iPd	48	35.95	-2.8
NCG	3.60	205	eP	48	38.04	-1.0
CGLM	3.66	203	eP	48	38.51	-1.4
BGL	3.77	206	eP	48	40.19	-1.3
VLZ	3.77	160	eP	48	41.38	0.0
SPU	3.79	203	eP	48	40.04	-1.7
CKL	3.82	205	eP	48	41.35	-0.9
DWY	4.20	94	P	48	59.40	11.9
SLKM	4.24	188	eP	48	48.81	0.8

38 obs. associated

NOV 17, 1990 02h 09m 24.61 ± 1.46s
 5.830 S ± 7.2km 129.231 E ± 9.7km
 DEPTH = 222.4 ± 15.2 km
 5.1mb (14 obs.)

BANDA SEA (280)

MTN	7.22	165	eP	11	08.00	-0.5
KNA	9.87	183	iPd	11	42.40	-0.4
	0.5s	349.00nm			5.8mb	
		eS	13	28.00		
WB5	14.83	161	eP	12	44.00	-1.2
KKM	17.55	312	ePc	13	17.00	0.1
	0.9s	72.90nm			5.1mb	
MBL	17.75	210	iPd	13	19.10	0.2
OIS	17.77	146	iPd	13	18.00	-1.1
	0.9s	162.00nm			5.5mb	
		eS	16	25.00		
PMG	18.11	102	eP	13	25.00	2.3
ASPA	18.29	166	iPd	13	24.30	-0.3
	0.7s	929.90nm			6.4mb X	
Z	19s	0.50um			4.2msz	
		iS	16	37.30		
		iScS	26	48.10		
WARB	20.39	187	iPd	13	55.40	9.6X
NANU	21.25	217	iPd	13	56.00	1.8
CTA	21.78	132	iPd	14	00.80	1.4
	0.6s	32.00nm			5.0mb	
MEKA	23.05	205	eP	14	13.00	1.3
FORR	24.91	182	iPc	14	28.50	-0.5
OLP	25.12	147	eP	14	28.00	-2.9
		e	18	59.00		
COOL	26.05	196	eP	14	40.00	0.5
MRWA	26.41	207	eP	14	44.00	1.3
RMO	27.73	140	eP	14	52.00	-2.6
		e	15	29.00		
		e	19	46.00		
KLB	27.79	201	eP	14	55.00	-0.1
	0.4s	10.00nm			4.9mb	
MUN	28.72	203	eP	15	02.00	-1.4
ADE	30.29	164	eP	15	18.00	0.8
	0.8s	49.25nm			5.2mb	
BFD	33.49	161	eP	15	45.00	0.2
		e	16	54.00		
BWA	33.54	151	eP	15	47.20	1.8
CAN	34.54	151	eP	15	54.30	0.4
TOD	34.90	157	iPc	15	58.70	1.9
CHG	38.61	310	eP	16	29.10	1.0
	0.9s	31.30nm			4.9mb	
		e	17	02.90		
GYA	38.84	327	P	16	30.80	0.8
WHN	38.87	339	eP	16	32.00	1.9
CD2	43.91	328	P	17	10.60	-0.6
	0.8s	22.00nm			4.6mb	
		S	23	20.40		
XAN	44.06	336	P	17	11.50	-0.8
LZH	48.02	332	P	17	44.00	0.6
	2.0s	71.00nm			4.7mb	
GTA	52.59	331	iPc	18	18.20	0.4

GUN	0.8s	30.00nm			4.9mb	
	53.61	311 P	18	25.30	-0.5	
	0.6s	70.00nm			5.4mb	
PKI	53.79	310 P	18	26.22	-0.9	
	0.6s	23.00nm			4.9mb	
KKN	54.00	311 P	18	27.80	-0.7	
	0.7s	36.00nm			5.1mb	
DMN	54.04	310 P	18	28.22	-0.6	
GKN	54.60	310 P	18	32.12	-0.6	
	0.4s	57.00nm			5.5mb	
HY8	55.12	296 eP	18	27.00	-9.5X	
POO	59.71	295 eP	19	06.50	-2.0	
WMO	62.00	327 iPc	19	23.30	-0.2	
MAIO	77.36	309 iPc	20	57.30	0.7	
LPG	116.58	318 ePKP	27	43.40	-0.8	
	0.5s	1.45nm				
LPL	116.59	318 ePKP	27	43.40	-0.7	
	0.5s	3.65nm				
MAF	119.02	320 ePKP	27	47.50	-0.9	
	0.7s	4.40nm				
KIC	134.24	273 PKP	28	19.20	0.7	
LIC	134.52	273 PKP	28	19.80	0.8	
TIC	134.53	274 PKP	28	19.90	0.9	
VAO	151.11	187 ePKP	28	53.70	6.4X	
ZOBO	152.12	142 PKP	28	57.00	7.4X	
SIV	156.04	155 PKP	28	52.20	-2.1	
		i	29	23.40		

S.D. = 1.3 on 45 of 49 obs.

NOV 17, 1990 02h 13m 05.07 ± 1.36s
 1.261 N ± 11.0km 99.059 E ± 10.2km
 DEPTH = 127.3 ± 10.7 km
 4.9mb (11 obs.)

NORTHERN SUMATERA (706)

TSI	2.28	347	iPc	13	41.60	-1.2
		e(S)	13	58.00		
KLM	3.17	55 eP	13	54.80	0.4	
IPM	3.84	31 ePc	14	05.00	1.6	
	0.5s	60.80nm				
		e	14	48.90		
KGM	4.32	80 ePc	14	09.50	-0.5	
		e	15	00.50		
SNG	6.08	15 eP	14	33.30	-0.6	
	1.2s	178.13nm			5.2mb	
CHTO	17.44	360 P	17	02.20	0.2	
KKM	17.76	74 ePc	17	06.00	-0.1	
	0.8s	94.80nm			5.1mb	
GBA	24.66	301 P	18	16.00	0.4	
		S	22	53.00		
XAN	33.89	15 P	19	36.50	-1.2	
MUN	36.84	155 iPc	20	02.80	0.2	
WB5	40.50	123 eP	20	35.00	1.8	
BJI	41.62	20 eP	20	43.50	1.4	
	1.0s	71.00nm			5.3mb	
CN2	48.43	25 iPc	21	35.00	-1.2	
THZ	78.84	133 eP	24	54.20	-1.5	
SOD	82.13	338 eP	25	13.00	0.6	
HFS	86.60	330 eP	25	35.00	0.0	
	0.8s	10.80nm			4.9mb	
NB2	87.86	331 P	25	41.50	0.4	
	1.3s	8.20nm			4.6mb	
CDP	90.25	318 eP	25	53.00	0.3	
LPG	90.73	315 eP	25	55.80	0.6	
	0.8s	4.05nm			4.6mb	
LPL	90.74	315 eP	25	55.80	0.6	
	0.8s	5.35nm			4.7mb	
HAU	90.89	318 eP	25	55.90	0.3	
	0.6s	3.60nm			4.7mb	
LBF	92.56	317 eP	26	04.00	0.7	
	0.7s	5.50nm			4.9mb	
LOR	92.62	317 eP	26	04.10	0.6	
	0.7s	6.60nm			5.0mb	
BRW	93.35	18 P	26	07.50	1.1	
IMA	95.80	23 P	26	18.00	0.1	
	0.6s	5.85nm			5.2mb	
OLY	142.13	14 PKP	32	20.00	-4.4X	
GBTN	143.14	4 PKP	32	21.00	-5.1X	
LHS	144.45	360 PKP	32	26.50	-1.8	
JSC	144.65	0 PKP	32	26.90	-1.8	
PRM	144.82	2 PKP	32	27.50	-1.5	

S.D. = 1.1 on 28 of 30 obs.

NOV 17, 1990 03h 48m 13.49 ± 0.61s
 46.031 N ± 4.9km 6.610 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)

ML 2.4 (LDG).

EMS	0.23	80	ePd	48	18.20	-0.3
LPL	0.52	171	Pg	48	24.40	0.3
		Sg	48	31.40		
LPG	0.54	169	Pg	48	24.70	0.2
		Sg	48	32.10		
DIX	0.56	85	ePd	48	24.70	-0.3
MMK	0.94	88	eP	48	31.60	-0.1
BSF	1.81	4	Pn	48	45.80	0.8
		Sg	49	11.50		
HAU	1.98	355	Pn	48	47.60	0.1
		Pg	48	53.00		
		Sg	49	17.20		
SMF	2.01	289	Pn	48	47.20	-0.7
		Pg	48	52.80		
		Sg	49	17.60		
LBF	2.05	299	Pg	48	53.30	4.8X
		Sg	49	19.00		
LOR	2.26	304	Pg	48	57.80	6.3X
		Sg	49	25.40		
BGF	2.66	283	Pg	49	04.00	6.8X
		Sg	49	39.00		

S.D. = 0.5 on 8 of 11 obs.

* NOV 17, 1990 04h 06m 17.26 ± 0.86s
 47.528 N ± 12.1km 147.575 E ± 11.9km
 DEPTH = 400.0 ± 10.4 km
 4.3mb (10 obs.)

NORTHWEST OF KURIL ISLANDS (220)

ASAJ	4.85	227	P	07	40.00	1.8
KUSJ	4.87	206	P	07	36.40	-2.0
		S	08	38.60		
TTA	34.37	42 iPd	12	30.60	1.0	
BRW	34.99	28 eP	12	34.10	-0.4	
IMA	35.43	37 iPc	12	38.40	-0.1	
	0.6s	4.80nm			4.0mb	
FBA	37.91	39 iPc	12	59.40	0.5	
	0.5s	11.40nm			4.5mb	
INK	43.02	32 eP	13	40.00	-0.1	
GUN	51.19	271 P	14	43.70	-0.1	
	0.5s	10.00nm			4.4mb	
KKN	51.67	271 P	14	47.24	0.1	
	0.5s	10.00nm			4.4mb	
PKI	51.72	271 P	14	47.54	-0.1	
	0.5s	5.00nm			4.1mb	
DMN	51.91	271 P	14	49.40	0.5	
	0.7s	20.00nm			4.6mb	
GKN	51.97	272 P	14	49.40	0.1	
	0.6s	20.00nm			4.7mb	
NB2	66.19	338 P	16	23.50	-1.4	
	0.7s	2.60nm			4.1mb	
WB5	68.14	193 eP	16	36.90	-0.2	
WRA	68.20	193 P	16	37.00	-0.5	
	0.6s	4.30nm			4.3mb	
ASPA	71.93	193 eP	17	01.00	1.3	
	0.7s	3.20nm			4.1mb	
PDCR	144.66	11				

& NOV 17, 1990 07h 35m 35.21s
61.998 N 146.904 W
DEPTH = 54.6km
4.0mb (5 obs.)
SOUTHERN ALASKA (2)
<AGS-P>. Felt (III) at Lake
Susitna and Valdez.

SCM	0.26	231	iP	35	44.05	-0.6
TOA	0.36	72	iPd	35	45.20	-0.3
KLU	0.69	137	iP	35	48.55	-0.7
			eS	35	59.70	
TZL	0.70	86	iP	35	48.91	-0.4
SML	0.70	255	eP	35	48.55	-0.8
			eS	35	59.71	
SDG	0.83	50	iP	35	50.03	-0.9
VLZ	0.91	162	iP	35	50.91	-1.1
KNK	0.94	232	iP	35	52.02	-0.5
VZW	0.96	170	iP	35	51.79	-0.9
GHO	0.98	258	iP	35	52.33	-0.8
GLI	1.13	185	iP	35	54.37	-0.6
PLRM	1.13	250	iP	35	54.06	-1.0
			eS	36	09.31	
PMR	1.13	250	iPd	35	54.10	-0.9
PAX	1.18	34	iP	35	54.86	-1.0
PWA	1.45	257	eP	35	58.69	-0.8
PMS	1.48	240	iP	35	59.38	-0.5
THY	1.52	20	eP	35	59.62	-0.8
			eS	36	19.36	
CVA	1.56	159	iP	36	00.50	-0.4
GLB	1.58	109	iP	36	00.37	-0.9
HUR	1.61	309	iP	36	00.57	-1.1
			eS	36	21.25	
HIN	1.62	173	iP	36	00.99	-0.8
CUT	1.63	286	iP	36	01.21	-0.7
RND	1.67	328	iP	36	01.54	-1.1
KNIM	1.70	194	iP	36	01.76	-1.2
			eS	36	23.87	
SGAM	1.71	151	iP	36	01.83	-1.3
DDM	1.86	14	eP	36	04.66	-0.6
SUA	1.90	255	eP	36	05.08	-0.8
RAGM	1.94	145	eP	36	05.29	-1.1
MCK	1.97	333	iP	36	05.85	-1.0
LTJ	2.02	194	eP	36	05.93	-1.5
MTU	2.05	191	eP	36	06.79	-1.1
HMT	2.10	141	eP	36	07.05	-1.6
DOT	2.11	37	eP	36	07.39	-1.3
DJE	2.11	15	eP	36	07.28	-1.5
TRF	2.13	315	iP	36	07.84	-1.4
SKT	2.18	272	iP	36	08.47	-1.3
SLKM	2.19	228	eP	36	08.35	-1.5
TMW	2.24	52	eP	36	09.45	-1.1
SEW	2.27	214	eP	36	09.76	-1.1
TGL	2.32	121	iP	36	10.06	-1.8
BALM	2.39	112	iP	36	11.15	-1.6
KAIM	2.41	149	eP	36	11.27	-1.6
HDA	2.42	359	iP	36	11.25	-1.8
NKA	2.44	241	eP	36	13.87	0.6
BWN	2.47	333	eP	36	11.59	-2.2
WAX	2.50	127	eP	36	12.66	-1.6
CGLM	2.53	256	iP	36	13.70	-1.0
WRH	2.54	348	eP	36	12.73	-2.0
NCG	2.57	259	iP	36	14.27	-1.1
MID	2.59	174	iPc	36	14.50	-1.0
SPU	2.60	254	iP	36	14.23	-1.4
CRP	2.61	256	eP	36	14.83	-1.1
CCB	2.69	352	iP	36	14.59	-2.3
CKL	2.72	255	eP	36	15.88	-1.6
BGL	2.72	257	eP	36	16.13	-1.3
NEA	2.77	340	eP	36	15.47	-2.6
NNL	2.90	229	iP	36	19.22	-0.7
FBA	2.94	353	iPc	36	18.10	-2.4
GLM	3.01	356	eP	36	18.85	-2.7
RDT	3.02	244	eP	36	19.47	-2.2
MDM	3.03	349	iP	36	19.22	-2.6
WRG	3.08	128	eP	36	21.38	-1.1
REF	3.18	244	eP	36	22.05	-2.1
RDN	3.20	245	eP	36	22.07	-2.2
RSO	3.22	244	eP	36	22.84	-1.8
RS2	3.22	244	eP	36	22.74	-2.0
NCT	3.25	246	eP	36	22.92	-2.0
CNPM	3.27	223	iP	36	23.12	-2.0
HOM	3.30	227	eP	36	24.11	-1.5
XLV	3.48	225	eP	36	25.83	-2.3
INE	3.57	240	eP	36	27.42	-2.1
INW	3.60	240	eP	36	27.87	-2.0

OPT	3.89	236	eP	36	31.87	-2.0
DWY	3.98	56	P	36	33.30	-1.8
BCPM	4.09	117	iP	36	33.83	-2.9
AUE	4.14	233	eP	36	35.07	-2.3
AUP	4.15	233	eP	36	35.55	-2.1
AGU	4.16	233	iP	36	36.05	-1.7
AUH	4.16	233	eP	36	35.58	-2.2
AUI	4.17	233	eP	36	35.79	-2.1
PDB	4.19	241	eP	36	35.21	-2.9
SVW	4.27	262	iPd	36	36.30	-2.9
TTA	4.33	286	iPc	36	36.80	-3.3
PNL	4.35	119	eP	36	37.58	-2.8
SYI	4.36	221	eP	36	38.12	-2.3
CDD	4.54	230	eP	36	40.15	-2.8
MCNL	4.62	236	eP	36	40.81	-3.4
HYT	4.67	100	P	36	41.50	-3.4
HON	4.70	119	eP	36	42.06	-3.1
IMA	5.05	327	iPc	36	47.00	-3.4
KDC	5.11	216	iPd	36	47.00	-4.0
SIT	7.69	125	ePd	37	24.00	-3.0
INK	8.46	36	P	37	33.50	-4.1
ANM	8.70	295	eP	37	38.30	-2.7
YKA	14.97	74	eP	39	03.70	-0.9

	0.5 s	2.10nm			3.6mb
MBC	17.03	22 eP	39	29.50	-1.1
NEW	21.63	116 eP	40	20.00	-2.2
	0.8 s	4.17nm			3.9mb
TNP	30.11	129 eP	41	40.00	-1.7
	0.6 s	1.16nm			3.8mb
		e	41	58.50	
SOD	50.84	3 eP	44	28.00	-3.6
NB2	56.15	13 P	45	06.30	-4.6
	0.8 s	2.70nm			4.3mb
HFS	57.29	11 eP	45	14.00	-4.9
	0.4 s	1.40nm			4.4mb
NUR	57.65	5 eP	45	09.00	-12.4
102 obs. associated					

102 obs. associated

? NOV 17, 1990 07h 42m 40.79±5.55s
36.331 N ±38.6km 21.343 E ±26.3km
DEPTH = 28.9 ± 11.4 km
SOUTHERN GREECE (368)
ML 3.5 (ATH).

ITM	0.97	29	ePg	42	58.60	0.2
			eSg	43	16.10	
VLI	1.34	73	ePb	43	03.80	0.1
VAM	2.50	111	ePb	43	27.90	7.6X
ATH	2.51	48	ePg	43	28.60	8.1X
EVR	2.61	8	ePn	43	25.00	3.0X
AGG	2.80	16	iPd	43	26.11	1.5
			eS	43	46.75	
IGT	3.29	346	iPc	43	31.32	-0.3
LIT	3.87	13	ePd	43	41.16	1.4
			eS	44	09.24	
KZN	3.98	5	ePn	44	02.10	0.6
PAIG	4.04	26	ePd	43	41.03	-1.1
			eS	44	20.48	
FNA	4.45	0	ePc	43	47.59	-0.5
GRG	4.69	10	ePc	43	51.03	-0.5
			iS	44	28.83	
SOH	4.75	19	ePc	43	51.96	-0.4
KNT	4.97	14	ePd	43	55.27	-0.2
SRS	5.09	20	ePc	43	56.06	-1.1

S.D. = 1.0 on 12 of 15 obs.

% NOV 17, 1990 07h 54m 05.60±0.69s
46.921 N ± 8.1km 0.524 E ± 8.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

LSF	0.97	134	Pg	54	22.10	-1.9
			Sg	54	34.40	
TCF	1.32	118	Pg	54	29.00	-1.1
			Sg	54	46.40	
LPF	1.54	317	Pg	54	31.80	-1.3
			Sg	54	51.60	
MAF	1.57	116	Pg	54	33.20	-0.4
			Sg	54	53.00	
BGF	1.64	102	Pg	54	34.20	-0.3
			Sg	54	55.00	
LDF	1.73	346	Pg	54	36.00	0.1
			Sg	54	56.80	
GRR	1.74	328	Pg	54	35.60	-0.4
			Sg	54	57.40	
RJF	1.76	157	Pg	54	36.80	0.5
			Sg	54	59.60	

AVF	1.95	93	Pg	54	39.80	0.8
			Sg	55	04.00	
FLN	1.96	340	Pg	54	40.00	0.8
			Sg	55	04.20	
LFF	1.99	176	Pg	54	41.20	1.6
			Sg	55	06.80	
SSF	2.05	85	Pg	54	42.00	1.5
			Sg	55	07.20	
CAF	2.27	151	Pg	54	46.70	3.0X
			Sg	55	14.60	
LPO	2.29	168	Pg	54	46.80	2.8X
			Sg	55	15.40	
SMF	2.30	96	Pg	54	46.40	2.3X
			Sg	55	15.00	
LOR	2.30	80	Pg	54	46.00	1.8X
			Sg	55	15.20	
LBF	2.37	87	Pg	54	47.20	2.1X
			Sg	55	17.40	

S.D. = 1.2 on 12 of 17 obs.

? NOV 17, 1990 08h 07m 00.79±3.49s
31.182 S ±61.0km 68.954 W ±18.0km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.33	157	iPc	07	15.90	0.0
			eS	07	26.00	
ZON	0.43	147	iPd	07	16.20	-0.2
			eS	07	28.70	
RTBS	0.64	222	Pc	07	17.90	0.0
CFA	0.74	125	ePc	07	19.00	0.1
RTCV	0.76	152	iPd	07	19.10	0.0

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

% NOV 17, 1990 08h 37m 56.75±1.00s
40.645 N ± 9.8km 29.928 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

EYL	0.19	114	iPg	38	01.00	-0.1
HRT	0.27	312	iPg	38	02.50	0.1
YLV	0.43	260	iPg	38	05.00	-0.5
IZI	0.46	229	iPg	38	06.40	0.2
			eSg	38	13.50	
KCT	1.26	252	ePn	38	20.50	0.3

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

% NOV 17, 1990 08h 55m 03.65±1.23s
40.691 N ±11.0km 29.948 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

EYL	0.20	128	iPg	55	08.10	-0.1
HRT	0.25	302	iPg	55	09.00	0.0
YLV	0.46	254	iPg	55	12.50	-0.4
			iSg	55	19.00	
IZI	0.51	226	iPg	55	14.00	0.1
			eSg	55	21.00	
KCT	1.29	251	iPn	55	28.00	0.4

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

NOV 17, 1990 10h 24m 24.77±0.34s
8.679 S ± 4.3km 79.881 W ± 6.3km
DEPTH = 35.0km (3 depth phases)
4.7mb (8 obs.)
NEAR COAST OF NORTHERN PERU (109)

NNA	4.44	138	iP	25	30.80	-0.8
	0.5s	79.58nm				
		i	25	35.00		
		eS	26	18.00		
TUNG	7.35	11	eP	26	13.00	0.1
RECU	8.09	9	eP	26	24.00	0.6
GCP	8.54	9	eP	26	30.00	0.3
ANGL	8.55	16	eP	26	42.20	12.5X
QUR	8.56	9	eP	26	30.00	0.3
CAYA	8.90	12	eP	26	35.00	0.4
COTA	9.09	10	eP	26	37.20	0.1
PSO	10.13	15	eP	26	51.50	0.1
ARE	11.26	134	eP	27	13.00	6.2X
ZOBO	13.73	124	P	27	40.00	0.0
	0.9s	13.84nm				4.8mb
Z	20s	1.17um				4.4MsZ
		i	27	49.00		
		S	30	40.00		

17d 10h

LR 32 24.00
LPB 13.89 125 P 27 46.00 4.0X
BOG 14.43 24 eP 28 07.00 18.0X
eS 31 03.00
CCH 15.93 124 P 28 12.20 3.8X
SDV 19.73 28 eP 28 54.40 -0.5
SIV 19.75 113 P 28 53.50 -1.4
TOV 20.91 29 eP 29 06.00 -1.0
CEOS 21.02 33 iP 29 07.80 -0.3
GUAC 22.56 34 iP 29 24.40 0.8
OLLA 22.68 35 eP 29 25.30 0.6
SOB1 38.50 94 eP 31 45.90 0.0
PDCR 40.22 99 eP 31 59.50 -0.6
e 32 09.90 36km

OLY 45.28 347 P 32 41.00 0.0
NA2 46.60 2 P 32 51.00 -0.3
FVM 47.45 349 P 32 57.00 -1.1
TBR 49.85 6 P 33 16.50 0.0
ALO 50.14 331 ePc 33 19.20 0.1
1.0s 8.75nm 4.7mb

GOL 53.62 336 P 33 44.20 -1.1
0.7s 2.12nm 4.3mb

PLM 54.62 322 eP 34 04.00 11.4X
RVR 55.37 322 eP 34 04.00 6.2X
GSC 55.93 324 eP 34 13.00 11.0X
SBB 56.11 322 eP 34 10.00 6.7X
RSSD 56.93 339 P 34 09.00 -0.2
TNP 58.11 326 P 34 17.50 -0.1
1.0s 5.63nm 4.6mb

LBFM 62.97 326 P 34 50.00 -0.6
SES 64.77 339 eP 35 02.00 0.0
NEW 65.52 334 P 35 06.00 -0.9
0.8s 3.91nm 4.5mb

EDM 67.90 339 eP 35 21.00 -1.0
YKA 75.85 344 eP 36 11.70 2.7X
0.7s 2.20nm 4.3mb

LIC 76.07 81 Pc 36 12.00 0.8
TIC 76.16 81 Pc 36 12.60 0.9
KIC 76.38 81 Pc 36 13.40 0.5
0.8s 23.00nm 5.2mb

SPA 81.38 180 iPd 36 41.80 2.5
1.0s 10.00nm 4.8mb

INK 85.48 343 eP 37 00.50 0.6
MBC 87.87 351 eP 37 12.50 1.1
WRA 135.91 230 PKP 43 44.00 -0.7
0.6s 3.20nm

WB5 135.93 230 ePKP 43 45.00 0.3
BJI 145.64 338 ePKP 44 01.00 -0.4
HHC 146.39 344 ePKP 44 04.00 1.2
TIY 149.02 341 ePKP 44 11.20 4.1X
GTA 149.40 0 iPKPc 44 12.20 4.5X
SSE 150.28 322 ePKP 44 14.00 5.0X
NDI 150.67 44 ePKP 44 16.00 6.3X
NJ2 150.96 326 ePKP 44 15.00 5.0X
S.D. = 0.8 on 39 of 54 obs.

% NOV 17, 1990 10h 34m 30.30 ± 1.20s
39.076 N ± 7.6km 27.672 E ± 15.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM 0.75 205 ePg 34 45.00 0.0
iSg 34 57.00
EDC 1.28 7 ePn 34 54.00 0.0
EZN 1.28 306 ePn 34 54.20 0.1
BNT 1.29 8 iPn 34 54.50 0.2
KGT 1.40 348 iPn 34 55.50 -0.4
S.D. = 0.3 on 5 of 5 obs.

NOV 17, 1990 10h 52m 27.25 ± 0.43s
37.677 N ± 6.7km 72.347 E ± 7.9km
DEPTH = 150.0km (geophysicist)
4.6mb (6 obs.)
TAJIK SSR (715)

QUE 8.71 213 eP 54 31.20 -0.2
eSS 00 33.00
NDI 9.85 154 iPc 54 47.00 0.7
0.4s 23.73nm 5.2mb
eS 56 29.00
GKN 14.12 130 P 55 42.38 0.5
KKK 14.67 128 P 55 48.22 -0.6
DMN 14.69 129 P 55 49.24 0.1
0.6s 64.00nm 5.1mb

PKI 14.91 129 P 55 51.54 -0.4
0.6s 20.00nm 4.6mb
GUN 14.96 127 P 55 52.54 -0.1
NUR 37.52 323 eP 59 36.00 8.3X
HFS 42.82 321 eP 00 11.50 0.2
0.4s 6.10nm 4.6mb
NB2 44.10 322 P 00 21.60 -0.2
0.7s 4.20nm 4.2mb
INK 72.57 10 eP 03 39.00 -0.1
FBA 73.04 17 P 03 42.20 0.3
YKA 80.02 3 eP 04 20.60 -0.1
0.4s 1.40nm 4.0mb
S.D. = 0.4 on 12 of 13 obs.

? NOV 17, 1990 12h 13m 32.31 ± 1.42s
39.129 N ± 8.1km 27.701 E ± 17.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

IZM 0.81 205 ePg 13 48.00 0.0
eSg 14 00.60
BNT 1.24 8 ePn 13 55.50 0.2
EZN 1.27 304 ePn 13 56.00 0.1
KGT 1.36 347 iPn 13 56.90 -0.3
S.D. = 0.4 on 4 of 4 obs.

? NOV 17, 1990 12h 49m 23.81 ± 1.04s
20.987 S ± 11.5km 69.550 W ± 21.5km
DEPTH = 33.0km (normol)
NORTHERN CHILE (123)

ANT 2.82 196 eP 50 07.50 0.0
CNCB 4.41 20 P 50 30.80 0.0
S 51 36.00
LPB 4.64 17 P 50 34.00 0.2
eS 51 34.00
CCH 4.82 43 P 50 35.70 -0.5
SIV 9.45 60 P 51 41.20 0.4
S.D. = 0.5 on 5 of 5 obs.

* NOV 17, 1990 12h 59m 56.93 ± 1.37s
51.782 N ± 17.8km 175.899 W ± 9.3km
DEPTH = 60.5 ± 11.1 km
4.1mb (3 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (IV) on Adok.

ADK 0.50 282 iPd 00 09.20 0.2
KDC 14.73 57 eP 03 21.10 -1.8
TTA 15.40 36 eP 03 32.50 0.8
IMA 18.18 30 eP 04 07.50 1.1
FBA 19.52 37 eP 04 20.50 -1.2
MBC 32.56 22 eP 06 44.00 20.3X
0.5s 3.00nm
YKA 33.64 47 eP 06 33.40 0.2
0.5s 0.80nm 3.9mb
NEW 37.04 72 eP 07 02.50 0.1
0.6s 2.95nm 4.4mb
TNP 42.60 85 eP 07 50.00 1.4
GOL 48.83 75 eP 08 38.50 0.4
GUN 73.37 294 P 11 24.80 0.4
PKI 73.89 294 P 11 27.60 0.2
GKN 74.00 295 P 11 28.20 0.4
DMN 74.04 294 P 11 27.20 -1.0
WRA 83.58 226 P 12 19.00 -0.6
0.5s 1.10nm 4.1mb
S.D. = 1.0 on 14 of 15 obs.

NOV 17, 1990 13h 05m 37.30 ± 1.16s
24.693 N ± 6.7km 122.500 E ± 8.0km
DEPTH = 99.7 ± 10.8 km
4.5mb (12 obs.)
TAIWAN REGION (243)

ANP 1.02 299 iPd 05 58.90 0.7
eS 06 13.20
QZH 3.56 275 Pc 06 25.70 -5.8X
Z 10s 3.80um
S 07 11.50
SSE 6.48 350 Pc 07 03.50 -8.3X
1.0s 14.00nm 4.3mb X
N 12s 2.20um
E 10s 0.80um
NJ2 8.00 337 Pc 07 24.80 -7.8X
Z 12s 0.70um
S 08 52.70

BAG 8.43 193 eP 07 32.20 -6.5X
WHN 9.28 311 eP 07 44.00 -6.0X
Z 10s 1.90um
eS 09 22.50
XAN 15.05 311 P 09 02.00 -3.9X
N 10s 1.40um
E 11s 1.30um
BJI 16.20 342 eP 09 19.00 -1.2
Z 12s 0.60um
N 10s 0.54um
SNY 17.11 3 iPc 09 34.40 2.9
0.8s 10.00nm 4.1mb
Z 12s 1.20um 5.1MsZ
CD2 17.69 295 P 09 36.20 -2.6
0.9s 28.00nm 4.5mb
Z 12s 2.41um 4.4MsZ
KMI 17.93 276 eP 09 41.20 -0.7
Z 10s 1.70um
HHC 18.52 333 eP 09 47.00 -1.8
Z 10s 1.40um
N 14s 0.90um
E 12s 1.00um
BTO 18.99 330 eP 09 54.00 0.2
N 12s 0.90um
E 12s 0.90um
CN2 19.21 6 iPc 09 55.70 -0.3
1.0s 70.00nm 4.9mb
Z 13s 1.20um 4.2MsZ
N 11s 0.50um
E 11s 0.50um
LZH 19.66 310 Pd 10 01.00 0.1
1.5s 76.00nm 4.8mb
Z 12s 1.03um 4.1MsZ
MDJ 20.70 14 eP 10 10.50 -0.8
N 12s 1.10um
CHG 22.63 260 eP 10 32.00 1.4
GTA 24.10 313 eP 10 45.20 0.4
0.8s 10.00nm 4.3mb
Z 12s 1.20um 4.6MsZ
E 10s 0.90um

GUN 32.91 284 P 12 04.70 0.2
PKI 33.34 283 P 12 07.84 -0.4
KKK 33.45 284 P 12 08.92 -0.1
DMN 33.61 283 P 12 10.32 -0.2
GKN 34.00 284 P 12 13.40 -0.3
WMO 34.18 313 P 12 15.50 0.5
GBA 43.80 264 P 13 36.00 1.0
0.2s 1.20nm 4.4mb
KOD 45.08 260 eP 13 47.30 1.6
WB5 45.79 164 eP 13 49.90 -0.8
WRA 45.84 164 P 13 50.00 -1.2
0.7s 28.70nm 5.2mb
QIS 47.96 158 iPc 14 07.50 -0.3
QUE 49.20 289 eP 14 18.70 1.1
ASPA 49.33 166 iPd 14 17.80 -0.5
0.6s 15.40nm 5.1mb
CTA 50.16 150 iPc 14 24.90 0.2
1.1s 16.46nm 5.0mb
WARB 50.74 175 iPc 14 29.80 0.8
SOD 69.69 336 eP 16 46.00 8.3X
HFS 77.71 331 eP 17 23.90 -0.4
0.5s 0.80nm 3.8mb
NB2 78.33 332 P 17 28.00 0.2
0.7s 1.60nm 4.0mb
YKA 82.04 23 eP 17 46.40 -0.9
0.6s 0.60nm 3.6mb
TNP 96.13 43 P 18 56.80 1.3
S.D. = 1.1 on 31 of 38 obs.

& NOV 17, 1990 13h 22m 15.80s
34.500 N 118.733 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS>P>. ML 2.5 (PAS). Felt in
the epicentral area.

ABL 0.53 311 iPc 22 25.50 -1.0
BCH 1.30 302 eP 22 39.50 -0.9
BLP 1.38 273 eP 22 39.00 -2.5
PEC 1.44 115 eP 22 40.30 -2.2
PHAM 1.91 315 eP 22 47.50 -1.7
PLM 1.93 126 eP 22 46.50 -3.2
TNP 3.78 18 eP 23 20.00 3.9
7 obs. associated

% NOV 17, 1990 14h 08m 01.00 ± 1.19s
39.109 N ± 7.8km 27.630 E ± 15.4km

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

I ZM 0.77 202 ePg 08 16.10 0.0
eSg 08 28.10
EZN 1.24 306 iPn 08 24.30 0.2
EDC 1.25 8 ePn 08 25.00 0.7
BNT 1.27 10 ePn 08 24.40 -0.2
KGT 1.36 349 iPn 08 25.30 -0.8
S.D. = 0.8 on 5 of 5 obs.

* NOV 17, 1990 14h 13m 09.06 ± 0.71s
39.102 N ± 5.7km 27.619 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

I ZM 0.76 202 iPg 13 23.60 -0.3
iSg 13 35.60
EZN 1.24 306 iPn 13 32.30 0.3
EDC 1.26 9 ePn 13 32.00 -0.4
BNT 1.27 10 iPn 13 32.70 0.0
KGT 1.37 350 iPn 13 34.30 0.1
KHL 1.68 117 ePn 13 39.00 0.3
S.D. = 0.4 on 6 of 6 obs.

* NOV 17, 1990 14h 16m 47.06 ± 0.73s
4.577 S ± 10.5km 76.776 W ± 21.3km
DEPTH = 121.0 ± 16.6 km
4.2mb (1 obs.)

NORTHERN PERU (111)

TUNG 3.55 332 eP 17 40.80 -1.0
ANGL 4.23 350 eP 18 07.50 16.5X
RECU 4.30 335 P 17 51.40 -0.7
GGP 4.74 337 eP 17 58.80 0.7
CAYA 4.78 345 eP 17 58.60 0.0
COTA 5.12 342 eP 18 04.50 1.2
NNA 7.36 181 iPc 18 34.00 0.5
0.8s 24.63nm 4.8mb X
eS 19 50.30
ZOB0 14.39 144 P 20 05.80 -1.1
LPB 14.62 145 eP 20 10.00 0.4
CNCB 14.91 145 eP 20 18.00 4.6X
SIV 19.15 127 P 21 04.00 0.4
ALO 48.22 327 eP 25 17.40 -0.2
0.8s 3.54nm 4.2mb
GKN 150.75 35 PKP 36 29.04 7.5X
KKN 151.28 35 PKP 36 30.28 7.8X
DMN 151.32 35 PKP 36 28.22 5.7X
PKI 151.52 35 PKP 36 29.48 6.5X
GUN 151.52 34 PKP 36 34.24 11.3X
S.D. = 0.9 on 10 of 17 obs.

& NOV 17, 1990 14h 34m 29.10s
34.500 N 118.730 W
DEPTH = 8.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.4 (PAS). Felt
(111) at Piru.

ABL 0.53 311 iPc 34 38.90 -1.0
MWC 0.62 116 eP 34 41.10 -0.5
SBB 0.77 76 ePd 34 43.00 -1.4
SYP 1.03 272 ePc 34 48.00 -0.9
CIS 1.12 166 ePd 34 48.50 -1.9
BCH 1.31 302 eP 34 52.70 -0.8
BLP 1.38 273 eP 34 52.80 -1.8
PEC 1.44 115 iPc 34 53.70 -1.8
SCI 1.52 174 eP 34 54.30 -2.3
PHAM 1.91 315 eP 35 00.70 -1.5
PKEM 1.92 324 e(P) 35 01.00 -1.4
PLM 1.93 126 eP 35 00.40 -2.3
ARN 3.64 322 eP 35 25.00 -2.0
CMB 3.77 340 eP 35 28.00 -0.9
TNP 3.78 18 eP 35 28.00 -1.1
15 obs. associated

NOV 17, 1990 16h 52m 20.23 ± 0.86s
42.282 N ± 5.9km 20.026 E ± 7.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

PVY 0.31 353 iPg 52 27.00 0.2
iSg 52 33.00

TTG 0.59 285 ePg 52 31.00 -1.1
eSg 52 40.00
IVA 0.60 351 ePg 52 32.50 0.2
eSg 52 41.00
ULC 0.66 241 ePg 52 34.00 0.6
eSg 52 45.00
BDV 0.89 270 ePg 52 37.50 0.2
eSg 52 51.50
HCY 1.14 279 ePg 52 41.80 0.2
eSg 53 00.00
OHR 1.31 153 ePn 52 44.20 -0.2
S.D. = 0.7 on 7 of 7 obs.

NOV 17, 1990 17h 19m 34.84 ± 0.79s
47.103 N ± 10.7km 8.938 E ± 6.7km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.6 (VIE), 2.5 (LDG).

FEL 1.00 321 ePn 19 55.12 1.3
SOTA 1.55 85 iPg 20 02.50 -0.2
i 20 21.70
i 20 22.90
iSg 20 25.40
BSF 1.63 297 Pn 20 03.00 -0.7
Sg 20 28.00
CDF 1.72 320 Pn 20 05.20 0.1
Pg 20 10.00
Sg 20 32.80
WATA 1.81 82 iPg 20 06.50 0.0
iSg 20 32.80
i 20 33.70
HAU 1.97 298 Pn 20 07.60 -1.1
Pg 20 12.60
Sg 20 38.40
LPL 2.20 225 Pg 20 12.80 0.6
Sg 20 39.20
S.D. = 1.0 on 7 of 7 obs.

& NOV 17, 1990 17h 23m 06.79s
59.782 N 151.881 W
DEPTH = 59.8km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

HOM 0.17 136 eP 23 16.10 -0.1
eS 23 22.96
NNL 0.39 48 eP 23 18.12 0.3
CNPM 0.42 128 iP 23 17.38 -0.6
eS 23 25.99
BRLK 0.50 92 eP 23 18.32 -0.6
INE 0.66 296 eP 23 19.83 -1.0
eS 23 30.06
INW 0.69 295 eP 23 20.26 -0.9
eS 23 31.13
OPT 0.70 260 eP 23 20.24 -0.9
eS 23 31.12
RSO 0.81 328 iP 23 22.25 -0.5
RS2 0.81 328 iP 23 22.27 -0.5
REF 0.82 330 iP 23 22.32 -0.5
eS 23 34.51
RDT 0.84 342 iP 23 22.23 -0.7
RDN 0.86 329 iP 23 22.66 -0.6
eS 23 35.05
AUE 0.87 241 eP 23 22.51 -0.7
AUP 0.89 242 eP 23 23.07 -0.5
AGU 0.90 242 eP 23 23.91 0.2
AUH 0.90 243 eP 23 23.09 -0.6
AUI 0.91 241 eP 23 22.92 -0.8
NCT 0.94 327 iP 23 23.83 -0.5
eS 23 37.58
NKA 1.02 18 eP 23 26.59 1.4
SLKM 1.10 48 eP 23 25.67 -0.7
PDB 1.17 271 iP 23 26.12 -1.1
eS 23 41.26
SYI 1.20 193 eP 23 26.72 -1.0
CDD 1.24 227 eP 23 27.08 -1.2
SEW 1.27 74 eP 23 28.70 0.2
MCNL 1.39 246 eP 23 29.01 -1.3
SPU 1.41 357 eP 23 30.15 -0.4
CKL 1.44 351 eP 23 30.73 -0.3
CRP 1.50 355 eP 23 31.80 -0.1
BGL 1.51 351 eP 23 32.07 0.1
CGLM 1.53 358 eP 23 32.16 -0.2
NCG 1.63 355 eP 23 33.76 0.0
SUA 1.78 18 eP 23 36.01 0.2
PMS 1.86 37 eP 23 36.73 -0.2

LTI 2.05 81 eP 23 36.99 -2.4
PWA 2.12 27 eP 23 40.20 -0.2
KNIM 2.15 73 eP 23 38.39 -2.5
SKT 2.21 4 eP 23 41.98 0.2
PLRM 2.26 35 eP 23 40.05 -2.4
KNK 2.35 44 eP 23 42.51 -1.2
GHO 2.47 35 eP 23 44.14 -1.3
GLI 2.62 63 eP 23 44.57 -2.9
VLZ 3.06 61 eP 23 50.42 -3.3
42 obs. associated

NOV 17, 1990 17h 40m 00.50 ± 0.61s
43.071 N ± 3.8km 110.699 W ± 3.9km
DEPTH = 5.0km (geophysicist)
WYOMING (460)
ML 3.1 (BUT).

BEAW 0.19 19 ePd 40 05.07 0.6
ALPW 0.23 290 iPc 40 05.49 0.2
REDW 0.31 339 ePd 40 07.14 0.3
SNOW 0.39 354 eP 40 08.79 0.3
S 40 14.24
CHOI 0.45 303 ePc 40 09.32 -0.2
S 40 14.79
TPAW 0.46 336 ePd 40 09.86 0.1
AVOW 0.55 351 ePd 40 11.35 -0.1
S 40 18.36
LOHW 0.55 7 ePd 40 11.51 0.1
S 40 18.52
MUDI 0.61 333 ePd 40 12.73 -0.1
HAYW 0.63 25 P 40 12.80 -0.3
PINI 0.64 313 ePc 40 12.94 -0.5
S 40 21.79
MOOW 0.68 357 iPd 40 13.76 -0.3
S 40 22.77
TRXW 0.69 8 iPd 40 14.20 0.0
TARW 0.72 343 eP 40 14.62 -0.4
S 40 24.02
RAMW 0.84 347 ePd 40 16.70 -0.7
S 40 27.67
PACW 0.85 11 ePd 40 17.25 -0.2
ANGW 0.85 26 eP 40 17.37 -0.2
S 40 28.27
GRAI 0.87 328 P 40 17.13 -0.8
COLW 0.88 0 ePd 40 17.58 -0.5
STEW 0.98 1 ePd 40 19.34 -0.4
S 40 31.60
PTI 1.24 261 eP 40 23.50 -0.7
LTMT 1.78 325 ePn 40 32.30 -0.1
HPI 1.86 291 eP 40 33.50 -0.1
MCMT 2.34 319 ePn 40 42.00 1.5
BGMT 2.37 336 ePn 40 42.10 1.2
MEMT 2.54 356 ePn 40 46.40 3.2X
DAU 2.69 189 eP 40 45.50 0.0
LRM 3.02 336 ePn 40 52.50 2.4X
HBMT 3.05 334 ePn 40 51.70 1.2
BUT 3.23 336 ePg 41 01.90 8.9X
eSg 41 40.90
RSSD 4.95 75 e(P) 41 21.00 3.5X
GOL 5.23 128 e(P) 41 25.00 3.4X
S.D. = 0.6 on 27 of 32 obs.

* NOV 17, 1990 17h 45m 49.57 ± 1.56s
43.100 N ± 20.4km 104.600 E ± 6.5km
DEPTH = 33.0km (normal)
MONGOLIA (334)
ML 3.8 (BJI).

BTO 4.76 120 Pn 47 01.90 1.0
Sn 48 00.60
Sg 48 20.80
GTA 5.16 226 Pn 47 06.20 -0.4
Pg 47 22.40
Sn 48 07.60
Sg 48 25.40
HHC 5.66 111 ePn 47 13.00 -0.6
eSn 48 24.60
Sg 48 48.80
LZH 7.03 185 ePn 47 33.00 0.0
Pg 47 53.00
eSn 48 54.00
Sg 49 30.00
TIY 8.04 129 eP 47 46.40 -0.6
XAN 9.66 158 P 48 09.50 0.2
GUN 21.42 231 P 50 37.00 -0.1
KKN 21.86 232 P 50 41.26 -0.1
PKI 21.95 231 P 50 44.44 2.0

17d 17h

GKN 22.07 233 P 50 43.20 -0.2
 DMN 22.09 232 P 50 42.66 -1.1
 S.D. = 1.0 on 11 of 11 obs.

NOV 17, 1990 19h 15m 10.43±0.71s
 35.782 N ± 7.7km 140.717 E ± 9.0km
 DEPTH = 33.0km (normal)
 4.6mb (4 obs.) 4.0Msz (2 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.61 314 iPd 15 21.90 -0.7
 S 15 28.40
 CHJJ 1.42 281 iPd 15 33.00 -1.2
 NIJJ 2.01 317 iPd 15 42.50 -0.1
 S 16 06.10
 IJDJ 2.31 263 P 15 48.40 1.5
 YAMJ 2.45 347 iPd 15 49.70 0.8
 MTMJ 2.49 290 P 15 49.40 -0.2
 OFUJ 3.38 13 P 16 02.10 0.0
 S 16 39.10

MDJ 12.25 319 eP 18 07.00 1.7
 CN2 14.20 309 eP 18 30.20 -0.9
 Z 14s 0.90um
 eP 18 35.00
 eS 21 03.00

SNY 14.65 299 eP 18 38.20 1.1
 Z 18s 0.60um
 sP 18 45.00

8JI 19.80 290 eP 19 38.00 -2.9
 WHN 22.65 264 eP 20 10.00 0.1
 TIY 22.71 283 eP 20 13.00 2.5
 Z 20s 0.60um 4.0Msz

HHC 23.37 291 eP 20 17.30 0.3
 XAN 26.08 276 P 20 41.00 -1.8
 LZH 29.75 282 eP 21 11.50 -4.6X
 Z 18s 0.29um 4.0Msz

GTA 32.42 289 eP 21 39.60 0.1
 CHTO 40.45 257 P 22 46.40 -1.1
 WMO 40.92 298 eP 22 51.50 0.2
 LSA 41.77 276 eP 23 00.00 1.1
 GUN 46.73 276 P 23 38.64 0.0
 PKI 47.25 276 P 23 42.70 -0.1
 KKN 47.26 277 P 23 42.96 0.2
 DMN 47.48 276 P 23 45.02 0.5
 GKN 47.69 277 P 23 45.32 -0.7
 FBA 50.46 32 P 24 11.80 5.2X
 WB5 55.68 187 eP 24 41.30 -4.5X
 WRA 55.75 187 P 24 46.00 -0.3
 0.6s 5.70nm 4.8mb

ASPA 59.47 187 eP 25 13.30 0.8
 0.5s 6.10nm 5.0mb

GBA 60.56 266 P 25 20.90 0.7
 SOD 65.90 337 eP 25 55.00 0.3
 HFS 74.99 336 eP 26 49.50 -0.4
 0.5s 1.60nm 4.3mb

NB2 75.12 337 P 26 50.00 -0.7
 0.8s 3.80nm 4.4mb

KSP 80.87 328 eP 27 22.00 -0.3
 CLL 81.90 330 eP 27 38.00 10.3X
 KHC 83.31 328 eP 27 34.00 -1.1

VAY 84.61 318 eP 27 44.00 2.3
 SKO 84.76 319 eP 27 41.00 -1.5
 ZOBO 147.80 60 PKP 34 57.20 5.6X
 SIV 152.32 50 PKP 35 07.00 9.2X

S.D. = 1.2 on 34 of 40 obs.

? NOV 17, 1990 19h 20m 55.15±7.14s
 45.767 N ±32.7km 8.943 E ±53.8km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.7 (LDG).

LPL 1.57 262 Pn 21 23.50 0.2
 BSF 2.54 325 Pn 21 37.60 0.4
 Sn 22 09.20

HAU 2.86 322 Pn 21 42.10 0.4
 Sn 22 19.20

CDF 2.88 337 Pn 21 41.50 -0.5
 Sn 22 18.00

LBF 3.65 291 Pn 21 52.60 -0.3
 Sn 22 36.00

LOR 3.82 295 Pn 21 55.00 -0.3
 Sn 22 42.00
 S.D. = 0.5 on 6 of 6 obs.

* NOV 17, 1990 19h 41m 13.79±0.61s
 51.185 N ±14.6km 179.384 W ± 7.3km

DEPTH = 33.0km (normal)
 4.6mb (9 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.83 66 eP 41 44.40 1.0
 KDC 16.88 57 eP 45 07.50 -1.3
 TTA 17.19 38 eP 45 13.50 0.7
 IMA 19.81 31 iPd 45 44.10 0.0
 TOA 21.02 46 ePd 45 57.50 0.8
 FBA 21.32 38 iPd 46 00.10 0.5

0.9s 8.60nm 4.2mb
 YKA 35.63 46 eP 48 08.50 -1.5
 0.6s 1.90nm 4.2mb

PNT 37.35 69 eP 48 24.00 -0.6
 0.6s 5.00nm 4.6mb

NEW 39.30 69 eP 48 41.00 0.0
 TNP 44.83 82 e(P) 49 27.50 1.0
 GOL 51.09 72 eP 50 15.00 -0.2
 UPP 68.46 351 iP 52 13.70 -0.3

HFS 68.53 353 eP 52 12.70 -1.8
 0.4s 1.80nm 4.5mb
 GUN 71.59 292 P 52 34.22 0.2

0.5s 25.00nm 5.5mb
 KKN 72.03 292 P 52 36.78 0.3
 0.5s 10.00nm 5.1mb

PKI 72.12 292 P 52 37.30 0.1
 0.7s 7.00nm 4.7mb
 GKN 72.24 293 P 52 37.80 0.1

0.6s 11.00nm 5.0mb
 DMN 72.27 292 P 52 38.30 0.3
 QUE 80.21 306 eP 53 23.90 1.4

WRA 81.62 223 P 53 29.00 -0.7
 0.9s 1.10nm 3.9mb
 S.D. = 0.9 on 20 of 20 obs.

NOV 17, 1990 20h 00m 49.44±0.46s
 5.600 N ± 7.3km 126.254 E ±13.4km
 DEPTH = 33.0km (normal)

4.8mb (11 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

MTN 18.96 165 eP 05 10.00 -0.6
 KNA 21.36 173 eP 05 37.00 0.8
 0.8s 81.00nm 5.2mb

WB5 26.55 163 eP 06 25.90 -0.4
 OIS 29.12 154 iPd 06 49.00 -0.6
 CHG 29.69 299 eP 06 56.00 1.2

CHTO 29.69 299 P 06 55.70 0.9
 ASPA 30.03 166 eP 06 55.90 -1.9
 0.7s 10.60nm 4.7mb

XAN 32.55 333 P 07 18.70 -1.1
 MEKA 32.88 193 iPd 07 22.50 -0.2
 BJI 35.47 347 eP 07 45.00 0.2

1.5s 26.00nm 4.9mb
 MRWA 35.99 195 eP 07 49.50 0.1
 SNY 36.15 357 eP 07 51.60 1.0

LZH 36.66 329 eP 07 58.50 3.3X
 2.0s 25.00nm 4.8mb
 KLB 37.86 192 iPd 08 05.20 0.1

0.4s 6.00nm 4.8mb
 MUN 38.58 194 iPd 08 11.60 0.5
 GTA 41.26 328 eP 08 33.40 0.0

0.8s 10.00nm 4.6mb
 GUN 44.26 305 P 08 58.40 0.1
 0.6s 23.00nm 5.2mb

PKI 44.52 304 P 08 59.88 -0.5
 0.6s 5.00nm 4.5mb
 KKN 44.71 304 P 09 01.34 -0.4

0.9s 11.00nm 4.7mb
 DMN 44.78 304 P 09 02.14 -0.3
 BWA 44.98 154 eP 09 05.30 1.8

GKN 45.31 304 P 09 05.96 -0.6
 0.7s 9.00nm 4.8mb
 CAN 45.99 154 eP 09 12.50 1.0

HFS 96.15 332 eP 14 14.00 -1.1
 0.4s 1.00nm 4.6mb
 S.D. = 0.9 on 23 of 24 obs.

& NOV 17, 1990 22h 02m 18.94s
 63.452 N 150.710 W

DEPTH = 12.1km
 CENTRAL ALASKA (1)
 <AGS-P>.

TRF 0.19 90 iP 02 23.24 -0.2
 iS 02 27.30

HUR 0.68 134 eP 02 31.99 -0.3

RND 0.84 92 eP 02 34.41 -0.5
 MCK 0.84 70 eP 02 34.15 -0.9
 BWN 0.91 37 eP 02 36.80 0.7

CUT 1.07 169 eP 02 38.78 -0.1
 SKT 1.52 195 eP 02 45.69 -0.3
 CCB 1.75 46 eP 02 48.93 -0.3

PWA 1.85 168 eP 02 51.48 0.8
 MDM 1.86 35 eP 02 51.01 0.1
 GHO 1.88 153 eP 02 51.38 0.2

FBA 1.94 40 eP 02 56.80 4.9
 SUA 2.00 180 eP 02 53.99 1.1
 PLRM 2.01 158 eP 02 52.89 0.0

PMR 2.01 158 eP 02 55.60 2.7
 NCG 2.16 199 eP 02 55.00 -0.4
 CGLM 2.24 196 eP 02 54.30 -2.1

PMS 2.28 166 eP 02 57.79 0.8
 KNK 2.30 152 eP 02 56.67 -0.6
 TTA 2.46 260 eP 03 02.90 3.4

TOA 2.49 121 eP 03 01.10 1.2
 IMA 2.92 335 eP 03 08.90 2.8
 22 obs. associated

& NOV 17, 1990 22h 12m 36.20s
 36.792 N 121.525 W

DEPTH = 4.0km
 CENTRAL CALIFORNIA (39)

<BRK>. ML 2.6 (BRK).

SAO 0.07 113 iP 12 37.60 -0.3
 GCC 0.45 302 iPd 12 44.80 -0.3
 PRS 0.48 165 iPd 12 45.30 -0.4

LLA 0.50 110 iPd 12 46.10 -0.1
 ARN 0.56 359 iPd 12 47.50 0.2
 MHC 0.56 350 iPd 12 47.70 0.4

iS 12 55.80
 PRI 0.95 133 eP 12 54.30 -0.6
 PCC 0.98 316 ePd 12 54.10 -1.3

BKS 1.22 333 eP 12 59.50 0.0
 eS 13 16.00
 BRK 1.23 332 eP 12 58.20 -1.4

eS 13 14.80
 PHAM 1.32 136 eP 12 59.40 -1.8
 FRI 1.47 82 eP 13 01.80 -1.7

eS 13 19.90
 CMB 1.54 36 eP 13 03.80 -0.7
 BCH 1.98 143 eP 13 08.90 -2.1

14 obs. associated

? NOV 18, 1990 00h 21m 14.44±4.78s
 25.831 S ±23.4km 177.298 W ±29.8km
 DEPTH = 179.0 ± 34.8 km

4.5mb (3 obs.)
 SOUTH OF FIJI ISLANDS (171)

DZM 15.33 281 iPd 24 43.00 0.1
 MNG 15.93 200 eP 24 50.00 -0.1
 eS 27 34.90

ASPA 44.17 262 iPd 29 08.00 0.7
 0.7s 8.60nm 4.4mb
 WB5 44.74 267 eP 29 11.50 -0.3

WRA 44.74 267 P 29 11.00 -0.8
 0.7s 7.30nm 4.3mb
 FORR 47.93 251 iPd 29 35.60 -1.0

0.4s 26.00nm 5.1mb
 MRWA 58.53 250 eP 30 55.60 1.2
 MAW 76.79 200 iPd 32 53.00 5.7X

NUR 142.20 342 ePKP 40 37.00 10.6X
 NB2 144.33 353 PKP 40 30.00 -0.1
 1.0s 4.90nm

S.D. = 1.0 on 8 of 10 obs.

? NOV 18, 1990 02h 26m 25.22±1.48s
 31.836 S ±18.9km 68.183 W ±20.9km
 DEPTH = 100.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.23 348 iPd 26 39.90 -0.1
 (S) 26 47.00

RTCV 0.30 265 iPd 26 40.00 -0.1
 ZON 0.51 304 iPd 26 42.20 0.8
 eS 26 55.20

RTLL 0.56 334 iPd 26 41.60 -0.1
 RTCB 0.63 303 iPd 26 42.10 -0.3
 RTBS 1.10 279 ePd 26 46.80 -0.2

RTRS 1.99 326 iPd 26 58.10 0.0
 eS 27 24.00
 S.D. = 0.5 on 7 of 7 obs.

& NOV 18, 1990 03h 18m 49.70s
37.633 N 118.965 W
DEPTH = 4.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.6 (BRK).

FRI 0.87 223 iPc 19 05.60 -1.4
iS 19 17.40
CMB 1.19 290 eP 19 11.60 -1.0
eS 19 27.30
TNP 1.45 72 eP 19 15.00 -2.0
LLA 1.88 238 eP 19 23.30 0.4
eS 19 45.70
PRI 2.02 223 eP 19 25.80 0.8
eS 19 50.70
SAO 2.16 247 iP 19 27.30 0.3
6 obs. associated

NOV 18, 1990 03h 27m 11.96±0.45s
46.905 N ± 5.4km 8.928 E ± 4.1km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 3.0 (VIE), 2.8 (LDG), 2.6 (GRF).

LLS 0.06 128 iPd 27 12.10 -2.3
SAX 0.45 39 eP 27 19.60 -1.6
VDL 0.56 138 ePd 27 20.90 -2.6
TMA 0.80 183 ePd 27 26.00 -1.6
SLE 0.91 341 eP+ 27 28.90 -0.5
FEL 1.15 328 ePn 27 34.28 0.7
MDI 1.25 154 P 27 36.00 0.8
DIX 1.33 232 ePd 27 36.40 -0.3
OGA 1.44 91 eP 27 40.00 1.7
SOTA 1.59 78 iPnd 27 40.30 0.0
iPgd 27 41.40
iSn 28 00.80
iSg 28 04.10

BSF 1.72 303 Pn 27 42.00 -0.2
Sn 27 59.90
WATA 1.86 76 iPgC 27 45.10 0.8
iSg 28 11.70
i 28 12.60

CDF 1.88 324 Pn 27 44.00 -0.5
Sn 28 04.00
Sg 28 12.40
SCE 1.91 85 iPc 27 47.50 2.5
LPL 2.06 228 Pn 27 49.40 2.1
LPG 2.07 228 Pn 27 49.40 2.0
HAU 2.07 303 Pn 27 46.80 -0.4
Sn 28 08.00

FVI 2.67 95 P 27 56.50 0.8
(Sn) 28 34.50
GRC1 2.72 39 ePn 27 53.70 -2.8X
ePg 28 02.40
e(Sn) 28 26.70
eSg 28 36.30

LBF 3.39 273 Pn 28 05.70 -0.3
Sn 28 42.00
LOR 3.48 278 Pn 28 06.60 -0.7
Pg 28 18.80
Sg 29 02.40

SMF 3.51 268 Pn 28 08.00 0.4
Sn 28 44.80
Sg 29 03.20
SSF 3.72 274 Pn 28 10.60 0.0
AVF 3.83 270 Pn 28 12.00 -0.2
KHC 3.83 53 ePg 28 23.70 11.4X
Sg 29 10.20

BGF 4.20 267 Pn 28 16.80 -0.6
S.D. = 1.4 on 24 of 26 obs.

* NOV 18, 1990 03h 29m 29.18±0.99s
47.093 N ± 11.1km 8.938 E ± 9.0km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.5 (VIE), 2.3 (LDG).

FEL 1.00 322 ePn 29 49.61 1.3
SOTA 1.55 84 iPgD 29 56.90 -0.1
iSn 30 16.30
iSg 30 19.50
BSF 1.63 298 Pn 29 57.50 -0.7
Sn 30 15.50
Sg 30 22.80
CDF 1.73 320 Pn 29 59.50 -0.1

HAU 1.98 298 Pn 30 02.10 -1.0
Sn 30 23.80
LPL 2.20 225 Pg 30 07.00 0.5
Sg 30 32.40
S.D. = 1.1 on 6 of 6 obs.

* NOV 18, 1990 03h 46m 17.43±0.94s
1.910 S ± 14.2km 78.248 W ± 32.7km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

TUNG 0.53 338 P 46 28.00 -0.2
eS 46 35.90
RECU 1.30 346 P 46 42.20 0.3
OTO 1.72 351 eP 46 51.30 3.3X
OUR 1.75 351 eP 46 51.80 3.4X
GGP 1.76 349 eP 46 51.20 2.5X
PSO 3.22 17 eP 47 14.00 4.7X
BOG 7.72 33 eP 48 18.00 5.1X
NNA 10.11 172 iP 48 45.50 -0.3
0.8s 10.45nm 5.3mb X

ZOBO 17.41 146 eP 50 24.00 1.3
SIV 21.96 131 P 51 12.20 -1.1
S.D. = 1.3 on 5 of 10 obs.

* NOV 18, 1990 05h 03m 42.22±3.97s
10.787 N ± 18.4km 62.374 W ± 35.7km
DEPTH = 33.0km (normol)
NEAR COAST OF VENEZUELA (97)
MD 3.7 (TRN).

TRN 0.96 98 eP 03 59.53 0.1
TPP 1.02 117 eP 04 00.47 0.2
eS 04 13.07
TBH 1.32 103 eP 04 04.17 -0.3
eS 04 20.23
GRW 1.53 27 eP 04 08.38 0.7
eS 04 28.25
BOT 1.67 77 eP 04 09.36 -0.2
eS 04 30.25
SVB 2.70 24 eP 04 24.74 0.4
eS 05 01.83
SVV 2.76 24 eP 04 24.37 -0.7
eS 05 02.61
SLB 3.29 23 eP 04 33.04 0.3
eS 05 11.08
FDF 4.10 17 eP 04 43.62 -0.6
0.2s 0.20nm
S 05 06.90

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

& NOV 18, 1990 05h 06m 06.60s
33.250 N 115.617 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

GLA 0.69 106 eP 06 20.00 -0.5
PLM 1.05 276 eP 06 25.50 -1.4
PEC 1.44 297 eP 06 31.00 -2.3
TNP 4.99 345 e(P) 07 24.00 -0.1
4 obs. associated

? NOV 18, 1990 05h 12m 24.52±3.85s
21.101 S ± 18.4km 175.073 W ± 22.1km
DEPTH = 143.3 ± 35.2 km
4.3mb (4 obs.)
TONGA ISLANDS (173)

SGE 7.48 297 eP 14 11.40 -0.9
DZM 17.22 263 iPc 16 20.00 2.1
MNG 21.05 200 P 16 58.00 -0.4
THZ 22.97 204 eP 17 23.30 6.1X
LTZ 24.08 203 eP 17 33.00 5.1X
ASPA 47.05 257 eP 20 43.30 -0.4
0.9s 7.90nm 4.4mb

WRA 47.23 262 P 20 44.00 -1.1
0.5s 3.20nm 4.3mb
TNP 80.08 43 P 24 19.80 -0.2
PNT 85.65 33 eP 24 48.00 0.1
0.8s 10.00nm 4.7mb
ALO 85.66 50 eP 24 48.70 0.1
1.0s 4.00nm 4.2mb
SES 90.76 35 eP 25 13.00 0.8
KSP 149.00 346 iPKPc 31 57.50 5.0X

CLL 149.19 350 iPKP 31 58.10 5.4X
BRG 149.45 349 i(PKP) 31 58.60 5.5X
iSg 44 41.70
PRU 150.18 347 ePKP 32 01.00 6.7X
KHC 151.19 348 PKP 32 04.00 8.1X
S.D. = 1.2 on 9 of 16 obs.

NOV 18, 1990 05h 13m 04.85±0.64s
37.022 N ± 6.5km 28.167 E ± 6.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.8 (ATH).

ARG 0.81 182 ePg 13 19.20 -1.3
SMG 1.26 303 iPbc 13 28.70 0.4
ELL 1.42 101 ePn 13 32.00 1.1
KSL 1.45 128 ePb 13 31.20 0.1
IZM 1.55 333 ePn 13 32.40 -0.1
KAP 1.67 209 ePn 13 35.00 0.7
KHL 1.69 39 ePn 13 33.50 -1.1
BCK 1.98 77 iPn 13 39.00 0.1
S.D. = 1.0 on 8 of 8 obs.

& NOV 18, 1990 06h 45m 21.44s
62.522 N 148.864 W
DEPTH = 55.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.58 322 iP 45 33.94 -0.1
eS 45 44.54
CUT 0.66 260 iP 45 35.05 0.0
GHO 0.75 182 iP 45 36.13 -0.2
eS 45 48.34
RND 0.89 0 iP 45 37.82 -0.2
iS 45 49.51
PLRM 0.94 188 iP 45 38.39 -0.3
PMR 0.94 188 iPc 45 38.30 -0.3
PWA 1.00 209 iP 45 39.78 0.4
eS 45 53.72
SCM 1.00 133 iP 45 39.10 -0.4
eS 45 54.29
KNK 1.13 170 iP 45 41.50 0.2
eS 45 57.89
TRF 1.14 326 eP 45 41.29 -0.2
eS 45 56.80
MCK 1.22 359 eP 45 42.50 0.0
eS 45 58.09
PMS 1.32 195 eP 45 44.26 0.3
TOA 1.33 107 iPc 45 44.50 0.5
SKT 1.36 248 eP 45 44.76 0.3
SUA 1.38 221 iP 45 45.39 0.5
SDG 1.54 88 eP 45 47.29 0.3
PAX 1.63 72 iP 45 48.61 0.4
eS 46 08.70

BWN 1.68 351 eP 45 48.99 0.1
TZL 1.68 105 eP 45 49.91 1.0
KLU 1.73 125 eP 45 49.67 0.0
VZW 1.83 142 eP 45 50.77 -0.3
VLZ 1.84 138 eP 45 50.63 -0.5
GLI 1.85 152 eP 45 50.98 -0.3
DDM 1.86 46 eP 45 52.88 1.4
NCG 1.92 236 eP 45 52.60 0.3
CGLM 1.92 232 eP 45 52.83 0.4
WRH 1.99 10 eP 45 52.33 -0.9
CRP 2.00 233 eP 45 54.73 1.1
SPU 2.02 230 eP 45 54.25 0.5
NEA 2.07 357 eP 45 53.23 -1.1
HDA 2.08 24 eP 45 53.76 -0.7
DJE 2.09 42 eP 45 55.81 1.2
BGL 2.09 234 eP 45 55.55 0.8
CKL 2.12 233 eP 45 55.35 0.2
SLKM 2.12 198 eP 45 56.30 1.1
CCB 2.19 12 eP 45 54.94 -1.0
KNIM 2.25 166 eP 45 56.93 0.1
HIN 2.42 151 eP 45 58.85 -0.4
FBA 2.43 11 iPc 45 58.50 -1.0
SEW 2.44 187 eP 46 00.50 0.9
CVA 2.48 142 eP 45 59.96 -0.2
LTI 2.54 168 eP 46 00.16 -0.8
RDT 2.59 223 eP 46 01.61 -0.1
GLB 2.62 112 eP 46 01.83 -0.4
SGAM 2.68 138 eP 46 02.41 -0.6
RAGM 2.94 135 eP 46 06.98 0.2
HMT 3.11 133 eP 46 10.61 1.4
INE 3.19 221 eP 46 10.36 -0.1
TTA 3.32 280 iPd 46 11.50 -0.6

18d 06h

TGL 3.38 119 eP 46 13.26 0.2
BALM 3.44 113 eP 46 12.86 -1.0
SVW 3.51 249 iPd 46 14.30 -0.5
WAX 3.55 123 eP 46 14.97 -0.5
IMA 4.13 332 iPd 46 22.30 -1.3
DWY 4.53 66 P 46 28.00 -1.0
55 obs. associated

NOV 18, 1990 08h 40m 01.63±0.44s
39.549 N ± 4.1km 28.866 E ± 3.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.5 (ISK), 3.5 (ATH).

KCT 0.80 331 ePg 40 16.90 -0.3
IZI 0.92 30 iPg 40 19.40 0.2
ALT 1.08 117 iPg 40 22.40 0.3
BNT 1.09 318 ePg 40 22.40 0.4
YLV 1.09 21 iPg 40 22.40 0.3
EDC 1.11 316 ePg 40 22.50 0.1
GBZT 1.32 20 ePn 40 27.10 1.2
KHL 1.33 157 iPn 40 26.80 0.6
GPA 1.33 56 iPn 40 26.50 0.3
HRT 1.41 26 iPn 40 26.90 -0.5
EYL 1.42 44 ePn 40 26.00 -1.6
KGT 1.50 307 iPn 40 29.40 0.8
ISK 1.52 6 ePn 40 28.00 -0.9
IZM 1.70 228 iPn 40 30.50 -1.0
EZN 1.98 279 iPn 40 35.80 0.3
PRK 2.03 262 ePb 40 36.10 -0.2
DMK 2.42 340 iPn 40 45.50 3.6X
SMG 2.43 221 ePn 40 47.00 5.0X
RDO 3.00 303 ePn 40 56.50 6.4X
KDZ 3.36 310 iP 40 56.00 0.7
RZN 3.81 305 iP 41 01.00 -0.9
S.D. = 0.8 on 18 of 21 obs.

NOV 18, 1990 09h 07m 14.18±0.79s
45.743 N ± 6.1km 26.576 E ± 7.7km
DEPTH = 157.0 ± 9.2 km
ROMANIA (358)

VRI 0.16 39 iPc 07 35.00 0.2
CVO 0.29 286 iPc 07 35.50 0.4
BRD 0.40 124 iPc 07 36.50 1.0
MLR 0.51 241 iPc 07 36.00 -0.8
ISR 0.61 182 iPc 07 37.00 -0.2
PPE 0.87 57 iPc 07 40.00 1.2
MTUR 1.18 245 ePc 07 41.50 -0.1
PTT 1.20 354 iP 07 42.00 0.4
CFR 1.24 116 iPc 07 41.00 -1.0
TLB 1.55 138 iPc 07 45.00 0.0
IAS 1.60 25 eP 07 43.00 -2.6
TNR 1.62 268 ePc 07 45.00 -0.8
COZ 1.63 256 iPc 07 46.50 0.4
DRA 1.95 238 ePc 07 51.00 1.4
PSN 2.36 150 iPc 07 55.00 0.7
PVL 2.68 200 iPc 07 59.00 0.7
JMB 3.28 180 iPc 08 06.00 0.1
PGB 3.63 209 iP 08 11.00 0.5
PLD 3.88 201 iPc 08 13.00 -0.7
VTS 3.97 219 ePg 08 15.00 -0.1
KKB 4.63 214 iP 08 24.00 0.5
MMB 4.64 207 ePc 08 24.00 0.3
GRG 5.67 214 ePc 08 34.80 -2.6
PAIG 6.19 201 ePc 08 39.07 -5.3X
SUF 17.01 359 eP 11 05.00 1.2
S.D. = 1.1 on 24 of 25 obs.

* NOV 18, 1990 09h 37m 16.36±0.84s
63.116 N ± 9.6km 151.173 W ± 9.2km
DEPTH = 33.0km (normal)
CENTRAL ALASKA (1)

PMR 1.80 147 ePd 37 45.00 -0.6
TTA 2.21 267 ePc 37 51.50 -0.1
FBA 2.33 38 eP 37 52.40 -0.7
TOA 2.52 111 ePd 37 56.90 0.9
IMA 3.16 341 eP 38 05.40 0.4
S.D. = 1.0 on 5 of 5 obs.

* NOV 18, 1990 09h 49m 47.20±1.70s
41.493 N ± 8.7km 142.608 E ± 8.6km
DEPTH = 60.6 ± 15.0 km
4.4mb (9 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT 6.01 216 iPd 51 15.70 0.1
1.0s 42.00nm 4.8mb
(S) 52 33.00
MDJ 10.03 292 eP 52 11.50 0.5
BJI 20.05 275 eP 54 16.50 -1.3
1.0s 15.00nm 4.3mb
Z 20s 0.30um 3.6msz

SSE 20.09 246 eP 54 22.00 3.7X
NJ2 21.18 251 Pc 54 28.20 -1.2
XAN 27.52 265 P 55 29.70 -0.3
WMO 39.83 292 P 57 17.50 1.4
TTA 41.28 38 P 57 42.50 14.8X
IMA 42.41 33 P 57 36.90 -0.2
0.8s 4.31nm 4.3mb

GUN 47.77 272 P 58 21.98 1.3
KKN 48.29 273 P 58 24.70 0.3
PKI 48.31 272 P 58 25.32 0.6
DMN 48.51 272 P 58 25.14 -1.1
GKN 48.66 273 P 58 27.20 0.0
INK 50.02 29 eP 58 37.00 0.1
MBC 52.00 18 eP 58 52.00 0.2
WRA 61.60 189 P 00 02.00 1.4
0.7s 1.70nm 4.3mb
GBA 62.55 264 Pc 00 07.20 0.1
0.4s 1.70nm 4.5mb
ASPA 65.33 189 iPd 00 24.10 -0.9
0.8s 7.90nm 4.8mb
NUR 66.47 332 eP 00 26.00 -5.9X
HFS 70.41 336 eP 00 55.80 -0.6
0.4s 1.30nm 4.2mb
NB2 70.44 337 P 00 56.20 -0.4
0.9s 4.90nm 4.4mb
TNP 72.50 55 P 01 09.00 -0.5
0.8s 1.84nm 4.1mb
SIV 147.40 46 PKP 09 23.80 0.4
S.D. = 0.9 on 21 of 24 obs.

* NOV 18, 1990 09h 58m 35.74s
59.533 N 153.273 W
DEPTH = 104.5km
SOUTHERN ALASKA (2)
<AGS-P>.

OPT 0.12 10 iP 58 49.80 0.8
eS 59 00.20
AUE 0.18 196 eP 58 49.79 0.8
AUP 0.19 204 iP 58 50.12 0.9
AGU 0.19 205 eP 58 50.12 0.9
AUH 0.19 207 eP 58 50.07 0.9
AUI 0.21 202 iP 58 50.03 0.9
PDB 0.53 299 iP 58 51.72 -0.7
INE 0.54 11 eP 58 51.91 -0.8
INW 0.54 7 eP 58 51.74 -0.9
eS 59 04.19

CDD 0.63 198 iP 58 52.31 -1.0
eS 59 05.64
MCNL 0.65 238 iP 58 52.57 -0.8
XLV 0.80 95 eP 58 53.87 -0.8
HOM 0.84 81 eP 58 54.54 -0.5
eS 59 08.70
RS2 0.97 15 eP 58 55.70 -1.0
eS 59 11.84
RSO 0.97 15 iP 58 55.78 -0.9
eS 59 11.44
REF 1.00 16 eP 58 56.10 -0.9
RDN 1.02 14 eP 58 56.41 -0.7
SYI 1.03 153 eP 58 55.99 -1.1
eS 59 11.42

CNPM 1.04 90 eP 58 56.06 -1.2
NCT 1.05 9 eP 58 56.54 -0.9
eS 59 12.40
NNL 1.12 62 eP 58 58.02 -0.1
RDT 1.13 22 iP 58 57.26 -1.1
eS 59 13.45

NKA 1.58 39 iP 59 04.33 0.7
CKL 1.73 15 iP 59 04.74 -0.9
SPU 1.76 20 eP 59 04.84 -1.1
BGL 1.79 14 eP 59 05.62 -0.8
SLKM 1.82 56 eP 59 05.17 -1.5
KDC 1.84 167 iPd 59 04.30 -2.5
CGLM 1.89 19 eP 59 06.59 -1.0
NCG 1.96 16 eP 59 07.71 -0.8
SVW 1.97 325 iPd 59 07.30 -1.3
SEW 2.01 72 eP 59 07.29 -1.8
PMS 2.52 45 eP 59 14.41 -1.5
PWA 2.71 37 eP 59 16.63 -1.7
LTI 2.79 77 eP 59 17.25 -2.2

KNIM 2.90 71 eP 59 18.42 -2.6
PLRM 2.91 43 eP 59 19.36 -1.7
PMR 2.91 43 iPc 59 19.20 -1.8
KNK 3.04 50 eP 59 20.46 -2.5
MID 3.54 89 iPc 59 29.70 0.1
TTA 3.66 340 iPd 59 29.50 -1.9
TOA 4.33 50 eP 59 40.60 0.1
42 obs. associated

* NOV 18, 1990 11h 18m 59.82±1.10s
38.785 N ± 9.9km 27.462 E ± 17.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.42 202 iPg 19 08.10 -0.2
iSg 19 16.60
EZN 1.36 320 ePn 19 25.80 1.0
EDC 1.59 11 ePn 19 27.50 -0.6
BNT 1.61 13 iPn 19 26.80 -1.5
IZI 2.20 44 iPn 19 38.30 1.4
S.D. = 1.7 on 5 of 5 obs.

NOV 18, 1990 11h 30m 27.79±0.30s
41.389 N ± 5.5km 142.819 E ± 4.9km
DEPTH = 54.0km (3 depth phases)
5.0mb (28 obs.)
HOKKAIDO, JAPAN REGION (224)

HOIJ 1.05 19 iP+ 30 46.20 -0.3
S 31 00.70
MRRJ 1.67 309 iP+ 30 56.00 1.0
S 31 16.70
SAP 2.00 327 eP 31 00.00 0.3
iS 31 24.00
AOMJ 2.03 247 P 31 02.70 2.6
S 31 30.30
KUSJ 2.21 39 iP+ 31 00.90 -1.8
S 31 26.00
OFUJ 2.47 201 P 31 06.60 0.3
S 31 39.50
ASAJ 2.73 357 eP 31 09.90 -0.2
MAT 6.03 218 iPd 31 57.90 1.4
0.9s 75.63nm 5.1mb

MDJ 10.21 293 eP 32 58.00 3.6X
CN2 13.03 286 eP 33 31.00 -1.1
Z 20s 1.20um
N 12s 0.40um
E 12s 0.20um

SNY 14.41 278 eP 33 00.00
Z 22s 0.80um 36 00.00
BJI 20.22 275 eP 34 57.50 -3.2X
1.2s 1042.00nm 6.0mb X
Z 22s 0.61um 3.9msz

NJ2 21.30 252 Pc 35 09.80 -1.9
Z 18s 0.20um 3.6msz
HHC 23.49 279 eP 35 31.60 -1.9
TIY 23.65 271 eP 35 33.00 -2.0
Z 20s 0.50um 4.0msz

BTO 24.69 279 eP 35 43.00 -2.1
WHN 25.35 254 Pd 35 51.50 0.3
XAN 27.67 266 P 36 11.50 -1.1
LZH 30.67 273 (P) 36 31.00 -8.5X
GTA 32.57 281 P 36 57.00 1.0
0.4s 4.00nm 4.6mb

CD2 32.98 264 eP 36 58.30 -1.3
CD2 32.98 264 eP 36 59.40 -0.2
KMI 36.87 257 eP 37 33.00 0.0
1.5s 70.00nm 5.4mb

pP 37 41.50 29kmX
WMO 40.01 293 iPc 37 59.50 0.6
TTA 41.26 37 P 38 14.00 5.1X
SVW 41.43 40 eP 38 11.70 1.5
BRW 41.99 25 iPc 38 15.20 0.5
IMA 42.41 33 iPc 38 18.50 0.1
0.6s 20.30nm 5.0mb

CHG 43.54 252 eP 38 29.60 1.7
PMR 44.52 39 iPd 38 37.70 2.4
0.3s 4.40nm 4.7mb
FBA 44.87 34 iPd 38 38.40 0.3
1.1s 113.10nm 5.6mb

TOA 45.86 38 iPd 38 47.40 1.4
0.8s 36.80nm 5.3mb
GUN 47.94 272 P 39 03.32 0.1
0.4s 86.00nm 6.1mb X
KKN 48.45 273 P 39 07.12 0.1

PKI	0.4 s	19.00nm	5.4mb	48.47	272 P	39 07.52	0.2
DMN	48.68	273 P	39 09.04	0.2			
GKN	0.4 s	13.00nm	5.3mb	48.82	273 P	39 09.70	-0.1
INK	0.3 s	19.00nm	5.5mb	50.03	29 ePd	39 18.20	-0.1
MBC	0.5 s	19.00nm	5.4mb	52.05	18 eP	39 31.50	-2.0
NDI	0.5 s	4.00nm	4.7mb	54.01	279 eP	39 48.00	-0.7
HYB	59.48	267 eP	40 27.00	-0.7			
YKA	59.52	32 eP	40 24.00	-3.4X			
KEV	0.6 s	1.60nm	4.3mb	59.77	339 eP	40 29.00	0.0
SOD	61.39	337 iP	40 38.90	-1.2			
WB5	61.46	189 eP	40 39.90	-1.1			
WRA	61.52	189 P	40 40.00	-1.4			
DAG	0.6 s	27.00nm	5.6mb	61.54	355 iPd	40 39.60	-1.4
GBA	0.3 s	12.99nm	5.5mb	62.70	264 P	40 49.00	-0.4
PNT	64.33	46 eP	40 59.00	-0.8			
LON	0.7 s	9.00nm	4.9mb	64.55	49 P	41 00.50	-0.8
SUF	64.60	333 iP	41 00.10	-1.2			
KOD	0.4 s	3.30nm	4.7mb	64.84	261 eP	41 03.80	0.0
ASPA	65.25	189 iPd	41 05.40	-0.5			
EDM	0.6 s	17.40nm	5.2mb	65.28	40 eP	41 05.10	-0.8
NEW	66.28	46 P	41 11.70	-0.7			
NUR	66.63	332 iP	41 13.40	-0.9			
RMO	0.5 s	11.20nm	5.1mb	67.76	174 eP	41 21.00	-0.7
FFC	69.47	34 eP	41 31.00	-1.1			
LRM	0.9 s	12.00nm	4.8mb	70.30	46 eP	41 37.80	0.1
CMB	70.50	56 P	41 38.50	-0.2			
HFS	1.0 s	10.00nm	4.7mb	70.57	336 eP	41 37.30	-1.4
Z	0.4 s	8.10nm	5.0mb	17 s	0.29um	4.6mszX	
NB2	70.60	337 P	41 37.40	-1.5			
FRB	0.8 s	4.40nm	4.4mb	72.29	14 eP	41 49.00	0.1
TNP	72.43	55 P	41 50.80	0.3			
RSSD	75.88	43 P	42 10.00	-0.3			
KRA	76.10	326 eP	42 11.10	0.0			
KSP	76.97	328 eP	42 16.00	0.0			
CLL	77.86	330 e(P)	42 32.00	11.2X			
GOL	78.27	47 P	42 24.00	0.3			
KHC	0.9 s	3.31nm	4.3mb	79.40	329 eP	42 32.00	2.6
ALO	80.98	51 eP	42 38.70	0.5			
SKO	1.0 s	4.50nm	4.4mb	81.57	320 eP	42 29.00	-11.9X
LOR	84.50	333 eP	42 55.40	-0.5			
Z	21 s	0.38um	4.8msz	84.71	333 eP	42 57.10	0.1
LBF	84.80	333 eP	42 58.60	1.2			
SSF	85.00	331 eP	42 59.40	0.6			
LPG	0.4 s	2.30nm	4.6mb	85.09	333 eP	42 59.30	0.5
AVF	0.4 s	2.30nm	4.7mb	85.85	334 eP	43 03.50	0.9
MAF	0.5 s	3.65nm	4.8mb	86.17	334 eP	43 05.70	1.5
LSF	86.39	335 eP	43 07.30	2.0			
MFF	87.16	333 eP	43 10.40	1.3			
CAF	87.59	334 eP	43 12.40	1.3			
LFF	87.67	334 eP	43 12.70	1.2			
SIV	147.35	46 PKP	50 05.60	0.9			
SOB1	147.78	7 ePKP	50 07.00	1.5			
PDCR	151.20	4 ePKPc	50 17.00	6.3X			
S.D.	1.1	on 78 of 86 obs.					
?	NOV 18, 1990	11h 46m 57.50±8.20s					
	39.406 N ±57.8km	29.635 E ±20.8km					
	DEPTH = 10.0km (geophysicist)						
TURKEY	(366)						
IZI	0.94	352 iPg	47 14.80	-0.6			
YLV	1.18	350 iPg	47 20.20	0.7			
EYL	1.23	19 ePg	47 20.00	-0.4			
KCT	1.29	311 ePg	47 21.30	-0.2			
HRT	1.41	1 ePn	47 23.80	0.5			
S.D.	0.8	on 5 of 5 obs.					
?	NOV 18, 1990	12h 16m 51.19±1.41s					
	3.774 N ±15.1km	97.540 E ±10.3km					
	DEPTH = 56.5 ±15.3 km						
	4.2mb (3 obs.)						
NORTHERN SUMATERA	(706)						
TSI	1.06	105 eP	17 10.50	0.5			
BSI	2.82	307 eP	17 30.00	-0.7			
IPM	3.57	77 ePd	17 45.20	-0.2			
SNG	4.56	42 eP	17 58.00	-1.3			
CHTO	15.01	5 P	20 23.60	2.1			
KOD	20.92	289 eP	21 32.60	0.8			
GBA	22.12	297 Pd	21 43.70	0.2			
ASPA	44.71	129 eP	25 01.20	0.4			
APO	83.59	330 eP	29 12.80	-1.6			
PPD	144.76	236 e(PKP)	36 24.00	-0.2			
S.D.	1.3	on 10 of 10 obs.					
%	NOV 18, 1990	12h 45m 21.20±0.50s					
	40.433 N ±9.5km	28.897 E ±3.5km					
	DEPTH = 10.0km (geophysicist)						
TURKEY	(366)						
YLV	0.39	70 iPg	45 29.30	0.1			
IZI	0.45	102 iPg	45 29.60	-0.8			
KCT	0.45	246 iPg	45 29.80	-0.6			
HRT	0.70	56 iPg	45 35.30	0.2			
BNT	0.75	264 iPg	45 35.90	0.0			
EDC	0.79	264 ePg	45 36.00	-0.6			
EYL	0.97	82 ePn	45 39.30	-0.4			
GPA	1.09	97 iPn	45 42.00	0.3			
KGT	1.22	271 iPn	45 44.80	1.0			
ALT	1.66	145 ePn	45 51.50	0.9			
S.D.	0.7	on 10 of 10 obs.					
?	NOV 18, 1990	12h 56m 22.95±23.79s					
	42.035 N ±159.km	26.843 E ±119.km					
	DEPTH = 10.0km (geophysicist)						
BULGARIA	(359)						
MD 2.7 (ISK).							
DMK	0.71	107 iPg	56 36.50	-0.5			
KGT	1.62	167 iPn	56 51.30	-0.3			
BNT	1.86	154 ePn	56 55.30	0.1			
ISK	1.92	119 ePn	56 57.00	1.0			
HRT	2.45	119 iPn	57 03.30	-0.3			
S.D.	0.8	on 5 of 5 obs.					
%	NOV 18, 1990	13h 08m 56.41±1.06s					
	39.125 N ±7.6km	27.710 E ±12.5km					
	DEPTH = 10.0km (geophysicist)						
TURKEY	(366)						
MD 2.2 (ISK).							
IZM	0.81	206 iPg	09 12.10	0.0			
EDC	1.23	5 ePn	09 20.00	0.8			
KCT	1.23	24 ePn	09 19.30	0.0			
BNT	1.24	7 ePn	09 19.00	-0.4			
EZN	1.28	304 ePn	09 20.30	0.2			
KGT	1.36	347 iPn	09 20.80	-0.6			
S.D.	0.6	on 6 of 6 obs.					
?	NOV 18, 1990	13h 13m 49.20±1.32s					
	13.987 S ±26.2km	72.706 W ±16.0km					
	DEPTH = 91.1 ±16.1 km						
	4.3mb (1 obs.)						
PERU	(116)						
ARE	2.73	155 iPc	14 32.00	-0.1			
NNA	4.49	296 iPd	14 55.20	-1.1			
ZOBO	4.97	118 iPc	15 05.00	1.5			
LPB	5.12	120 Pc	15 07.00	1.7			
CCH	7.17	119 P	15 33.50	0.0			
SIV	11.42	102 P	16 28.70	-2.2			
PPD	21.84	115 e(P)	18 33.90	-1.8			
TNP	66.50	323 P	24 33.40	1.8			
YKA	82.95	342 eP	26 06.00	1.0			
WRA	137.05	219 PKP	33 04.00	-0.1			
MAT	144.40	315 ePKP	33 16.00	-0.8			
GBA	151.01	87 PKP	33 35.00	7.2X			
S.D.	1.7	on 11 of 12 obs.					
&	NOV 18, 1990	13h 35m 02.02s					
	63.338 N	151.986 W					
	DEPTH = 35.5km						
CENTRAL ALASKA	(1)						
<AGS-P>.							
TRF	0.77	81 iP	35 16.31	-0.4			
HUR	1.13	108 eP	35 21.87	0.3			
CUT	1.22	139 eP	35 23.54	0.6			
SKT	1.38	171 iP	35 24.67	-0.6			
BWN	1.40	52 eP	35 26.09	0.6			
RND	1.41	86 iP	35 25.73	-0.1			
MCK	1.42	72 eP	35 25.33	-0.6			
NEA	1.79	45 eP	35 30.48	-0.6			
TTA	1.87	259 eP	35 32.17	-0.2			
NCG	1.94	182 eP	35 33.56	0.1			
PWA	1.96	149 eP	35 34.27	0.8			
CGLM	2.04	180 eP	35 34.88	0.1			
WRH	2.06	55 eP	35 33.95	-1.1			
CRP	2.08	182 eP	35 35.75	0.3			
GHO	2.12	137 eP	35 36.03	0.2			
CKL	2.16	185 eP	35 37.13	0.7			
PLRM	2.20	142 eP	35 36.82	0.0			
PMR	2.20	142 iPd	35 39.40	2.6			
CCB	2.26	53 iP	35 36.70	-1.1			
MDM	2.31	44 eP	35 37.65	-0.9			
PMS	2.39	151 eP	35 41.10	1.5			
FBA	2.42	48 iPd	35 39.10	-0.9			
HDA	2.47	62 eP	35 39.52	-1.2			
SVW	2.81	219 iPd	35 54.90	9.3			
IMA	2.84	346 iPd	35 49.00	2.9			
TOA	2.95	112 iPd	35 52.00	4.4			
26 obs. associated							
?	NOV 18, 1990	13h 59m 30.44±1.79s					
	35.826 N ±12.8km	141.319 E ±12.7km					
	DEPTH = 45.5 ±15.6 km						
	4.2mb (2 obs.)						
NEAR EAST COAST OF HONSHU, JAPAN(228)							
KAKJ	1.00	292 P	59 47.10	-1.2			
CHJJ	1.90	277 P	59 59.00	-1.1			
YAMJ	2.56	337 eP	00 12.20	1.8			
MAT	2.62	287 iPd	00 11.20	0.0			
IIDJ	2.80	264 eP	00 14.40	0.6			
MTMJ	2.94	286 eP	00 16.00	0.1			
OFUJ	3.26	5 eP	00 21.50	1.2			
TSRJ	4.35	268 eP	00 36.30	0.5			
AOMJ	4.78	351 eP	00 44.10	2.3			
MRRJ	6.59	358 eP	01 06.70	-0.5			
HOJ	6.72	13 P	01 08.90	-0.2			
KUSJ	7.72	19 eP	01 21.10	-1.9			
ASAJ	8.34	7 eP	01 29.40	-2.2			
PKI	47.73	277 P	08 05.46	0.2			
KKN	47.74	277 P	08 05.68	0.5			
GKN	48.17	277 P	08 08.06	-0.4			
WB5	55.79	188 eP	09 05.00	0.2			
WRA	55.86	188 P	09 05.00	-0.			

18d 14h

0.7s 2.10nm 4.3mb
 ASPA 59.58 188 eP 09 33.80 1.9
 GBA 61.05 266 P 09 40.00 -2.1
 HFS 75.16 336 eP 11 10.70 1.4
 0.5s 1.10nm 4.1mb
 TNP 76.68 53 (P) 11 20.00 1.4
 BOG 127.86 47 ePKP 18 32.00 -1.7
 LPB 147.54 61 PKP 19 13.00 3.6X
 SIV 151.91 51 PKP 19 25.20 9.6X
 S.D. = 1.4 on 23 of 25 obs.

NOV 18, 1990 14h 15m 56.61 ± 0.44s
 2.289 N ± 8.8km 84.407 W ± 6.7km
 DEPTH = 33.0km (normal)
 5.0mb (10 obs.) 4.6Msz (2 obs.)
 OFF COAST OF CENTRAL AMERICA (76)

GGP 6.30 113 eP 17 28.20 -2.1
 QUR 6.36 113 eP 17 29.50 -1.5
 COTA 6.37 108 eP 17 29.00 -2.2
 RECU 6.52 116 eP 17 34.60 1.3
 CAYA 6.79 109 eP 17 36.50 -0.5
 UPA 8.23 36 iPd 17 58.80 2.1
 1.0s 520.00nm 6.6mb X
 IISM 20.90 323 (P) 20 40.00 1.3
 LVVM 20.96 327 (P) 20 38.00 -1.3
 ACX 20.99 315 (P) 20 40.50 0.7
 IIT 21.49 322 (P) 20 47.00 2.0
 PPM 21.72 321 (P) 20 49.50 1.8
 III 21.76 318 (P) 20 48.50 0.8
 PORP 23.44 47 P 21 05.70 1.7
 SJG 23.83 48 P 21 09.60 1.8
 CPD 23.96 48 P 21 11.00 1.9
 LPR 24.16 48 P 21 12.40 1.3
 ZOBO 24.47 139 P 21 16.20 1.5
 1.0s 28.75nm 4.8mb
 Z 20s 1.43um 4.5Msz
 S 25 48.00
 LR 31 12.00
 LPB 24.68 140 P 21 18.00 1.5
 1.0s 64.00nm 5.2mb
 Z 18s 2.06um 4.7Msz
 LR 31 08.00
 SIV 29.36 129 P 21 59.20 0.1
 RSCP 33.16 358 P 22 31.00 -1.3
 TKL 33.21 1 P 22 31.00 -1.6
 OLY 33.69 350 P 22 35.00 -1.8
 MEO 34.92 339 iPd 22 46.80 -0.7
 BLA 34.95 6 P 22 47.00 -0.7
 ALO 38.42 330 iPc 23 17.80 0.6
 1.0s 26.25nm 5.0mb
 WVLY 40.35 7 P 23 32.00 -0.9
 GOL 41.83 336 P 23 45.30 -0.1
 0.9s 11.13nm 4.6mb
 BAR 42.79 318 eP 23 54.00 1.0
 TPC 43.28 321 eP 23 58.00 0.9
 PLM 43.33 319 eP 23 59.00 1.4
 PEC 43.86 319 P 24 02.00 0.3
 RVR 44.06 319 eP 24 04.00 0.7
 GSC 44.53 321 eP 24 08.00 0.8
 MWC 44.65 319 eP 24 09.00 0.7
 SBB 44.79 320 eP 24 09.00 -0.3
 DAU 45.06 331 P 24 11.50 -0.2
 RSSD 45.14 340 P 24 12.00 -0.2
 BCH 46.56 319 P 24 23.50 0.2
 TNP 46.60 324 P 24 23.70 0.0
 0.8s 12.75nm 4.9mb
 FRI 47.41 321 eP 24 29.00 -0.9
 PRI 47.51 320 eP 24 31.20 0.4
 LLA 47.97 320 eP 24 34.20 -0.2
 PRS 48.08 319 eP 24 35.00 -0.2
 CMB 48.48 322 eP 24 37.60 -0.7
 ARN 48.79 320 P 24 40.50 -0.2
 MHC 48.85 320 eP 24 41.50 0.2
 PCC 49.42 320 eP 24 35.40 -10.0X
 LRM 49.83 335 eP 24 48.00 -0.8
 ORV 50.11 323 eP 24 51.30 0.6
 MIN 50.66 323 eP 24 54.30 -0.8
 WDC 51.37 323 eP 24 57.50 -2.8
 LBFM 51.46 324 P 25 00.00 -1.2
 SES 52.98 339 eP 25 12.00 -0.3
 NEW 53.75 333 P 25 16.30 -1.7
 1.0s 10.00nm 4.8mb
 FFC 54.20 348 eP 25 20.00 -1.1
 1.3s 38.00nm 5.3mb
 SCH 54.30 12 eP 25 22.00 0.1
 PNT 55.65 333 eP 25 31.00 -0.8

0.9s 23.00nm 5.2mb
 EDM 56.12 339 iPc 25 33.40 -1.7
 YKA 64.14 345 eP 26 27.50 -2.3
 0.9s 10.60nm 4.9mb
 INK 73.74 343 eP 27 29.00 0.1
 MBC 76.44 352 eP 27 44.50 0.3
 1.0s 22.00nm 5.1mb
 FBA 76.89 337 P 27 48.00 1.0
 IMA 79.60 337 P 27 58.00 -4.0X
 WRA 138.29 242 PKP 35 23.00 1.6
 0.8s 3.10nm
 GKN 148.09 19 PKP 35 41.38 3.2X
 KKN 148.49 18 PKP 35 42.70 3.8X
 GUN 148.55 17 PKP 35 43.32 4.2X
 DMN 148.61 18 PKP 35 42.94 3.8X
 PKI 148.74 18 PKP 35 42.96 3.5X
 S.D. = 1.2 on 62 of 69 obs.

? NOV 18, 1990 14h 16m 41.31 ± 1.07s
 39.102 N ± 11.8km 27.490 E ± 46.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

I ZM 0.73 194 iPg 16 55.60 0.0
 iSg 17 07.60
 EDC 1.28 13 ePn 17 05.00 0.0
 BNT 1.30 15 iPn 17 05.30 0.0
 KGT 1.36 354 iPn 17 06.20 0.0
 S.D. = 0.0 on 4 of 4 obs.

NOV 18, 1990 14h 20m 56.77 ± 0.31s
 50.075 N ± 3.8km 7.755 E ± 2.9km
 DEPTH = 28.3 ± 3.6 km
 GERMANY (543)
 ML 3.8 (LDG), 3.4 (BNS), 3.4 (GRF). Felt (IV) in the Rhine area south of Koblenz.

BGG 0.30 296 iPg 21 04.20 0.1
 0.1s 1209.00nm
 eSg 21 08.60
 KOE 0.35 358 iPg 21 03.30 -1.5
 0.1s 1330.00nm
 Sg 21 07.10
 TNS 0.47 71 iPg 21 04.90 -1.8
 iSg 21 09.50
 RUP 0.58 230 ePg 21 09.71 1.2
 STB 0.78 312 ePd 21 12.20 0.4
 KTD 0.79 164 ePg 21 12.91 1.1
 TOD 0.83 124 ePg 21 12.43 0.0
 BNS 0.96 338 iPg 21 14.40 0.1
 0.4s 1700.00nm
 Sg 21 26.30
 GSH 1.10 307 iPg 21 17.00 0.6
 iSg 21 31.00
 PLH 1.11 328 iPg 21 16.80 0.5
 eSg 21 30.90
 MEM 1.24 296 iP 21 19.60 1.3
 ENN 1.36 301 iPn 21 21.10 1.1
 STU 1.61 144 ePn 21 28.90 5.3X
 0.7s 24.66nm
 CDF 1.69 191 Pn 21 26.00 1.1
 Pg 21 29.20
 Sg 21 50.20
 WTS 2.01 343 iPnc 21 36.10 6.7X
 DOU 2.04 272 P 21 31.60 1.8
 i 21 35.00
 iS 22 01.10
 FEL 2.21 176 ePg 21 33.40 1.0
 HAU 2.27 205 Pn 21 33.20 0.1
 Pg 21 40.50
 Sg 22 09.80
 SNF 2.27 282 P 21 43.50 10.5X
 GRF 2.27 98 e(Pn) 21 33.80 0.6
 ePg 21 38.40
 e(Sn) 21 58.60
 eSg 22 06.70
 BSF 2.33 196 Pn 21 34.00 -0.1
 Sg 22 12.40
 MOX 2.54 76 ePn 21 36.00 -1.0
 iPg 21 42.00
 iSn 22 05.00
 iSg 22 14.00
 HOF 2.66 83 ePn 21 37.90 -0.8
 WET 3.46 104 iPnc 21 51.10 1.0
 CLL 3.56 68 ePg 22 00.00 8.6X

SQTA 3.66 140 iSg 22 46.40
 iPnc 21 54.30 1.3
 i 22 01.90
 iSn 22 32.80
 LOR 3.82 224 Pn 21 54.10 -0.9
 Sn 22 38.40
 Sg 23 01.00
 KHC 3.90 102 iPn 21 57.00 0.7
 Pg 22 04.50
 Sn 22 41.00
 Sg 22 58.10
 LBF 3.98 220 Pn 21 56.20 -1.3
 Pg 22 14.40
 Sn 22 40.40
 Sg 23 06.00
 BRG 4.03 76 ePn 21 57.00 -1.1
 iPg 22 09.00
 iSg 23 02.00
 SSF 4.13 225 Pn 21 58.40 -1.1
 Pg 22 15.60
 Sg 23 10.00
 SMF 4.31 219 Pn 22 00.70 -1.4
 Pg 22 19.10
 Sn 22 50.00
 Sg 23 14.60
 AVF 4.40 223 Pn 22 02.00 -1.4
 LPL 4.61 189 Pn 22 06.00 -0.6
 Pg 22 23.00
 BGF 4.81 225 Pn 22 09.20 0.1
 Pg 22 28.20
 Sg 23 31.00
 FVI 4.83 134 P 22 11.50 2.1
 MAF 5.19 224 Pn 22 12.60 -1.9
 Sg 23 42.80
 TCF 5.30 226 Pn 22 15.60 -0.5
 Pg 22 37.00
 LDF 5.36 257 Pn 22 16.80 -0.1
 KSP 5.51 79 ePn 22 19.00 0.0
 iPg 22 38.10
 iSn 23 19.70
 iSg 23 44.80
 FLN 5.53 259 Pn 22 19.20 -0.1
 LSF 5.66 230 Pg 22 44.00 22.9X
 GRR 5.89 257 Pn 22 24.00 -0.4
 LPF 6.13 254 Pn 22 28.20 0.4
 MFF 6.31 240 Pn 22 30.00 -0.3
 Pg 22 57.00
 RJF 6.36 224 Pg 22 57.00 25.9X
 NRA0 10.90 10 Pn 23 27.40 -6.4X
 Sn 25 21.10
 S.D. = 1.1 on 40 of 47 obs.

* NOV 18, 1990 14h 44m 09.80 ± 2.56s
 16.237 N ± 15.2km 60.702 W ± 18.5km
 DEPTH = 29.4 ± 8.6 km
 LEEWARD ISLANDS (92)
 ML 3.0 (FDF).

DEG 0.35 283 eP 44 18.02 0.0
 SFG 0.47 272 iPc 44 19.63 -0.2
 S 44 25.80
 MGG 0.67 242 iPc 44 22.96 0.0
 S 44 31.10
 SEG 0.79 282 iPc 44 24.60 -0.2
 S 44 34.20
 DOG 0.90 257 ePc 44 26.69 0.2
 S 44 38.00
 PAG 0.96 258 eP 44 27.60 0.3
 BBL 1.03 227 iPc 44 28.05 -0.2
 S 44 40.30
 CRM 1.49 188 eP 44 35.48 0.7
 FDF 1.56 196 iPc 44 35.55 -0.3
 0.1s 0.35nm
 S 44 53.80
 MVM 1.68 186 iPc 44 37.27 -0.4
 S 44 58.20
 S.D. = 0.4 on 10 of 10 obs.

? NOV 18, 1990 15h 03m 04.95 ± 0.99s
 48.045 N ± 9.5km 6.682 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.5 (LDG).
 BSF 0.23 161 Pg 03 09.50 -0.4
 Sg 03 12.50
 HAU 0.23 260 Pg 03 10.00 0.1

[illegible]

NORTHERN SUMATERA (706

BAL	E	13s	4.80um							TOO	1.5s	72.22nm	5.6mb	SOD	79.02	338	iP	35	04.00	-0.9			
		39.02	153	eP	30	29.00	0.2				60.83	137	iPc	33	16.10	1.4	KEV	79.58	341	eP	35	07.00	-0.9
BJI				e	32	38.00				BRS	61.83	124	iPd	33	21.40	-0.3	SRO	79.72	318	eP	35	09.00	-0.1
		39.76	23	ePc	30	35.97	1.2						iS	41	48.00				e	45	12.40		
MUN		39.97	155	iPc	30	37.30	0.6			CAN	62.17	134	eP	33	23.00	-0.8	GR1	80.47	309	P	35	14.47	1.2
		0.9s	145.00nm				5.9mb			COO	62.32	128	eP	33	24.00	-0.9		1.6s	310.20nm			6.0mb	
KSH				e	32	42.00				CNB	62.43	133	ePd	33	26.00	0.4	ORI	80.51	310	P	35	14.59	1.1
	N	40.31	334	eP	30	40.50	1.0			HNR	63.78	102	eP	33	33.00	-1.7		1.3s	190.00nm			5.9mb	
KLB				eS	36	48.00				BADA	63.90	300	eP	33	35.80	0.5	ZST	80.57	318	iP	35	13.60	0.0
		40.33	153	iPc	30	40.20	0.6			DSI	64.16	303	eP	33	37.00	0.0	TDS	80.57	309	P	35	15.15	1.4
WMQ		0.4s	30.00nm				5.5mb			PRNI	64.24	302	eP	33	37.50	0.0		1.2s	131.50nm			5.7mb	
				e	32	42.50				BHL	64.44	306	P	33	38.00	-0.9	SOP	80.89	318	eP	35	14.50	-0.8
DL2				ePc	30	41.60	-0.3			ADI	64.61	305	eP	33	40.00	0.1	VKA	81.10	318	eP	35	16.00	-0.4
		40.62	349	ePc	30	43.75	7kmX			HLW	67.28	301	eP	33	56.00	-0.9	ZAG	81.16	316	iPc	35	17.50	0.8
Z				eS	36	44.13							eS	42	52.00		PTJ	81.19	316	iPc	35	16.60	-0.4
	N	41.21	29	P	30	48.00	1.3			KAS	67.72	313	eP	33	59.00	-0.6	ATN	81.19	308	P	35	17.50	0.4
E		4.0s	800.00nm				5.9mb X			ANTO	68.06	311	ePc	34	00.43	-1.4	KSP	81.30	321	ePc	35	17.70	0.3
		16s	2.30um				5.1MsZ X						ed	34	02.41	6kmX		1.5s	74.00nm			5.4mb	
COOL				eS	37	00.00				BBTK	68.08	311	iPc	34	01.00	-1.0	UPP	81.44	330	iP	35	16.00	-1.8
		41.42	148	eP	30	48.00	-0.6						e	34	40.00	163kmX	PZI	81.60	307	P	35	19.76	0.5
WB5				iP	31	03.60	-1.3			LWI	68.78	266	iPc	34	08.20	1.3		1.1s	107.80nm			5.7mb	
		43.40	124	eP	31	03.60	-1.3			ELL	69.62	308	iP	34	10.50	-1.0	VBY	81.65	315	iP	35	19.70	0.4
SNY				i	32	54.00	648kmX			ALT	69.91	310	iP	34	12.10	-1.1	MNO	81.79	308	P	35	22.00	1.5
		44.42	28	Pc	31	13.60	0.8			KRI	69.97	251	iPc	34	03.00	-10.9X	THZ	81.91	133	P	35	21.20	0.5
Z		1.8s	100.00nm				5.3mb			EYL	70.19	312	eP	34	13.20	-1.7	LJU	82.19	316	iP	35	22.50	0.4
		14s	5.30um				5.6MsZ X			HRT	70.61	312	iP	34	15.70	-1.6	CEY	82.25	315	eP	35	22.50	0.1
N		13s	1.80um							IZI	70.65	311	eP	34	16.00	-1.7	RFI	82.42	311	P	35	23.86	0.5
		E	13s	4.30um						YLV	70.77	312	iP	34	16.20	-2.2		1.6s	1545.00nm			6.7mb X	
ASPA				pP	31	29.00	60km			ARG	70.95	307	eP	34	18.30	-1.1	KHZ	82.51	134	P	35	24.70	0.9
		44.97	129	iPc	31	16.10	-1.4			ISK	71.11	312	eP	34	19.00	-1.3	SDI	82.56	311	P	35	24.02	-0.2
Z		0.7s	65.10nm				5.6mb			BUL	71.54	247	iPc	34	21.90	-1.5		1.2s	112.80nm			5.7mb	
		22s	2.40um				5.1MsZ				1.3s	177.88nm	5.8mb	VOY	82.63	316	iP	35	24.30	-0.2			
CN2				iPcP	32	58.70				KAP	71.61	306	eP	34	22.50	-0.9	TRI	82.71	315	ePc	35	24.00	-0.8
		46.82	28	Pc	31	31.00	-0.8			BNT	71.82	311	iP	34	23.20	-1.4	BRG	82.79	321	iPc	35	24.90	-0.2
Z		4.0s	300.00nm				5.6mb X			EDC	71.86	311	eP	34	24.00	-0.8		1.6s	110.00nm			5.6mb	
		12s	5.00um				5.7MsZ X			IZM	71.98	309	iP	34	25.20	-0.4	AZI	82.85	312	P	35	26.10	0.5
N		12s	3.00um							SMG	72.20	308	eP	34	26.00	-0.9		1.1s	87.20nm			5.6mb	
		E	12s	1.00um						DZM	72.27	115	iPc	34	28.10	0.5	KHC	82.95	319	iPc	35	26.60	0.6
MAIO				PP	33	24.00				PSN	72.27	315	iP	34	27.00	-0.2	ARV	83.24	313	P	35	28.29	0.7
		47.42	318	iPd	31	36.80	0.0			CFR	72.61	316	eP	34	28.50	-0.6		1.5s	311.10nm			6.1mb	
TSRJ				e	33	06.00	460kmX			NPS	72.83	306	eP	34	30.20	-0.5	RDP	83.38	311	P	35	28.61	0.2
		47.54	44	P	31	39.80	2.2			PRK	72.88	310	eP	34	30.30	-0.5		1.4s	396.80nm			6.2mb	
QIS		48.08	122	iPc	31	40.90	-1.2			EZN	72.93	310	iP	34	30.40	-0.7	RMP	83.40	311	P	35	28.50	0.1
		0.3s	18.00nm				5.5mb			SLR	73.02	242	ePc	34	32.18	0.1	CLL	83.40	321	iPc	35	28.00	-0.2
HIA		49.02	19	iPc	31	48.13	-0.8				1.8s	164.14nm	5.7mb		1.8s	81.00nm			e	35	39.00	35kmX	
				ec	32	05.01	66km			JMB	73.19	313	iP	34	32.00	-0.6	WET	83.41	319	iPc	35	28.90	0.5
MTMJ				eS	38	47.80				VRI	73.73	317	iPc	34	36.00	0.3		1.5s	100.00nm			5.6mb	
		49.35	44	P	31	52.50	0.8			RDO	73.74	312	eP	34	34.80	-1.0	FVI	83.42	316	P	35	28.46	0.1
MDJ		49.43	30	eP	31	51.50	-0.6			DIM	73.89	313	iP	34	36.00	-0.6	MNS	83.42	312	P	35	28.47	-0.1
	Z	16s	2.70um				5.3MsZ X			KDZ	73.91	312	eP	34	36.00	-0.8		1.1s	13.90nm			4.9mb	
N		14s	2.40um							VAM	74.00	306	eP	34	37.30	-0.1	HFS	83.43	330	eP	35	27.90	-0.3
		E	14s	2.20um						MLR	74.19	316	ePc	34	38.00	-0.5		1.4s	76.40nm			5.5mb	
YYYY				pP	32	10.00	74km			PVL	74.23	314	iPc	34	39.00	0.5	Z	20s	1.36um			5.3MsZ	
		49.59	102	eP	31	54.00	0.0			RZN	74.43	312	iPc	34	39.00	-1.1			LR	09	54.00		
MAJO		49.60	44	ePd	31	54.00	0.5			PLD	74.51	313	iPc	34	39.00	-1.2	ASS	83.44	313	P	35	32.16	3.5X
		49.60	44	eP	31	53.00	-0.6			CMP	74.78	316	ePc	34	41.00	-0.8		1.2s	67.40nm			5.5mb	
MAT		1.2s	28.13nm				5.2mb			PGB	74.97	313	iP	34	42.00	-1.0	MNG	83.58	131	P	35	29.60	0.3
		49.90	45	P	31	55.00	-0.8			MMB	75.15	312	iPc	34	43.00	-1.0	RSM	83.60	314	P	35	30.70	1.3
PMG		51.38	105	eP	32	06.00	-1.3			VLI	75.16	307	eP	34	42.00								

18d 16h

ME	84.87	314	P	35	37.77	1.7	PNT	118.04	26	ePKP	41	48.00	0.2	BGF	14.41	45	Pn	36	36.50	-0.5
BDI	84.94	314	P	35	36.31	0.1		0.6s	4.00nm					SSF	15.08	44	Pn	36	45.20	-0.4
	0.7s	45.50nm			5.6mb		SES	120.62	21	ePKP	41	52.00	-0.7	LOR	15.39	44	Pn	36	50.00	0.2
SAL	84.98	315	P	35	37.47	1.2	LBFM	122.47	34	ePKP	41	57.80	1.0	S.D. = 0.7 on 28 of 28 obs.						
	0.1s	23.20nm			6.2mb		TNP	127.33	34	ePKP	42	06.80	0.5	NOV 18, 1990 18h 03m 22.89±0.66s						
MDI	85.55	315	P	35	39.02	0.0	ABL	128.33	39	e(PKP)	42	09.50	1.2	45.594 N ± 7.9km 14.916 E ± 4.4km						
	1.2s	101.00nm			5.8mb		SBB	129.30	38	ePKP	42	10.00	0.0	DEPTH = 10.0km (geophysicist)						
BOB	85.75	314	P	35	40.90	0.6	MWC	129.46	38	ePKP	42	14.00	3.6X	YUGOSLAVIA (383)						
	1.7s	322.30nm			6.1mb		GSC	129.50	37	ePKP	42	12.00	1.7	MD 2.5 (TRI). ML 2.3 (KBA). Felt						
SAX	85.77	317	eP+	35	40.70	0.1	PEC	130.24	38	PKP	42	12.00	0.3	(V) at Dolga Vas and Livold;						
LLS	86.02	317	eP+	35	41.90	0.2	TPC	130.77	37	ePKP	42	14.00	1.2	(IV) at Kacevje.						
TMA	86.13	316	eP+	35	41.90	-0.3	BAR	131.35	39	ePKP	42	16.00	2.1							
PGF	86.14	312	eP	35	42.60	0.3	ALO	135.31	28	e(PKP)	42	21.00	-0.6							
VAI	86.20	316	P	35	42.43	0.1		Z 18s	0.52um			5.3msz		VBY	0.26	110	iPg	03	28.80	0.5
	0.7s	7.30nm			4.9mb		PDCR	136.14	256	ePKP	42	13.20	-10.2X				iSg	03	32.80	
SLE	86.34	317	eP+	35	42.70	-0.3	JFO	137.96	242	e(PKP)	42	29.00	2.3	CEY	0.37	293	iPg	03	30.40	-0.2
ZLA	86.42	317	eP+	35	43.60	0.2	SOB1	138.21	261	e(PKP)	42	14.40	-13.0X				iSg	03	35.90	
FEL	86.66	318	eP	35	44.05	-0.6	VAO	140.64	238	ePKP	42	33.30	1.7	RIY	0.45	236	iPg	03	31.70	-0.3
MMK	86.76	316	eP+	35	45.70	0.3	PPD	144.69	237	ePKP	42	38.70	0.2				iSg	03	38.60	
CDF	87.13	318	eP	35	46.60	-0.3						42 46.30		LJU	0.52	329	iPg	03	32.60	-0.9
	1.0s	12.00nm			5.0mb		LNK	148.35	198	ePKP	42	49.00	4.9X				iSg	03	39.90	
DIX	87.14	316	eP+	35	48.00	0.7	PCH	148.37	200	iPKP	42	49.00	4.7X	ZAG	0.78	73	ePg	03	37.50	-0.6
SBF	87.23	314	eP	35	47.50	0.0	MDZ	148.44	203	e(PKP)	42	46.80	2.4				iSg	03	51.50	
	1.0s	64.00nm			5.7mb		SAN	148.58	199	ePKP	42	49.00	4.4X	PTJ	0.79	67	iPg	03	38.00	-0.3
WTS	87.25	322	eP	35	48.50	1.2	LCCH	148.85	198	ePKP	42	50.00	5.1X				iSg	03	51.90	
EMS	87.48	316	eP+	35	49.20	0.4	PEL	148.87	200	iPKPd	42	50.50	5.4X	TRI	0.82	279	ePg	03	38.50	-0.2
BSF	87.48	318	eP	35	48.20	-0.4	JACH	149.26	200	ePKP	42	52.00	6.2X				iSg	03	49.60	
	1.0s	12.00nm			5.0mb		CFA	149.32	205	ePKPc	42	47.20	1.4	VOY	0.84	302	iPg	03	38.30	-0.9
LPG	87.63	315	eP	35	49.80	0.1	RTCB	149.66	204	ePKP	42	43.00	-3.4X				eSg	03	50.20	
	1.0s	34.00nm			5.5mb		SIV	155.64	239	PKP	42	56.80	1.6	FVI	1.79	305	P	03	55.00	1.0
LPL	87.65	315	eP	35	49.90	0.3						43 23.00					eSg	04	21.30	
	1.0s	50.00nm			5.6mb		CCH	159.01	229	PKP	43	00.40	0.8	KBA	1.84	324	iPg	03	56.80	1.8
BNI	87.71	315	P	35	50.00	0.1	LPB	161.00	228	PKPc	43	05.00	3.2X				iSg	04	20.30	
HAU	87.77	318	eP	35	49.70	-0.2		1.9s	368.42nm								i	04	21.90	
	1.0s	28.00nm			5.4mb							43 48.00		S.D. = 1.0 on 10 of 10 obs.						
FRF	87.82	313	eP	35	50.70	0.5						47 32.00		& NOV 18, 1990 18h 03m 45.68s						
	1.4s	113.25nm			5.8mb		ZOBO	161.19	228	ePKPc	43	03.71	1.5	59.574 N 150.914 W						
MEM	87.83	320	Pc	35	50.70	0.6	S.D. = 1.1 on 269 of 293 obs.							DEPTH = 39.3km						
ENN	87.88	321	eP	35	51.00	0.7	* NOV 18, 1990 16h 33m 11.03±4.31s							KENAI PENINSULA, ALASKA (14)						
LMR	87.93	313	eP	35	51.20	0.5	37.181 N ±20.0km 11.894 W ±31.9km							<AGS-P>.						
	1.2s	35.70nm			5.4mb		DEPTH = 10.0km (geophysicist)													
LRG	88.03	313	eP	35	52.00	0.8	NORTH ATLANTIC OCEAN (402)							BRLK 0.19 4 iP 03 52.28 -0.6						
Z	20s	0.45um			4.9msz		mbLg 3.9 (MDD).							HOM 0.38 283 eP 03 54.37 -0.5						
DOU	88.77	320	Pc	35	55.10	0.5	EVAL	4.12	83	eP	34	16.20	0.8	XLV 0.43 254 eP 03 54.35 -1.1						
UCC	88.86	321	Pc	35	55.80	0.8						35 05.90		NNL 0.51 338 eP 03 56.53 0.0						
SNF	88.94	320	Pc	35	55.90	0.5	EJIF	5.21	96	eP	34	31.40	0.6	SEW 0.91 54 eP 04 00.63 -1.5						
LBF	89.45	317	eP	35	58.30	0.3						35 33.10		SLKM 1.00 20 iP 04 03.01 -0.4						
	1.5s	114.90nm			5.9mb		EHOR	5.32	81	eP	34	32.40	-0.1	OPT 1.18 275 eP 04 05.85 -0.1						
LOR	89.50	317	iPc	35	58.50	0.3						35 35.40		NKA 1.18 352 eP 04 07.24 1.3						
	1.5s	122.75nm			5.9mb		EPRU	5.33	90	eP	34	32.90	0.2	INE 1.19 295 eP 04 05.42 -0.8						
Z	21s	0.30um			4.7msz							35 37.00		INW 1.23 295 iP 04 06.05 -0.7						
SBA	89.57	169	iPc	36	00.40	2.6	EPLA	5.39	56	eP	34	34.50	1.1	RDT 1.25 324 eP 04 06.20 -0.8						
SMF	89.57	317	iPc	35	59.90	1.4						35 39.30		AUE 1.27 261 eP 04 07.22 0.0						
	1.5s	125.35nm			6.0mb		EZAM	5.54	25	eP	34	35.60	0.1	REF 1.28 316 eP 04 06.98 -0.6						
SSF	89.76	317	eP	36	00.00	0.6						35 38.00		RSO 1.28 315 iP 04 07.10 -0.5						
	1.5s	73.10nm			5.7mb		STS	6.25	23	eP	34	45.60	0.1	RS2 1.29 315 iP 04 07.18 -0.5						
AVF	89.89	317	iPc	36	00.50	0.5						35 55.50		AUI 1.31 261 eP 04 07.80 0.1						
	1.5s	94.00nm			5.8mb		ERUA	6.36	34	eP	34	47.90	0.8	RDN 1.32 316 eP 04 07.75 -0.4						
BGF	90.26	317	eP	36	02.50	0.8						36 00.60		NCT 1.42 315 eP 04 08.87 -0.5						
	1.4s	100.20nm			5.9mb		EBAN	6.51	79	eP	34	49.00	-0.2	CDD 1.54 246 eP 04 10.57 -0.6						
MAF	90.49	316	eP	36	03.60	0.8						36 03.70		PDB 1.68 279 eP 04 13.10 0.1						
	1.4s	47.90nm			5.6mb		ECOG	6.65	87	eP	34	51.30	0.0	SPU 1.71 341 eP 04 13.10 -0.4						
TCF	90.73	316	eP	36	04.90	1.0						36 09.80		CKL 1.77 337 eP 04 14.19 -0.4						
	1.5s	73.10nm			5.8mb		AFC	6.66	87	eP	34	51.10	-0.5	KNIM 1.78 63 eP 04 15.96 1.5						
CAF	90.98	315	eP	36	06.00	0.9						36 33.90		PMS 1.81 21 eP 04 16.61 1.7						
	1.5s	78.35nm			5.8mb		GUD	6.95	58	eP	34	55.80	0.2	CRP 1.81 341 eP 04 15.29 0.2						
LSF	91.20	316	eP	36	06.70	0.7						36 08.20		CGLM 1.82 343 eP 04 15.21 0.0						
	1.5s	83.55nm			5.9mb		EMON	7.15	28	eP	34	58.10	-0.1	BGL 1.85 337 eP 04 15.59 0.0						
RJF	91.32	315	eP	36	07.80	1.2						36 16.80		NCG 1.94 342 eP 04 17.27 0.4						
	1.5s	125.35nm			6.1mb		EVIA	7.56	76	eP	35	03.00	-1.1	28 abs. associated						
Z	21s	0.38um			4.8msz							36 18.70		& NOV 18, 1990 18h 14m 45.82s						
LPO	91.63	315	eP	36	09.10	1.1						36 30.60		62.183 N 151.111 W						
	1.5s	135.80nm			6.1mb		ENIJ	7.74	89	eP	35	06.30	-0.2	DEPTH = 74.5km						
DAG	91.99	348	eP	36	06.00	-3.1X						35 16.80	-0.1	CENTRAL ALASKA (1)						
LDF	92.01	319	eP	36	10.40	0.7						36 52.50		<AGS-P>.						
	1.4s	87.15nm			6.0mb		ETOR	8.48	62	eP	35	23.00	0.2							
FLN	92.22	319	eP	36	11.10	0.5						35 24.30	0.0							
	21s	0.52um			5.0msz		ECHE	8.91	71	eP	35	40.70	-0.4							
MFF	92.30	317	eP	36	12.00	0.9						35 52.00	0.0							
	1.5s	109.70nm			6.1mb		ECRI	9.02	50	eP	35	24.30	0.0							
GRR	92.52	319	eP	36	12.50	0.5	EROO	10.24	65	eP	35	40.70	-0.4							
LPF	92.70	318	eP	36	14.00	1.2	EPF	11.04	54	Pn	35	52.00	0.0							
	1.5s	83.55nm			5.9mb							37 58.00								
EKA	92.74	326	P	36	15.00	2.1						36 10.70	2.0							
	1.2s	32.70nm			5.6mb		LFF	12.28	47	eP	36	10.70	2.0							
MBC	97.19	8	eP	36	27.50	-5.4X	RJF	12.94	47	Pn	36	16.60	-1.0							
KIP	102.13	67	iPd	36	51.11	-5.1X	CAF	13.06	49	Pn	36	18.20	-1.0							
							TCF	13.90	45	Pn	36	29.80	-0.5							
							MAF	14.06	46	Pn	36	32.00	-0.4							

SKT	0.28	224	iP	14	56.83	-0.8	MCNL	0.83	258	eP	09	29.73	-0.9	BIM	3.77	150	iPd	29	12.86	0.4
CUT	0.45	60	iP	14	58.17	-0.6			eS	09	42.29			MVM	3.83	147	iPd	29	13.17	0.0
SUA	0.74	166	eP	15	01.32	-0.6	PDB	0.85	301	iP	09	29.86	-0.9	SLB	4.39	154	eP	29	21.20	0.1
PWA	0.79	132	iP	15	01.84	-0.4			eS	09	43.06					eS	30	04.00		
			eS	15	14.13		NNL	1.01	47	eP	09	32.57	0.0	SVV	4.79	158	eP	29	26.88	0.4
NCG	0.93	213	iP	15	03.05	-1.0	BRLK	1.03	66	eP	09	31.79	-1.1	SVB	4.82	159	eP	29	27.23	0.3
CGLM	0.98	206	eP	15	03.67	-1.0	RSO	1.10	360	iP	09	33.23	-0.8	GRW	5.76	166	eP	29	41.22	1.1
CRP	1.05	209	eP	15	04.73	-0.8			eS	09	49.12					eS	30	49.00		
			eS	15	19.91		RS2	1.11	360	iP	09	33.27	-0.7	TRN	7.28	167	eP	30	03.91	2.9
HUR	1.05	40	eP	15	04.45	-1.0	REF	1.13	1	iP	09	33.57	-0.7				eS	31	35.91	
			eS	15	19.18		RDN	1.16	360	iP	09	33.82	-0.7	TBH	7.52	165	eP	30	08.02	3.8X
SPU	1.10	205	eP	15	05.21	-0.9	NCT	1.21	356	eP	09	33.33	-1.8	TPP	7.60	168	eP	30	10.72	5.4X
			eS	15	20.37		RDT	1.23	8	iP	09	34.40	-1.0	LLAV	8.15	207	iP	30	11.10	-1.9
BGL	1.11	214	iP	15	06.01	-0.3	NKA	1.58	28	eP	09	40.91	1.1				iS	31	40.00	
PLRM	1.11	121	eP	15	05.42	-0.7	KDC	1.62	175	iPd	09	38.80	-1.6	CAR	8.17	208	iP	30	12.00	-1.3
PMR	1.11	121	iPd	15	05.50	-0.7	SLKM	1.72	47	eP	09	40.33	-1.3				iS	31	39.40	
GHO	1.11	111	eP	15	05.85	-0.5	SEW	1.83	65	eP	09	41.72	-1.4	GUAN	8.20	198	iP	30	14.00	0.3
CKL	1.15	211	iP	15	06.09	-0.7	CKL	1.85	6	eP	09	42.48	-1.1	OLLA	8.56	206	iP	30	17.60	-0.9
PMS	1.20	141	eP	15	06.82	-0.5	SPU	1.86	10	eP	09	41.88	-1.7				iS	31	48.20	
TRF	1.33	16	eP	15	08.22	-1.0	BGL	1.92	5	iP	09	43.89	-0.5	MORO	8.58	217	iP	30	18.10	-0.7
			eS	15	25.48		CRP	1.94	9	eP	09	43.96	-0.8				iS	31	55.10	
KNK	1.48	120	iP	15	10.14	-0.9	CGLM	1.99	10	eP	09	44.55	-0.8	GUAC	8.61	209	iP	30	17.50	-1.8
RND	1.61	39	eP	15	11.98	-0.9	NCG	2.07	8	eP	09	45.66	-0.9				iS	31	51.00	
			eS	15	31.28		SVW	2.26	322	iPd	09	48.00	-1.1	PLAV	8.99	209	iP	30	17.40	-7.2X
RDT	1.73	202	eP	15	13.64	-0.9	SUA	2.33	24	eP	09	49.53	-0.6				iS	31	51.10	
SLKM	1.74	165	eP	15	13.94	-0.6	PMS	2.47	39	iP	09	50.96	-0.9	CEOS	10.12	211	iP	30	38.50	-1.3
SCM	1.82	99	eP	15	14.40	-1.3	LTI	2.57	73	eP	09	51.45	-1.8				iS	32	28.40	
TOA	2.32	90	eP	15	20.79	-1.8	PWA	2.70	30	eP	09	53.84	-1.1	TOV	10.32	220	ePn	30	43.00	0.6
GLI	2.33	122	eP	15	20.14	-2.5	KNIM	2.72	66	eP	09	52.97	-2.3				eSn	32	33.30	
TTA	2.39	290	iPc	15	21.50	-2.1	PMR	2.87	37	iPd	09	56.20	-1.1	SDV	11.54	221	eP	30	58.80	0.0
KNIM	2.46	137	eP	15	21.03	-3.4	KNK	2.96	44	eP	09	56.56	-2.1				eS	33	02.50	
VLZ	2.51	113	eP	15	22.74	-2.4	GHO	3.07	36	eP	09	58.32	-1.8	BMG	14.48	224	iPc	31	37.00	-0.2
KLU	2.56	103	eP	15	23.69	-2.2	GLI	3.21	59	eP	09	59.21	-2.9	FUQ	16.11	222	eP	31	59.00	0.8
SDG	2.62	80	eP	15	26.79	0.1	TTA	3.91	338	iPd	10	10.20	-1.7	BOG	16.97	221	eP	32	10.00	1.1
IMA	4.06	345	iPd	15	45.40	-1.5	TOA	4.24	47	iPd	10	16.60	0.1				iS	35	23.00	
29 obs. associated							45 obs. associated							UPA	18.27	243	iPd	32	25.50	1.0
• NOV 18, 1990 19h 46m 59.34±1.02s							NOV 18, 1990 20h 28m 15.38±0.09s							PSO	21.67	222	eP	33	01.50	1.0
14.622 S ±16.2km 71.902 W ±11.1km							17.800 N ±1.7km 63.036 W ±1.8km							HBF	21.69	317	P	33	01.00	0.9
DEPTH = 136.3 ±13.2 km							DEPTH = 91.8km (21 depth phases)							SGS	21.94	318	P	33	03.80	1.2
4.8mb (1 obs.)							5.5mb (81 obs.)							CBN	23.89	331	eP	33	23.20	1.7
PERU (116)							LEEWARD ISLANDS (92)							BLA	24.66	325	iPc	33	29.80	0.9
ARE	1.87	168	iPd	47	32.00	-0.9	MD 5.3 (TRN). Felt (IV) on St.								1.0s	295.00nm			5.7mb	
ZOBO	3.99	115	iPc	48	01.50	1.0	Guadeloupe. Also felt on							Z	20s	1.06um			4.3msz	
LPB	4.13	118	Pc	48	03.20	1.0	Anguilla, Antigua, St. Croix,							LVNJ	25.06	339	P	33	33.40	0.8
CNCB	4.36	120	iPc	48	06.80	1.4	St. Martin, St. Thomas and in							TBR	25.17	340	P	33	33.30	-0.4
NNA	5.48	298	iPc	48	19.60	-0.3	eastern Puerto Rico.							RSCP	26.72	316	P	33	47.00	-1.0
	0.8s	97.01nm				5.1mb X	CENTROID, MOMENT TENSOR (HRV)							BNH	27.59	347	P	33	56.70	0.9
							Data Used: GDSN							HBVT	27.79	344	P	33	57.70	0.1
CCH	6.18	117	P	48	29.50	-0.3	L.P.B.: 16S, 28C							WVLY	27.93	335	P	33	58.90	0.0
SIV	10.54	99	P	49	25.60	-2.3	Centroid Location:							PWLA	28.08	312	P	34	00.50	0.2
PEL	18.47	177	iPc	51	07.40	-0.1	Origin Time 20:28:19.0 0.5							RSNY	28.36	343	P	34	03.60	0.9
PPD	20.87	114	eP	51	31.10	-1.2	Lat 17.83N 0.06 Lon 62.92W 0.05								0.8s	21.37nm			4.8mb	
VAO	25.00	113	e(P)	52	14.00	1.7	Dep 90.1 2.9 Holf-duration 1.8							CLE	28.44	330	iP	34	04.30	0.8
PDCR	31.92	90	eP	53	13.10	-1.1	Moment Tensor: Scale 10**17 Nm							CBM	29.35	353	P	34	11.40	-0.2
FVM	55.14	342	(P)	56	20.80	1.1	Mrr= 0.99 0.05 Mtt= 0.10 0.07							ELC	30.10	315	P	34	18.00	-0.3
	1.0s	14.00nm				4.8mb	Mff=-1.09 0.09 Mrt= 0.33 0.05							FVM	31.28	316	ePc	34	28.20	-0.5
NOZ	95.98	228	eP	00	27.90	15.6X	Mrf=-0.32 0.05 Mtf= 0.58 0.07										eP	34	49.30	92km
PUZ	96.04	228	eP	00	20.90	8.3X	Principal Axes:							NNA	32.59	206	e(P)	34	39.50	-0.8
WLZ	98.06	228	eP	00	26.80	5.1X	T Vol= 1.10 Plg=73 Azm= 14								0.5s	21.13nm			5.2mb	
GBA	150.26	88	PKP	06	38.00	6.9X	N 0.29 13 154										i	35	00.00	89km
	S.D. = 1.5	on	12 of	16 obs.			P -1.39 10 247							PPM	33.75	278	(P)	34	50.50	-0.5
& NOV 18, 1990 20h 09m 12.84s							Best Double Couple: Mo=1.2*10**17							ZOBO	34.22	189	P	34	53.20	-1.8
59.361 N 152.751 W							NP1:Strike=352 Dip=37 Slip= 112								24s	0.68um			4.3mszX	
DEPTH = 85.8km							NP2: 146 56 75										S	40	08.00	
SOUTHERN ALASKA (2)							SKI	0.54	149	eP	28	33.00	2.1	LPB	34.48	189	P	34	55.00	-2.0
<AGS-P>							NEV	0.80	146	iPc	28	34.54	1.3				e	40	20.00	
AUE	0.32	270	eP	09	25.62	-0.4	BPA	1.35	123	ePd	28	39.82	0.1	SOB1	34.62	139	eP	34	58.20	0.3
AUP	0.34	271	eP	09	26.01	-0.3	SEG	2.02	133	iPd	28	48.88	0.5				e	35	24.40	118kmX
AUI	0.35	266	eP	09	25.75	-0.5	PAG	2.19	143	iPd	28	51.81	1.1				e	34	58.20	-1.2
AGU	0.35	270	eP	09	26.30	-0.1				S	29	09.40		CNCB	34.73	188	P	34	58.20	
AUH	0.35	271	eP	09	26.38	0.0	BTG	2.20	145	iPd	28	51.83	1.0				e	40	40.00	
OPT	0.38	320	iP	09	25.98	-0.5				S	29	20.00		CCH	35.09	185	P	35	00.30	-1.8
XLV	0.53	79	eP	09	26.75	-0.9	DOG	2.22	142	iPd	28	52.15	1.0	SCH	37.06	356	ePc	35	18.60	0.6
			eS	09	37.87		SFG	2.34	131	iPd	28	52.53	-0.2		0.6s	52.00nm			5.6mb	
CDD	0.63	227	iP	09	27.85	-0.7	DEG	2.40	128	eP	28	53.60	0.0	PDCR	38.28	140	eP	35	28.60	-0.1
			eS	09	38.78		BBL	2.71	146	iPd	28	58.92	1.1				e	35	49.30	87km
HOM	0.64	62	iP	09	28.07	-0.5	LPR	2.74	281	P	28	59.00	0.7	PPD	41.22	163	eP	35	52.00	-0.8
INE	0.72	347	iP	09	28.68	-0.9	CPD	2.75	275	P	28	59.90	1.5				e	36	16.20	104kmX
INW	0.73	345	eP	09	28.85	-0.8	SJG	2.98	276	P	29	03.30	1.7				e	36	59.20	
			eS	09	40.93		PORP	3.44	275	P	29	08.90	1.1				e	37	50.40	
SYI	0.78	166	eP	09	29.16	-0.8	FDF	3.55	149	iPd	29	09.43	0.1	ALO	42.12	303	iPc	36	01.00	0.6
			eS	09	41.87			0.2s	9.25nm						0.9s					

18d 20h																				
	1.0s	21.25nm	4.9mb																	
RSSD	43.23	316	iPd	36	26.00	94km		LIC	57.69	94 Pc	37	58.18	-0.8		DIX	63.89	47 eP+	38	40.20	-0.7
			pP	36	09.00	-0.3		KIC	0.7s	75.00nm			5.9mb		ROB	64.20	49 P	38	42.31	-0.4
			ipP	36	31.00	92km			57.92	94 Pc	38	00.04	-0.6		IMI	64.21	49 P	38	41.59	-1.2
			i	41	40.00			BTH	0.7s	85.50nm			5.9mb		MMK	64.28	47 eP+	38	43.20	-0.2
VAO	43.49	158	eP	36	11.70	0.3			58.30	50 Pc	38	03.00	0.1		ORX	64.28	47 P	38	42.52	-0.8
			e	36	35.10	99km				ipP	38	27.00	97km		FEL	64.34	45 eP	38	42.64	-1.0
BMA	44.28	155	eP	36	17.60	-0.2				iPcP	38	46.40			FIN	64.44	49 P	38	43.23	-1.0
			e	36	39.50	92km				pPcP	39	18.50			CKI	64.49	49 P	38	44.40	-0.1
DAU	47.09	309	ePc	36	40.10	-0.2		LPF	58.30	44 iPc	38	02.80	0.0			1.8s	111.20nm		5.5mb	
			epP	37	02.50	93km		GRR	1.0s	52.00nm			5.6mb		PCP	64.68	49 P	38	44.98	-0.8
			esP	37	09.80				58.47	44 iPc	38	03.80	-0.2		TNS	64.71	42 ePc	38	45.50	-0.4
LRM	49.41	316	ePc	36	58.50	0.4			1.0s	78.00nm			5.8mb		VAI	64.84	47 P	38	46.43	-0.2
			e	37	20.80	92km		EKA	58.50	35 Pd	38	04.80	0.7			0.6s	9.40nm		4.9mb	
TPC	49.82	300	eP	37	02.00	0.9		EROQ	1.7s	184.60nm			5.9mb		TMA	64.91	47 eP+	38	46.70	-0.7
SES	50.10	322	iPc	37	03.00	0.0		EBR	58.59	53 eP	38	05.30	0.3		LLS	65.00	46 eP+	38	47.90	-0.1
	1.0s	178.00nm			6.1mb		EPF	58.66	53 eP	38	07.00	1.6		PGF	65.05	51 eP	38	47.70	-0.6	
			pP	37	25.00	90km			58.69	50 iPc	38	06.00	0.3			0.6s	23.45nm		5.3mb	
BAR	50.23	298	eP	37	05.00	0.8		MFF	1.1s	114.45nm			5.9mb		MBC	65.07	347 ePc	38	47.20	-0.5
PLM	50.44	299	eP	37	07.00	1.0			58.71	46 iPc	38	05.90	0.2			1.0s	126.00nm		5.8mb	
GSC	50.55	301	eP	37	08.00	1.3		FLN	1.0s	76.00nm			5.8mb		SAX	65.24	46 eP+	38	49.60	0.0
PEC	50.72	299	P	37	08.00	0.0			58.78	43 iPc	38	06.20	0.1		VDL	65.32	46 eP+	38	49.90	-0.2
RVR	50.91	300	eP	37	09.00	-0.3			1.0s	88.00nm			5.8mb		MUD	65.52	36 ePd	38	52.00	1.2
PVL	51.18	188	eP	37	10.00	-1.3		LDF	Z 21s	0.35um			4.5MsZ			1.3s	44.00nm		5.2mb	
			i	37	33.00	95km			58.99	44 iPc	38	07.70	0.1		OGA	66.39	46 iPc	38	56.60	-0.3
TNP	51.20	305	iPc	37	11.80	0.0		LFF	1.0s	56.00nm			5.6mb		INK	66.40	338 iPc	38	55.00	-1.3
	0.8s	18.63nm			5.2mb				59.14	48 eP	38	08.90	0.2			1.1s	172.00nm		5.9mb	
			i	37	24.60			LPO	0.7s	35.30nm			5.6mb		GRF	66.49	43 ePc	38	56.90	-0.4
			ipP	37	34.00	91km			59.44	48 eP	38	10.50	-0.3			1.3s	75.00nm		5.5mb	
SBB	51.33	300	eP	37	13.00	0.4		RJF	0.7s	44.10nm			5.7mb			Z 20s	0.20um		4.3MsZ	
MWC	51.49	300	eP	37	14.00	0.0			59.72	48 eP	38	12.20	-0.6		SOTA	66.51	46 iPc	38	57.10	-0.5
EZAM	51.96	50	eP	37	17.70	0.5			1.0s	68.00nm			5.7mb			0.6s	46.20nm		5.6mb	
LNV	52.08	189	eP	37	16.00	-2.0		LSF	Z 22s	0.22um			4.3MsZ			i	39	20.40	91km	
STS	52.21	49	eP	37	19.00	0.0			59.82	46 iPc	38	13.10	-0.3				i	39	23.10	
EDM	52.51	324	iP	37	20.50	-0.7		CAF	1.0s	62.00nm			5.7mb		MOX	66.74	42 eP	38	59.00	0.2
EVAL	52.80	56	iPc	37	23.70	0.2			60.08	48 eP	38	14.80	-0.4		CTI	66.84	47 Pc	38	58.50	-1.2
FRI	53.05	303	eP	37	24.50	-0.8		TCF	1.2s	142.80nm			6.0mb		HOF	66.91	42 eP	39	00.30	0.4
SYP	53.09	300	eP	37	26.00	0.1		ESEL	60.29	46 iPc	38	16.30	-0.3		NB2	66.97	31 P	38	59.30	-0.8
ERUA	53.14	50	iPc	37	25.70	-0.2		ETER	60.46	54 eP	38	18.20	0.4			1.0s	66.50nm		5.5mb	
NEW	53.17	317	iP	37	25.00	-1.1		MAF	60.50	51 eP	38	18.40	0.3		SFI	67.08	49 P	39	00.14	-0.9
	1.0s	125.00nm			5.9mb				60.53	47 iPc	38	17.70	-0.6			1.7s	602.70nm		6.2mb	
			ipP	37	46.40	86km		BGF	1.0s	39.00nm			5.5mb		CRE	67.16	50 P	39	00.38	-1.4
			esP	37	55.50				60.76	46 iPc	38	19.30	-0.5		WET	67.58	44 iPc	39	03.50	-0.7
			e	38	13.70				1.1s	72.05nm			5.7mb		FVI	67.60	46 P	39	04.19	-0.1
EMON	53.19	49	iPc	37	25.80	-0.5		AVF	61.12	46 iPc	38	21.60	-0.6			1.4s	47.20nm		5.2mb	
EPLA	53.60	53	iPc	37	28.90	-0.4		SSF	61.25	46 iPc	38	22.40	-0.7		CLL	67.62	41 iPc	39	03.80	-0.5
OJEN	53.64	58	eP	37	29.00	-0.7		SMF	61.45	46 iPc	38	24.10	-0.4			1.4s	80.00nm		5.5mb	
CMB	53.68	304	eP	37	29.80	-0.2		LOR	61.50	45 iPc	38	23.80	-1.0			i	39	33.20	118kmX	
EJIF	53.72	58	iPc	37	31.50	1.3			1.0s	66.00nm			5.7mb		ASS	67.71	50 Pc	39	03.50	-1.7
EPRU	53.95	57	eP	37	33.00	1.0			Z 22s	0.30um			4.4MsZ		RMP	67.84	51 P	39	05.48	-0.4
EHOR	54.01	56	eP	37	32.30	0.0		LBF	61.56	46 iPc	38	24.50	-0.8			1.3s	216.10nm		5.9mb	
LLA	54.01	303	eP	37	32.00	-0.4			1.0s	44.00nm			5.5mb		RDP	67.85	52 P	39	06.13	0.1
			e	37	54.30	90km		SNF	62.07	42 Pc	38	27.60	-0.9			0.8s	73.00nm		5.7mb	
PRS	54.33	302	eP	37	34.10	-0.7		DOU	62.23	42 iPc	38	28.60	-1.0		ARV	67.89	50 P	39	05.32	-0.9
SAO	54.42	303	eP	37	35.80	0.4			0.5s	9.20nm			5.1mb			0.6s	16.60nm		5.1mb	
MAL	54.59	57	iPc	37	38.00	1.4		CDR	62.68	50 ePc	38	32.30	-0.3		KHC	68.04	44 P	39	07.00	0.0
MHC	54.62	303	eP	37	37.30	0.3		DAG	63.08	10 iPd	38	34.00	-0.7			e	39	32.50	100km	
			e	37	58.90	87km			1.0s	97.00nm			5.7mb		HFS	68.13	32 eP	39	06.50	-0.8
ORV	54.69	306	eP	37	37.00	-0.4		LRG	63.10	50 eP	38	35.60	0.2			0.9s	27.40nm		5.2mb	
			e	37	59.80	92km			0.6s	23.45nm			5.3mb			Z 18s	0.19um		4.4MsZ	
MIN	54.86	307	eP	37	37.50	-1.2			Z 21s	0.45um			4.6MsZ			LR	00	02.00		
PNT	55.03	318	eP	37	40.00	0.3		ENN	63.13	42 iPc	38	35.20	-0.3		BRG	68.22	42 iPc	39	07.60	-0.5
BKS	55.12	304	e(P)	37	41.50	1.0			1.1s	132.00nm			5.8mb			1.3s	80.00nm		5.5mb	
GUD	55.12	53	iPc	37	40.40	-0.2		MEM	63.17	42 Pc	38	35.30	-0.4		TRI	68.33	47 eP	39	08.10	-0.7
TOL	55.13	53	iP	37	41.00	0.5		LMR	63.21	50 eP	38	36.00	-0.2		VOY	68.40	47 iPc	39	09.00	-0.4
	1.1s	189.87nm			6.0mb				0.6s	19.85nm			5.2mb		SDI	68.67	52 P	39	10.53	-0.6
EBAN	55.18	56	iPc	37	40.70	-0.3		HAU	63.23	45 iPc	38	35.40	-0.9			0.3s	7.70nm		5.1mb	
PCC	55.21	304	eP	37	41.30	0.2			0.9s	29.50nm			5.2mb		CEY	68.79	47 ePc	39	11.40	-0.4
ECOG	55.30	57	iPc	37	42.10	0.2			Z 21s	0.28um			4.4MsZ		RFI	68.84	52 P	39	05.21	-6.8X
AFC	55.32	57	iPc	37	42.60	0.5		FRF	63.31	50 eP	38	36.50	-0.4			0.2s	47.50nm		6.0mb	
WDC	55.59	307	eP	37	41.30	-2.5			0.6s	25.25nm			5.3mb		LJU	68.85	47 ePc	39	12.00	0.0
EMEL	55.70	59	eP	37	45.30	0.6		BNI	63.35	48 P	38	37.79	0.5		DUI	69.16	52 P	39	14.50	0.4
EVIA	56.22	55	eP	37	48.60	0.1			1.9s	110.30nm			5.5mb		VBY	69.39	47 ePc	39	15.10	-0.3
AKU	56.23	21	iPc	37	48.80	0.8		LPL	63.40	48 iPc	38	37.80	0.1		KSP	69.71	42 iPc	39	17.00	-0.2
	1.1s	45.57nm			5.4mb			RRL	63.43	48 P	38	37.49	-0.4			1.1s	36.00nm		5.1mb	
LKO	56.24	90	Pc	37	48.18	-0.7		BSF	63.52	45 iPc	38	37.20	-1.1		PTJ	69.85	47 iP	39	17.60	-0.7
	0.6s	39.00nm			5.6mb				0.7s	26.45nm			5.3mb		SGO	69.91	53 P	39	18.84	0.2
ENIJ	56.36	57	iPc	37	49.40	-0.1		PZZ	63.65	49 P	38									

KRA	72.10	42 ePc	39 31.40	-0.2	GYA	134.88	13 PKP	47 26.60	0.6	KDZ	1.26	84 iPd	22 02.00	-0.5
	0.9s	54.00nm		5.4mb	QIZ	142.74	11 ePKP	47 35.10	-5.3X	RDO	1.41	105 ePb	22 04.60	-0.1
SPC	72.40	43 eP	39 34.50	0.9	BAG	145.82	354 ePKP	47 45.00	-0.9			eSb	22 24.00	
PMR	72.67	330 iPc	39 34.30	-0.4	CNB	146.38	232 ePKP	47 48.00	1.8	PAIG	1.61	182 iPc	22 06.70	-0.8
	1.3s	82.30nm		5.4mb			e	48 12.00				eS	22 26.93	
BEQ	73.12	48 e(P)	39 37.50	-0.2	CAN	146.65	232 ePKP	47 48.10	1.5	LIT	1.72	214 iPc	22 09.61	0.4
KEV	73.47	21 iP	39 39.80	0.6			i	48 12.80				eS	22 32.06	
NUR	73.56	31 iP	39 40.00	0.2	QCP	147.52	353 ePKP	47 31.00	-17.4X	SKO	1.78	285 iPg	22 04.00	-6.0X
	0.7s	30.70nm		5.3mb	TOO	148.17	226 ePKP	47 50.00	1.0			iSg	22 19.00	
SOD	73.60	24 iP	39 40.30	0.3			e	47 53.00		ALN	1.85	109 ePd	22 11.17	0.1
BZS	73.81	47 eP	39 42.00	0.3			e	48 20.00				eS	22 39.17	
OHR	73.96	51 iP	39 43.00	0.3	RMQ	149.38	248 ePKP	47 51.00	-0.2	KZN	1.93	231 ePn	22 12.60	0.2
	1.7s	238.00nm		5.8mb	PMG	149.53	282 ePKP	47 57.00	5.3X	FNA	1.94	248 ePc	22 12.85	0.4
SUF	73.99	29 iP	39 42.70	0.4	SNG	150.39	34 ePKP	47 53.90	0.9	PVL	2.05	35 eP	22 13.00	-1.0
	0.5s	11.50nm		5.0mb	CTA	152.22	261 iPKPd	48 02.90	7.4X	OHR	2.26	260 ePn	22 15.00	-2.1
IMA	74.16	335 iPc	39 43.10	-0.4			1.1s	50.63nm		EZN	2.60	130 ePn	22 23.00	1.1
	1.1s	84.20nm		5.5mb	IPM	152.76	37 ePKPd	47 58.90	2.4	AGG	2.73	204 iPc	22 23.70	-0.1
SKO	74.29	50 iP	39 44.60	0.1	QIS	158.44	259 ePKP	48 03.00	-0.7			iS	22 57.96	
VLS	74.31	54 eP	39 45.90	1.1	ASPA	163.12	247 iPKPd	48 08.00	-0.5	EVR	3.01	210 ePb	22 29.60	1.9
BRW	74.47	340 ePc	39 44.70	-0.3			iPP	49 21.70		BZS	4.36	340 ePc	22 47.00	0.2
BMR	74.76	44 ePd	39 48.00	0.9	WB5	163.40	260 ePKP	48 09.40	0.6	VR1	4.84	26 eP	22 49.00	-4.7X
KZN	74.83	52 iPc	39 48.00	0.2		S.D. = 0.8	on 307 of 316 obs.				28.34	2 eP	27 39.00	4.4X
KDC	74.85	326 iPd	39 48.30	0.9										
	1.3s	186.10nm		5.8mb		NOV 18, 1990	22h 48m 08.93±0.53s							
EVR	75.12	54 eP	39 50.50	1.0		41.610 N ± 4.8km	23.464 E ± 4.5km							
VAY	75.24	51 eP	39 50.40	0.4		DEPTH = 10.0km	(geophysicist)							
VTS	75.47	50 iPc	39 52.00	0.5		GREECE-BULGARIA BORDER REGION	(363)							
KKB	75.51	50 iP	39 53.00	1.4	MMB	0.20	96 iPgd	48 13.00	-0.3					
ITM	75.54	55 eP	39 52.20	0.4	KKB	0.38	312 iPgc	48 16.00	-0.8					
TTA	75.67	332 iPc	39 50.90	-1.2	SRS	0.50	169 ePd	48 18.61	-0.5					
	1.1s	24.70nm		5.0mb			eS	48 26.02						
SVW	75.84	330 iPc	39 52.20	-0.8	KNT	0.62	224 ePc	48 20.93	-0.5					
	0.9s	52.10nm		5.4mb			iS	48 29.29						
MMB	76.04	51 ePc	39 56.00	1.4	VAY	0.73	247 ePn	48 24.60	1.3					
PLG	76.07	52 eP	39 55.90	1.1	SOH	0.79	186 iPd	48 23.97	-0.4					
PGB	76.17	49 iP	39 56.00	0.7			eS	48 33.02						
VLI	76.43	56 eP	39 57.40	0.6	RZN	0.94	85 iPg	48 28.00	1.0					
RZN	76.74	50 iPc	39 59.00	0.3	GRG	1.03	231 iPd	48 28.25	-0.2					
MLR	76.83	46 ePc	40 00.00	1.0			eS	48 42.93						
PVL	76.87	49 iPc	39 59.00	-0.1	THE	1.05	201 ePc	48 28.57	-0.1					
DIM	77.26	50 eP	40 03.00	1.7			eS	48 42.61						
KDZ	77.27	50 eP	40 02.00	0.7	PGB	1.07	29 iPgc	48 29.00	-0.2					
VR1	77.28	46 ePd	40 02.00	0.7	IGT	3.16	230 ePc	49 00.38	0.7					
RDO	77.46	51 eP	40 03.20	0.8		S.D. = 0.8	on 11 of 11 obs.							
VAM	77.71	57 eP	40 04.50	0.6										
PRK	78.44	52 eP	40 08.50	0.7		? NOV 18, 1990	23h 08m 49.63±3.93s							
PSN	78.79	48 iP	40 10.00	0.4		39.080 N ±27.3km	28.885 E ±22.8km							
NPS	78.87	56 eP	40 10.80	0.5		DEPTH = 10.0km	(geophysicist)							
SMG	79.24	54 eP	40 13.00	0.8		TURKEY	(366)							
SDN	79.71	325 iPc	40 15.00	0.7		MD 2.6 (ISK).								
	0.9s	142.50nm		5.8mb										
KAP	80.04	56 eP	40 16.40	-0.1	ALT	0.95	91 ePg	09 07.80	-0.1					
BCAO	80.64	88 iPc	40 22.10	1.9			iSg	09 21.00						
	0.7s	27.00nm		5.2mb	KCT	1.24	341 iPn	09 12.60	0.0					
EYL	81.00	50 eP	40 22.00	0.3	IZI	1.33	20 ePn	09 14.10	-0.2					
BBTK	83.12	50 iPc	40 33.00	0.3	EYL	1.78	33 ePn	09 21.00	0.3					
ADI	87.13	56 eP	40 53.00	0.4		S.D. = 0.3	on 4 of 4 obs.							
JVI	87.61	57 eP	40 56.00	1.2										
PRNI	87.84	59 iPc	40 57.00	0.9		NOV 18, 1990	23h 21m 39.07±0.33s							
LWI	92.42	92 iPd	41 18.70	0.8		41.535 N ± 3.1km	23.742 E ± 3.5km							
BUL	97.46	109 iPd	41 38.10	-2.5		DEPTH = 10.0km	(geophysicist)							
	0.9s	4.62nm		5.0mb		GREECE-BULGARIA BORDER REGION	(363)							
GTA	120.87	15 ePKP	46 58.20	-0.7		MD 3.1 (ATH).								
MAT	122.34	340 iPKPc	47 00.60	-1.0	MMB	0.06	349 iPgd	21 42.00	0.7					
	0.7s	12.33nm			SRS	0.43	195 iPc	21 47.65	-0.2					
BJI	122.46	1 ePKP	47 01.00	-0.6			eS	21 53.93						
TIY	124.62	4 PKPc	47 06.00	0.0	KKB	0.59	304 iPgd	21 50.00	-1.1					
GKN	124.75	35 PKP	47 06.40	-0.3	KNT	0.74	240 iPc	21 52.92	-0.6					
	0.9s	87.00nm					eS	22 03.93						
LZH	124.99	13 ePKP	47 06.50	-0.4	SOH	0.77	202 iPc	21 53.50	-0.6					
KKN	125.27	35 PKP	47 07.46	-0.3			eS	22 04.10						
	0.8s	41.00nm			VAY	0.91	257 iPg	21 58.30	1.9					
DMN	125.31	35 PKP	47 07.50	-0.4		0.3s	188.00nm							
GUN	125.49	34 PKP	47 08.14	-0.3			iSg	22 08.70						
	0.9s	30.00nm					Lg	22 13.60						
PKI	125.51	35 PKP	47 07.70	-0.7	PLD	0.92	51 iPgc	21 57.00	0.4					
LSA	126.62	28 ePKP	47 10.70	0.0	PGB	1.06	17 iPgc	21 59.00	-0.1					
HYB	128.49	49 ePKP	47 13.50	-0.5	THE	1.08	213 ePd	21 59.17	-0.1					
CD2	129.93	15 ePKP	47 16.60	0.2			eS	22 13.78						
GBA	130.05	54 PKP	47 16.00	-0.9	VTS	1.13	340 iPgc	22 01.00	0.7					
NJ2	130.40	358 PKPd	47 17.00	-0.2	GRG	1.16	241 ePd	22 00.89	0.0					
SSE	131.22	355 PKP	47 18.00	-0.7			eS	22 16.97						
	1.0s	19.00nm			PLG	1.18	191 ePb	22 00.60	-0.5					
WHN	131.87	3 ePKP	47 20.50	0.5	OUR	1.21	171 ePd	22 01.74	0.1					
KOD	132.07	57 ePKP	47 21.20	0.0			eS	22 15.34						

19d 01h

	1.1 s	14.00 nm		4.6 mb
SNY	31.88	357 eP	43 02.80	0.4
ASPA	34.23	167 eP	43 21.40	-1.6
	0.5 s	8.20 nm		4.8 mb
WARB	35.86	179 iPc	43 37.50	0.8
GTA	37.55	326 Pc	43 50.60	-0.3
FORR	40.56	177 iPd	44 15.70	0.1
	0.4 s	22.00 nm		5.3 mb
GUN	41.74	301 P	44 26.40	0.4
	0.6 s	16.00 nm		5.0 mb
PKI	42.04	300 P	44 28.16	-0.2
	0.5 s	7.00 nm		4.7 mb
KKN	42.21	301 P	44 29.66	0.0
DMN	42.31	300 P	44 30.16	-0.3
	0.4 s	8.00 nm		4.8 mb
GKN	42.82	301 P	44 33.94	-0.6
	0.5 s	12.00 nm		4.9 mb
HYB	46.62	285 eP	45 06.00	1.2
FBA	79.50	26 P	48 42.00	1.0
KEV	80.30	340 eP	48 48.00	-15.7X
SOD	84.54	337 eP	49 04.00	-3.0
SUF	85.77	333 iP	49 14.50	1.3
	0.4 s	5.00 nm		4.8 mb
NUR	87.00	331 iP	49 20.20	1.0
	0.7 s	10.70 nm		4.9 mb
UPP	90.54	331 iP	49 35.00	-0.9
HFS	92.26	332 eP	49 44.00	0.1
	0.6 s	4.00 nm		4.8 mb
NB2	92.98	334 P	49 47.00	-0.3
	0.7 s	2.60 nm		4.6 mb
YKA	94.21	24 eP	49 54.60	1.8
	0.8 s	1.50 nm		4.4 mb

S.D. = 1.1 on 25 of 28 obs.

NOV 19, 1990 02h 33m 17.85 ± 0.47s
37.007 N ± 4.4 km 28.154 E ± 4.9 km
DEPTH = 7.0 ± 3.6 km

TURKEY (366)
MD 3.8 (ISK), 3.7 (ATH).

ARG	0.79	182	ePn	33	32.60	-0.9
			eSg	33	47.30	
SMG	1.26	304	ePn	33	41.70	0.2
			eSn	34	02.00	
ELL	1.43	100	ePn	33	44.50	0.2
KSL	1.45	127	ePb	33	44.30	-0.2
IZM	1.56	333	iPn	33	45.40	-0.6
KAP	1.65	209	ePn	33	47.60	0.2
KHL	1.71	39	iPn	33	47.90	-0.3
BCK	2.00	76	iPn	33	53.00	0.6
ALT	2.56	36	ePn	34	01.00	0.4
PRK	2.68	327	ePn	34	01.50	-0.7
NPS	2.69	231	ePn	34	03.10	0.7
EZN	3.16	334	ePn	34	09.00	0.1
IZI	3.48	17	ePn	34	13.00	-0.6
EYL	3.88	23	ePn	34	21.00	1.7
BBTK	4.59	51	eP	34	28.00	-1.4

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

NOV 19, 1990 02h 41m 22.54 \pm 0.59s
19.140 S \pm 3.9km 169.308 E \pm 5.4km
DEPTH = 258.8 \pm 5.9 km

4.8mb (14 obs.)
VANUATU ISLANDS (186)

PVC	1.68	326	iPd	42	03.00	-0.4
			iS	42 <td>33.00</td> <td></td>	33.00	
DZM	3.96	222	iPc	42	27.00	0.1
			iS	43	18.80	
HNR	13.24	316	iP	44	23.50	1.1
SVO	13.53	316	eP	44	26.00	0.0
RMO	20.29	245	iPd	45	40.40	0.4
	0.5s	26.00nm			5.0mb	
MNG	22.05	167	P	45	57.40	0.4
	0.4s	31.00nm			5.2mb	
KIW	22.18	169	P	45	58.20	0.0
PGZ	22.23	166	P	45	58.50	-0.1
TCW	22.41	170	P	46	01.20	0.8
CAW	22.44	169	P	46	00.80	0.0
MRW	22.50	169	P	46	01.20	0.0
MTW	22.58	168	P	46	01.60	-0.4
WDW	22.59	169	P	46	01.80	-0.3
THZ	22.76	173	P	46	04.20	0.4
BLW	22.77	168	P	46	03.60	-0.3
MOW	22.78	168	P	46	03.50	-0.5
PMG	23.52	291	eP	46	12.00	0.8
OIS	27.96	262	eP	46	51.00	-0.5

WB5	32.91	263	eP	47	33.50	-1.3
ASPA	33.22	256	iPd	47	37.00	-0.4
	0.5s	136.80nm				5.8mb
		iP	48	23.00		224kMx
		iS	52	35.90		
MBL	46.34	259	eP	49	25.10	0.1
	0.4s	8.00nm				4.4mb
SBA	58.76	181	e(P)	50	55.00	-0.3
SPA	70.98	180	iPc	52	13.60	-0.2
	1.0s	17.50nm				4.7mb
CN2	74.41	329	iPc	52	33.50	-0.2
TIY	77.81	317	eP	52	53.50	0.6
XAN	78.09	312	P	52	54.50	0.0
KDC	82.92	20	ePd	53	19.50	0.3
	0.7s	23.26nm				5.0mb
SVW	84.79	16	ePc	53	28.50	-0.1
	0.9s	14.40nm				4.8mb
PCC	85.39	48	eP	53	32.30	0.3
GCC	85.44	48	eP	53	33.00	0.7
PRS	85.56	49	eP	53	33.50	0.6
BRK	85.65	48	eP	53	34.00	0.7
BKS	85.67	48	eP	53	33.00	-0.4
SAO	85.71	49	eP	53	33.60	0.0
SYP	85.76	51	eP	53	35.00	0.9
MHC	85.84	48	eP	53	34.80	0.4
ARN	85.92	48	ePd	53	35.20	0.5
BCH	85.98	51	ePd	53	35.50	0.4
PRI	85.98	50	eP	53	36.00	0.9
LLA	86.00	49	eP	53	34.80	-0.3
TTA	86.22	15	iPd	53	34.40	-1.3
	0.6s	4.90nm				4.5mb
ABL	86.46	51	iPd	53	37.60	0.0
WDC	86.74	45	ePc	53	38.90	0.4
PAS	86.94	52	eP	53	40.00	0.4
ORV	86.97	46	eP	53	39.50	-0.1
PMR	87.02	19	ePd	53	38.10	-1.2
	0.6s	6.40nm				4.6mb

	0.6 s	0.40 nm	4.0 mb
CMB	87.04	48 eP	53 39.90 -0.2
FRI	87.05	49 eP	53 40.00 -0.1
MWC	87.06	52 eP	53 40.00 -0.4
MIN	87.26	46 eP	53 41.30 0.1
SBB	87.43	52 eP	53 42.00 -0.1
BAR	87.46	54 eP	53 43.00 0.8
RVR	87.47	53 eP	53 43.00 0.8
LBFM	87.54	45 iPd	53 42.50 -0.1
PEC	87.59	53 eP	53 42.50 -0.3
PLM	87.59	54 eP	53 43.00 0.0
TOA	88.31	19 eP	53 44.30 -1.4
GSC	88.45	52 eP	53 46.00 -0.9
TPC	88.52	53 eP	53 47.00 -0.2
TNP	89.31	49 iPc	53 50.70 -0.4
	0.9 s	8.95 nm	4.7 mb
IMA	89.40	14 iPc	53 50.10 -0.7
	0.7 s	2.70 nm	4.3 mb
GMW	89.93	39 ePc	53 53.10 -0.3
FBA	89.96	17 iPc	53 51.10 -2.1
	0.7 s	12.80 nm	5.0 mb

PGC	90.08	38	eP	53	55.00	1.0
LON	90.14	40	ePc	53	54.00	-0.5
MCW	90.45	38	eP	53	56.00	0.2
RMW	90.48	39	ePc	53	55.80	-0.2
PNT	92.62	38	eP	54	06.00	0.2
PKI	93.49	298	P	54	00.00	-10.7X
INK	96.43	18	eP	54	21.50	-1.2
YKA	100.55	27	ePdiff	54	40.90	-0.6

	0.6 s		2.20 nm			4.8 mb
MBC	104.12	14	ePdiff54	50.00		-7.1 X
	0.9 s		7.00 nm			5.5 mb
APO	135.09	343	ePKP	00	11.00	-1.1
	0.3 s		1.60 nm			
NB2	135.37	345	PKP	00	12.20	-0.5
	0.6 s		1.30 nm			
MOX	143.92	336	iPKP	00	26.50	-1.9
VAY	144.08	315	ePKP	00	26.40	-2.5
	0.9 s		42.00 nm			
KHC	144.28	332	iPKP	00	28.00	-1.1
	1.0 s		7.00 nm			
SKO	144.50	317	iPKPc	00	28.90	-0.8
	1.0 s		96.00 nm			
GRF	144.83	335	ePKPc	00	29.60	-0.4
OHR	145.35	316	ePKP	00	30.80	-0.4
VBY	146.05	327	e(PKP)	00	33.50	1.4
LJU	146.05	328	e(PKP)	00	32.00	-0.1
CEY	146.32	328	e(PKP)	00	33.50	0.9
VOY	146.38	328	iPKP	00	33.30	0.5
SOTA	146.76	332	iPKPc	00	34.80	1.4
	0.6 s		15.10 nm			

		i	00 42.60	
		e	01 38.00	
DOU	146.79 342 iPKPc	00 34.80	1.7	
	0.6s 30.00nm			
CDF	147.37 338 ePKP	00 36.10	1.8	
	0.8s 13.45nm			
BCAO	147.96 247 iPKPc	00 40.80	4.7X	
	0.3s 25.00nm			
		ic	01 42.20	
BSF	148.04 338 ePKP	00 37.80	2.4	
	0.7s 6.60nm			
HAU	148.05 338 ePKP	00 37.90	2.6	
	0.6s 9.90nm			
SFI	148.90 328 PKP	00 41.00	4.3X	
ASS	149.07 326 PKP	00 40.00	2.9X	
FLN	149.32 347 ePKP	00 40.80	3.6X	
	0.6s 10.80nm			
LDF	149.40 346 ePKP	00 41.00	3.7X	
	0.6s 6.30nm			
LOR	149.52 340 ePKP	00 41.60	4.0X	
	0.8s 14.80nm			
GRR	149.75 347 ePKP	00 41.90	4.1X	
	0.8s 16.10nm			
SSF	149.82 341 ePKP	00 42.30	4.3X	
	0.6s 8.55nm			
LPL	149.99 335 ePKP	00 43.30	4.7X	
	0.7s 6.60nm			
LPG	150.00 335 ePKP	00 43.50	4.8X	
	0.7s 8.25nm			
SMF	150.08 340 ePKP	00 42.80	4.4X	
	0.8s 5.35nm			
AVF	150.11 340 ePKP	00 43.10	4.7X	
	0.8s 5.35nm			
LPF	150.13 347 ePKP	00 43.00	4.6X	
	0.8s 21.50nm			
BNI	150.40 335 PKP	00 44.00	4.9X	
BGF	150.47 341 ePKP	00 43.80	4.8X	
	0.7s 11.00nm			
MAF	150.86 341 ePKP	00 44.70	5.1X	
TCF	150.91 341 ePKP	00 44.80	5.1X	
	0.7s 6.60nm			
LSF	151.15 342 ePKP	00 45.10	5.1X	
	0.5s 6.55nm			
MFF	151.27 345 ePKP	00 45.40	5.2X	
	0.8s 9.40nm			
PGF	151.32 329 ePKP	00 45.90	5.3X	
	0.7s 22.05nm			
FRF	151.62 333 ePKP	00 46.30	5.5X	
	0.7s 5.50nm			
LMR	151.86 333 ePKP	00 46.90	5.7X	
	0.7s 5.50nm			
RJF	152.01 341 ePKP	00 47.30	6.0X	
	0.8s 6.70nm			
LFF	152.57 342 ePKP	00 49.10	7.0X	
	0.6s 5.40nm			
LPO	152.67 341 ePKP	00 49.00	6.7X	
	0.6s 4.50nm			

S.D. = 0.9 on 87 of 114 obs.

* NOV 19, 1990 03h 03m 25.29± 0.51s
31.659 S ± 8.2km 68.855 W ±10.5km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

RTCB	0.18	15	iPd	03 40.00	0.0
			eS	03 50.00	
ZON	0.19	53	iPd	03 39.70	-0.3
			eS	03 51.70	
RTLL	0.47	45	iPc	03 40.90	-0.2
RTBS	0.51	270	iPd	03 41.20	-0.1
CFA	0.53	85	iPc	03 41.50	-0.1
			(S)	03 53.00	
MDZ	1.22	180	eP	03 49.10	0.5
			iS	04 05.60	
RTRS	1.57	341	iPc	03 53.20	0.4
PEL	2.14	226	eP	04 00.00	-0.3
S.D. = 0.4 on 8 of 8 obs.					

* NOV 19, 1990 03h 19m 38.28 \pm 1.17s
6.006 S \pm 12.9km 130.427 E \pm 15.8km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)

DA SEA (280)

MTN	6.83	174	eP	21	21.00	2.2
KNA	9.82	189	eP	22	00.20	-0.1
	0.3s		29.00nm			6.1mb X

WB5 14.31 165 eS 23 37.00
eP 22 57.10 -3.6X
eS 25 26.00
OIS 16.99 149 eP 23 35.00 -0.1
eS 26 26.00
ASPA 17.87 170 eP 23 45.70 -0.5
1.0s 9.80nm 3.9mb
eS 26 49.70
MBL 18.23 213 iPd 23 50.40 -0.1
eS 26 59.00
WARB 20.39 190 eP 24 15.00 -0.2
NANU 21.86 220 iPd 24 29.00 -1.1
0.5s 11.00nm 4.5mb
DZM 38.28 118 iPc 26 56.90 -0.8
CHG 39.64 309 eP 27 11.20 2.2
GUN 54.63 310 P 29 00.00 -6.8X
GBA 56.10 291 Pd 29 15.50 -1.6
0.6s 1.40nm 4.2mb
S.D. = 1.4 on 10 of 12 obs.

NOV 19, 1990 04h 15m 26.24±0.57s
18.663 S ± 9.4km 178.925 W ± 8.9km
DEPTH = 510.6 ± 5.5 km
4.8mb (14 obs.)

FIJI ISLANDS REGION (181)

SVA 2.54 282 iP 16 36.00 0.2
VUN 2.56 284 eP 16 36.50 0.6
e 17 05.00
MBU 2.80 307 iP 16 38.70 1.2
SGE 3.18 289 iP 16 38.70 -1.4
DZM 14.13 254 iPc 18 28.00 0.2
WLZ 19.70 193 P 19 22.80 0.6
NOZ 20.06 187 P 19 24.50 -1.1
CTA 32.85 262 iPc 21 19.00 0.4
1.0s 73.00nm 5.2mb
CAN 32.86 233 eP 21 19.30 0.6
BWA 32.99 235 eP 21 18.30 -1.4
PMG 34.11 281 eP 21 30.00 0.7
CMS 34.23 241 iPc 21 31.00 0.8
0.8s 44.00nm 5.1mb
TOO 36.32 231 ePc 21 48.00 0.6
0.5s 30.00nm 5.1mb
BFD 38.39 233 iPc 22 05.60 1.2
OIS 39.04 260 iPc 22 09.30 -0.6
i 22 33.00
WB5 44.00 260 iPc 22 48.90 -0.6
WRA 44.02 260 P 22 49.00 -0.7
0.3s 17.50nm 5.1mb
ASPA 44.12 255 iPc 22 50.40 -0.1
0.6s 169.60nm 5.8mb
iS 28 42.80
FORR 49.21 245 iPc 23 28.70 -0.5
0.4s 71.00nm 5.5mb
KNA 49.91 265 iPd 23 34.30 -0.2
WARB 50.57 251 iPc 23 39.00 -0.3
0.4s 14.00nm 4.8mb
MBL 57.32 256 iPc 24 26.60 -0.6
0.5s 13.00nm 4.5mb
MEKA 57.79 250 iPc 24 29.30 -1.0
MRWA 59.76 247 eP 24 42.50 -1.1
PEC 78.66 48 P 26 35.50 -0.8
LBFM 79.68 40 P 26 41.80 0.1
TNP 80.84 45 P 26 47.60 -0.2
0.8s 3.19nm 3.9mb
GMW 82.88 35 P 26 57.50 -0.1
LON 82.93 36 P 26 57.20 -0.7
TTA 83.30 10 iPd 26 59.50 0.0
0.9s 9.50nm 4.4mb
RMW 83.36 35 P 26 59.50 -0.6
PMR 83.45 14 ePc 26 58.90 -1.2
TOA 84.59 15 iPc 27 06.10 0.2
1.1s 54.70nm 5.1mb
PNT 85.63 34 ePc 27 11.00 -0.1
0.9s 10.00nm 4.5mb
IMA 86.59 10 eP 27 15.30 -0.2
FBA 86.65 13 iPd 27 14.50 -1.1
0.6s 8.10nm 4.6mb
ALO 86.95 52 ePc 27 17.90 -0.1
1.0s 4.00nm 4.1mb
INK 92.74 15 eP 27 43.00 -0.7
HFS 137.60 351 ePKP 33 42.10 -10.7X
0.8s 1.70nm
KRA 145.23 339 ePKP 34 07.20 0.7
KSP 145.69 343 iPKPd 34 09.10 1.9
CLL 146.08 347 iPKPd 34 09.50 1.7
1.3s 24.00nm

BRG 146.27 345 iPKP 34 09.60 1.5
1.3s 18.00nm
SRO 147.70 338 ePKP 34 12.70 2.2
ZST 147.79 340 ePKP 34 15.40 4.8X
KHC 147.97 344 iPKP 34 16.20 5.2X
VBY 150.76 339 e(PKP) 34 22.20 6.9X
S.D. = 0.9 on 43 of 47 obs.

% NOV 19, 1990 05h 34m 08.04±0.73s
40.437 N ± 5.4km 23.051 E ± 7.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)

THE 0.21 341 ePd 34 12.52 0.0
iS 34 15.66
SOH 0.45 31 ePd 34 17.11 -0.1
iS 34 23.96
LIT 0.54 232 ePc 34 18.83 -0.2
PAIG 0.70 136 iPc 34 22.03 0.2
eS 34 33.00
GRG 0.72 317 ePc 34 22.67 0.5
iS 34 30.52
KNT 0.73 351 ePd 34 22.08 -0.4
S.D. = 0.4 on 6 of 6 obs.

* NOV 19, 1990 06h 05m 06.62±1.17s
39.254 N ± 11.2km 24.086 E ± 6.8km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

PAIG 0.74 335 ePc 05 21.67 0.5
iS 05 33.00
AGG 1.39 261 iPd 05 31.82 -0.2
LIT 1.49 305 ePc 05 33.08 -0.4
iS 05 51.83
THE 1.62 328 ePd 05 36.00 0.7
eS 05 54.83
SOH 1.66 340 iPc 05 35.60 -0.4
iS 05 57.51
EZN 1.82 71 ePn 05 39.10 0.9
SRS 1.90 349 ePd 05 38.56 -0.8
KNT 2.11 335 ePd 05 43.40 1.0
GRG 2.14 323 ePc 05 42.64 -0.2
iS 06 09.16
ALN 2.23 42 ePc 05 43.00 -1.1
VAY 2.37 331 ePn 05 52.00 5.9X
S.D. = 0.8 on 10 of 11 obs.

? NOV 19, 1990 06h 09m 59.53±22.88s
58.861 N ± 11.4km 2.336 E ± 152.2km
DEPTH = 10.0km (geophysicist)

NORTH SEA (534)

MD 2.8 (BER).
ASK 2.18 40 eP 10 37.08 0.8
eSg 11 08.35
BLS2 2.41 78 eP 10 40.28 0.6
eSg 11 15.71
SUE 2.52 28 eP 10 40.70 -0.4
eSg 11 17.04
HYA 3.01 38 eP 10 48.60 0.5
eSg 11 30.11
MOL 4.52 32 eP 11 09.14 -0.3
NRA0 5.01 64 Pn 11 15.40 -1.1
Sn 12 18.10
Lg 12 49.80
S.D. = 0.9 on 6 of 6 obs.

% NOV 19, 1990 06h 23m 01.94±2.08s
39.021 N ± 11.7km 30.227 E ± 23.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.9 (ISK).
ALT 0.10 291 iPg 23 04.40 -0.3
KHL 0.89 219 iPg 23 19.00 0.0
iSg 23 31.00
GPA 1.27 3 iPn 23 24.00 -1.5
IZI 1.44 336 ePn 23 28.00 -0.1
EYL 1.54 358 iPn 23 31.00 1.4
YLV 1.68 337 ePn 23 32.00 0.5
KCT 1.90 311 ePn 23 38.00 3.4X
S.D. = 1.2 on 6 of 7 obs.

% NOV 19, 1990 08h 02m 11.71±1.68s
43.234 N ± 12.6km 18.989 E ± 9.9km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 2.1 (TTG).
PLE 0.31 72 iPg 02 18.40 0.2
iSg 02 22.00
NKY 0.42 179 ePg 02 20.70 0.4
eSg 02 27.00
BRY 0.47 224 ePg 02 21.10 -0.1
eSg 02 29.00
IVA 0.76 118 ePg 02 26.30 -0.3
eSg 02 37.50
TTG 0.83 166 ePg 02 27.60 -0.1
eSg 02 40.00
S.D. = 0.4 on 5 of 5 obs.

NOV 19, 1990 09h 36m 22.87±0.46s
36.835 N ± 5.2km 29.085 E ± 5.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 4.2 (ISK).

ELL 0.67 97 iPg 36 35.50 -0.7
iSg 36 48.50
KSL 0.82 151 iPd 36 39.20 0.5
eS 36 53.30
BCK 1.35 62 iPn 36 49.00 1.2
KHL 1.53 13 iPn 36 51.00 0.7
SMG 1.99 297 eP 36 56.10 -0.9
KAP 2.01 231 eP 36 57.70 0.5
IZM 2.13 318 iPn 36 59.00 0.0
ALT 2.36 20 ePn 37 03.00 0.7
DST 2.79 353 ePn 37 08.00 -0.4
NPS 3.22 242 eP 37 14.50 0.0
PRK 3.28 318 eP 37 12.50 -2.7
GPA 3.58 15 ePn 37 30.00 10.4X
EZN 3.69 325 ePn 37 21.20 0.1
YLV 3.73 3 ePn 37 29.90 8.1X
EYL 3.82 12 ePn 37 32.00 8.9X
KGT 3.87 339 iPn 37 24.40 0.7
CSS 3.92 117 eP 37 27.50 3.1X
BBTK 4.17 43 eP 37 32.00 4.0X
VLI 4.94 270 eP 37 40.60 1.8
ADI 6.28 125 eP 37 58.00 0.2
ATZ 6.47 126 eP 38 00.00 -0.6
DSI 7.40 133 eP 38 12.50 -1.0
S.D. = 1.1 on 17 of 22 obs.

% NOV 19, 1990 09h 59m 28.13±0.95s
39.057 N ± 7.8km 27.615 E ± 9.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

IZM 0.71 203 ePg 59 42.00 -0.2
eSg 59 55.00
DST 0.96 55 iPn 59 47.00 0.6
EZN 1.26 308 ePn 59 52.20 0.7
BNT 1.32 10 ePn 59 51.90 -0.6
KGT 1.41 350 iPn 59 53.40 -0.5
S.D. = 0.8 on 5 of 5 obs.

% NOV 19, 1990 11h 34m 00.74s
60.081 N 152.383 W
DEPTH = 91.4km

SOUTHERN ALASKA (2)

<AGS-P>.

INE 0.34 267 eP 34 14.15 -0.8
INW 0.38 268 eP 34 14.49 -0.6
eS 34 25.73
RSO 0.42 334 eP 34 15.00 -0.6
eS 34 26.29
RS2 0.43 334 eP 34 14.74 -0.8
eS 34 26.08
REF 0.44 339 iP 34 15.13 -0.5
eS 34 26.22
RDN 0.47 337 eP 34 15.24 -0.6
eS 34 26.16
RDT 0.49 359 iP 34 15.12 -0.8
eS 34 26.66
NNL 0.55 94 eP 34 16.44 0.2
NCT 0.55 331 eP 34 15.82 -0.6
HOM 0.56 138 eP 34 16.05 -0.3
OPT 0.61 225 eP 34 15.97 -0.8
eS 34 27.93
CNPM 0.80 133 eP 34 17.97 -0.7
eS 34 31.46

19d 11h

BRK	0.82	112	eP	34	17.96	-0.9
NKA	0.87	40	eP	34	20.51	1.1
AUE	0.88	215	eP	34	18.22	-1.2
AUP	0.89	217	eP	34	18.81	-0.9
AUI	0.92	216	eP	34	18.78	-1.1
PDB	0.96	253	iP	34	19.30	-1.0
			eS	34	33.81	
SPU	1.12	8	eP	34	21.24	-1.0
			eS	34	38.13	
CKL	1.12	1	iP	34	21.61	-0.7
			eS	34	38.02	
SLKM	1.16	67	eP	34	21.72	-1.0
BGL	1.19	360	eP	34	22.52	-0.6
CRP	1.20	5	eP	34	22.75	-0.6
CGLM	1.24	8	eP	34	23.18	-0.7
CDD	1.32	210	eP	34	22.97	-1.8
NCG	1.33	5	eP	34	24.30	-0.6
MCNL	1.34	229	eP	34	23.31	-1.6
			eS	34	40.98	
SEW	1.47	88	iP	34	25.02	-1.5
SYI	1.48	180	eP	34	25.22	-1.4
PMS	1.82	49	eP	34	30.05	-1.1
SKT	1.95	12	eP	34	31.61	-1.3
LTJ	2.27	89	eP	34	34.42	-2.7
KNIM	2.34	81	eP	34	34.94	-3.1
MTU	2.38	90	eP	34	36.64	-2.0
GHO	2.39	43	eP	34	37.21	-1.7

35 obs. associated

* NOV 19, 1990 13h 17m 49.92± 2.94s
 33.178 S ±13.4km 71.695 W ±25.8km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)
 Felt (11) at Valparaiso.

LCCH	0.31	161	iPc	17	57.60	-0.3
			iS	18	03.70	
ROCH	0.61	70	iPd	18	00.70	-1.6
			iS	18	09.40	
TACH	0.79	127	iPd	18	04.60	0.0
			iS	18	15.90	
LVN	0.81	163	iPc	18	05.00	0.1
			iS	18	16.70	
PEL	0.85	88	iPd	18	05.40	-0.1
			iS	18	17.30	
SAN	0.91	108	iPd	18	06.50	0.2
			iS	18	19.50	
JACH	1.05	62	iPd	18	07.60	-0.9
			iS	18	21.40	
PCH	1.08	114	iP	18	09.20	0.3
			iS	18	24.50	
FCH	1.19	98	iPd	18	10.60	0.0
			iS	18	26.70	
CFA	3.32	63	ePc	18	43.00	2.2

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

* NOV 19, 1990 13h 57m 56.89± 1.94s
 10.732 S ±12.7km 164.163 E ±15.4km
 DEPTH = 40.2 ± 14.4 km
 4.8mb (4 obs.)
 SANTA CRUZ ISLANDS REGION (183)

HNR	4.35	287	iPd	59	02.50	0.2
			eS	59	51.00	
SVO	4.56	290	iP	59	05.00	-0.3
			iS	59	57.00	
DZM	11.48	169	iPc	00	41.90	0.4
WBS	30.10	249	eP	04	04.50	-0.7
ASPA	31.56	242	iPc	04	16.90	-1.1
	0.4s		3.30nm		4.5mb	
CHG	70.68	294	eP	09	12.00	0.9
FBA	83.52	19 P		10	20.10	-1.5
GUN	84.81	300 P		10	29.96	0.6
	0.7s		7.00nm		4.9mb	
PKI	85.13	299 P		10	31.08	0.2
KKN	85.29	299 P		10	31.98	0.4
	0.7s		4.00nm		4.7mb	
DMN	85.40	299 P		10	32.74	0.6
	0.9s		15.00nm		5.2mb	
GKN	85.90	299 P		10	34.40	-0.1
BCAO	145.38	262	iPKPd	17	33.60	0.3
	0.4s		13.00nm			
			i	17	43.00	

S.D. = 0.8 on 13 of 13 obs.

? NOV 19, 1990 14h 01m 54.95± 1.37s
 40.275 N ±16.2km 29.270 E ± 8.1km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.0 (ISK).

IZI	0.17	68	iPg	01	59.30	0.5
			eSg	02	02.30	
YLV	0.30	15	iPg	02	01.30	0.0
			iSg	02	05.80	
KCT	0.70	268	iPg	02	08.80	0.0
EYL	0.74	66	ePg	02	09.00	-0.5

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

& NOV 19, 1990 15h 31m 15.58s
 63.287 N 151.815 W
 DEPTH = 4.9km
 CENTRAL ALASKA (1)
 <AGS-P>.

TRF	0.71	76	eP	31	28.99	-0.8
			eS	31	40.05	
HUR	1.04	106	eP	31	35.49	-0.2
			eS	31	51.00	
CUT	1.13	141	eP	31	38.13	0.9
			eS	31	53.24	
SKT	1.32	174	iP	31	40.06	-0.4
RND	1.34	84	eP	31	40.34	-0.5
			eS	32	00.23	
BWN	1.37	49	eP	31	41.15	-0.2
NCG	1.90	185	eP	31	48.44	-0.6
TTA	1.94	261	iPc	31	48.40	-1.2
CGLM	1.99	183	eP	31	49.43	-0.9
CRP	2.03	185	eP	31	49.88	-1.2
BGL	2.05	188	eP	31	50.84	-0.4
CKL	2.11	187	eP	31	52.49	0.3
SPU	2.12	183	eP	31	51.69	-0.5
CCB	2.23	51	eP	31	52.99	-0.8
FBA	2.40	46	iPc	31	58.70	2.6
SVW	2.82	221	eP	32	03.40	1.2
TOA	2.86	112	eP	32	08.10	5.3
IMA	2.91	345	ePd	32	02.70	-0.8

18 obs. associated

* NOV 19, 1990 15h 31m 39.92± 1.41s
 1.774 S ±13.9km 134.389 E ±19.9km
 DEPTH = 33.0km (normal)
 4.9mb (4 obs.)
 WEST IRIAN REGION (196)

AAI	6.47	253	ePc	33	16.50	1.1
			eS	34	16.50	
KNA	14.95	201	eP	35	09.30	-1.4
			eS	37	57.00	
WBS	18.00	180	eP	35	48.90	-0.4
			eS	39	01.00	
QIS	19.35	165	iPc	36	06.20	0.4
			eS	39	32.00	
ASPA	21.77	181	iPc	36	32.30	1.4
	0.7s		35.70nm		4.9mb	
	2 17s		1.00um		4.3mszX	
			eS	40	30.30	
CHG	40.41	302	eP	39	18.00	1.0
BJI	44.83	340	eP	40	00.00	7.3X
	1.0s		24.00nm		5.0mb	
LZH	47.22	326	eP	40	19.50	7.6X
	1.5s		20.00nm		4.9mb	
KOD	57.89	283	eP	41	31.00	-0.9
HYB	58.22	292	eP	41	34.00	0.2
G8A	58.48	287	Pc	41	34.20	-1.4
	0.5s		1.10nm		4.2mb	
CNCB	151.22	131	PKP	51	37.00	10.0X
LPB	151.30	130	ePKP	51	34.00	7.1X
ZOBO	151.44	130	PKP	51	36.00	9.4X

S.D. = 1.2 on 9 of 14 obs.

NOV 19, 1990 15h 58m 20.79± 0.64s
 37.030 N ± 5.9km 29.530 E ± 6.8km
 DEPTH = 10.0km (geophysicist) (366)
 TURKEY MD 3.6 (ATH), 3.4 (ISK).

ELL	0.41	133	iPg	58	28.70	-0.6
			eSg	58	36.00	
KSL	0.91	177	ePb	58	37.50	-0.7
BCK	0.95	63	iPn	58	40.00	1.1
KHL	1.29	360	iPn	58	44.70	-0.1
ARG	1.39	235	ePb	58	47.70	1.5
ALT	2.07	13	ePn	59	00.80	4.7X

SMG 2.25 288 ePn 58 58.60 0.0
 IZM 2.26 308 ePn 58 58.10 -0.7
 DST 2.67 345 ePn 59 04.00 -0.6
 S.D. = 1.0 on 8 of 9 obs.

% NOV 19, 1990 18h 08m 15.29± 0.87s
 39.264 N ± 7.3km 29.238 E ± 9.7km
 DEPTH = 10.0km (geophysicist) (366)
 TURKEY MD 2.6 (ISK).

DST	0.58	306	iPg	08	26.00	-1.1
			iSg	08	33.50	
ALT	0.71	107	ePg	08	28.70	-0.7
			eSg	08	37.80	
KHL	0.97	167	iPg	08	34.20	0.5
			iSg	08	45.70	
IZI	1.09	10	ePn	08	34.70	-1.1
KCT	1.20	326	iPn	08	38.40	0.8
YLV	1.31	5	iPn	08	39.80	0.3
HRT	1.59	12	iPn	08	44.80	1.2

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

% NOV 19, 1990 23h 41m 54.99± 2.71s
 39.558 N ±23.8km 28.728 E ± 7.2km
 DEPTH = 10.0km (geophysicist) (366)
 TURKEY MD 2.4 (ISK).

DST	0.09	302	iPg	41	57.00	-0.6
KCT	0.75	338	iPg	42	09.30	-0.3
IZI	0.97	36	ePg	42	13.10	-0.3
BNT	1.01	322	iPg	42	14.10	0.0
YLV	1.12	26	iPn	42	16.30	0.2
KGT	1.41	310	iPn	42	21.70	1.0
EYL	1.49	47	ePn	42	22.00	0.1

S.D. = 0.6 on 7 of 7 obs.

NOV 20, 1990 00h 27m 24.15± 0.37s
 40.214 N ± 4.5km 25.086 E ± 2.9km
 DEPTH = 11.4 ± 2.4 km
 AEGEAN SEA (365)
 MD 3.4 (ISK).

OUR	0.85	278	iPd	27	41.54	1.1
RDO	0.99	20	iPc	27	43.00	0.2
EZN	1.03	112	iPg	27	43.40	0.0
			iSg	27	56.90	
PAIG	1.12	256	ePc	27	44.83	-0.1
			iS	27	58.92	
PRK	1.33	136	eP	27	48.00	-0.5
SRS	1.45	309	ePd	27	50.16	-0.1
			eS	28	11.04	
SOH	1.45	295	iPd	27	50.47	0.1
			eS	28	10.23	
KDZ	1.46	10	iPc	27	50.00	-0.3
RZN	1.50	349	iP	27	52.00	0.9
THE	1.67	285	ePc	27	53.59	0.2
			eS	28	17.16	
KGT	1.71	81	iPn	27	53.10	-0.9
MMB	1.72	324	iPd	27	54.00	-0.1
DIM	1.86	10	iP	27	56.00	-0.2
PLD	1.91	351	eP	27	58.00	1.1
KNT	1.91	300	iPd	27	57.26	0.3
			eS	28	23.92	
LIT	1.99	268	ePc	27	57.64	-0.5
			eS	28	22.43	
EDC	2.13	86	ePn	28	00.00	0.0
BNT	2.17	85	iPn	28	02.60	1.9
GRG	2.17	291	ePd	28	01.16	0.4
			eS	28	30.80	
VAY	2.21	301	ePn	28	01.70	0.5
			i	28	07.40	
KKB	2.24	318	iP	28	01.00	-0.7
PGB	2.43	344	iP	28	04.00	-0.4
IZM	2.48	136	ePn	28	10.00	4.9X
JMB	2.52	26	iP	28	12.00	6.5X
KZN	2.54	273	eP	28	05.60	-0.4
VTS	2.76	330	iP	28	13.00	3.8X
DST	2.79	101	ePn	28	11.50	1.9
PVL	3.01	3	eP	28	12.00	-0.4
SKO	3.27	304	ePn	28	11.00	-5.3X
IZI	3.36	87	ePn	28	16.10	-1.5
OHR	3.38	287	ePn	28	29.50	11.6X
HRT	3.54	79	ePn	28	28.00	7.8X
EYL	3.89	83	ePn	28	30.00	4.8X
MLR	5.31	7	eP	28	45.00	-0.4

BZS 5.97 336 ePc 29 10.00 15.6X
S.D. = 0.8 on 27 of 35 obs.

* NOV 20, 1990 00h 58m 23.48± 1.46s
35.499 N ±19.6km 26.678 E ± 8.3km
DEPTH = 33.0km (normal)

CRETE (370)
MD 3.7 (ATH).

NPS 0.90 255 ePn 58 39.30 -0.5
eSn 58 53.00
ARG 1.38 58 ePn 58 46.20 -0.4
APE 1.82 330 ePn 58 52.60 -0.4
VAM 2.03 268 ePb 58 59.30 3.3X
SMG 2.21 3 ePb 59 07.10 8.6X
KSL 2.44 74 ePb 59 07.10 5.2X
ELL 2.90 64 eP 59 12.00 3.6X
VLI 3.26 293 ePn 59 12.00 -0.9
KHL 3.63 38 eP 59 18.00 -0.7
BCK 3.71 57 eP 59 21.00 1.1
ITM 4.19 295 ePn 59 28.50 1.9
S.D. = 1.3 on 7 of 11 obs.

? NOV 20, 1990 01h 00m 30.92± 2.38s
37.734 N ±20.1km 20.885 E ±24.3km
DEPTH = 5.0km (geophysicist)

IONIAN SEA (399)
ML 3.4 (ATH).

VLS 0.50 332 iPg 00 40.20 -0.8
eSg 00 47.70
ITM 1.00 123 ePb 00 50.20 -0.1
eSg 01 07.60
EVR 1.39 31 ePb 00 56.40 -0.6
VLI 1.93 121 ePb 01 09.00 4.3X
KEK 2.15 337 ePg 01 14.00 6.1X
ATH 2.25 83 ePb 01 13.80 4.4X
KZN 2.66 15 ePb 01 17.80 2.5X
OHR 3.37 359 ePn 01 26.80 1.4
S.D. = 1.7 on 4 of 8 obs.

? NOV 20, 1990 01h 38m 09.98± 3.27s
31.560 S ±41.8km 178.664 E ±32.5km
DEPTH = 470.0 ± 37.0 km

KERMADEC ISLANDS REGION (177)

HBZ 6.03 183 eP 39 45.40 -0.9
eS 40 58.40
PUZ 6.51 183 eP 39 50.40 -0.8
eS 41 08.20
WLZ 6.76 201 eP 39 58.70 4.9X
TAZ 6.89 194 eP 39 57.70 2.6
NOZ 7.06 184 eP 39 56.70 -0.2
WHH 7.52 193 eP 40 01.80 -0.1
MOH 7.66 189 eP 40 03.50 0.2
TTH 8.10 190 eP 40 09.20 1.2
PGZ 9.24 191 eP 40 19.50 -0.9
eS 42 05.60
MNG 9.40 195 eP 40 20.30 -1.9
KHZ 11.58 199 eP 40 46.50 0.9
ASPA 40.21 270 eP 45 05.30 -0.5
1.3s 4.30nm 3.8mb X
WB5 41.32 275 eP 45 21.00 6.3X
KEV 138.57 346 ePKP 56 42.00 0.1
SUF 144.21 339 iPKP 56 52.20 0.3
0.5s 4.00nm
NB2 149.38 348 PKP 57 05.50 5.1X
0.6s 1.00nm
SLL 149.49 346 ePKP 57 03.50 3.0X
0.4s 0.80nm
S.D. = 1.3 on 13 of 17 obs.

NOV 20, 1990 01h 39m 19.27± 0.46s
40.207 N ± 4.4km 20.425 E ± 4.1km
DEPTH = 5.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)
MD 3.0 (ATH).

LSK 0.15 113 iPg 39 20.40 -1.9
TPE 0.33 286 iPg 39 24.00 -1.9
SRN 0.46 225 iPg 39 29.20 0.7
KBN 0.51 35 ePg 39 29.50 0.0
BERA 0.61 324 iPg 39 30.90 -0.7
IGT 0.68 186 ePd 39 32.27 -0.6
eS 39 42.08
KEK 0.69 225 ePg 39 32.20 -0.9
eSg 39 44.00

VLO 0.76 290 ePg 39 35.60 1.2
FNA 0.93 51 ePc 39 35.79 -1.7
eS 39 49.16
OHR 0.95 17 iPg 39 36.20 -1.6
0.5s 76.00nm

iSg 39 51.80
Lg 39 56.80
KZN 1.03 84 ePg 39 37.50 -1.8
TIR 1.22 340 ePn 39 45.50 3.2X
PHP 1.48 0 ePn 39 48.00 1.5
LIT 1.59 93 ePc 39 47.72 -0.4
EVR 1.67 140 ePb 39 49.00 -0.5
GRG 1.68 63 ePc 39 49.64 0.1
eS 40 12.72
KKS 1.87 360 ePn 39 56.00 3.9X
AGG 1.89 128 iPd 39 53.04 0.5
eS 40 20.91
SKO 1.92 23 ePn 39 54.10 1.1
i 39 55.20
iSn 40 20.50

SDA 1.94 339 ePn 39 58.10 5.0X
VAY 1.97 55 ePn 39 55.60 1.9
VLS 2.03 176 ePn 39 56.20 1.7
KNT 2.11 62 ePd 39 55.72 0.0
eS 40 25.72
PLG 2.32 85 ePb 40 00.60 1.9
SOH 2.32 74 ePd 39 58.83 0.1
eS 40 30.52
PAIG 2.51 95 ePc 40 02.20 0.8
eS 40 34.62
SRS 2.57 68 ePd 40 02.64 0.3
eS 40 34.60
S.D. = 1.3 on 24 of 27 obs.

* NOV 20, 1990 02h 12m 35.58± 1.44s
31.300 S ±12.3km 68.205 W ±22.2km
DEPTH = 100.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.23 262 iPc 12 50.00 -0.4
CFA 0.31 185 iPc 12 51.00 0.5
ZON 0.47 239 iPd 12 50.70 -0.8
eS 13 01.70
RTCB 0.54 250 iPd 12 51.90 -0.1
eS 13 04.50
RTBS 1.13 251 e(P) 12 58.00 0.4
RTRS 1.56 316 iPc 13 03.20 0.3
eS 13 23.90
MDZ 1.67 199 iP 13 04.60 0.1
iS 13 31.80
S.D. = 0.6 on 7 of 7 obs.

* NOV 20, 1990 03h 19m 22.46± 1.24s
45.520 N ±17.7km 15.147 E ± 6.7km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

VBY 0.08 102 iPg 19 24.60 -0.3
iSg 19 26.10
CEY 0.55 294 e(Pg) 19 34.40 0.7
eSg 19 40.90
LJU 0.68 321 ePg 19 35.20 -0.7
eSg 19 47.50
PTJ 0.68 56 ePg 19 36.50 0.4
iSg 19 48.00
TRI 0.99 281 e(P) 19 43.90 2.7X
i 19 54.30
VOY 1.02 301 ePg 19 41.70 0.0
eSg 19 55.70
FVI 1.97 304 P 19 56.00 -0.1
(Sn) 20 24.00
S.D. = 0.7 on 6 of 7 obs.

* NOV 20, 1990 03h 48m 01.67± 2.34s
61.779 N ±11.4km 4.374 E ±17.9km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.8 (BER).

FOO 0.37 119 eP 48 09.46 0.2
eS 48 13.43
SUE 0.75 165 iPc 48 16.55 0.3
eSg 48 26.64
HYA 1.07 124 eP 48 21.34 -0.4
eSg 48 35.06
ASK 1.36 163 eP 48 26.41 -0.2
eSg 48 45.18

MOL 1.69 61 eP 48 31.35 0.1
eSg 48 53.15
NRA0 3.62 104 Pn 49 04.30 5.4X
Lg 49 51.20
S.D. = 0.4 on 5 of 6 obs.

? NOV 20, 1990 04h 42m 53.57± 0.87s
31.713 S ± 7.9km 117.062 E ± 8.2km
DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

KLB 0.61 79 iPd 43 05.70 -0.1
eS 43 13.00
MUN 0.77 250 iPd 43 08.50 -0.1
iS 43 18.90
BAL 1.14 344 iPd 43 15.10 0.1
iS 43 19.50
NWA0 1.22 173 iPd 43 16.40 0.1
eS 43 32.00
S.D. = 0.3 on 4 of 4 obs.

* NOV 20, 1990 05h 16m 57.20± 2.86s
44.553 N ±12.9km 6.790 E ±26.2km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 1.9 (GEN).

PZZ 0.23 102 P 17 01.97 -0.2
S 17 05.14
RRL 0.37 359 P 17 04.73 -0.1
S 17 10.48
STV 0.49 129 P 17 06.99 -0.2
S 17 13.35
ENR 0.56 126 P 17 08.84 0.3
S 17 15.60
RSP 0.69 29 P 17 10.99 0.1
S 17 19.29
S.D. = 0.3 on 5 of 5 obs.

? NOV 20, 1990 05h 53m 31.80± 3.32s
16.365 S ±57.4km 73.032 W ±31.6km
DEPTH = 105.2 ± 17.5 km

3.8mb (1 obs.)

NEAR COAST OF PERU (115)

ZOBO 4.71 90 iPc 54 41.90 -0.5
LPB 4.74 93 P 54 43.00 0.4
NNA 5.71 319 iPc 54 55.70 0.0
0.5s 38.03nm 4.9mb X
iS 55 54.30
CCH 6.67 100 P 55 09.40 0.2
SIV 11.50 90 P 56 08.00 -0.0X
PPD 21.26 109 eP 58 11.00 -0.2
KIC 71.21 77 P 04 42.00 0.2
YKA 85.10 342 eP 05 56.60 -0.1
0.7s 0.90nm 3.8mb
S.D. = 0.4 on 7 of 8 obs.

* NOV 20, 1990 06h 07m 32.83± 1.32s
38.511 N ±14.9km 17.988 E ±10.7km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

MD 3.0 (ATH).

LCI 1.82 359 P 08 04.30 -0.1
eSn 08 25.80
KEK 1.85 49 ePb 08 07.40 2.5
ATN 2.02 261 P 08 07.30 0.0
VLS 2.07 98 ePb 08 08.20 0.1
SRN 2.08 48 ePn 08 12.30 4.2X
VLO 2.28 30 ePn 08 11.60 0.6
LSK 2.60 50 ePn 08 20.50 4.7X
BERA 2.66 34 ePn 08 16.90 0.4
KBN 3.04 45 ePn 08 23.00 1.2
TIR 3.18 26 ePn 08 30.70 6.9X
OHR 3.38 39 ePn 08 25.50 -1.3
KZN 3.44 57 ePn 08 25.50 -2.1
SDA 3.69 18 ePn 08 40.00 9.0X
SKO 4.35 36 ePn 08 39.00 -1.5
VAY 4.50 50 ePn 08 51.60 9.0X
S.D. = 1.5 on 10 of 15 obs.

NOV 20, 1990 07h 24m 07.20± 1.10s
27.559 N ± 6.9km 140.039 E ± 5.6km
DEPTH = 476.5 ± 11.0 km

5.0mb (32 obs.)

BONIN ISLANDS REGION (212)

20d 07h

MAT 9.09 351 iPc 26 15.00 -1.0
0.8s 101.49nm 5.2mb
eS 27 58.00
NJ2 18.92 289 Pd 27 57.50 0.4
1.0s 100.00nm 5.4mb
SNY 19.59 321 iPd 28 04.20 0.6
1.0s 190.00nm 5.6mb
CN2 20.03 328 eP 28 08.50 0.7
1.0s 60.00nm 5.1mb
TIA 21.25 300 P 28 19.40 0.1
WHN 22.64 284 iPd 28 33.00 0.9
1.0s 100.00nm 5.4mb
BJI 23.33 308 eP 28 37.00 -1.3
1.0s 33.00nm 4.9mb
TIY 25.27 301 Pc 28 55.80 -0.2
HHC 26.89 307 P 29 09.80 -0.5
XAN 27.43 291 iPd 29 14.40 -0.6
BTO 27.91 306 P 29 19.00 -0.3
GYA 29.71 276 iPd 29 35.00 0.0
1.0s 100.00nm 5.3mb
PcP 32 24.80
S 33 55.00
CD2 31.75 285 iPd 29 52.00 -0.4
0.6s 250.00nm 5.9mb
S 34 25.00
LZH 31.76 295 iPd 29 52.50 -0.1
1.0s 80.00nm 5.2mb
KMI 33.44 274 Pd 30 07.00 0.1
1.0s 80.00nm 5.2mb
GTA 35.30 300 iPd 30 22.20 -0.1
1.0s 60.00nm 5.0mb
PcP 32 40.40
ScP 35 40.80
CHG 38.62 266 iPd 30 49.90 0.2
1.0s 62.50nm 5.0mb
NST 38.78 261 eP 30 52.00 1.1
BDT 39.15 264 iPd 30 55.00 1.1
0.6s 63.60nm 5.3mb
NNT 40.48 257 eP 31 05.00 0.3
SNG 42.47 249 eP 31 21.30 0.6
LSA 42.71 285 eP 31 24.20 1.1
WMO 44.75 306 iPd 31 38.80 0.3
PSI 46.40 245 ePd 31 51.30 -0.1
GUN 47.60 284 P 32 01.63 0.8
BSI 47.82 251 ePd 31 51.30 -10.9X
PKI 48.08 283 P 32 04.60 0.1
KKN 48.14 284 P 32 04.80 0.0
DMN 48.33 284 P 32 06.80 0.5
GKN 48.65 284 P 32 08.80 0.2
SDN 50.55 40 iPc 32 21.30 -0.8
0.6s 83.40nm 5.3mb
ASPA 51.27 187 iPd 32 26.20 -1.6
0.5s 16.40nm 4.7mb
iPcP 33 34.60
iS 39 06.00
KSH 53.70 300 eP 32 47.00 1.5
SVW 53.91 33 iPc 32 47.20 0.6
0.8s 21.00nm 4.5mb
TTA 54.01 31 iPc 32 47.50 0.2
0.7s 3.80nm 3.8mb X
IMA 55.54 27 iPc 32 58.40 0.4
0.8s 5.00nm 3.9mb X
PMR 57.07 33 iPc 33 07.70 -0.8
0.6s 14.10nm 4.5mb
HYB 57.21 274 iPd 33 09.50 -0.6
e 33 57.00
FBA 57.84 29 P 33 13.80 0.1
TOA 58.49 32 eP 33 19.60 1.4
FORR 59.19 192 iPd 33 21.80 -1.3
0.4s 34.00nm 5.1mb
GBA 59.68 270 P 33 26.60 -0.3
POO 60.96 277 iPd 33 34.80 -0.5
0.8s 59.70nm 5.1mb
QUE 63.01 292 iPc 33 48.30 -0.3
INK 63.40 25 eP 33 50.00 -0.3
MBC 65.94 15 eP 34 06.50 0.2
0.6s 2.00nm 3.9mb X
MAIO 67.10 300 iPd 34 15.00 0.8
0.6s 8.42nm 4.5mb
KEV 71.91 340 iP 34 41.70 -0.4
0.6s 15.60nm 4.8mb
YKA 72.64 28 eP 34 46.10 -0.3
0.8s 5.20nm 4.2mb
SOD 73.27 338 iP 34 50.20 0.2
NUR 77.78 333 iP 35 14.80 -0.2
0.7s 33.40nm 5.0mb
UPP 80.96 334 iP 35 30.90 -0.7

LRM 81.83 42 eP 35 38.50 1.7
e 37 20.20
HFS 82.24 336 eP 35 37.10 -1.1
0.9s 42.20nm 5.0mb
N82 82.46 338 P 35 38.80 -0.6
0.7s 27.80nm 5.0mb
TNP 82.64 51 P 35 42.20 1.2
TLB 85.17 318 eP 35 53.50 0.5
MLR 85.86 320 ePc 35 56.00 -0.6
SPC 86.68 325 eP 36 02.80 2.3
KSP 87.52 328 iPd 36 03.90 -0.4
BRG 88.59 329 iPc 36 14.10 4.9X
0.9s 14.00nm 4.8mb
CLL 88.70 330 iPd 36 09.00 -0.7
ZST 88.91 326 iP 36 10.80 0.0
PRU 88.93 328 P 36 10.50 -0.3
KHC 89.97 328 Pd 36 15.30 -0.4
1.0s 7.00nm 4.5mb
SKO 90.59 319 iP 36 19.10 0.5
OHR 91.50 319 eP 36 21.80 -1.1
ALQ 91.63 49 eP 36 25.20 1.4
0.8s 1.49nm 4.0mb
EKA 91.63 340 P 36 24.00 0.8
1.8s 35.50nm 5.1mb
LJU 91.66 325 eP 36 23.00 -0.5
VBY 91.66 325 eP 36 23.60 0.1
CEY 91.92 325 eP 36 23.70 -1.0
VOY 91.99 326 eP 36 23.80 -1.3
CDF 93.35 331 eP 36 30.60 -0.7
0.5s 4.35nm 4.8mb
HAU 94.06 331 eP 36 33.50 -1.0
LPL 95.79 329 eP 36 42.00 -0.7
0.7s 6.60nm 5.0mb
LPG 95.80 329 eP 36 42.10 -0.7
0.7s 8.80nm 5.1mb
BUL 117.53 261 iPKPd 41 55.80 -4.4X
LKO 130.31 313 PKP 42 24.66 0.0
0.6s 7.00nm
TIC 132.07 310 PKP 42 28.00 0.0
KIC 132.09 309 PKP 42 27.80 -0.2
ZOBO 151.63 73 PKP 43 03.70 1.3
i 43 10.20
e 45 02.00
CCH 153.82 73 ePKP 43 14.00 9.0X
S.D. = 0.8 an 79 af 83 abs.

& NOV 20, 1990 08h 19m 11.23s
39.134 N 110.885 W
DEPTH = 2.5km
3.2mb (1 obs.)
UTAH (478)
<SLC-P>. ML 2.6 (SLC).
MSU 1.18 239 eP 19 33.20 -1.0
DAU 1.31 348 eP 19 35.30 -1.1
PV09 1.51 114 eP 19 38.00 -1.6
PV10 1.63 117 iPc 19 41.15 -0.1
PV04 1.72 115 ePc 19 42.04 -0.4
PV05 1.75 126 iPc 19 42.86 -0.1
PV03 1.82 118 ePc 19 43.18 -0.8
DUG 1.83 306 eP 19 42.60 -1.4
PV07 1.88 111 ePc 19 44.38 -0.5
GOL 4.31 81 eP 20 18.10 -1.4
TNP 5.07 260 eP 20 29.50 -0.8
ALO 5.48 138 eP 20 32.00 -4.1
YKA 23.50 356 eP 24 21.60 -1.3
0.5s 0.40nm 3.2mb
13 abs. associated

NOV 20, 1990 09h 03m 37.13 ± 0.16s
0.171 N ± 3.2km 127.010 E ± 4.4km
DEPTH = 114.1km (10 depth phases)
5.6mb (34 obs.)
HALMAHERA (267)
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=230 Dip=80 Slip=155
NP2: 135 65 -11
Principal Axes:
T Plg=10 Azm= 1
P 25 95
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.

MOMENT TENSOR SOLUTION

Dep 103 No. of sta: 11
Moment Tensor: Scale 10**17 Nm
Mrr=-1.02 Mtt= 4.10
Mff=-3.08 Mrt= 3.20
Mrf= 0.88 Mtf= 0.60
Principal axes:
T Val= 5.74 Plg=26 Azm=353
N -2.26 49 229
P -3.48 29 99
Best Double Couple: Mo=4.6*10**17
NP1: Strike=135 Dip=49 Slip= -3
NP2: 227 88 -139
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 155, 37C
Centroid Location:
Origin Time 09:03:38.3 0.3
Lat 0.40N 0.02 Lon 126.78E 0.03
Dep 108.4 1.8 Half-duration 2.3
Moment Tensor: Scale 10**17 Nm
Mrr=-1.11 0.11 Mtt= 4.44 0.16
Mff=-3.33 0.20 Mrt= 2.81 0.11
Mrf=-0.12 0.11 Mtf= 1.81 0.14
Principal Axes:
T Val= 5.90 Plg=21 Azm=349
N -1.91 61 123
P -3.99 19 251
Best Double Couple: Mo=4.9*10**17
NP1: Strike= 30 Dip=61 Slip= 179
NP2: 121 89 29

AAI 4.01 163 iPc 04 39.30 1.6
iS 05 15.90
DAV 7.02 348 eP 05 18.00 -0.8
KUPT 10.80 198 eP 06 05.00 -4.8X
MTN 13.56 163 eP 06 44.00 -2.1
QCP 15.52 338 eP 07 13.50 2.5X
KNA 15.91 174 eP 07 14.50 -1.4
0.6s 145.00nm 5.4mb
BAG 17.34 339 eP+ 07 31.60 -2.1
eS 10 42.00
MNDI 17.77 111 eP 07 41.00 2.0
YYYY 19.96 109 eP 08 04.00 1.1
LAT 21.07 109 eP 08 16.00 2.1
WB5 21.19 161 iPc 08 14.00 -1.1
eS 12 02.00
GUMO 22.15 52 eP 08 24.00 -0.6
1.0s 560.00nm 5.9mb
Z 20s 1.99um 4.5msz
PJG 22.15 52 eP 08 24.50 -0.1
GUA 22.15 52 eP 08 24.00 -0.6
0.8s 316.42nm 5.7mb
PMG 22.20 116 eP 08 26.00 0.9
MBL 22.33 198 eP 08 25.60 -0.7
0.4s 45.00nm 5.2mb
QIS 24.01 150 iPd 08 42.50 -0.1
e 09 14.00 157kmX
e 12 56.00
ASPA 24.62 165 iPc 08 47.60 -0.9
0.5s 667.10nm 6.4mb
Z 19s 1.46um 4.5msz
iPP 09 14.90
eS 12 57.40
iScS 19 34.60
OIZ 25.20 319 eP 08 54.80 1.0
5.0s 2000.00nm 5.9mb X
N 15s 3.80um
E 14s 2.60um
PP 09 33.00
S 13 07.00
NANU 25.21 206 iPc 08 53.20 -0.7
TATO 25.23 348 ePc 08 54.21 0.2
HKC 25.30 331 iP 08 56.00 1.2
KLM 25.52 277 eP 08 59.00 2.2
QZH 25.94 342 Pc 09 00.40 -0.2
0.7s 200.00nm 5.8mb
Z 32s 4.30um 4.8mszX
sP 09 38.00
eS 13 17.00
sS 13 58.00
WARB 26.20 181 iPc 09 04.00 1.0
0.4s 45.00nm 5.4mb
GZH 26.37 331 Pc 09 05.40 0.9
1.0s 200.00nm 5.6mb
E 11s 1.60um
pP 09 31.50 122km

[illegible]

62.825 N		56.3km		CENTRAL ALASKA		<AGS-P>	
148.980 W				(1)			
HUR	0.34	297	!P	46	27.37	0.4	
RND	0.59	6	!P	46	35.67	-0.1	
CUT	0.73	235	!P	46	39.00	-0.1	
TRF	0.86	317	!P	46	33.05	-0.2	
MCK	0.91	1	!P	46	33.60	-0.1	
GHO	1.06	179	!P	46	47.57	-0.4	
PLRM	1.24	183	!P	46	50.75	-0.2	
PWA	1.25	200	!P	46	54.40	0.0	
SCM	1.26	141	!P	46	37.81	-0.7	
BWN	1.37	351	!P	46	56.95	-0.7	
KNK	1.44	170	!P	46	39.27	-0.7	
SKT	1.46	236	!P	46	40.59	-0.5	
TOA	1.49	118	!P	46	04.23	22.5	
SUA	1.60	212	!P	46	05.74	0.5	
PMS	1.61	190	!P	46	43.24	-0.1	
SDG	1.61	99	!P	46	43.65	0.3	
PAX	1.61	83	!P	46	43.24	-0.2	
WRH	1.70	13	!P	46	02.76	-1.2	
DDM	1.71	54	!P	46	45.07	0.4	
NEA	1.76	359	!P	46	44.08	-1.3	
HDA	1.83	29	!P	46	45.17	-1.2	
TZL	1.83	114	!P	46	47.26	0.9	
CCB	1.90	15	!P	46	45.95	-1.4	
KLU	2.07	132	!P	46	07.61	-0.7	
NGC	2.07	228	!P	46	49.49	-0.3	
COLM	2.09	224	!P	46	49.91	-0.1	
VLZ	2.11	142	!P	46	49.97	-1.3	
VZV	2.11	146	!P	46	49.61	-0.8	
GLI	2.15	155	!P	46	49.74	-1.1	
FBA	2.15	14	!P	46	49.55	-1.3	
CRP	2.16	225	!P	46	51.91	-0.7	
MDM	2.17	8	!P	46	49.89	-1.3	
SFU	2.20	223	!P	46	51.25	-0.3	
BGL	2.24	227	!P	46	52.55	-0.2	
CKL	2.28	226	!P	46	52.54	-0.2	
GLM	2.28	17	!P	46	51.30	-1.5	
DOT	2.37	67	!P	46	54.04	0.0	
SLKM	2.40	195	!P	46	54.18	-0.2	
KNIM	2.56	166	!P	46	56.67	0.1	
SEW	2.74	185	!P	46	58.63	-0.6	
RDT	2.79	217	!P	46	59.22	-0.7	
GLB	2.80	117	!P	46	59.58	-0.5	
LTJ	2.85	169	!P	46	50.20	-0.5	
MTU	2.92	167	!P	46	04.33	2.5	
RDN	2.94	220	!P	46	01.62	-0.6	
REF	2.94	219	!P	46	03.24	1.0	
NCT	2.95	221	!P	46	02.71	1.3	
RSO	2.98	219	!P	46	04.07	1.4	
RSZ	2.98	219	!P	46	04.18	1.4	
TJA	3.22	275	!P	46	05.12	-1.0	
INE	3.40	217	!P	46	07.65	-1.0	
INW	3.41	218	!P	46	09.21	0.4	
CNFM	3.49	199	!P	46	08.93	-0.9	
BALM	3.61	117	!P	46	09.07	-1.8	
54 obs. associated							
NOV 21, 1990 03h 42m 38.51±0.00s							
28.367 N ± 7.7km 55.55 E ± 3.7km							
DEPTH = 57.2 ± 7.8 km							
4.6mb (23 obs.) 4.1msz (1 obs.)							
SOUTHERN IRAN (353)							
SHI	2.94	296	!P	43	25.00	1.0	
BBU	5.01	246	(Pn)	43	51.70	-1.3	
MAIO	8.58	22	!P	44	42.00	-0.8	
QUE	10.12	77	!P	46	41.00	0.8	
GLH	17.67	289	!P	46	42.00	-0.1	

[illegible]

%	NOV 20, 1990	23h	30m	44.76 ± 0.86s	43.121 N ± 0.2km
KOD	146.00	112 ePpP	52 47.10	3.2X	S.D. = 1.2 on 19 of 26 obs.
YKA	95.21	341 eP	46 28.20	1.6	
LKO	72.67	70 P	44 33.58	0.9	
KIC	71.76	73 P	44 28.00	0.7	
LIC	71.45	73 P	44 26.00	0.6	
ANMO	69.71	329 (P)	44 16.00	1.4	
FVM	66.62	343 P	43 56.00	0.9	
SOB1	33.09	64 eP	39 41.60	0.3	
UFO	25.51	85 eP	38 32.10	-1.4	
BMA	24.51	87 eP	38 23.40	-0.7	
VAO	21.92	86 !Pc	37 59.00	0.2	
ZOB0	18.37	80 eP	37 21.10	0.9	
LPB	10.12	15 eP	35 37.00	-0.8	
CCH	9.95	27 P	35 29.50	-7.7X	
ARE	9.89	356 eP	35 29.00	-2.0	
CNCB	9.89	16 P	35 31.00	-0.2	
LNV	7.56	184 eP	34 59.50	0.9	
PDL	6.74	179 eP	34 44.50	-2.7	
MDZ	6.70	166 e(P)	34 49.90	3.2X	
JACH	6.28	178 eP	36 07.00	2.7X	
CFA	5.67	157 eP	34 43.50	-0.3	
ZON	5.47	160 e(P)	34 32.00	2.5X	
CYA	4.91	116 e(P)	34 22.20	0.5	
ANT	2.69	8 !Pc	33 49.50	-0.8	
(122) NEAR COAST OF NORTHERN CHILE (122)					
NOV 20, 1990	22h	33m	08.53 ± 0.64s	70.816 W ± 0.6km	DEPTH = 56.0km (2 depth phases)
STV	0.11	178 P	00 49.53	0.0	
ENR	0.15	151 P	00 51.58	0.0	
PZZ	0.21	313 P	00 52.61	0.0	
ROB	0.40	99 P	00 54.76	0.0	
(545) NORTHERN ITALY (geophysical)					
NOV 20, 1990	22h	00m	46.54 ± 0.96s	7.320 E ± 9.5km	DEPTH = 10.0km (3 obs.)
ELL	0.75	92 !Pg	44 22.00	-1.4	
KSL	0.83	143 ePg	44 24.90	0.4	
ARG	0.89	231 ePg	44 25.70	0.1	
BCK	1.46	62 !Pn	44 36.00	1.0	
KHL	1.60	16 ePn	44 37.70	0.7	
SMC	1.94	299 ePn	44 42.40	0.6	
I2M	2.11	320 ePn	44 43.00	-1.4	
(369) DODECANESE ISLANDS (geophysical)					
NOV 20, 1990	21h	44m	08.57 ± 0.74s	28.974 E ± 6.8km	DEPTH = 10.0km MD 3.4 (ISK)
BCH	1.83	145 eP	58 04.80	-1.5	
CMB	1.55	30 eP	58 02.70	-1.6	
8KS	1.37	330 e(P)	58 02.10	2.6	
13 obs. associated					

[illegible]

481 002

CENTRAL ALASKA										
3.0mb (1 obs.)										
63.129 N 149.847 W										
NOV 20, 1990 13h 39m 18.84s										
S.D. = 0.8 on 123 of 131 obs.										
MNR	86.21	335.55	50	13.00	5.6mb	SCAM	3.44	138.88	40	11.20
LFF	86.31	339.89	50	14.40	1.0	HOM	3.59	195.15	40	13.30
LPO	86.44	339.89	50	14.30	5.7mb	CNPM	3.68	191.15	40	13.30
BUL	126.60	278.18	56	31.20	4.3X	OPT	3.85	207.87	40	16.90
XLV	3.80	195.26	40	15.26	-1.0	XLV	3.80	195.26	40	15.26
KALM	4.13	139.87	40	18.52	-2.3	KALM	4.13	139.87	40	18.52
BALM	4.11	117.87	40	17.63	-1.9	BALM	4.11	117.87	40	17.63
TGL	4.08	123.87	40	17.63	-2.6	TGL	4.08	123.87	40	17.63
PDB	3.95	214.47	40	17.06	-1.2	PDB	3.95	214.47	40	17.06
HMT	3.86	134.47	40	15.45	-1.7	HMT	3.86	134.47	40	15.45
OPT	3.85	207.87	40	16.90	-0.1	OPT	3.85	207.87	40	16.90
RGCM	3.69	136.65	40	13.49	-1.3	RGCM	3.69	136.65	40	13.49
CNPM	3.68	191.15	40	13.30	-0.8	CNPM	3.68	191.15	40	13.30
HOM	3.59	195.15	40	13.30	-0.1	HOM	3.59	195.15	40	13.30
INE	3.44	208.87	40	11.20	-0.3	INE	3.44	208.87	40	11.20
SCAM	3.43	138.88	40	09.43	-1.8	SCAM	3.43	138.88	40	09.43
KIC	69.90	74.87	74	90.74	0.5	KIC	69.90	74.87	74	90.74
TIC	69.78	73.87	73	78.73	0.3	TIC	69.78	73.87	73	78.73
NOV 20, 1990 16h 28m 26.93s ± 0.28s										
NORTHERN CHILE										
Feit (IV) of Colomo and Tocopilla and (III) at Antofagosto.										
5.1mb (9 obs.)										
DEPTH = 58.35km (5 depth phases)										
22.691 S ± 5.3km 69.884 W ± 5.8km										
NOV 20, 1990 16h 28m 26.93s ± 0.28s										
80 obs. associated										
YKA	16.00	76.87	42	59.40	0.4	YKA	16.00	76.87	42	59.40
INK	8.48	45.87	41	19.00	-1.5	INK	8.48	45.87	41	19.00
HYT	6.26	106.87	40	48.20	-2.1	HYT	6.26	106.87	40	48.20
KDC	5.56	195.87	40	37.70	-2.8	KDC	5.56	195.87	40	37.70
WRC	4.85	126.87	40	35.38	4.6	WRC	4.85	126.87	40	35.38
DWI	4.74	74.87	40	27.43	-1.9	DWI	4.74	74.87	40	27.43
SYI	4.70	196.87	40	27.43	-1.5	SYI	4.70	196.87	40	27.43
GDD	4.60	205.15	40	26.37	-0.9	GDD	4.60	205.15	40	26.37
MCNL	4.51	215.63	40	26.37	-0.5	MCNL	4.51	215.63	40	26.37
WAX	4.27	126.87	40	20.82	-2.0	WAX	4.27	126.87	40	20.82
AUP	4.16	206.87	40	22.77	1.5	AUP	4.16	206.87	40	22.77
AUH	4.15	206.87	40	22.77	1.5	AUH	4.15	206.87	40	22.77
AUE	4.15	206.87	40	20.61	-0.4	AUE	4.15	206.87	40	20.61
KALM	4.13	139.87	40	18.52	-2.3	KALM	4.13	139.87	40	18.52
BALM	4.11	117.87	40	17.63	-1.9	BALM	4.11	117.87	40	17.63
TGL	4.08	123.87	40	17.63	-2.6	TGL	4.08	123.87	40	17.63
PDB	3.95	214.47	40	17.06	-1.2	PDB	3.95	214.47	40	17.06
HMT	3.86	134.47	40	15.45	-1.7	HMT	3.86	134.47	40	15.45
OPT	3.85	207.87	40	16.90	-0.1	OPT	3.85	207.87	40	16.90
RGCM	3.69	136.65	40	13.49	-1.3	RGCM	3.69	136.65	40	13.49
CNPM	3.68	191.15	40	13.30	-0.8	CNPM	3.68	191.15	40	13.30
HOM	3.59	195.15	40	13.30	-0.1	HOM	3.59	195.15	40	13.30
INE	3.44	208.87	40	11.20	-0.3	INE	3.44	208.87	40	11.20
SCAM	3.43	138.88	40	09.43	-1.8	SCAM	3.43	138.88	40	09.43
KIC	69.90	74.87	74	90.74	0.5	KIC	69.90	74.87	74	90.74
TIC	69.78	73.87	73	78.73	0.3	TIC	69.78	73.87	73	78.73
NOV 20, 1990 18h 40m 39.87s ± 0.72s										
AEGEAN SEA										
DEPTH = 10.0km (geophysicist)										
40.297 N ± 7.1km 24.044 E ± 4.7km										
NOV 20, 1990 18h 40m 39.87s ± 0.72s										
S.D. = 0.2 on 6 of 7 obs.										
RTCB	0.13	3	12	23.80	0.0	RTCB	0.13	3	12	23.80
RTCV	0.34	137	12	24.50	0.2	RTCV	0.34	137	12	24.50
RTLL	0.41	46	12	24.40	-0.3	RTLL	0.41	46	12	24.40
CFA	0.49	89	12	25.30	0.1	CFA	0.49	89	12	25.30
RTBS	0.55	265	12	25.50	-0.1	RTBS	0.55	265	12	25.50
MDZ	1.27	182	12	39.70	6.6X	MDZ	1.27	182	12	39.70
RTRS	1.54	339	12	36.60	0.2	RTRS	1.54	339	12	36.60
S.D. = 0.2 on 6 of 7 obs.										
NOV 20, 1990 18h 40m 39.87s ± 0.72s										
SAN JUAN PROVINCE, ARGENTINA										
DEPTH = 100.0km (geophysicist)										
31.614 S ± 15.1km 68.809 W ± 14.2km										
NOV 20, 1990 12m 09.27s ± 0.72s										
S.D. = 1.2 on 58 of 77 obs.										
GUN	157.50	72	48	37.34	18.8X	GUN	157.50	72	48	37.34
PKI	157.13	73	48	36.38	18.3X	PKI	157.13	73	48	36.38
KKN	156.99	72	48	35.88	18.1X	KKN	156.99	72	48	35.88
DMN	156.85	73	48	36.20	18.6X	DMN	156.85	73	48	36.20
GMN	156.39	72	48	35.36	18.5X	GMN	156.39	72	48	35.36
MAT	152.97	306	48	17.00	6.5X	MAT	152.97	306	48	17.00
HVB	149.93	94	48	14.00	6.1X	HVB	149.93	94	48	14.00
GBA	147.72	101	48	08.00	3.6X	GBA	147.72	101	48	08.00
KOD	146.42	106	48	09.60	6.8X	KOD	146.42	106	48	09.60
POD	145.86	90	48	20.50	19.1X	POD	145.86	90	48	20.50
WBS	131.51	211	47	35.50	0.2	WBS	131.51	211	47	35.50
ASPA	128.44	208	47	29.00	-0.4	ASPA	128.44	208	47	29.00
YKA	92.01	341	41	39.10	-2.1	YKA	92.01	341	41	39.10
BUL	84.28	117	41	10.00	58km	BUL	84.28	117	41	10.00
SWZ	84.28	117	40	53.50	-0.7	SWZ	84.28	117	40	53.50
PNT	84.23	130	41	54.00	0.8	PNT	84.23	130	41	54.00
HVD	83.13	112	40	53.00	15.1X	HVD	83.13	112	40	53.00
NEW	82.32	330	40	43.00	-0.5	NEW	82.32	330	40	43.00
FFC	81.87	342	40	41.10	5.1mb	FFC	81.87	342	40	41.10
SES	81.75	321	40	38.90	0.5	SES	81.75	321	40	38.90
FHC	80.71	321	40	37.90	1.7	FHC	80.71	321	40	37.90
LBFM	79.89	323	40	31.40	0.3	LBFM	79.89	323	40	31.40
WDC	79.74	322	40	29.30	-0.8	WDC	79.74	322	40	29.30
ORV	78.46	322	40	24.50	1.3	ORV	78.46	322	40	24.50
LRM	78.38	331	40	23.80	0.9	LRM	78.38	331	40	23.80
GCC	77.06	320	40	16.30	0.9	GCC	77.06	320	40	16.30
MHC	77.06	320	40	17.00	1.3	MHC	77.06	320	40	17.00
ARN	77.06	320	40	16.30	1.1	ARN	77.06	320	40	16.30
CMB	76.79	321	40	14.60	0.5	CMB	76.79	321	40	14.60
LFA	76.16	321	40	11.80	1.3	LFA	76.16	321	40	11.80
FRI	75.69	320	40	11.00	3.1X	FRI	75.69	320	40	11.00
PRI	75.67	320	40	11.00	3.1X	PRI	75.67	320	40	11.00
ABL	73.93	320	39	58.50	0.4	ABL	73.93	320	39	58.50
RSSD	73.48	320	39	55.40	0.2	RSSD	73.48	320	39	55.40
PEC	72.04	320	39	47.40	0.6	PEC	72.04	320	39	47.40
PLM	71.49	320	39	44.70	1.0	PLM	71.49	320	39	44.70
LKO	70.61	70.87	39	39.00	0.4	LKO	70.61	70.87	39	39.00
GOL	70.36	332	39	36.40	-0.4	GOL	70.36	332	39	36.40
KIC	69.90	74.87	74	90.74	0.5	KIC	69.90	74.87	74	90.74
TIC	69.78	73.87	73	78.73	0.3	TIC	69.78	73.87	73	78.73
THE										
SRS										
LIT										

* NOV	20,	1990	N 25.109° E ± 6.3 km
DEPTH = 35.0 km (normol)			
YUNNAN PROVINCE, CHINA			
(318) ML 4.5 (BJI).			
KMI	0.62	89	Pgc
GYA	4.37	71	Fn
CDZ	5.97	14	Pn
Z	11s		2.63um S _n
OIZ	9.42	128	E _p
XAN	11s		1.20um
E	11s		
WHN	12.15	61	P
GUN	14.75	284	P
PKI	15.12	283	P
KKN	15.26	284	P
TLY	15.36	33	E _p
Z	16s		0.50um
DNM	15.40	283	P
GKN	15.85	284	P
BTO	16.82	21	E _p
N	12s		0.60um
E	12s		1.00um
WMO	22.04	331	P
WB5	54.66	142	E _p
SOD	61.48	335	E _p
VRI	62.46	337	E _p
UFP	65.87	327	I _p
HFS	67.77	327	E _p
NB2	68.77	329	P
YKA	87.93	16	E _p
S.D.	= 1.4	on	16 of 21 obs.
NOV	20,	1990	N 15.750° E ± 12.1 km
DEPTH = 22.3 ± 10.9 km			
NEAR COAST OF OAXACA, MEXICO			
(66)			
OXX	1.56	32	I _p
ACX	2.45	297	E _p
III	3.17	326	I _p
LISM	3.23	3	F
IIIT	3.33	348	(P)
EVV	3.43	38	I _p
PPM	3.45	343	I _p
UNM	3.88	337	(F)
LVMV	4.11	15	(S)
CIX	4.15	331	(P)
MRX	5.22	319	(P)
ALO	20.71	339	E _p
GOL	24.81	346	I _p
LRM	32.47	340	E _p
YKA	48.21	349	E _p
S.D.	= 1.0	on	10 of 15 obs.
NOV	20,	1990	N 11h 58m 18.69s E ± 36.3 km
TURKEY			
MD 2.3 (ISK)			

TURKEY		MD 2.9 (1SK).	
DEPTH = 10.0km			
40.283 N ± 5.1km			
27.941 E ± 3.6km			
(geophysical)			
(366)			
NOV 20, 1990	13h 09m 52.83 ± 0.47s		
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55 23.98
55 23.98	55 23.98	55 23.98	55 23.98
STV	0.11 189 P	0.11 189 P	0.11 189 P
ENR	0.14 158 P	0.14 158 P	0.14 158 P
PZZ	0.23 311 P	0.23 311 P	0.23 311 P
ROB	0.38 99 P	0.38 99 P	0.38 99 P
S.D. = 0.4 on			
4 of	4 obs.		
55 33.93	55 28.70	55 29.72	55 26.65
55 25.83	55 23.88	55 26.85	55

JVI	17.83	286	iPd	46	43.70	-0.3
MBH	18.13	279	iPd	46	48.50	0.8
B8TK	22.01	307	eP	47	31.00	1.5
GKN	25.62	84	P	48	04.46	0.0
DMN	26.08	85	P	48	08.92	0.0
KKN	26.21	84	P	48	10.04	0.0
PKI	26.36	85	P	48	11.14	-0.3
GUN	26.72	84	P	48	14.40	-0.4
SRO	34.71	314	eP	49	16.00	-8.8X
			i	49	25.20	
ZST	35.61	314	eP	49	32.20	-0.2
			e	51	33.10	
KHC	38.12	315	iP	49	54.20	0.6
	1.0s	10.50nm			4.7mb	
NUR	38.29	336	eP	50	07.00	12.2X
BRG	38.45	317	eP	49	57.10	0.8
	1.2s	13.00nm			4.7mb	
CLL	39.15	318	e(P)	50	06.00	3.9X
SQTA	39.16	311	iPc	50	02.10	-0.3
	0.5s	10.00nm			4.9mb	
			i	50	05.70	
			i	50	20.50	
GRF	39.75	315	ePc	50	08.00	0.9
	1.2s	32.00nm			5.1mb	
Z	20s	0.30um			4.1msz	
LPG	41.91	308	eP	50	24.80	-0.4
	0.9s	6.55nm			4.4mb	
LPL	41.92	308	eP	50	24.80	-0.5
	1.0s	12.00nm			4.6mb	
BSF	42.21	311	eP	50	27.00	-0.4
	0.8s	8.05nm			4.5mb	
BCAO	42.45	243	ePd	50	31.80	2.2
	0.3s	3.00nm			4.5mb	
HFS	42.46	330	eP	50	29.30	0.1
	0.4s	2.50nm			4.3mb	
HAU	42.53	311	eP	50	29.50	-0.5
SOD	42.75	344	eP	50	37.00	5.6X
N82	43.97	331	P	50	39.40	-2.1
	0.9s	3.30nm			4.1mb	
LBF	43.99	309	eP	50	41.80	0.0
	0.7s	4.40nm			4.3mb	
DOU	44.02	314	Pc	50	42.80	0.8
SMF	44.05	309	eP	50	41.90	-0.4
	0.8s	10.75nm			4.7mb	
LOR	44.10	310	eP	50	42.40	-0.3
	0.8s	6.70nm			4.5mb	
SSF	44.32	310	eP	50	44.40	-0.1
	0.8s	10.05nm			4.7mb	
AVF	44.39	309	eP	50	44.90	-0.2
KEV	44.56	346	eP	50	46.00	0.0
MAF	44.89	308	eP	50	49.00	0.0
	1.0s	12.00nm			4.7mb	
TCF	45.14	308	eP	50	51.20	0.1
	0.8s	6.70nm			4.5mb	
RJF	45.56	307	eP	50	54.20	-0.2
	1.0s	18.00nm			4.9mb	
LDF	46.89	311	eP	51	04.50	-0.3
	1.0s	20.00nm			5.0mb	
FLN	47.14	312	eP	51	06.60	-0.2
	1.0s	28.00nm			5.2mb	
GRR	47.37	311	eP	51	08.40	-0.2
	0.9s	13.10nm			4.9mb	
LKO	60.17	265	Pc	52	42.18	-0.9
	0.7s	10.00nm			5.1mb	
KIC	60.92	261	P	52	47.20	-0.9
MBC	75.59	359	eP	54	19.00	0.7
	1.0s	7.00nm			4.5mb	
YKA	89.11	355	eP	55	29.80	1.2
	0.9s	2.30nm			4.5mb	
S.D. = 0.8 on 42 of 46 obs.						
NOV 21, 1990 04h 19m 11.68 ± 0.81s						
38.671 N ± 9.4km 25.148 E ± 9.3km						
DEPTH = 10.0km (geophysicist)						
AEGEAN SEA (365)						
MD 3.4 (ISK), 3.3 (ATH).						
PRK	1.05	56	iPnc	19	31.70	0.3
ATH	1.32	239	ePb	19	36.70	0.6
EZN	1.47	38	iPn	19	38.40	0.2
APE	1.63	169	ePn	19	40.20	-0.3
SMG	1.64	125	ePb	19	41.70	1.1
IJM	1.68	99	ePn	19	40.90	-0.4
KGT	2.44	42	ePn	19	53.70	1.6
VLI	2.62	223	ePn	19	54.10	-0.7
BNT	2.73	51	ePn	19	54.00	-2.3
DST	2.86	70	ePn	20	02.00	3.7X

S.D. = 1.3 on 9 of 10 obs.						
& NOV 21, 1990 04h 28m 41.94s						
41.410 N 111.713 W						
DEPTH = 7.9km						
UTAH (478)						
<SLC-P>. CL 2.9 (SLC).						
DAU	1.06	161	eP	29	02.40	0.1
DUG	1.47	215	eP	29	08.20	-0.7
PTI	1.54	342	eP	29	09.00	-0.9
HPI	2.52	336	eP	29	24.00	-0.1
GOL	5.12	107	e(P)	30	01.00	-0.1
RSSD	6.27	62	P	30	15.00	-2.2
6 obs. associated						
? NOV 21, 1990 05h 53m 35.09 ± 3.93s						
47.806 N ± 8.6km 1.313 W ± 46.8km						
DEPTH = 10.0km (geophysicist)						
FRANCE (538)						
ML 2.0 (LDG).						
LPF	0.29	39	Pg	53	40.60	-0.6
			Sg	53	47.10	
GRR	0.66	27	Pg	53	48.10	-0.1
			Sg	53	58.20	
FLN	1.11	30	Pn	53	56.00	0.2
			Sg	54	11.40	
LDF	1.12	45	Pg	53	56.60	0.5
			Sg	54	13.70	
MFF	1.44	146	Pg	54	01.20	-0.1
			Sg	54	21.00	
S.D. = 0.6 on 5 of 5 obs.						
& NOV 21, 1990 05h 59m 18.10s						
32.883 N 116.200 W						
DEPTH = 6.0km (geophysicist)						
CALIFORNIA-MEXICO BORDER REGION (45)						
<PAS-P>. ML 2.5 (PAS).						
PLM	0.73	310	iPd	59	31.80	-0.9
PEC	1.29	322	eP	59	41.00	-1.4
2 obs. associated						
* NOV 21, 1990 06h 11m 03.83 ± 1.80s						
11.617 S ± 7.3km 166.349 E ± 11.8km						
DEPTH = 63.2 ± 13.9 km						
4.9mb (8 obs.) 4.4msz (1 obs.)						
SANTA CRUZ ISLANDS (184)						
HNR	6.66	288	eP	12	41.00	-0.3
			eS	13	55.00	
DZM	10.40	180	iPc	13	33.20	0.4
			iS	15	25.00	
SVA	13.37	120	eP	14	25.90	13.6X
PMG	19.00	275	eP	15	29.00	5.6X
CTA	21.07	244	iPd	15	48.90	3.9X
	0.7s	13.70nm			4.4mb	
			iS	19	41.00	
RMQ	22.21	226	eP	15	56.50	0.1
CMS	27.39	221	eP	16	46.00	0.7
BWA	27.97	213	eP	16	50.00	-0.6
CAN	28.37	211	e(P)	16	55.00	0.8
WB5	31.81	251	eP	17	24.10	-0.8
ASPA	33.07	244	iPd	17	34.00	-1.9
	0.7s	14.70nm			4.9mb	
Z	21s	0.84um			4.4msz	
			eS	22	49.30	
FORR	40.20	236	eP	18	36.00	0.2
MBL	45.48	252	iPc	18	59.60	-19.3X
	0.5s	18.00nm				
MRWA	49.94	242	iPd	19	54.00	0.5
	0.5s	7.00nm			4.9mb	
TIY	70.38	317	eP	22	13.50	0.2
Z	26s	0.60um			4.7mszX	
XAN	70.94	312	Pc	22	16.50	-0.2
KMI	71.92	301	eP	22	12.50	-10.5X
			sP	22	37.50	
CHG	73.00	294	ePc	22	30.00	0.9
	1.1s	16.46nm			4.9mb	
LZH	75.58	312	Pc	22	45.00	1.0
	1.5s	34.00nm			5.1mb	
Z	24s	0.36um			4.6mszX	
			PcP	22	56.00	
GTA	79.88	314	eP	23	08.20	0.7
GUN	87.11	299	PKP	23	45.32	0.5
	0.7s	13.00nm			5.2mb	

PKI	87.43	299	PKP	23	46.00	-0.4
KKN	87.59	299	PKP	23	47.04	0.0
DMN	87.70	299	PKP	23	48.08	0.5
GKN	88.20	299	PKP	23	49.34	-0.5
WMO	89.91	315	P	23	57.40	-0.1
HYB	91.35	287	eP	24	05.00	0.5
			e	24	19.00	
GBA	91.64	283	Pc	24	05.30	-0.5
	0.7s	3.10nm			4.8mb	
YKA	95.21	27	eP	24	20.70	-0.6
	0.5s	0.40nm			4.1mb	
PDCR	145.15	133	ePKP	30	34.40	-2.4X
SOB1	145.92	126	ePKP	30	37.00	-1.1
			e	30	54.30	
BCAO	147.36	260	iPKPc	30	44.00	3.5X
	0.2s	80.00nm				
		i	30	58.60		
S.D. = 0.7 on 25 of 32 obs.						

& NOV	21, 1990	07h	32m	10.12s		
61.056 N				150.844 W		
DEPTH = 12.2km						
SOUTHERN ALASKA					(2)	
<AGS-P>.						
NKA	0.37	212	eP	32	19.47	1.7
SUA	0.41	7	iP	32	19.16	0.5
			eS	32	25.95	
SPU	0.60	283	iP	32	21.64	-0.5
			eS	32	29.88	
CGLM	0.62	295	iP	32	22.13	-0.3
SLKM	0.63	151	iP	32	21.49	-1.1
PMS	0.65	73	iP	32	22.31	-0.6
			eS	32	31.88	
CRP	0.67	289	iP	32	23.14	-0.2
			eS	32	32.38	
NCG	0.72	299	iP	32	23.79	-0.5
CKL	0.74	282	iP	32	23.94	-0.5
PWA	0.76	38	eP	32	24.67	0.0
BGL	0.78	286	iP	32	24.61	-0.5
RDT	0.91	238	iP	32	26.39	-0.9
			eS	32	38.47	
SKT	0.98	341	iP	32	28.40	-0.2
PLRM	0.99	56	eP	32	27.26	-1.3
			eS	32	40.26	
NNL	1.04	193	eP	32	29.75	0.2
REF	1.07	239	iP	32	29.26	-1.0
			eS	32	43.45	
RDN	1.09	241	iP	32	29.07	-1.4
			eS	32	43.24	
RSO	1.11	238	iP	32	29.82	-1.1
			eS	32	44.13	
RS2	1.11	238	eP	32	29.81	-1.1
			eS	32	44.37	
NCT	1.14	245	iP	32	30.11	-1.2
			eS	32	44.75	
GHO	1.17	51	eP	32	30.71	-1.1
			eS	32	46.16	
SEW	1.18	144	eP	32	30.47	-1.4
			eS	32	45.31	
KNK	1.21	72	eP	32	31.81	-0.6
BRLK	1.30	181	eP	32	32.32	-1.6
CUT	1.38	11	eP	32	34.94	-0.2
			eS	32	53.08	
INE	1.48	229	eP	32	35.45	-1.2
INW	1.50	230	eP	32	35.77	-1.2
CNPM	1.55	187	eP	32	36.56	-0.9
KNIM	1.69	114	eP	32	38.38	-1.1
LT1	1.79	123	eP	32	41.00	-0.1
GLI	1.84	94	eP	32	41.12	-0.6
OPT	1.84	221	eP	32	40.17	-1.6
			eS	33	05.42	
SCM	1.86	64	eP	32	40.92	-1.2
MTU	1.91	123	eP	32	41.31	-1.4
VZW	2.09	88	eP	32	43.73	-1.6
PDB	2.09	234	eP	32	44.10	-1.3
VLZ	2.19	86	eP	32	46.27	-0.5
SVW	2.32	273	eP	32	47.86	-0.9
KLU	2.42	77	eP	32	49.94	-0.2
TRF	2.42	6	eP	32	51.32	1.1
TOA	2.47	63	eP	32	51.43	0.6
CDD	2.55	215	eP	32	52.81	0.8
GLB	3.42	80	eP	33	03.82	-0.5
BALM	4.13	87	eP	33	13.06	-1.4
44 obs. associated						

NOV	21, 1990	07h	56m	07.32±	0.81s	

21d 07h

20.496 S \pm 7.7km 68.922 W \pm 8.1km
 DEPTH = 126.0 \pm 8.6 km
 4.6mb (5 obs.)

CHILE-BOLIVIA BORDER REGION (124)

ANT	3.48	203	iP	57 00.50	-0.3
			i	57 31.80	
			iS	57 43.80	
CNCB	3.77	14	Pd	57 05.20	-0.2
LPB	4.02	11	P	57 09.50	1.0
	1.0s	780	00nm		
CCH	4.06	41	Pc	57 08.00	-1.0
ZOBO	4.27	10	Pc	57 12.00	-0.1
ARE	4.69	328	iPc	57 11.00	-6.6X
			iS	58 03.00	
SIV	8.70	60	iPc	58 08.20	-3.5X
NNA	11.37	317	eP	58 48.00	0.8
	0.7s	10.96nm			4.7mb
			iS	00 48.00	
PPD	16.49	98	eP	59 52.60	0.0
			i	59 55.60	
			e	00 17.90	
VAO	20.54	101	eP	00 37.20	-0.6
BMA	23.13	100	eP	01 04.90	1.7
SOB1	29.27	72	eP	01 59.80	-0.1
FVM	61.58	341	iP	06 12.10	-1.4
	1.0s	22.00nm			5.1mb
ALO	65.65	327	eP	06 39.00	-1.3
	0.9s	1.68nm			4.0mb
KIC	68.44	74	P	06 58.00	0.0
TNP	73.84	322	iP	07 31.50	1.4
	1.0s	5.50nm			4.3mb
YKA	90.24	341	eP	08 54.50	0.2
	0.9s	6.10nm			4.7mb
S.D. = 1.0 on 15 of 17 obs.					

* NOV 21, 1990 07h 56m 08.44 \pm 2.25s
 32.531 N \pm 14.5km 71.961 W \pm 26.5km
 DEPTH = 86.5 \pm 17.4 km
 NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.91	119	eP	56 25.20	-2.2
			iS	56 38.00	
LCCH	1.00	161	iPc	56 28.80	0.7
			iS	56 44.90	
JACH	1.16	98	iPd	56 26.90	-3.4X
			iS	56 41.60	
PEL	1.24	120	iPd	56 30.30	-0.8
			iS	56 47.10	
SAN	1.43	130	eP	56 32.50	-1.0
			iS	56 52.50	
LNK	1.49	162	iP	56 35.20	0.9
			iS	56 56.00	
			iS	56 58.10	
PCH	1.63	132	eP	56 37.80	1.6
			i	57 02.70	
RTBS	2.30	68	ePc	56 45.30	0.2
RTCB	2.88	70	e(P)	56 53.90	0.7
			eS	57 32.00	
ZON	2.96	71	e(P)	56 55.00	0.8
RTRS	3.18	43	e(P)	56 57.20	0.0
RTLL	3.20	69	ePd	56 57.20	-0.4
CFA	3.29	75	ePd	56 59.00	0.2
			S	57 40.50	
GBA	146.31	117	PKPc	15 39.20	-0.6
	0.5s	2.90nm			
S.D. = 1.2 on 13 of 14 obs.					

? NOV 21, 1990 08h 24m 53.88 \pm 0.98s
 39.049 N \pm 9.8km 27.632 E \pm 16.7km
 DEPTH = 33.0km (normol)

TURKEY MD 2.6 (ISK). (366)

Izm	0.71	204	ePg	25 07.50	0.0
			eSg	25 21.50	
DST	0.95	54	ePn	25 11.00	0.0
BNT	1.32	10	iPn	25 16.10	-0.1
KGT	1.42	350	iPn	25 17.70	0.1
S.D. = 0.1 on 4 of 4 obs.					

NOV 21, 1990 08h 29m 00.18 \pm 0.58s
 44.034 N \pm 3.5km 7.274 E \pm 6.3km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.8 (LDG).

FRF	0.66	224	Pg	29 12.80	-0.5
			Sg	29 21.60	
LRG	0.88	229	Pg	29 17.00	-0.1
			Sg	29 30.00	
LMR	0.89	219	Pg	29 17.80	0.5
			Sg	29 30.60	
CDR	1.15	252	eP	29 21.90	0.2
			i(Pg)	29 22.20	
			e(Sg)	29 36.50	
			e	29 37.50	
LPG	1.51	346	Pn	29 27.80	0.3
			Pg	29 31.80	
			Sg	29 51.90	
LPL	1.53	346	Pn	29 28.20	0.4
			Pg	29 32.00	
			Sg	29 52.60	
PGF	1.95	139	Pn	29 33.60	-0.1
SMF	3.56	318	Pn	29 56.60	0.0
LBF	3.75	323	Pn	29 59.00	-0.4
AVF	3.90	316	Pn	30 01.40	0.0
BGF	4.02	310	Pn	30 03.00	0.0
SSF	4.02	320	Pn	30 03.00	-0.1
LOR	4.02	325	Pn	30 02.90	-0.3
S.D. = 0.3 on 13 of 13 obs.					

? NOV 21, 1990 09h 36m 17.47 \pm 7.76s
 43.900 N \pm 44.9km 7.020 E \pm 27.7km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)

STV	0.41	32	P	36 25.92	0.1
			S	36 34.21	
ENR	0.44	41	P	36 26.27	-0.1
			S	36 34.78	
PZZ	0.61	5	P	36 29.80	0.0
			S	36 39.38	
ROB	0.73	57	P	36 31.85	0.0
			S	36 42.99	
S.D. = 0.1 on 4 of 4 obs.					

% NOV 21, 1990 10h 16m 50.26 \pm 0.85s
 39.097 N \pm 7.2km 27.664 E \pm 8.6km
 DEPTH = 10.0km (geophysicist)

TURKEY MD 2.6 (ISK). (366)

Izm	0.77	204	ePg	17 05.00	-0.2
			iSg	17 13.50	
DST	0.90	55	iPg	17 08.00	0.4
EZN	1.27	306	ePn	17 14.00	0.2
KCT	1.27	25	ePn	17 13.60	-0.2
BNT	1.27	9	ePn	17 13.10	-0.8
KGT	1.38	349	iPn	17 15.70	0.2
S.D. = 0.6 on 6 of 6 obs.					

& NOV 21, 1990 10h 51m 18.93s
 47.984 N 122.780 W
 DEPTH = 16.0km

WASHINGTON (29)

<SEA>. CL 2.6 (SEA).

BLN	0.13	280	Pc	51 22.25	-0.6
			S	51 25.15	
PGW	0.20	143	Pd	51 23.72	-0.1
			S	51 27.14	
OHW	0.38	26	Pd	51 25.90	-0.9
			S	51 30.46	
HDW	0.38	209	Pd	51 26.08	-0.9
			S	51 31.65	
GMW	0.44	181	Pd	51 26.91	-0.9
			S	51 33.83	
BLH	0.52	106	P	51 28.65	-0.6
SPW	0.56	140	Pd	51 30.13	0.2
JCW	0.61	69	Pc	51 29.97	-0.8
STW	0.62	286	Pd	51 29.67	-1.3
OSD	0.64	256	P	51 30.96	-0.5
MCW	0.70	357	Pd	51 31.04	-1.2
HTW	0.70	104	Pd	51 31.69	-0.7
SMW	0.77	210	P	51 33.42	0.0
MEW	0.79	173	P	51 33.67	-0.1
RMW	0.84	128	Pd	51 33.83	-0.9
RPW	0.97	61	Pc	51 36.27	-0.6
OWO	0.98	256	P	51 38.21	1.1
MBW	0.99	36	P	51 36.98	-0.4
GHW	1.00	160	Pd	51 36.16	-1.3
GSM	1.03	139	Pd	51 36.73	-1.2
CPW	1.04	194	Pd	51 36.90	-1.2

OTR	1.05	276	P	51 39.18	0.8
OFK	1.06	269	P	51 39.51	1.1
FMW	1.29	144	Pd	51 41.01	-1.5
REMR	1.33	151	P	51 41.56	-1.4
APW	1.34	176	Pd	51 41.54	-1.4
LMW	1.36	166	P	51 42.05	-1.2
LON	1.40	152	ePd	51 42.40	-1.4
WPW	1.54	146	P	51 45.41	-0.4
BMW	1.54	192	P	51 45.01	-0.8
TWW	1.55	122	P	51 46.17	0.2
CZM	1.56	173	P	51 45.22	-0.9
KOSW	1.58	165	P	51 45.50	-0.8
GLK	1.63	150	Pd	51 46.82	-0.4
NLW	1.64	86	P	51 47.44	0.1
TBM	1.69	118	P	51 48.46	0.5
ETW	1.69	102	P	51 47.91	-0.2
ERK	1.71	170	P	51 47.28	-1.0
SOSW	1.80	166	P	51 49.02	-0.7
FL2	1.81	171	P	51 49.06	-0.8
NAC	1.82	133	Pd	51 50.24	0.3
REMW	1.83	167	P	51 50.01	-0.2
ESD	1.84	166	P	51 50.04	-0.2
EBG	1.85	125	ePd	51 51.25	1.0
CBSW	1.85	95	P	51 50.95	0.6
JLK	1.89	167	P	51 50.69	-0.2
WTV	1.92	97	P	51 52.14	0.7
LVP	1.93	172	P	51 51.86	0.3
CDFW	1.93	165	P	51 51.47	-0.1
MTMW	2.00	169	P	51 52.63	0.1
ASR	2.01	156	Pd	51 52.73	0.1
MXC	2.20	129	P	51 56.09	0.7
EPH	2.24	105	P	51 55.28	-0.7
MDW	2.47	123	P	51 59.48	0.3
WAH2	2.51	118	P	51 59.79	0.1
55 obs. associated					

% NOV 21, 1990 11h 12m 24.81 \pm 0.98s
 41.074 N \pm 10.1km 28.554 E \pm 7.6km
 DEPTH = 10.0km (geophysicist)

TURKEY MD 2.4 (ISK). (366)

CTT	0.12	308	iPg	12 27.60	-0.2
ISK	0.38	91	ePg	12 33.00	0.4
KCT	0.84	190	iPn	12 41.60	0.6
HRT	0.88	106	ePn	12 42.10	0.3
IZI	1.02	136	ePn	12 43.00	-1.1
S.D. = 0.9 on 5 of 5 obs.					

? NOV 21, 1990 11h 17m 13.45 \pm 1.82s
 40.764 N \pm 11.6km 27.500 E \pm 12.3km
 DEPTH = 10.0km (geophysicist)

TURKEY MD 2.0 (ISK). (366)

KGT	0.35	206	iPg	17 20.60	0.0
			iSg	17 24.10	
BNT	0.52	142	iPg	17 23.90	0.0
			eSg	17 31.10	
CTT	0.80	61	iPg	17 29.00	0.0
			eSg	17 41.00	
KCT	0.83	128	ePg	17 29.60	0.1
S.D. = 0.1 on 4 of 4 obs.					

* NOV 21, 1990 11h 52m 12.73 \pm 1.21s
 23.096 S \pm 13.7km 66.566 W \pm 10.5km
 DEPTH = 222.2 \pm 13.6 km
 4.0mb (1 obs.)

JUJUY PROVINCE, ARGENTINA (128)

ANT	3.59	260	iPd	53	11.00	0.1
			iS	53	52.00	
CCH	5.70	4	P	53	38.00	0.5
CNCB	6.39	348	iPc	53	48.90	2.3x
			S	54	59.80	
LPB	6.69	347	P	53	52.00	1.8
			S	55	06.00	
ZOBO	6.95	348	Pc	53	54.00	0.3
			S	55	11.00	
ARE	8.06	324	iPd	54	06.00	-2.0
			iS	55	33.00	
SIV	8.76	37	iPd	54	15.60	-1.2
PPD	14.13	89	e(P)	55	28.00	3.3x
VAO	18.04	94	eP	56	10.20	0.2
BAO	19.02	70	ePd	56	21.00	0.7
SOB1	28.19	65	e(P)	57	46.20	-0.8
FVM	64.76	339	iP	02	29.10	-0.3

ALO 69.02 326 eP 02 57.00 0.6
0.8s 2.80nm 4.0mb
S.D. = 1.2 on 11 of 13 obs.

? NOV 21, 1990 12h 09m 07.81±1.28s
13.196 N ±20.0km 51.319 E ±14.0km
DEPTH = 10.0km (geophysicist)
4.6mb (3 obs.)
EASTERN GULF OF ADEN (415)

SHI 16.41 4 eP 12 58.00 -2.0
KER 21.41 350 ePc 14 01.00 2.8X
QUE 22.24 38 eP 14 08.20 1.5
POO 22.30 73 eP 14 04.00 -3.2X
PRNI 22.77 321 eP 14 17.00 5.3X
MAIO 24.15 16 iPc 14 26.50 1.4
TAB 25.17 351 eP 14 37.00 2.0
GBA 25.41 86 p 14 43.00 5.8X
HYB 26.59 77 eP 14 51.00 2.7X
BCAO 33.51 258 iPc 15 50.20 0.3

0.8s 7.00nm 4.6mb
GKN 34.35 59 p 15 56.74 -0.5
DMN 34.63 60 p 15 59.38 -0.4
KKN 34.83 60 p 16 01.10 -0.3
PKI 34.87 60 p 16 01.98 0.0
GUN 35.37 60 p 16 05.90 -0.3
DOU 52.88 324 Pc 18 33.20 7.2X
HFS 54.38 338 eP 18 35.00 -1.9
0.6s 1.70nm 4.3mb
WB5 88.04 111 eP 22 07.00 6.9X
ASPA 88.58 115 eP 22 09.50 6.8X
1.0s 8.50nm 5.0mb
S.D. = 1.4 on 11 of 19 obs.

? NOV 21, 1990 12h 15m 02.09±12.27s
39.644 N ±78.4km 29.466 E ±53.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

IZI 0.69 0 iPg 15 15.10 -0.7
eSg 15 25.10
YLV 0.92 356 iPg 15 20.60 0.8
KCT 1.05 306 iPg 15 21.60 -0.2
BNT 1.38 301 ePn 15 27.60 0.2
S.D. = 1.1 on 4 of 4 obs.

? NOV 21, 1990 12h 16m 08.85±10.67s
39.545 N ±70.6km 29.470 E ±42.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.3 (ISK).

IZI 0.79 0 ePg 16 23.10 -1.2
YLV 1.02 356 iPg 16 29.10 0.9
iSg 16 44.10
KCT 1.11 310 ePg 16 29.60 0.0
HRT 1.28 7 ePn 16 33.00 0.3
BNT 1.44 305 ePn 16 35.00 0.0
S.D. = 1.1 on 5 of 5 obs.

& NOV 21, 1990 12h 16m 54.67s
39.493 N 111.071 W
DEPTH = 3.4km
UTAH (478)
<SLC-P>. ML 3.0 (SLC).

DAU 0.93 351 eP 17 12.00 -1.3
MSU 1.30 222 eP 17 18.60 -1.0
DUG 1.51 298 eP 17 22.00 -0.8
PV09 1.81 123 eP 17 28.00 0.8
GOL 4.41 86 eP 18 04.00 -0.3
TNP 5.01 256 eP 18 13.00 0.3
ANMO 5.84 140 eP 18 21.00 -3.4
ALO 5.85 140 eP 18 22.00 -2.5
8 obs. associated

* NOV 21, 1990 12h 23m 43.14±2.27s
12.046 N ±5.8km 60.165 W ±31.4km
DEPTH = 24.7 ± 9.6 km
WINDWARD ISLANDS (95)
MD 3.8 (TRN).

BOT 1.03 212 iP 24 01.07 -0.9
PIG 1.10 217 eP 24 03.93 0.9
eS 24 23.99
GRW 1.47 275 eP 24 07.67 -0.6

SVB 1.62 319 eP 24 29.28 eS 24 10.75 0.4
e 24 13.66
eS 24 33.05
SVV 1.63 321 eP 24 11.29 0.7
e 24 13.92
TBH 1.79 210 eP 24 12.98 0.1
TRN 1.84 221 eP 24 14.08 0.4
eS 24 40.00
SLB 1.96 334 eP 24 15.93 0.4
eS 24 42.29
BBL 3.68 340 eP 24 36.00 -3.9X
SEG 4.52 343 eP 24 51.00 -0.8
S.D. = 0.9 on 9 of 10 obs.

* NOV 21, 1990 12h 58m 50.42±0.56s
14.895 N ±12.3km 87.549 W ±10.3km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)
HONDURAS (72)

TPX 4.56 271 eP 00 00.50 1.6
OXX 9.09 285 (P) 00 59.00 -3.6X
UPA 9.80 126 eP 01 11.50 -0.7
PPM 11.38 293 (P) 01 32.00 -2.3
MEO 22.16 335 iPd 03 44.50 -0.6
ALO 26.23 323 eP 04 24.50 0.1
1.2s 5.86nm 4.1mb
ANMO 26.23 323 eP 04 25.40 0.9
LRM 37.27 331 eP 06 02.20 1.0
SIV 40.32 138 P 06 27.00 0.3
PNT 43.17 329 eP 06 51.00 1.3
0.9s 12.00nm 4.6mb
YKA 51.24 344 eP 07 51.40 -1.4
0.6s 2.40nm 4.3mb
INK 60.86 342 ePd 09 01.20 -0.5
MBC 63.60 352 eP 09 19.00 -0.9
0.9s 7.00nm 4.8mb
NB2 81.29 29 P 11 05.30 0.7
1.2s B.70nm 4.6mb
KHC 85.98 40 P 11 30.10 1.3
WRA 139.79 257 PKP 18 17.00 -0.7
1.1s 3.10nm
ASPA 140.03 251 iPKPd 18 17.60 -0.5
1.0s 5.10nm
CHG 145.90 349 ePKP 18 28.80 0.4
GBA 148.02 28 PKPd 18 36.00 4.2X
S.D. = 1.1 on 17 of 19 obs.

NOV 21, 1990 14h 02m 48.09±0.43s
37.010 N ±3.8km 29.585 E ±4.2km
DEPTH = 20.4 ± 4.3 km
5.0mb (4 obs.)
TURKEY (366)

MD 4.4 (ISK). Felt in the
Denizli area.

ELL 0.37 135 iPg 02 55.50 -0.5
KSL 0.89 180 ePg 03 04.10 -0.6
BCK 0.92 60 iPn 03 05.00 -0.3
KHL 1.31 358 iPn 03 10.60 -0.8
ARG 1.42 236 ePb 03 12.40 -0.4
ALT 2.08 11 ePn 03 23.80 1.3
SMG 2.30 288 ePn 03 24.70 -0.8
IZM 2.30 308 iPn 03 24.60 -1.0
DST 2.70 344 iPn 03 30.50 -0.7
PPCY 3.08 133 eP 03 39.50 2.9X
APE 3.24 272 ePn 03 38.50 -0.5
GPA 3.32 10 ePn 03 41.00 0.9
IZI 3.32 359 ePn 03 40.00 -0.1
EYL 3.58 7 ePn 03 45.00 1.2
BNT 3.59 339 iPn 03 42.00 -1.8
EDC 3.59 339 ePn 03 42.00 -1.9
NPS 3.66 243 ePn 03 44.70 -0.2
CSS 3.66 123 eP 03 47.00 2.1
BBTK 3.77 40 eP 03 50.00 3.5X
GBZT 3.77 358 ePn 03 47.50 1.1
HRT 3.81 1 ePn 03 47.00 0.1
KGT 3.87 333 ePn 03 46.50 -1.3
ISK 4.07 354 ePn 03 54.00 3.4X
ITU 4.11 354 ePn 04 05.00 13.8X
iSg 05 00.00
CTT 4.23 348 ePn 03 58.00 5.1X
VAM 4.64 251 ePg 04 11.10 12.3X
RDO 5.19 324 ePn 04 08.10 1.6
VLI 5.34 269 ePn 04 10.30 1.7
ITM 6.12 274 ePn 04 22.40 2.7X

EVR 6.43 290 ePn 04 25.40 1.2
VAY 6.94 310 ePn 04 31.60 0.4
DSI 7.24 137 eP 04 36.00 0.6
PRNI 8.03 144 eP 04 46.00 -0.5
MBH 8.47 147 eP 04 49.00 -3.5X
MLR 8.91 343 eP 04 58.00 -0.7
GKN 46.73 84 p 11 17.04 -0.8
0.6s 13.00nm 5.1mb
DMN 47.28 85 P 11 21.76 -0.5
0.6s 16.00nm 5.3mb
KKN 47.34 84 P 11 21.96 -0.7
0.5s 7.00nm 4.9mb
PKI 47.54 85 P 11 23.64 -0.8
0.9s 12.00nm 5.0mb
GUN 47.76 84 P 11 25.74 -0.5
S.D. = 1.1 on 32 of 40 obs.

? NOV 21, 1990 14h 08m 19.47±4.87s
47.515 N ±26.3km 6.575 E ±36.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

FEL 1.04 69 ePg 08 39.71 0.6
ZLA 1.23 91 eP+ 08 41.60 -0.8
SLE 1.32 78 eP 08 43.20 -0.7
EMS 1.47 170 eP+ 08 45.70 -0.4
DIX 1.55 158 ePd 08 47.70 0.4
MMK 1.75 146 ePd 08 49.90 -0.3
LLS 1.77 110 ePd 08 51.90 1.3
S.D. = 1.0 on 7 of 7 obs.

? NOV 21, 1990 14h 46m 52.03±1.65s
39.090 N ±8.9km 27.779 E ±19.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.1 (ISK).

IZM 0.80 210 ePg 47 07.60 0.0
eSg 47 18.60
BNT 1.27 5 iPn 47 16.00 0.4
EZN 1.34 304 ePn 47 17.00 0.2
KGT 1.41 345 ePn 47 17.00 -0.7
S.D. = 0.8 on 4 of 4 obs.

NOV 21, 1990 15h 15m 59.35±0.46s
40.600 N ±5.1km 27.280 E ±3.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

KGT 0.15 173 ePg 16 03.00 0.2
EDC 0.51 119 ePg 16 10.00 0.3
eSg 16 17.50
BNT 0.55 116 iPg 16 10.00 -0.4
eSg 16 17.00
CTT 1.03 58 iPn 16 19.00 0.2
EZN 1.06 224 ePn 16 18.60 -0.8
ISK 1.43 70 iPn 16 25.00 -0.3
RDO 1.43 293 iPc 16 25.70 0.4
eS 16 44.70
DST 1.43 133 iPn 16 26.50 1.1
PRK 1.56 210 eP 16 27.50 0.4
eS 16 49.50
YLV 1.59 91 iPn 16 28.50 0.8
GBZT 1.66 83 ePn 16 29.00 0.4
IZI 1.69 98 ePn 16 29.00 -0.2
KDZ 1.76 307 eP 16 34.00 4.0X
HRT 1.83 82 iPn 16 29.50 -1.6
DIM 1.96 318 iP 16 36.00 3.1X
EYL 2.19 90 ePn 16 32.00 -4.5X
IZM 2.20 180 ePn 16 36.00 -0.5
RZN 2.22 300 iP 16 37.00 0.1
PVL 2.99 332 eP 16 55.00 7.4X
VTS 3.64 304 eP 17 22.00 24.9X
S.D. = 0.7 on 15 of 20 obs.

* NOV 21, 1990 15h 24m 16.18±0.67s
30.241 N ±6.5km 142.203 E ±12.5km
DEPTH = 33.0km (normal)
4.7mb (8 obs.)
SOUTH OF HONSHU, JAPAN (211)

KAKJ 6.19 345 eP 25 48.10 0.5
eS 26 55.10
CHJJ 6.39 336 P 25 49.10 -0.9
S 27 01.50
MAT 7.12 333 iPc 25 59.60 -1.0

21d 15h

	0.6s	12.00nm	5.0mb	
	eS	27 19.00		
MDJ	17.47 329 eP	28 20.00	1.3	
BJI	23.35 302 eP	29 21.50	-0.9	
	0.8s	11.00nm	4.4mb	
TIY	25.71 295 eP	29 45.00	-0.2	
BTO	28.05 300 eP	30 06.00	-0.6	
XAN	28.36 286 P	30 08.00	-1.4	
GTA	35.71 297 eP	31 13.50	-0.2	
CHG	40.75 264 eP	31 56.60	0.7	
WMO	44.81 303 P	32 29.50	0.7	
GUN	48.85 282 P	33 01.28	0.2	
	0.7s	12.00nm	5.0mb	
PKI	49.35 282 P	33 04.48	-0.4	
KKN	49.40 282 P	33 05.76	0.6	
	0.8s	14.00nm	5.1mb	
DMN	49.60 282 P	33 06.32	-0.4	
GKN	49.88 283 P	33 09.22	0.5	
	0.7s	10.00nm	4.9mb	
WB5	50.40 190 eP	33 12.80	0.4	
WRA	50.46 190 P	33 12.00	-1.0	
	1.3s	7.20nm	4.5mb	
ASPA	54.19 189 eP	33 41.10	0.4	
FORR	62.22 194 eP	34 36.20	-0.6	
MA10	67.41 300 eP	35 13.00	2.3	
YKA	69.38 29 eP	35 21.70	-0.7	
	0.7s	1.20nm	4.1mb	
NB2	80.71 338 P	36 28.00	0.8	
	0.9s	2.40nm	4.2mb	
ARV	93.14 326 Pd	37 14.70	-13.5X	
	iSg	37 16.20		
ZOBO	148.98 70 PKP	44 06.00	6.6X	
LPB	149.13 71 ePKP	44 15.00	15.5X	
CNCB	149.37 71 PKP	44 07.00	7.0X	
S.D. = 0.9 on 23 of 27 obs.				

& NOV 21, 1990 15h 52m 49.42s
62.845 N 149.887 W
DEPTH = 77.3km
CENTRAL ALASKA (1)
<ACS-P>

HUR	0.18 41 iP	53 00.82	1.6	
	eS	53 09.21		
CUT	0.48 202 iP	53 02.89	0.0	
	eS	53 12.84		
TRF	0.63 344 iP	53 04.72	0.1	
RND	0.73 39 eP	53 05.13	-0.4	
	eS	53 16.71		
MCK	0.99 25 eP	53 08.30	-0.2	
	eS	53 21.84		
SKT	1.16 222 iP	53 10.46	-0.1	
GHO	1.17 157 eP	53 10.64	-0.1	
	eS	53 28.57		
PWA	1.20 180 iP	53 11.12	0.1	
	eS	53 29.18		
PLRM	1.31 164 eP	53 12.67	0.2	
	eS	53 31.09		
BWN	1.35 8 eP	53 12.84	-0.1	
SUA	1.44 197 eP	53 14.66	0.3	
SCM	1.57 129 eP	53 16.35	0.3	
KNK	1.59 154 eP	53 16.57	0.3	
PMS	1.61 174 eP	53 17.35	0.8	
NCG	1.80 217 eP	53 19.19	0.0	
WRH	1.82 25 iP	53 18.53	-0.8	
CGLM	1.84 214 eP	53 20.27	0.6	
TOA	1.88 112 eP	53 21.21	1.0	
SPU	1.96 212 eP	53 21.94	0.7	
BGL	1.98 218 eP	53 23.08	1.5	
CKL	2.02 216 eP	53 22.92	0.8	
SDG	2.03 97 eP	53 22.86	0.6	
CCB	2.03 26 eP	53 21.28	-0.9	
MDM	2.25 18 eP	53 24.44	-0.8	
KLU	2.30 124 eP	53 25.59	-0.5	
SLKM	2.35 184 eP	53 27.92	1.3	
GLI	2.38 145 eP	53 25.86	-1.1	
VLZ	2.40 134 eP	53 26.15	-1.1	
KNIM	2.71 157 eP	53 28.69	-2.9	
GLB	3.18 114 eP	53 39.02	0.8	

30 obs. associated

NOV 21, 1990 16h 07m 16.97±0.66s
36.263 N ± 6.1km 89.536 W ± 6.5km
DEPTH = 5.0km (geophysicist)
NEW MADRID, MISSOURI REGION (486)
MD 2.7 (SLM). Felt (III) at
Ridgely, Tiptonville and

Wynnsburg, Tennessee. Felt (II)
at Finley and Mason Hall,
Tennessee.

DRTN	0.19 132 iPc	07 21.40	0.6	
	eS	07 23.68		
UTMA	0.45 86 eP	07 26.26	0.2	
DON	0.97 341 eP	07 36.16	0.4	
ELC	1.05 14 eP	07 36.60	-0.6	
OLY	1.74 245 eP	07 48.00	-0.1	
PWLA	1.75 136 eP	07 47.50	-0.7	
FVM	1.86 338 eP	07 50.00	0.3	
RSCP	3.29 100 e(P)	08 12.00	1.8X	
S.D. = 0.6 on 7 of 8 obs.				

? NOV 21, 1990 16h 45m 48.83±2.56s
17.534 S ± 32.6km 69.097 W ± 23.3km
DEPTH = 169.2 ± 10.1 km
4.5mb (3 obs.)

PERU-BOLIVIA BORDER REGION (118)

CNCB	1.29 56 iPd	46 19.00	0.2	
LPB	1.38 44 iPd	46 19.80	0.3	
	1.0s	820.00nm		
ZOBO	1.56 37 iPd	46 21.00	-0.5	
CCH	2.82 87 P	46 36.50	0.9	
SIV	7.84 80 P	47 40.20	-0.9	
PPD	17.32 108 eP	49 41.20	-0.8	
SOB1	28.63 77 eP	51 31.80	0.1	
LIC	67.51 75 P	56 29.20	0.1	
TIC	67.67 75 P	56 30.40	0.3	
KIC	67.82 75 P	56 31.50	0.5	
	0.5s	5.00nm	4.6mb	
LKO	68.26 72 Pc	56 34.24	0.5	
	0.4s	13.00nm	5.0mb	
YKA	87.41 341 eP	58 17.00	-0.6	
	0.6s	1.10nm	3.9mb	
S.D. = 0.7 on 12 of 12 obs.				

NOV 21, 1990 16h 59m 58.15±0.19s
21.936 S ± 5.8km 138.967 W ± 7.6km
DEPTH = 0.0km (geophysicist)
5.4mb (18 obs.)

TUAMOTU ARCHIPELAGO REGION (631)

DZM	50.37 259 iPc	09 00.70	1.2	
PLM	58.88 22 eP	10 02.00	0.5	
SYF	58.98 18 eP	10 03.00	0.9	
PAS	59.18 20 eP	10 04.00	0.7	
PEC	59.27 21 P	10 04.00	0.0	
MWC	59.29 20 eP	10 05.00	0.7	
RVR	59.30 21 eP	10 04.00	-0.1	
ABL	59.51 19 P	10 06.20	0.4	
BCH	59.57 18 P	10 07.00	0.9	
SBB	59.79 20 eP	10 08.00	0.4	
TPC	59.85 22 eP	10 08.00	0.0	
PRS	60.29 16 eP	10 11.30	0.4	
PRI	60.30 17 eP	10 12.20	1.1	
ISA	60.49 19 eP	10 13.00	0.7	
LLA	60.67 17 eP	10 14.30	0.8	
GSC	60.68 21 eP	10 14.00	0.3	
SAO	60.68 16 eP	10 13.90	0.3	
GCC	60.79 16 eP	10 14.50	0.2	
PCC	61.15 15 eP	10 17.50	0.8	
MHC	61.18 16 eP	10 17.70	0.6	
ARN	61.21 16 P	10 17.80	0.6	
FRI	61.36 18 eP	10 18.40	0.2	
BKS	61.54 15 eP	10 20.20	0.8	
	0.9s	65.00nm	5.8mb	
CMB	62.16 17 eP	10 23.90	0.3	
TNP	63.10 19 P	10 30.00	-0.1	
	0.6s	8.64nm	5.2mb	
ORV	63.31 15 e(P)	10 29.00	-2.2	
WDC	64.05 14 eP	10 36.00	0.0	
ALO	64.44 29 iPc	10 38.50	-0.4	
	1.0s	29.25nm	5.5mb	
	e	11 03.00		
LBFM	64.92 14 P	10 41.80	-0.2	
TOO	65.81 238 iPd	10 48.70	1.0	
PV09	66.31 25 iP	10 51.00	0.0	
DUG	66.44 22 P	10 52.00	0.4	
LPB	66.61 99 P	10 55.00	1.4	
CNCB	66.64 99 Pc	10 55.60	1.7	
ZOBO	66.67 99 Pc	10 54.80	0.7	
CMS	66.70 244 iPc	10 54.00	0.6	
DAU	67.18 23 iP	10 57.30	0.7	
	0.9s	10.80nm	5.1mb	

SPA	68.20 180 eP	11 01.00	-1.5
	1.0s 10.00nm		5.0mb
	e	39 15.00	
MEO	68.21 35 iPd	11 01.90	-0.8
GOL	68.88 27 P	11 07.00	-0.1
	0.7s 14.56nm		5.3mb
CTA	69.15 256 iPc	11 09.60	0.7
	1.2s 115.63nm		6.0mb
HPI	69.51 20 P	11 12.00	1.1
BMW	69.56 12 P	11 10.80	-0.1
LON	70.10 12 P	11 13.70	-0.5
GMW	70.68 12 P	11 17.00	-0.6
RMW	70.78 12 P	11 17.80	-0.6
LRM	71.61 19 ePc	11 24.00	0.4
NEW	72.57 15 P	11 28.70	-0.3
	1.0s 40.00nm		5.5mb
OLY	72.72 39 P	11 29.50	-0.6
PNT	73.00 13 eP	11 31.00	-0.5
	1.0s 46.00nm		5.6mb
RSSD	73.11 26 iP	11 31.80	-0.7
	1.5s 175.12nm		6.0mb
SIV	73.20 101 Pc	11 38.60	5.2X
FVM	75.04 38 P	11 42.80	-0.7
SES	76.13 18 eP	11 50.00	0.4
	1.1s 95.00nm		5.8mb
RSCP	76.35 42 P	11 50.00	-1.1
GBTN	77.25 43 P	11 55.40	-0.7
TKL	77.52 43 P	11 56.70	-0.9
ASPA	79.00 249 iPc	12 05.80	-0.2
	0.8s 12.50nm		5.0mb
SDN	79.13 348 eP	12 05.30	-0.6
WB5	79.84 253 eP	12 11.00	0.4
WRA	79.84 253 P	12 10.00	-0.6
	1.0s 12.30nm		4.8mb
PPD	79.99 110 e(P)	12 11.60	0.2
KDC	80.18 353 eP	12 11.40	-0.1
BLA	80.61 44 P	12 14.40	0.0
	1.0s 49.00nm		5.5mb
CLE	82.51 40 iP	12 25.10	1.0
FFC	82.66 21 eP	12 24.00	-0.6
	0.7s 10.00nm		5.1mb
PMR	83.63 355 iPc	12 29.00	-0.4
	0.8s 52.40nm		5.8mb
SVW	83.84 352 eP	12 29.60	-1.0
TOA	83.95 357 eP	12 31.20	0.1
WVLY	84.87 40 P	12 35.40	-0.7
TTA	85.65 352 eP	12 39.60	0.0
YKA	86.34 11 eP	12 41.70	-1.3
	0.9s 43.40nm		5.6mb
TBR	86.80 43 P	12 45.00	-0.7
FBA	86.82 356 eP	12 44.70	-0.5
IMA	88.44 354 eP	12 52.50	-0.7
	0.9s 6.10nm		4.9mb
RSNY	88.46 40 P	12 53.60	0.0
ANM	88.62 349 e(P)	12 54.40	0.5
HBVT	89.25 41 P	12 56.80	-0.5
MAW	89.27 188 eP	12 58.00	0.8
INK	90.07 2 ePd	13 00.20	-0.4
SOB1	93.99 102 eP	13 20.70	0.7
MBC	98.70 5 eP	13 41.00	1.1
LZH	124.16 299 ePKP	19 01.00	0.1
CHG	125.89 278 ePKPd	19 05.00	0.5
	1.0s 20.50nm		
GTA	127.42 303 PKPd	19 07.40	0.4
KEV	131.43 6 ePKP	19 18.00	4.5X
KIC	133.20 102 PKP	19 15.60	-3.0X
LKO	133.64 98 PKP	19 18.76	-0.7
SOD	133.67 8 ePKP	19 18.00	0.2
LSA	134.51 291 ePKP	19 20.60	-0.6
NB2	135.77 20 PKP	19 21.20	-0.9
	1.4s 9.10nm		
WMO	135.85 311 PKP	19 22.50	-0.3
HFS	137.25 20 ePKP	19 14.20	-10.7X
	0.5s 2.00nm		
SUF	138.00 10 ePKP	19 16.00	-10.2X
GUN	139.07 288 PKP	19 21.30	-8.4X
PKI	139.47 287 PKP	19 22.22	-8.2X
	0.9s 15.00nm		
SNF	139.54 36 PKP	19 30.30	1.0
KKN	139.60 287 PKP	19 22.94	-7.5X
DMN	139.74 287 PKP	19 23.60	-7.2X
NUR	139.77 12 iPKP	19 29.20	-0.2
DOU	139.92 36 PKP	19 31.00	0.9
WTS	140.05 33 ePKP	19 31.40	1.2
	1.0s 22.00nm		
GKN	140.17 288 PKP	19 23.64	-7.8X
ENN	140.29 35 ePKP	19 31.50	0.8
			0.8

21d 22h

IZI 3.43 34 ePn 58 50.00 7.6X
S.D. = 1.0 on 7 of 10 obs.

? NOV 21, 1990 23h 00m 06.82 ± 2.64s
37.656 N ± 19.5km 26.922 E ± 22.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.9 (ATH).

SMG 0.09 308 iPg 00 08.70 -0.6
eSg 00 11.70
IZM 0.79 20 iPg 00 21.80 -0.4
iSg 00 35.80
APE 1.25 243 ePb 00 30.20 0.0
PRK 1.67 342 ePn 00 38.70 2.5X
EZN 2.22 348 ePn 00 45.00 0.9
S.D. = 1.1 on 4 of 5 obs.

* NOV 21, 1990 23h 23m 21.74 ± 0.90s
22.900 S ± 8.0km 68.709 W ± 10.2km
DEPTH = 81.4 ± 12.8 km
4.6mb (4 obs.)
NORTHERN CHILE (123)

ANT 1.76 243 iPc 23 50.80 -0.2
iS 24 10.00
CCH 5.99 24 P 24 55.00 5.0X
CNCB 6.10 7 P 24 55.00 3.3X
LPB 6.36 5 P 25 00.00 4.8X
1.0s 220.00nm 5.5mb
i 26 16.00
ZOBO 6.62 5 P 25 00.00 1.1
CFA 8.68 177 e(P) 25 25.00 -1.7
MDZ 9.95 181 eP 25 45.70 1.7
SIV 9.95 48 P 25 43.20 -0.9
NNA 13.33 323 iP 26 35.00 5.9X
0.8s 7.46nm 4.3mb
PPO 16.11 90 eP 27 04.40 -0.2
VAO 20.02 95 eP 27 51.00 0.4
e 27 54.20
e 28 04.00
BAO 20.84 73 eP 27 59.00 0.0
BMA 22.63 94 eP 28 17.60 0.8
SOB1 29.92 67 eP 29 23.50 -0.8
SPA 67.24 180 iPc 34 09.70 0.3
0.8s 8.33nm 4.7mb
KIC 68.92 73 P 34 21.00 0.6
YKA 92.56 341 eP 36 23.70 -1.0
0.8s 1.80nm 4.5mb
HYB 148.83 94 ePKP 43 19.00 20.9X
e 43 32.80
S.D. = 1.1 on 13 of 18 obs.

NOV 21, 1990 23h 34m 50.40 ± 0.42s
37.561 N ± 4.0km 26.918 E ± 3.1km
DEPTH = 13.2 ± 2.3 km
DODECANESE ISLANDS (369)
MD 4.4 (ISK), 3.9 (ATH).

SMG 0.16 336 iPg 34 53.90 -0.5
IZM 0.88 18 iPn 35 07.30 0.3
APE 1.21 246 iPb 35 12.80 0.1
ARG 1.66 144 iPbd 35 18.60 -0.6
PRK 1.76 343 ePn 35 22.20 1.5
KHL 2.20 69 iPn 35 27.30 0.2
EZN 2.31 349 iPn 35 28.70 0.1
DST 2.44 33 iPn 35 30.00 -0.6
ELL 2.52 108 ePn 35 31.00 -0.8
NPS 2.52 205 ePb 35 36.00 4.3X
ATH 2.57 280 ePn 35 31.50 -0.9
KSL 2.58 123 ePn 35 32.70 0.2
EDC 2.88 15 ePn 35 33.00 -3.7X
BNT 2.90 15 ePn 35 35.90 -1.1
BCK 2.92 91 iPn 35 38.00 0.6
ALN 3.40 349 eP 35 43.30 -0.8
eS 36 37.30
IZI 3.41 35 ePn 35 46.00 1.6
RDO 3.74 344 iPnd 35 48.20 -0.7
GBZT 3.77 31 ePn 36 02.00 12.5X
GPA 3.80 43 ePn 36 03.00 13.2X
ISK 3.87 25 ePn 35 55.00 4.2X
AGG 3.89 293 eP 35 50.60 -0.6
HRT 3.89 32 ePn 35 50.00 -1.2
ITU 3.90 24 ePn 36 06.00 14.9X
iSg 36 56.00
ITM 3.99 266 ePn 35 53.90 1.3
EVR 4.24 290 ePn 35 56.00 -0.3

KDZ 4.24 345 iPd 35 56.00 -0.1
LIT 4.29 308 eP 35 56.50 -0.3
SRS 4.39 325 eP 35 57.80 -0.4
RZN 4.46 338 iP 35 59.00 -0.3
DIM 4.61 347 eP 36 01.00 -0.3
MMB 4.72 329 ePc 36 03.00 0.1
KNT 4.76 320 ePc 36 04.16 0.7
GRG 4.88 315 ePd 36 05.24 0.1
VAY 5.04 319 ePn 36 25.70 18.3X
BBTK 5.11 62 eP 36 10.00 1.5
i 36 32.00
eS 37 36.00
FNA 5.38 308 ePc 36 13.61 1.4
VTS 5.77 332 eP 36 18.00 0.1
PVL 5.78 348 eP 36 17.00 -0.7
VRI 8.30 359 eP 36 54.00 0.7
GKN 48.79 84 P 43 36.54 -0.7
S.D. = 0.8 on 34 of 41 obs.

NOV 21, 1990 23h 39m 56.46 ± 0.32s
21.325 S ± 4.2km 179.029 W ± 3.7km
DEPTH = 637.7 ± 4.6 km
5.1mb (21 obs.)
FIJI ISLANDS REGION (181)

SVI 3.97 323 iPc 41 24.80 0.0
VUN 4.06 324 ePc 41 25.10 -0.3
SGE 4.70 322 iP 41 31.20 1.2
eS 42 48.80
NDF 4.86 316 iP 41 42.20 11.2X
DZM 13.52 264 iPc 42 50.90 1.0
PUZ 16.85 187 P 43 22.20 0.8
NOZ 17.42 188 eP 43 27.10 0.5
MNG 19.79 192 eP 43 47.60 -0.8
0.2s 12.00nm 5.0mb
KIW 20.15 193 eP 43 51.60 0.0
MTW 20.31 192 P 43 52.40 -0.6
WDW 20.52 193 eP 43 54.70 -0.2
MRW 20.54 194 eP 43 55.20 0.1
TCW 20.62 194 eP 43 56.30 0.5
THZ 21.48 197 P 44 04.00 0.3
KHZ 21.94 195 P 44 07.40 -0.3
LTZ 22.60 197 eP 44 13.10 -0.6
AFR 27.82 87 iP 44 59.40 -0.1
0.8s 65.00nm 5.3mb
PAE 27.98 88 iP 45 00.60 -0.2
0.8s 45.00nm 5.2mb
PPT 28.00 87 iP 45 00.90 -0.2
0.8s 35.00nm 5.0mb
PPN 28.15 87 iP 45 02.20 -0.1
0.8s 35.00nm 5.0mb
TVO 28.26 88 iP 45 03.00 -0.3
0.8s 65.00nm 5.3mb
PMO 30.21 83 iP 45 19.80 0.0
0.8s 30.00nm 5.0mb
VAH 30.39 84 iP 45 21.00 -0.3
0.8s 45.00nm 5.2mb
TPT 30.47 83 iP 45 22.00 0.0
0.8s 65.00nm 5.3mb
RUV 30.63 84 iP 45 23.40 0.1
0.8s 65.00nm 5.3mb
CTA 32.46 266 iPd 45 39.10 0.4
0.7s 41.10nm 5.2mb
iS 50 09.00
PMG 34.61 285 eP 45 56.00 -0.5
QIS 38.56 263 iPd 46 28.20 -0.6
WBS 43.52 263 iPc 47 07.20 -0.9
e 52 51.00
WRA 43.54 263 P 47 07.00 -1.2
0.3s 94.10nm 5.7mb
FORR 48.05 247 iPd 47 41.70 -0.6
0.4s 73.00nm 5.5mb
MTN 48.22 272 eP 47 42.30 -1.4
0.3s 20.00nm 5.0mb
KNA 49.63 267 iPd 47 53.40 -0.7
0.3s 27.00nm 5.1mb
WARB 49.67 253 iPd 47 54.10 -0.2
COOL 54.02 247 eP 48 25.00 -0.4
KLB 56.83 246 iPd 48 44.40 -0.3
NWA0 57.14 244 eP 48 47.00 0.2
BAL 57.84 247 eP 48 51.00 -0.6
MUN 58.10 245 iPd 48 53.20 -0.1
MRWA 58.64 248 eP 49 11.00 14.1X
0.4s 12.00nm
SDN 77.98 11 e(P) 50 50.20 -1.3
ARN 79.58 43 e(P) 51 01.40 1.0
NJ2 79.67 310 Pc 51 01.60 0.7

AIA 80.59 157 eP 51 07.30 2.2
CMB 80.72 43 ePd 51 05.60 -0.7
ORV 80.93 41 eP 51 06.50 -0.8
L8FM 81.78 40 eP 51 12.40 0.6
WHN 82.16 307 eP 51 14.00 0.4
CN2 82.37 323 Pd 51 14.60 0.3
1.2s 1050.00nm 6.3mb X
TNP 82.79 45 e(P) 51 15.80 -1.1
BJI 85.80 316 eP 51 31.00 -0.2
1.6s 61.00nm 5.1mb
TTA 85.92 10 eP 51 30.80 -0.6
PMR 86.04 14 eP 51 31.10 -0.8
0.4s 11.90nm 5.0mb
TIY 87.11 312 Pd 51 38.30 0.7
TOA 87.17 15 eP 51 37.40 0.1
XAN 87.87 308 Pd 51 41.50 0.4
PNT 87.87 34 eP 51 42.00 1.2
1.0s 26.00nm 4.9mb
ALO 88.67 52 eP 51 45.00 0.0
1.0s 2.50nm 4.0mb X
KMI 88.87 297 Pc 51 48.00 1.9
IMA 89.22 10 eP 51 45.90 -0.9
1.3s 26.60nm 5.0mb
FBA 89.25 13 eP 51 45.40 -1.4
CHG 89.62 290 ePd 51 50.90 1.5
0.9s 17.86nm 5.0mb
BTO 90.15 314 P 51 52.40 0.8
LZH 92.51 308 P 52 03.50 0.9
1.8s 38.00nm 5.2mb
SOB1 128.90 122 ePKP 57 55.20 -0.3
e 00 17.80
NUR 137.45 343 ePKP 58 06.00 -4.3X
NB2 139.67 352 PKP 58 06.20 -8.2X
0.5s 2.00nm
HFS 140.19 350 ePKP 58 07.40 -7.9X
0.4s 11.80nm
EDU 144.70 4 ePKP 58 23.20 0.1
ELO 144.73 5 ePKP 58 22.50 -0.7
0.4s 23.00nm
ESY 145.35 4 ePKP 58 25.20 1.0
0.5s 19.00nm
EBL 145.47 4 ePKP 58 24.80 0.4
0.5s 27.00nm
KAS 145.89 313 ePKP 58 29.50 3.8X
EKA 145.90 4 PKPc 58 27.50 2.4X
1.0s 27.70nm
HRI 147.04 299 ePKP 58 31.00 3.2X
BBTK 147.23 311 iPKPd 58 31.00 3.1X
KRA 147.65 337 ePKPd 58 31.10 3.0X
i 58 36.10
VRI 147.71 325 ePKPd 58 31.00 2.6X
ZNT 147.83 297 iPKPd 58 33.00 4.0X
KSP 148.18 341 iPKPd 58 33.20 4.3X
1.2s 68.00nm
i 58 38.50
SPC 148.24 336 iPKP 58 33.50 4.2X
WIT 148.26 353 ePKP 58 34.00 5.1X
ISR 148.28 324 ePKP 58 32.00 2.7X
MBH 148.36 292 iPKPd 58 34.40 4.4X
MLR 148.37 326 ePKPc 58 33.00 3.4X
CLL 148.63 345 ePKP 58 29.00 -0.6
1.2s 53.00nm
i 58 34.10
i 58 39.90
EYL 148.68 314 ePKP 58 33.90 3.7X
BRG 148.80 344 ePKP 58 30.80 1.0
epPKP 01 06.00
i 58 35.00
i 58 41.00
CMP 149.00 326 ePKPc 58 25.00 -5.4X
WTS 149.05 353 ePKP 58 35.00 4.9X
1.0s 54.00nm
e 58 42.00
PRU 149.45 343 PKPd 58 36.00 5.1X
1.1s 27.50nm
e 58 43.50
MOX 149.56 347 iPKP 58 37.00 6.0X
1.3s 49.00nm
i 58 44.00
SRO 150.10 336 iPKP 58 37.30 5.4X
i 58 45.80
ZST 150.22 338 ePKP 58 31.70 -0.4
i 58 38.60
i 58 47.80
ENN 150.36 354 ePKP 58 38.00 5.8X
0.9s 28.00nm
e 58 47.00

VKA	150.43	339	e(PKP)	58	38.00	5.6X	GREECE		(364)	RDT	3.04	197	eP	54	05.84	-0.6							
BZS	150.45	330	ePKP	58	38.50	6.0X	ML 3.2 (ATH).			VZW	3.09	140	eP	54	07.93	0.7							
KHC	150.49	343	ePKP	58	32.20	-0.3				GLI	3.10	146	eP	54	08.04	0.8							
			i	58	38.80		ATH	0.43	113	iPgd	17	15.20	-0.3	VLZ	3.10	138	eP	54	08.05	0.8			
MEM	150.51	353	PKP	58	38.60	6.2X				eSg	17	22.00		NCT	3.13	201	eP	54	07.58	-0.2			
GRF	150.55	346	iPKPd	58	39.00	6.4X	AGG	1.13	322	ePd	17	24.61	-1.2	RDN	3.15	200	eP	54	07.21	-0.8			
			ic	58	48.60					eS	17	37.94		REF	3.16	199	eP	54	08.45	0.1			
TNS	150.56	350	ePKPc	58	39.00	6.4X	LIT	2.04	344	iPc	17	38.78	-0.3	RSZ	3.19	199	eP	54	09.93	1.1			
WET	150.66	344	iPKPc	58	39.30	6.5X				eS	18	03.62		SVW	3.33	227	eP	54	07.90	-2.7			
SNF	150.76	356	PKP	58	38.70	5.9X	THE	2.50	356	ePd	17	46.18	0.7			i	54	15.00					
SOP	150.85	338	ePKP	58	39.30	6.3X				eS	18	14.38				eS	54	58.90					
DOU	151.15	355	PKP	58	40.20	6.8X	IGT	2.65	303	ePc	17	48.74	1.1	KNIM	3.43	155	eP	54	11.66	-0.3			
			i	58	49.20					eS	18	21.26		SEW	3.44	170	eP	54	13.95	1.9			
BHG	151.97	343	iPKPc	58	41.90	7.2X	SOH	2.68	2	ePc	17	48.18	0.0	TMW	3.44	89	eP	54	12.99	0.9			
CDF	152.50	351	ePKP	58	43.10	7.6X				iS	18	19.90		NNL	3.47	185	eP	54	13.57	1.1			
	0.6s		6.30nm				GRG	2.89	348	ePc	17	51.02	0.0	INE	3.62	200	eP	54	14.47	-0.4			
PTJ	152.59	337	ePKP	58	43.30	7.6X				eS	18	25.86		HIN	3.66	146	eP	54	15.69	0.3			
FLN	152.60	2	ePKP	58	42.90	7.4X	SRS	2.99	5	ePd	17	52.10	-0.4	LTI	3.70	158	eP	54	15.25	-0.6			
	0.4s		6.85nm							eS	18	26.26		BRLK	3.74	182	eP	54	17.25	0.9			
ZAG	152.65	337	ePKP	58	43.50	7.9X	FNA	3.00	332	ePc	17	52.48	-0.2	CVA	3.74	140	eP	54	17.61	1.2			
LDF	152.78	2	ePKP	58	43.00	7.2X				eS	18	29.26		GLB	3.78	120	eP	54	18.56	1.6			
	0.4s		3.45nm				KNT	3.03	355	ePd	17	53.22	0.2	MTU	3.79	157	eP	54	16.84	-0.2			
SQTA	152.87	345	iPKPd	58	43.00	6.9X				eS	18	28.46		SGAM	3.94	137	eP	54	19.45	0.3			
	0.9s		9.20nm				VAY	3.22	351	ePn	17	55.60	-0.1	CNPM	3.98	184	eP	54	20.22	0.4			
			i	58	43.50		MMB	3.47	6	ePd	17	59.00	-0.3	OPT	4.04	199	eP	54	20.53	-0.1			
GRR	152.96	3	ePKP	58	44.10	8.1X				OHR	3.51	329	ePn	18	00.30	0.4	PDB	4.08	206	eP	54	19.40	-1.7
	0.5s		4.35nm				ALN	3.52	38	ePc	18	00.74	0.8	AUP	4.35	199	eP	54	27.14	2.1			
LJU	152.96	339	ePKP	58	39.00	2.9X	KKB	3.73	358	iP	18	03.00	0.1	HMT	4.37	133	eP	54	25.34	0.1			
			i	58	44.10		RZN	3.73	18	iP	18	03.00	-0.1	TGL	4.58	123	eP	54	28.44	0.1			
HAU	153.03	352	ePKP	58	44.00	7.8X	KDZ	3.89	25	eP	18	05.00	-0.3	BALM	4.59	119	eP	54	29.19	0.6			
	0.6s		7.20nm				SKO	4.07	341	ePn	18	07.00	-0.8	KALM	4.64	138	eP	54	28.42	-0.7			
BSF	153.14	351	ePKP	58	44.20	7.8X	VTS	4.45	360	eP	18	14.00	0.6	WAX	4.77	126	eP	54	31.67	0.6			
	0.6s		5.40nm				S.D. = 0.6 on 19 of 19 obs.						CDD	4.80	199	eP	54	32.43	1.0				
SKO	153.16	325	ePKP	58	43.20	6.7X	& NOV 22, 1990 00h 53m 18.18s						SYI	4.97	191	eP	54	33.60	-0.1				
VOY	153.18	340	ePKP	58	43.50	7.0X	63.485 N						DWY	5.01	78	P	54	33.00	-1.3				
LPF	153.31	3	ePKP	58	44.90	8.4X	150.640 W						WRG	5.35	126	eP	54	38.99	-0.3				
	0.4s		6.85nm				DEPTH = 16.7km						KDC	5.83	190	e(P)	54	44.50	-1.3				
LOR	154.01	356	ePKP	58	46.40	8.9X	3.0mb (1 obs.)						ANM	6.56	286	eP	54	52.20	-4.0				
	0.8s		5.35nm				CENTRAL ALASKA						HYT	6.71	108	P	54	59.80	1.4				
SSF	154.24	356	ePKP	58	47.00	9.2X	<AGS-P>. ML 3.6 (NEIS).						YKA	16.27	77	eP	57	10.60	3.6				
	0.8s		7.40nm											0.5s		0.60nm			3.0mb				
LBF	154.29	355	ePKP	58	47.10	9.2X	TRF	0.16	102	iP	53	22.77	0.0		79 obs. associated								
	0.6s		2.70nm				HUR	0.68	138	iP	53	31.53	0.3										
AVF	154.52	356	ePKP	58	48.50	10.3X				iS	53	41.35											
	0.4s		2.30nm				MCK	0.80	71	eP	53	33.62	0.3										
SMF	154.63	355	ePKP	58	48.00	9.6X	RND	0.81	95	iP	53	33.88	0.4										
	0.6s		2.70nm				BWN	0.86	37	iP	53	35.20	0.9										
MFF	154.77	2	ePKP	58	49.60	11.1X	CUT	1.10	171	iP	53	38.36	0.0										
	0.6s		3.60nm				NEA	1.29	31	eP	53	40.10	-1.4										
BGF	154.78	357	ePKP	58	49.60	11.1X				eS	53	58.57											
	0.4s		2.60nm				WRH	1.50	47	eP	53	43.63	-0.7										
TCF	155.08	358	ePKP	58	50.50	11.5X	SKT	1.57	196	iP	53	44.79	-0.5										
	0.6s		1.80nm				CCB	1.71	46	eP	53	46.22	-1.1	JACH	0.71	226	iPd	18	14.50	-0.3			
MAF	155.13	357	ePKP	58	50.30	11.3X	MDM	1.82	34	eP	53	47.65	-1.3										
	0.6s		3.60nm				HDA	1.87	59	eP	53	49.08	-0.7	ROCH	1.16	228	iPc	18	18.50	-0.7			
LPL	155.41	350	ePKP	58	51.30	11.6X	PWA	1.87	169	eP	53	49.35	-0.4										
	0.7s		2.20nm				FBA	1.89	40	iPc	53	48.60	-1.4	FCH	1.16	192	iPc	18	19.80	0.4			
LPG	155.43	350	ePKP	58	50.80	11.0X				i	53	51.40											
	0.8s		4.05nm				GHO	1.89	154	eP	53	49.84	-0.3	MDZ	1.19	126	iP	18	20.50	1.2			
BCAO	156.07	228	iPKPc	58	42.30	1.0				eS	54	16.24											
	0.7s		12.00nm				PLRM	2.02	159	eP	53	51.59	-0.4	SAN	1.38	204	iPc	18	21.70	0.3			
			i	59	15.00		PMR	2.02	159	iPd	53	51.80	-0.1										
S.D. = 0.8 on 72 of 131 obs.							SUA	2.03	181	eP	53	51.78	-0.4	PCH	1.49	197	iPc	18	23.20	0.4			
* NOV 22, 1990 00h 16m 48.85±1.19s							GLM	2.07	42	eP	53	51.59	-1.1	CFA	1.60	69	iPd	18	25.00	1.0			
36.190 N ±20.4km 27.403 E ±11.8km							DDM	2.15	80	eP	53	54.50	0.6	TACH	1.66	208	iPc	18	24.10	-0.6			
DEPTH = 10.0km (geophysicist)							THY	2.20	90	eP	53	56.97	2.4										
DODECANESE ISLANDS (369)							NCG	2.21	199	iP	53	53.46	-1.2	LCCH	1.85	226	iPc	18	26.70	-0.3			
MD 3.7 (ATH).							SCM	2.26	136	eP	53	55.60	0.2										
							DJE	2.27	74	eP	53	56.72	1.2										
ARG	0.59	87	iPgd	16	59.20	-1.5	CGLM	2.28	197	eP	53	54.48	-1.2										
			eSg	17	08.10		PMS	2.30	167	eP	53	55.83	-0.2	LNZ	2.13	214	iPc	18	29.50	-1.0			
NPS	1.73	238	ePb	17	19.00	-0.1	KNK	2.31	153	eP	53	56.32	0.1										
			i	17	19.00					eS	54	24.85		CYA	5.21	45	ePd	19	10.50	-1.4			
APE	1.74	301	ePn	17	24.60	5.2X	CRP	2.34	198	eP	53	55.61	-1.0	CNCB	15.42	7	P	21	30.00	2.2			
KSL	1.77	92	ePn	17	20.20	0.6	BGL	2.37	201	eP	53	56.13	-0.9	ZOBO	15.94	7	P	21	35.00	0.7			
ELL	2.09	74	ePn	17	26.00	1.5	PAX	2.40	100	eP	53	58.38	1.0	SIV	18.05	29	P	21	59.20	-0.5			
IZM	2.21	357	ePn	17	49.00	22.9X	SPU	2.40	197	eP	53	56.25	-1.2	PPD	19.44	63	eP	22	11.90	-2.6			
KHL	2.72	38	ePn	17	33.00	-0.4	CKL	2.43	200	eP	53	57.19	-0.7	BAO	25.92	56	e(P)	23	17.00	-0.8			
BCK	2.85	63	ePn	17	39.00	3.7X	TOA	2.48	122	iP	53	59.50	1.0	SPA	57.98	180	iPd	27	39.20	2.1			
EZN	3.73	347	ePn	18	00.00	12.3X	TTA	2.50	260	iPc	53	54.70	-4.1		1.0s		7.50nm		4.6mb				
							SDG	2.52	110	iP	54	00.32	1.3	KIC	72.87	71	P	29	14.00	1.1			
S.D. = 1.6 on 5 of 9 obs.							NKA	2.77	186	eP	54	04.29	1.8	GBA	144.95	114	PKPc	37	19.00	-1.0			

22d 02h																	
4.2mb (7 obs.)						CGLM 2.10 229 eP 27 58.41 1.1						5.1mb (7 obs.)					
NEAR COAST OF GUERRERO, MEXICO (58)						SPU 2.21 227 eP 27 59.26 0.5						BANDA SEA (280)					
FBA 2.23 10 eP 27 57.96 -1.1						MDM 2.27 5 eP 27 58.51 -1.1						MTN 6.80 171 eP 50 38.10 0.7					
ACX 1.16 286 iP 52 18.00 -7.5X						BGL 2.27 232 eP 28 01.04 1.4						KNA 9.68 187 iPd 51 15.40 -0.9					
III 1.96 338 iP 52 32.50 -0.5						CKL 2.29 230 eP 28 00.68 0.6						0.3s 162.00nm 6.3mb X					
OXX 1.96 74 iP 52 37.50 0.4						SLKM 2.33 199 eP 28 01.02 0.6						WB5 14.34 163 eP 52 14.00 -3.5X					
IIT 2.48 8 (P) 52 45.00 0.5						GLM 2.36 14 eP 27 59.80 -1.1						OIS 17.13 148 iPc 52 52.30 0.1					
(S) 53 30.00 0.5						RDT 2.78 221 eP 28 06.34 -0.5						iS 55 48.50					
PPM 2.50 1 iP 52 45.50 0.5						CNPM 3.43 202 eP 28 15.11 -0.7						ASPA 17.87 168 iPc 53 01.10 -0.3					
(S) 53 25.00 -2.8X						BALM 3.45 116 eP 28 14.26 -1.9						0.7s 72.50nm 5.1mb					
IISM 2.72 27 iP 52 45.00 1.2						35 obs. associated						eS 56 01.90					
CRX 2.99 342 (P) 52 53.00 1.2						* NOV 22, 1990 03h 45m 02.20± 1.08s						iScS 04 28.20					
(S) 53 38.00 -0.3						33.896 N ±11.2km 25.671 E ±10.4km						MBL 17.94 212 iPd 53 02.10 0.0					
EVV 3.71 59 eP 53 01.50 -0.3						DEPTH = 33.0km (normal)						0.3s 13.00nm 4.8mb					
LVVM 3.82 34 eP 53 02.00 -1.3						EASTERN MEDITERRANEAN SEA (371)						WARB 20.24 189 iPd 53 27.20 0.5					
MRX 3.93 323 (P) 53 04.50 -0.4						NPS 1.36 358 eP 45 25.30 0.2						CTA 21.03 133 iPc 53 35.20 0.6					
TPX 6.41 104 (P) 53 49.00 9.1X						VAM 1.93 322 eP 45 34.20 0.8						1.0s 41.00nm 4.8mb					
ALO 19.59 341 eP 56 32.00 -1.6						ARG 3.07 40 eP 45 50.20 0.7						FORR 24.70 184 eP 54 10.10 0.0					
1.0s 5.00nm 3.8mb						VLI 3.59 322 eP 45 55.80 -1.2						0.4s 31.00nm 5.1mb					
OLY 19.94 18 eP 56 41.20 4.1X						KSL 3.90 54 eP 46 00.90 -0.4						DZM 38.59 118 iPc 56 11.20 -0.8					
RSCP 22.29 29 iP 57 02.20 1.2						KOT 6.56 125 ePn 46 39.50 0.6						GUN 54.38 311 P 58 16.16 0.1					
1.1s 77.02nm 5.1mb						JVI 8.37 101 eP 47 03.00 -1.2						0.4s 15.00nm 5.3mb					
FVM 22.55 17 eP 57 04.70 1.1						MBH 8.85 115 eP 47 11.00 0.3						PKI 54.56 310 P 58 17.22 -0.1					
1.1s 10.98nm 4.2mb						S.D. = 1.0 on 8 of 8 obs.						KKN 54.77 310 P 58 18.46 -0.2					
PLM 23.41 319 eP 57 12.00 -0.2						NOV 22, 1990 04h 33m 11.21± 0.68s						DMN 54.81 310 P 58 19.32 0.3					
PV09 23.70 339 eP 57 15.00 -0.1						42.402 N ± 7.4km 7.476 W ± 6.7km						0.5s 10.00nm 5.0mb					
GOL 23.78 347 iP 57 16.50 0.6						DEPTH = 10.0km (geophysicist)						GKN 55.36 310 P 58 23.04 0.1					
0.9s 9.47nm 4.3mb						SPAIN (377)						0.5s 19.00nm 5.3mb					
GSC 24.70 323 eP 57 25.00 0.4						mbLg 3.6 (MDD). Felt (III) in						CNCB 151.11 142 PKP 08 37.00 2.3X					
SBB 24.89 320 eP 57 27.00 0.6						the Macedo area.						i 08 42.10					
CLC 25.52 322 eP 57 33.00 0.7						ERUA 0.25 92 iPgc 33 21.00 4.5X						LPB 151.25 142 PKP 08 41.00 6.2X					
ISA 25.94 321 eP 57 37.00 0.8						eSg 33 26.40						ZOB0 151.44 141 PKP 08 42.00 6.8X					
BLA 26.15 35 eP 57 38.00 -0.1						STS 0.93 302 iPgd 33 31.10 2.2						PPD 152.02 177 ePKP 08 38.80 3.5X					
1.0s 10.00nm 4.4mb						EZAM 0.94 255 iPgc 33 29.00 -0.1						S.D. = 0.5 on 14 of 19 obs.					
TNP 26.93 326 eP 57 45.00 -0.5						eSg 33 39.80						? NOV 22, 1990 05h 06m 13.57±12.68s					
1.0s 2.00nm 3.7mb						EMON 1.04 6 iPgd 33 34.70 3.8X						6.435 S ±94.7km 147.471 E ±125.0km					
RSSD 27.85 352 eP 57 54.00 0.3						PTO 1.52 214 iPnd 33 38.00 -0.4						DEPTH = 105.7 ± 21.7 km					
1.1s 8.07nm 4.3mb						i 33 39.90						4.5mb (1 obs.)					
LCCM 31.21 342 eP 58 23.70 0.1						iSn 33 42.50						EAST PAPUA NEW GUINEA REGION (207)					
FFC 38.18 357 eP 59 22.00 -1.0						EPLA 2.56 155 iPnd 33 52.50 -1.0						LAT 0.52 245 eP 06 30.00 -0.3					
0.9s 16.00nm 4.9mb X						eSn 34 22.50						eS 06 45.00					
INK 56.25 345 ePc 01 42.20 -1.9						GUD 3.05 124 iPnc 34 00.80 0.3						YYYY 1.51 277 eP 06 41.00 0.2					
MBC 60.68 354 eP 02 15.00 0.2						ECRI 3.68 85 iPnc 34 11.30 1.9						PMG 2.97 186 eP 07 00.00 0.2					
GBA 149.79 7 PKP 11 53.00 4.1X						ETOR 4.36 109 ePn 34 21.20 2.1						eS 07 45.00					
0.2s 0.50nm						EBAN 5.09 145 ePn 34 27.10 -2.2						WB5 18.46 222 eP 10 23.50 -0.5					
S.D. = 0.9 on 25 of 30 obs.						eSn 35 24.20						ASPA 21.54 216 eP 10 56.00 0.3					
& NOV 22, 1990 03h 27m 23.68s						BTH 5.40 80 (Pn) 35 30.50 56.8X						0.3s 8.20nm 4.5mb					
62.711 N 148.699 W						e 35 50.50						NUR 111.30 333 iPKP 24 33.00 -3.3X					
DEPTH = 65.7km						(S) 36 13.60						0.7s 17.40nm					
CENTRAL ALASKA (1)						(Sg) 36 15.00						S.D. = 0.7 on 5 of 6 obs.					
<AGS-P>.						EPF 5.79 81 Pn 34 41.50 2.2						NOV 22, 1990 05h 13m 45.78± 0.73s					
HUR 0.51 302 iP 27 36.33 -0.1						Sn 35 48.60						51.764 N ± 5.2km 175.275 W ± 2.4km					
RND 0.70 354 iP 27 38.30 -0.3						Sg 36 24.70						DEPTH = 59.1 ± 6.4 km					
eS 27 48.91						LFF 6.48 64 Pn 34 51.00 2.1						5.1mb (68 obs.)					
CUT 0.79 248 iP 27 39.45 -0.1						LPO 6.70 67 Pn 34 52.20 0.2						ANDREANOF ISLANDS, ALEUTIAN IS. (7)					
GHO 0.95 186 iP 27 41.29 -0.4						MFF 6.71 49 Pn 34 52.60 0.3						Felt (IV) on Adak.					
MCK 1.03 354 eP 27 42.72 0.1						Sn 36 04.20						CENTROID, MOMENT TENSOR (HRV)					
eS 27 56.85						RJF 7.12 63 Pn 34 57.80 -0.1						Data Used: GDSN					
TRF 1.04 316 eP 27 42.70 -0.2						Sn 36 16.80						L.P.B.: 10S, 22C					
SCM 1.09 143 eP 27 43.49 0.0						CAF 7.36 67 Pn 35 00.60 -0.8						Centroid Location:					
PLRM 1.14 190 iP 27 43.65 -0.4						LSF 7.52 56 Pn 35 03.60 0.1						Origin Time 05:13:44.6 0.6					
PWA 1.20 208 iP 27 45.12 0.3						GRR 7.58 36 Pn 35 03.80 -0.6						Lat 51.85N 0.08 Lon 175.35W 0.10					
KNK 1.31 175 iP 27 46.40 0.1						TCF 7.95 57 Pn 35 08.80 -0.9						Dep 43.8 7.1 Half-duration 1.7					
TOA 1.32 116 eP 27 46.88 0.3						FLN 8.03 35 Pn 35 08.80 -1.8						Moment Tensor; Scale 10**16 Nm					
SDG 1.47 96 eP 27 48.32 -0.2						LDF 8.06 37 Pn 35 08.20 -2.9						Mrr= 3.76 0.34 Mtt=-2.95 0.55					
PAX 1.51 79 eP 27 48.49 -0.6						MAF 8.15 59 Pn 35 12.00 -0.4						Mff=-0.81 0.34 Mrt= 4.27 0.75					
eS 28 00.21						BGF 8.47 57 Pn 35 16.50 -0.3						Mrf= 2.01 0.64 Mtf=-2.00 0.42					
SKT 1.51 242 eP 27 49.40 0.3						Sn 36 49.80						Principal Axes:					
PMS 1.53 196 eP 27 49.21 -0.1						S.D. = 1.5 on 21 of 24 obs.						T Val= 5.98 Plg=65 Azm=339					
SUA 1.58 218 eP 27 50.59 0.5						* NOV 22, 1990 04h 48m 58.67± 2.18s						N 0.36 3 243					
DDM 1.68 49 eP 27 52.61 1.2						6.089 S ±11.7km 130.021 E ± 9.9km						P -6.33 25 152					
eS 28 13.55						DEPTH = 119.0 ± 21.8 km						Best Double Couple:Mo=6.2*10**16					
WRH 1.79 8 eP 27 51.92 -1.0						ADK 0.88 278 iPd 14 02.00 -0.3						NP1:Strike=235 Dip=20 Slip= 81					
HDA 1.87 24 eP 27 53.14 -0.9						SMY 6.60 283 eP 15 21.90 -0.4						NP2: 64 70 93					
NEA 1.88 355 eP 27 53.11 -1.1						SDN 9.50 62 eP 16 02.60 0.3											
eS 28 15.12						ANM 13.83 18 eP 17 03.10 2.9X											
VZW 1.94 148 eP 27 53.56 -1.5						SVW 14.29 41 ePd 17 08.50 2.3X											
CCB 1.98 11 eP 27 54.47 -1.1																	
GLI 1.99 157 eP 27 54.46 -1.2																	
NCG 2.09 233 eP 27 57.56 0.4																	

KDC	14.41	57 e(P)	17 05.50	-2.3X		0.6 s	28.00nm	5.5mb	ZST	79.86	352 eP	25 49.40	0.5	
		id	17 13.50		WHN	54.81	276 Pc	23 11.50	-0.3	LDF	79.94	3 eP	25 49.20	-0.1
TTA	15.19	35 eP	17 20.30	2.3X		0.8 s	30.00nm	5.4mb			0.9 s	16.40nm	5.0mb	
	1.0 s	77.50nm	4.9mb		XAN	55.73	283 Pd	23 17.60	-0.9	GRR	80.11	4 eP	25 50.60	0.3
PMR	17.29	45 eP	17 46.10	1.9X	MEO	55.76	76 iPc	23 18.80	0.2		0.8 s	14.80nm	5.0mb	
IMA	18.01	29 eP	17 55.60	2.4X	LZH	57.37	288 Pc	23 29.50	-0.8	CDF	80.18	358 eP	25 51.00	0.2
	1.0 s	80.20nm	4.8mb			1.0 s	20.00nm	5.2mb			0.8 s	3.00nm	4.3mb	
TOA	18.78	45 e(P)	18 04.40	1.8X		Z 24 s	0.77um	4.7MsZ	LPF	80.46	4 eP	25 52.60	0.5	
FBA	19.31	37 eP	18 06.50	-1.9X			pP	23 47.00	67kmX		0.8 s	10.75nm	4.8mb	
BRW	21.31	16 iPc	18 30.10	1.1			PcP	24 23.50		HAU	80.60	359 eP	25 53.10	0.2
SIT	23.59	61 e(P)	18 52.50	1.1	GTA	57.45	294 Pc	23 29.20	-1.5		0.8 s	8.05nm	4.7mb	
INK	25.89	35 eP	19 13.00	-0.2		0.6 s	10.00nm	5.1mb	Z	20 s	0.32um	4.7MsZ		
	0.5 s	18.00nm	4.9mb			Z 20 s	0.60um	4.7MsZ	BSF	80.77	359 eP	25 54.00	0.1	
MBC	32.43	22 eP	20 12.00	0.4			PcP	24 23.40			0.7 s	5.50nm	4.6mb	
	0.7 s	18.00nm	5.0mb		KEV	57.71	351 eP	23 44.00	12.1X	LOR	81.35	1 eP	25 57.10	0.3
		pP	20 24.00	46kmX	SCH	58.35	40 eP	23 35.00	-1.7		0.8 s	8.05nm	4.7mb	
YKA	33.36	47 eP	20 17.60	-2.2	FVM	58.38	68 P	23 35.60	-1.5	Z	20 s	0.35um	4.7MsZ	
	0.7 s	5.50nm	4.5mb			0.5 s	34.99nm	5.7mb	MLR	81.41	345 ePd	25 58.00	0.6	
GMW	33.63	76 eP	20 23.00	0.6	ELC	59.55	67 eP	23 43.80	-1.4	SSF	81.55	1 eP	25 58.30	0.4
LON	34.59	77 eP	20 31.80	1.1	SOD	60.05	350 eP	23 47.00	-1.2		0.9 s	11.45nm	4.8mb	
PNT	34.73	72 ePc	20 32.00	0.2	CLE	60.89	59 iP	23 54.30	0.0	LBF	81.63	1 eP	25 58.60	0.3
	0.7 s	46.00nm	5.5mb		WMQ	60.96	305 P	23 53.70	-1.1		1.0 s	9.00nm	4.7mb	
KAKJ	35.02	261 P	20 34.00	-0.4	CD2	61.03	284 P	23 54.80	-0.6	AVF	81.82	1 eP	25 59.80	0.6
NIIJ	35.08	264 P	20 34.90	0.0		0.6 s	40.00nm	5.7mb		1.0 s	17.00nm	5.0mb		
CHJJ	35.85	262 P	20 41.30	-0.1	WVLY	61.75	57 eP	23 59.50	-0.7	MFF	81.93	3 eP	26 00.40	0.6
MAT	36.02	264 eP	20 43.00	0.2	PWLA	61.84	68 eP	23 59.40	-1.4		0.8 s	16.10nm	5.1mb	
	0.8 s	29.85nm	5.3mb		GYA	62.46	278 iPc	24 04.80	-0.3	SMF	81.97	1 eP	26 00.60	0.5
Z 20 s		0.71um	4.4MsZ			1.2 s	100.00nm	5.8mb		0.8 s	16.10nm	5.1mb		
		(S)	26 34.00		RSCP	62.83	66 eP	24 05.40	-2.0	BGF	82.05	1 eP	26 00.90	0.4
MTMJ	36.24	264 P	20 46.30	1.5		1.2 s	72.89nm	5.7mb		1.0 s	16.00nm	5.0mb		
NEW	36.68	72 eP	20 48.90	0.6	HBVT	63.15	52 eP	24 07.80	-1.6	TCF	82.31	2 eP	26 02.40	0.6
	0.8 s	62.50nm	5.6mb		CBM	63.58	47 eP	24 10.40	-1.7		0.8 s	5.35nm	4.6mb	
EDM	36.69	63 iPc	20 48.40	0.0	BLA	64.55	62 ePc	24 19.00	0.4	LSF	82.33	2 eP	26 02.40	0.5
IIDJ	36.89	262 P	20 50.70	0.5		1.0 s	123.00nm	5.9mb		0.8 s	16.10nm	5.1mb		
LBFM	37.38	85 eP	20 55.50	1.1	PNJ	65.15	55 iP	24 22.60	0.2	MAF	82.38	2 eP	26 03.00	0.8
TSRJ	38.04	264 P	21 01.50	1.7	NA2	65.33	59 eP	24 23.50	0.0		0.9 s	8.20nm	4.7mb	
SES	39.21	66 eP	21 09.80	0.3	CBN	65.47	59 eP	24 24.40	0.0	LFF	83.62	3 eP	26 09.50	0.9
	0.8 s	50.00nm	5.4mb			1.0 s	50.00nm	5.5mb		0.8 s	10.75nm	4.9mb		
CMB	40.28	88 e(P)	21 20.00	1.6	KMI	65.84	280 Pc	24 27.00	-0.3	CAF	83.66	2 eP	26 09.80	0.9
	0.9 s	8.85nm	4.6mb			1.0 s	120.00nm	5.8mb		1.0 s	10.00nm	4.8mb		
LCCM	41.00	72 eP	21 24.80	0.4	JSC	66.22	65 eP	24 29.00	-0.3	WB5	83.78	227 eP	26 09.30	-0.3
SNY	41.87	281 eP	21 31.80	0.5	LHS	66.33	64 eP	24 29.80	-0.2	WRA	83.85	227 P	26 09.00	-1.0
	Z 24 s	1.20um	4.7MsZ		NB2	67.43	357 P	24 35.50	-1.1		0.7 s	16.00nm	5.2mb	
FFC	42.12	56 eP	21 33.00	-0.2		0.9 s	12.40nm	4.9mb	WRA	83.85	227 P	26 25.00	15.0X	
	0.5 s	9.00nm	4.8mb		HFS	68.22	355 eP	24 40.10	-1.4		0.8 s	6.00nm		
TNP	42.21	85 eP	21 35.50	1.0		0.6 s	14.30nm	5.1mb	LPO	83.89	3 eP	26 10.60	0.7	
	0.9 s	12.70nm	4.7mb		Z 23 s		0.40um	4.6MsZ		0.8 s	12.10nm	5.0mb		
ISA	42.96	89 eP	21 46.00	5.5X		LR	47 52.00		RMQ	84.07	212 eP	26 10.00	-1.0	
CLC	43.41	88 eP	21 49.00	5.0X	UPP	68.25	353 iP	24 41.00	-0.6	HYB	86.11	293 eP	26 21.50	0.0
DUG	43.64	80 eP	21 46.50	0.5	LSA	69.36	292 P	24 50.40	0.8		0.8 s	26.90nm	5.5mb	
	0.9 s	10.34nm	4.6mb		CHG	72.88	279 iPc	25 10.50	0.2			e	26 40.00	
SBB	44.00	90 eP	21 53.00	4.1X		1.0 s	32.50nm	5.2mb	ASPA	87.29	225 iPc	26 27.10	0.1	
PAS	44.14	90 eP	21 54.00	4.1X	EKA	73.07	5 Pc	25 11.70	0.9		0.9 s	24.80nm	5.4mb	
MWC	44.16	90 eP	21 58.00	7.7X		0.6 s	11.00nm	5.0mb	POO	87.86	297 iPd	26 28.80	-1.2	
GSC	44.23	88 eP	21 51.00	0.2	GUN	73.73	294 P	25 15.60	0.1		0.7 s	27.40nm	5.6mb	
DAU	44.46	79 eP	21 53.90	1.1	BDT	74.03	278 eP	25 18.50	1.6	GBA	89.80	292 P	26 39.70	0.6
	1.0 s	4.20nm	4.2mb			0.8 s	46.70nm	5.5mb	MBL	92.01	238 eP	26 49.00	0.0	
RVR	44.74	90 eP	22 01.00	6.3X	KKN	74.16	295 P	25 17.72	-0.1	TIC	121.23	11 PKP	32 33.40	-0.2
DL2	44.81	279 P	21 55.40	0.2	PKI	74.25	294 P	25 18.20	-0.3	KIC	121.54	11 PKP	32 33.90	-0.2
	1.0 s	240.00nm	6.0mb		GKN	74.36	295 P	25 18.74	-0.2	LIC	121.64	11 PKP	32 34.00	-0.3
PLM	45.48	90 eP	22 07.00	6.1X		0.5 s	93.00nm	6.0mb	SOB1	123.62	58 ePKP	32 38.10	-0.1	
TPC	45.48	89 eP	22 06.00	5.3X	DMN	74.40	295 P	25 19.14	-0.1	PPD	127.90	77 e(PKP)	32 43.20	-3.0X
RSSD	46.57	70 eP	22 09.00	-0.4	NST	74.53	276 eP	25 20.20	0.4	BUL	143.33	320 iPKPd	33 11.00	-4.1X
	1.1 s	20.19nm	5.0mb		ETA	75.51	7 eP	25 25.30	0.4	8FT	147.63	314 iPKPc	33 25.60	3.4X
PV09	46.93	79 eP	22 12.50	0.1	ECP	76.01	7 eP	25 29.00	1.3		0.8 s	179.10nm		
BJI	47.43	284 eP	22 16.50	0.6	CLL	77.06	355 iPd	25 33.90	0.3	MAW	148.14	218 iPKPc	33 25.30	3.9X
	0.5 s	22.00nm	5.4mb			0.7 s	16.00nm	5.1mb		1.0 s	53.00nm			
Z 22 s		0.92um	4.7MsZ		KSP	77.30	353 eP	25 34.20	-0.8	SLR	148.45	316 iPKPc	33 23.00	-0.4
		PcP	23 45.50		BRG	77.44	354 iPd	25 36.00	0.3		0.9 s	126.05nm		
GOL	48.46	75 eP	22 24.00	-0.3		0.7 s	16.00nm	5.1mb			i	33 27.00		
	0.7 s	33.98nm	5.5mb		MOX	77.80	356 eP	25 38.50	0.8	PRY	149.84	317 iPKPd	33 32.00	6.5X
TIA	49.28	279 eP	22 30.50	0.2	ENN	77.84	359 eP	25 38.00	0.1		1.0 s	82.00nm		
HHC	49.68	288 P	22 33.80	0.3		0.8 s	23.00nm	5.2mb	SWZ	150.95	320 iPKPc	33 31.50	4.3X	
	Z 20 s	0.60um	4.6MsZ		MEM	78.00	359 P	25 43.80	5.1X		0.9 s	268.91nm		
BTO	50.75	288 eP	22 41.00	-0.6	SNF	78.10	0 P	25 40.20	0.9					
ANMO	50.86	81 eP	22 42.20	-0.4	PRU	78.28	354 eP	25 40.00	-0.4					
	1.2 s	46.88nm	5.4mb		DOU	78.52	0 P	25 41.60	0.0					
ALO	50.86	81 eP	22 42.00	-0.7	GRF	78.77	356 iPc	25 43.90	0.8					
	1.2 s	10.16nm	4.7mb			1.0 s	33.00nm	5.2mb						
DAG	50.87	7 iPd	22 41.00	-0.9	Z 21 s	0.10um	4.1MsZ							
	0.3 s	16.88nm	5.6mb		CTA	79.06	217 iPc	25 44.90	0.0					
NJ2	50.99	274 Pc	22 42.80	-0.5		1.0 s	26.00nm	5.1mb						
	1.0 s	100.00nm	5.8mb		KHC	79.20	354 P	25 46.00	0.5					

S.D. = 0.8 on 130 of 155 obs.

NOV 22, 1990 05h 30m 35.15±2.19s
 5.017 N ±16.9km 125.431 E ±25.0km
 DEPTH = 196.5 ± 16.1 km
 4.9mb (5 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

22d 05h

WRA 26.31 161 P 36 07.00 12.4X
0.3s 4.60nm
MBL 26.59 192 eP 35 52.50 -4.6X
CHG 29.26 300 iPc 36 22.10 1.0
0.9s 12.18nm 4.6mb
ASPA 29.68 164 iPd 36 24.50 -0.3
0.3s 14.20nm 5.2mb
eS 41 03.50
MRWA 35.23 194 iPd 37 12.00 -0.5
0.4s 15.00nm 5.0mb
FORR 35.76 176 eP 37 17.00 0.1
GUN 43.93 306 P 38 24.58 -0.2
PKI 44.17 305 P 38 25.92 -0.8
KKK 44.36 305 P 38 27.20 -0.9
0.4s 9.00nm 4.6mb
DMN 44.44 305 P 38 28.32 -0.4
GKN 44.97 305 P 38 29.54 -3.3X
GBA 48.05 284 P 38 57.50 0.7
SLL 96.33 333 eP 43 42.60 0.3
0.8s 6.40nm 5.0mb
TIC 129.20 283 PKP 49 23.00 0.5
LIC 129.30 282 PKP 49 23.00 0.3
S.D. = 0.6 on 15 of 18 abs.

* NOV 22, 1990 06h 08m 21.71±2.15s
41.266 N ±11.6km 142.576 E ±11.4km
DEPTH = 65.6 ± 18.4 km
4.6mb (17 obs.) 4.1msz (1 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT 5.82 217 eP 09 49.00 1.6
0.7s 19.18nm 4.6mb X
(S) 11 12.00
MDJ 10.09 294 eP 10 46.50 0.2
BJI 20.05 275 eP 12 49.50 -2.4
0.8s 20.00nm 4.5mb
NJ2 21.08 252 P 13 01.00 -1.5
TIY 23.47 271 eP 13 27.80 1.7
XAN 27.48 266 P 14 02.20 -1.4
GTA 32.41 281 eP 14 46.80 -0.6
GYA 33.02 255 P 14 52.40 -0.4
WMO 39.89 293 iPd 15 51.20 0.5
GUN 47.76 272 P 16 54.90 0.4
0.5s 52.00nm 5.7mb X
KKK 48.27 273 P 16 58.62 0.3
PKI 48.29 272 P 16 58.58 0.0
DMN 48.50 273 P 16 59.68 -0.5
GKN 48.65 273 P 17 01.00 -0.1
DWY 48.77 35 P 16 55.00 -6.4X
INK 50.23 29 ePc 17 12.40 -0.1
MBC 52.22 17 eP 17 25.00 -2.5
0.9s 5.00nm 4.5mb
YKA 59.72 32 eP 18 20.20 -1.2
0.8s 1.00nm 4.0mb
WB5 61.31 189 eP 18 43.50 10.9X
WRA 61.37 189 P 18 32.00 -1.0
0.8s 1.20nm 4.1mb
GBA 62.50 264 P 18 56.80 16.1X
ASPA 65.10 189 eP 19 09.10 11.6X
1.2s 4.20nm
APO 70.22 336 eP 19 27.80 -1.4
0.7s 19.40nm 5.1mb X
NB2 70.64 337 P 19 31.20 -0.6
0.9s 9.40nm 4.7mb
KRA 76.10 326 eP 20 04.00 0.3
LOR 84.53 333 eP 20 48.70 0.1
0.8s 4.70nm 4.6mb
Z 20s 0.08um 4.1msz
LBF 84.74 333 eP 20 50.00 0.4
0.6s 2.25nm 4.4mb
SSF 84.83 333 eP 20 50.60 0.6
0.8s 2.70nm 4.4mb
LPL 85.01 331 eP 20 52.10 0.8
0.8s 4.05nm 4.5mb
LPG 85.02 331 eP 20 52.30 0.9
0.6s 4.95nm 4.8mb
SMF 85.08 333 eP 20 51.90 0.6
0.6s 4.50nm 4.7mb
AVF 85.12 333 eP 20 52.10 0.6
0.8s 8.05nm 4.8mb
MAF 85.88 333 eP 20 56.30 1.0
0.8s 9.40nm 4.9mb
TCF 85.94 334 eP 20 56.50 0.8
0.8s 4.05nm 4.6mb
LSF 86.20 334 eP 20 57.60 0.7
0.8s 12.10nm 5.1mb
MFF 86.43 335 eP 20 59.00 1.0

1.0s 16.00nm 5.1mb
CAF 87.18 333 eP 21 03.20 1.4
0.8s 8.05nm 4.9mb
SIV 147.57 46 PKP 28 00.80 3.3X
S.D. = 1.1 on 33 of 38 obs.

& NOV 22, 1990 06h 15m 32.40s
61.419 N 149.748 W
DEPTH = 30.5km
SOUTHERN ALASKA (2)
<AGS-P>. ML 3.5 (PMR). Felt
(11) at Anchorage. Also felt at
Eagle River.

PMS 0.20 153 iP 15 39.03 0.3
PWA 0.24 345 iP 15 39.18 0.0
PLRM 0.34 59 iP 15 39.72 -0.8
PMR 0.34 59 iPc 15 39.70 -0.8
SUA 0.48 276 iP 15 41.97 -0.7
iS 15 50.13
GHO 0.53 48 iP 15 42.39 -1.0
KNK 0.62 90 iP 15 43.74 -1.1
SML 0.78 59 eP 15 45.86 -1.4
SLKM 0.94 194 iP 15 48.11 -1.4
NKA 0.99 228 P 15 50.80 0.6
SKT 1.02 304 iP 15 49.77 -0.9
CUT 1.02 346 iP 15 49.67 -0.9
CGLM 1.09 265 eP 15 50.97 -0.8
SPU 1.14 259 iP 15 51.41 -0.9
eS 16 07.02
NCG 1.16 270 iP 15 52.24 -0.4
CRP 1.17 264 iP 15 52.52 -0.4
SCM 1.23 69 iP 15 52.82 -0.8
CKL 1.27 261 iP 15 53.71 -0.5
BGL 1.28 264 iP 15 54.00 -0.4
SEW 1.33 174 eP 15 53.73 -1.2
GLI 1.40 112 iP 15 54.92 -1.1
eS 16 13.43
KNIM 1.46 137 iP 15 54.98 -1.9
eS 16 14.58
RDT 1.55 238 iP 15 57.20 -1.0
HUR 1.57 2 eP 15 58.18 -0.3
eS 16 17.90
NNL 1.58 210 eP 15 58.58 0.0
VZW 1.59 102 iP 15 57.91 -0.9
LTI 1.67 145 iP 15 57.83 -2.1
VLZ 1.68 98 iP 15 58.93 -1.0
REF 1.72 238 eP 15 59.92 -0.9
RDN 1.73 240 eP 15 59.79 -1.1
BRK 1.75 199 eP 16 00.01 -1.2
RSO 1.75 238 eP 16 00.57 -0.8
RS2 1.75 238 eP 16 00.63 -0.7
MTU 1.77 143 iP 15 59.77 -1.6
NCT 1.77 242 eP 16 00.72 -0.8
TOA 1.83 66 iPc 16 02.70 0.3
iS 16 26.80
KLU 1.84 86 iP 16 01.24 -1.2
HOM 2.00 209 eP 16 04.03 -0.7
RND 2.04 11 eP 16 04.81 -0.5
TRF 2.06 353 eP 16 05.23 -0.5
INE 2.12 232 eP 16 05.82 -0.8
INW 2.15 232 eP 16 06.19 -0.7
TZL 2.15 71 eP 16 06.46 -0.4
XLV 2.20 207 eP 16 08.27 0.7
SDG 2.28 59 iP 16 08.83 0.2
MCK 2.35 9 eP 16 10.09 0.3
OPT 2.47 226 eP 16 10.50 -1.0
PAX 2.54 50 eP 16 12.56 0.1
MID 2.62 138 e(P) 16 17.10 3.7
THY 2.73 41 eP 16 16.06 0.9
PDB 2.74 235 eP 16 13.63 -1.5
AUE 2.74 223 eP 16 14.47 -0.7
AUP 2.75 223 eP 16 15.76 0.3
AGU 2.76 223 eP 16 17.24 1.7
AUH 2.76 223 eP 16 16.93 1.4
BWN 2.77 3 eP 16 15.29 -0.3
AUI 2.78 223 eP 16 14.86 -0.8
GLB 2.85 87 eP 16 14.77 -2.1
SVW 2.85 266 iPc 16 15.70 -1.2
DDM 2.98 35 eP 16 19.41 0.7
SYI 3.11 206 eP 16 20.08 -0.4
WRH 3.16 13 eP 16 20.48 -0.6
CDD 3.17 220 eP 16 19.89 -1.4
NEA 3.19 5 eP 16 20.35 -1.2
MCNL 3.20 228 eP 16 20.85 -0.9
DJE 3.22 34 eP 16 22.33 0.3
HDA 3.26 22 eP 16 22.09 -0.5

TTA 3.31 300 eP 16 22.10 -1.2
CCB 3.36 14 eP 16 22.47 -1.5
TGL 3.43 98 eP 16 22.74 -2.3
DOT 3.46 47 eP 16 25.66 0.2
BALM 3.60 93 eP 16 24.87 -2.7
FBA 3.61 13 eP 16 26.10 -1.4
MDM 3.62 10 eP 16 26.47 -1.3
GLM 3.74 16 eP 16 28.37 -1.0
KDC 3.94 202 eP 16 31.10 -1.1
IMA 4.98 341 eP 16 45.90 -1.3
77 obs. associated

? NOV 22, 1990 06h 58m 56.15±9.01s
44.312 N ±14.6km 6.778 E ±60.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN).

PZZ 0.30 50 P 59 02.41 -0.1
S 59 08.97
ENR 0.47 100 P 59 05.55 -0.2
S 59 15.02
ROB 0.78 91 P 59 11.84 0.4
IMI 0.90 116 P 59 13.28 -0.1
S.D. = 0.4 on 4 of 4 obs.

& NOV 22, 1990 07h 18m 55.07s
60.958 N 151.016 W
DEPTH = 10.0km
4.0mb (4 obs.)
KENAI PENINSULA, ALASKA (14)
<AGS-P>. ML 4.2 (PMR). Felt (1V)
at Anchorage and Eagle River.
Also felt at Wasilla.

NKA 0.24 207 iP 19 02.67 2.5
SUA 0.52 14 iP 19 05.80 0.1
SPU 0.55 294 iP 19 05.78 -0.6
CGLM 0.60 307 iP 19 06.71 -0.5
SLKM 0.60 139 iP 19 06.33 -0.8
CRP 0.63 300 iP 19 07.45 -0.5
CKL 0.69 291 iP 19 07.97 -0.8
NCG 0.71 309 iP 19 08.50 -0.7
BGL 0.73 295 iP 19 08.91 -0.7
PMS 0.76 67 iP 19 09.24 -0.8
RDT 0.78 241 iP 19 09.52 -0.9
eS 19 19.91
PWA 0.89 38 iP 19 11.86 -0.2
NNL 0.93 189 iP 19 13.22 0.4
REF 0.95 241 iP 19 12.39 -1.0
RDN 0.97 243 iP 19 12.23 -1.3
RSO 0.99 241 iP 19 12.95 -1.0
RS2 0.99 241 iP 19 13.01 -1.0
NCT 1.02 248 iP 19 13.27 -1.2
SKT 1.06 347 iP 19 14.47 -0.5
PLRM 1.11 54 iP 19 14.32 -1.6
PMR 1.11 54 iPd 19 14.40 -1.5
SEW 1.16 137 eP 19 15.31 -1.3
BRK 1.20 177 eP 19 16.05 -1.4
GHO 1.30 50 iP 19 17.77 -1.4
KNK 1.32 69 iP 19 18.49 -1.0
HOM 1.34 194 iP 19 19.19 -0.6
INE 1.35 229 iP 19 18.61 -1.5
INW 1.38 230 iP 19 18.98 -1.4
CNPM 1.44 184 iP 19 19.87 -1.4
eS 19 38.66
CUT 1.50 13 eP 19 21.56 -0.4
XLV 1.55 193 eP 19 21.56 -1.2
eS 19 41.88
OPT 1.71 221 eP 19 24.93 -0.2
KNIM 1.73 109 iP 19 24.38 -0.9
LTI 1.82 119 eP 19 25.56 -1.0
GLI 1.92 91 iP 19 27.35 -0.7
eS 19 49.99
MTU 1.93 119 eP 19 27.38 -0.9
PDB 1.97 235 iP 19 27.96 -0.8
eS 19 51.53
SCM 1.98 62 eP 19 29.26 0.2
AUE 1.99 217 eP 19 28.75 -0.3
AUP 2.00 218 eP 19 28.65 -0.7
AGU 2.01 218 eP 19 29.08 -0.4
AUH 2.01 218 eP 19 29.61 0.2
AUI 2.03 218 eP 19 29.76 0.1
HUR 2.13 17 eP 19 31.71 0.6
eS 19 58.33
VZW 2.18 85 eP 19 31.26 -0.6
SVW 2.25 276 iPc 19 31.70 -1.2

	i	19 36.10	RS2	0.21 46 iP	54 18.81	0.7	74 obs. associated	
	iS	20 04.40	RSO	0.21 46 iP	54 18.74	0.6		
VLZ	2.29 84 iP	19 33.05 -0.3	RDN	0.24 37 iP	54 18.66	0.6	? NOV 22, 1990 08h 14m 46.61±3.94s	
CDD	2.43 214 eP	19 34.69 -0.7	REF	0.24 46 iP	54 18.73	0.5	44.005 N ±30.1km 11.815 E ±22.5km	
MCNL	2.44 225 eP	19 34.99 -0.5	NCT	0.25 14 iP	54 18.83	0.7	DEPTH = 10.0km (geophysicist)	
SYI	2.46 197 eP	19 37.04 1.3		iS	54 34.31		NORTHERN ITALY	(545)
KLU	2.52 75 eP	19 36.59 -0.2	INW	0.26 189 iP	54 18.92	0.8	SFI	0.09 162 Pd 14 49.30 0.2
TRF	2.53 7 eP	19 37.35 0.4		eS	54 34.37			eSg 14 52.40
TOA	2.59 62 ePd	19 38.60 0.8	INE	0.26 181 iP	54 18.90	0.7	PGD	0.15 208 P 14 49.60 -0.6
CVA	2.62 97 iP	19 36.69 -1.4		eS	54 34.73			eSg 14 52.30
RND	2.66 21 eP	19 39.45 0.7	RDT	0.41 51 iP	54 19.27	0.7	CRE	0.39 165 P 14 54.60 0.0
MID	2.80 121 eP	19 42.80 2.2		eS	54 35.40			eSg 15 00.70
MID	2.80 121 eP	19 39.21 -1.4	OPT	0.68 188 iP	54 20.97	-0.6	BDI	0.88 274 P 15 03.00 -0.6
SGAM	2.89 97 eP	19 39.94 -2.0		eS	54 38.17			eSg 15 16.00
TZL	2.89 65 eP	19 42.26 0.2	PDB	0.78 227 iP	54 21.06	-1.2	PII	0.98 254 P 15 06.00 0.9
MCK	2.95 18 eP	19 44.35 1.5		eS	54 38.06			eSg 15 18.00
SDG	3.04 56 eP	19 44.42 0.3	NNL	0.92 107 iP	54 23.18	-0.1	S.D. = 0.8 on 5 of 5 obs.	
TTA	3.08 312 iPc	19 43.70 -1.0	CKL	0.95 22 iP	54 22.87	-0.8	? NOV 22, 1990 09h 54m 35.32±1.82s	
RAGM	3.17 98 eP	19 43.93 -2.1		eS	54 42.06		40.242 N ±19.7km 29.274 E ±10.2km	
BWN	3.30 12 eP	19 48.58 0.7	HOM	0.97 132 eP	54 23.37	-0.3	DEPTH = 10.0km (geophysicist)	
KDC	3.31 194 eP	19 48.20 0.3		eS	54 41.58		TURKEY	(366)
PAX	3.31 50 eP	19 48.99 1.0	AUE	0.98 190 eP	54 23.07	-0.7	MD 1.9 (ISK).	
HMT	3.38 98 eP	19 46.64 -2.4	AUP	0.98 191 eP	54 23.32	-0.6	IZI	0.18 58 iPg 54 39.40 0.0
KAIM	3.43 105 eP	19 46.83 -2.8	AUH	0.98 192 eP	54 23.19	-0.7		iSg 54 43.70
GLB	3.52 79 iP	19 50.05 -0.9	NKA	0.99 64 iP	54 24.46	0.6	YLV	0.33 13 iPg 54 42.20 0.0
DDM	3.72 38 eP	19 56.03 2.2	SPU	0.99 29 iP	54 22.83	-1.2	KCT	0.70 271 ePn 54 49.00 -0.2
NEA	3.74 13 eP	19 53.82 -0.3	BGL	1.00 19 iP	54 23.55	-0.6	BNT	1.04 277 ePn 54 55.20 0.2
WRH	3.78 20 eP	19 54.82 0.3	AUI	1.01 191 eP	54 23.17	-0.8	S.D. = 0.3 on 4 of 4 obs.	
HDA	3.93 27 eP	19 57.38 0.6	CRP	1.05 25 iP	54 23.71	-0.9	% NOV 22, 1990 10h 32m 10.24±0.82s	
DJE	3.95 36 eP	19 58.84 1.8	XLV	1.10 142 iP	54 23.97	-0.9	39.132 N ±6.3km 27.632 E ±8.3km	
CCB	3.98 20 eP	19 57.54 0.1		eS	54 43.33		DEPTH = 10.0km (geophysicist)	
TGL	4.01 89 eP	19 55.82 -2.1	CGLM	1.12 27 iP	54 24.03	-1.1	TURKEY	(366)
WAX	4.05 94 eP	19 55.82 -2.6	NCG	1.17 22 iP	54 24.79	-0.9	MD 2.8 (ISK).	
MDM	4.21 16 iP	20 00.72 0.0	CNPM	1.21 130 iP	54 25.32	-0.6	IZM	0.79 202 iPg 32 25.50 -0.1
DOT	4.22 47 eP	20 01.50 0.6		eS	54 45.32			iSg 32 38.00
FBA	4.22 19 eP	20 00.60 -0.3	BRLK	1.22 116 iP	54 25.07	-1.0	DST	0.90 58 ePn 32 27.80 0.2
BALM	4.22 85 iP	19 59.17 -1.8	MCNL	1.31 210 iP	54 25.62	-1.2	EDC	1.23 8 ePn 32 33.00 0.0
GLM	4.37 21 eP	20 03.09 0.1	SLKM	1.42 81 iP	54 26.38	-1.6	EZN	1.23 305 ePn 32 33.30 0.3
WRG	4.54 98 eP	20 05.22 -0.1	CDD	1.43 192 iP	54 26.74	-1.3	BNT	1.24 10 iPn 32 33.20 -0.1
IMA	5.27 348 iPd	20 14.50 -1.3		iS	54 49.28		KGT	1.34 349 iPn 32 34.70 -0.2
DWY	6.20 55 P	20 27.40 -1.3	SVW	1.49 303 iP	54 26.76	-2.0	S.D. = 0.3 on 6 of 6 obs.	
HYT	6.60 85 P	20 32.20 -2.4	SUA	1.61 44 iP	54 28.83	-1.3	% NOV 22, 1990 10h 35m 32.96±0.80s	
ANM	7.51 305 eP	20 45.28 -1.9		eS	54 53.65		39.096 N ±6.6km 27.593 E ±8.3km	
SDN	7.54 226 eP	20 43.70 -3.8	SYI	1.75 169 eP	54 30.09	-1.4	DEPTH = 10.0km (geophysicist)	
SIT	8.98 109 eP	21 14.40 6.7	SEW	1.81 95 iP	54 30.92	-1.3	TURKEY	(366)
INK	10.48 38 P	21 24.00 -4.2	SKT	1.82 23 eP	54 31.23	-1.2	MD 2.4 (ISK).	
BRW	10.64 350 e(P)	21 27.10 -3.3	PMS	1.95 60 iP	54 32.09	-1.8	IZM	0.74 200 iPg 35 47.50 -0.1
YKA	17.17 69 eP	22 55.80 -0.5	PWA	2.04 48 eP	54 33.01	-1.9		iSg 35 59.00
	0.6s 5.50nm	3.9mb	PLRM	2.30 55 eP	54 35.31	-2.7	DST	0.95 57 ePn 35 51.30 0.2
MBC	18.75 23 eP	23 13.00 -2.7	GHO	2.48 52 iP	54 37.90	-2.5	EZN	1.22 307 ePn 35 55.80 0.1
NEW	23.07 108 eP	24 01.60 0.3	CUT	2.49 31 eP	54 38.96	-1.3	EDC	1.27 9 ePn 35 56.30 -0.2
	0.9s 6.58nm	4.2mb	KNK	2.50 62 iP	54 38.06	-2.5	BNT	1.28 11 iPn 35 56.90 0.1
TNP	31.12 122 eP	25 15.10 -0.7		eS	55 09.48		KCT	1.29 27 iPn 35 56.70 -0.2
	1.0s 3.33nm	4.2mb	KDC	2.60 173 eP	54 38.83	-2.8	S.D. = 0.2 on 6 of 6 obs.	
RSSD	32.29 100 P	25 25.40 -0.7	LTJ	2.61 94 iP	54 39.99	-1.9	% NOV 22, 1990 10h 41m 30.60±0.55s	
ALO	38.44 112 eP	26 25.00 6.5	KNIM	2.65 87 iP	54 39.62	-2.7	40.163 N ±4.8km 20.478 E ±4.7km	
	0.9s 1.26nm	3.6mb	MTU	2.72 95 eP	54 41.87	-1.4	DEPTH = 6.8 ±5.5 km	
97 obs. associated			GLI	2.99 77 eP	54 43.43	-3.3	GREECE-ALBANIA BORDER REGION	(392)
% NOV 22, 1990 07h 25m 41.55±0.81s			SCM	3.17 59 eP	54 46.71	-2.4	MD 3.2 (ATH).	
59.755 N ±6.7km 6.494 E ±9.0km			HIN	3.26 86 eP	54 48.50	-1.7	TPE	0.38 290 iPg 41 39.50 1.2
DEPTH = 10.0km (geophysicist)			VZW	3.28 74 eP	54 47.88	-2.6	KBN	0.53 29 iPg 41 41.00 -0.2
SOUTHERN NORWAY			VLZ	3.40 73 iP	54 49.76	-2.2	IGT	0.64 190 ePc 41 43.03 -0.4
MD 1.9 (BER).			TRF	3.40 21 eP	54 50.34	-1.9		eS 41 54.06
ODD1	0.17 23 eP	25 47.51 2.0	CVA	3.63 83 eP	54 52.86	-2.1	BERA	0.67 323 ePg 41 42.30 -1.8
BLS2	0.51 154 eP	25 52.75 0.8	KLU	3.68 68 iP	54 53.15	-2.5	KEK	0.69 230 iPbc 41 43.60 -0.8
	eS	25 59.61	RND	3.68 31 eP	54 54.15	-1.6		eS 41 55.00
KMY	0.84 230 iPc	25 57.47 -0.2	TOA	3.78 59 iP	54 55.48	-1.5	FNA	0.92 48 ePd 41 47.46 -1.1
ASK	0.98 319 eP	25 59.87 -0.2	SGAM	3.90 84 eP	54 55.75	-2.7		eS 42 00.62
	eS	26 12.38	TZL	4.08 62 eP	54 59.12	-1.8	OHR	0.98 14 iPg 41 49.60 0.1
HYA	1.42 354 iP	26 07.90 0.5	RAGM	4.16 85 eP	55 00.17	-1.9		iSg 42 02.80
	eSg	26 07.88	SDG	4.23 55 eP	55 00.80	-2.2	KZN	1.00 81 ePn 41 48.90 -1.0
SUE	1.56 327 eP	26 09.52 0.2	KAIM	4.34 91 eP	55 03.13	-1.2		eS 42 06.70
	eSg	26 29.67	HMT	4.37 86 eP	55 03.32	-1.5	TIR	1.27 339 ePn 41 55.50 1.0
NRA0	2.70 66 Pn	26 24.20 -1.6	PAX	4.49 50 eP	55 03.64	-2.8	LIT	1.54 92 iPd 41 59.42 0.8
	Lg	27 08.60	GLB	4.66 72 eP	55 06.49	-2.1		eS 42 21.50
MOL	2.87 10 eP	26 26.72 -1.4	NEA	4.65 22 eP	55 05.67	-2.8	GRG	1.67 61 ePc 41 59.92 -0.5
	eSg	27 09.59	WRH	4.76 27 eP	55 07.18	-2.8		
S.D. = 1.4 on 8 of 8 obs.			DDM	4.85 41 eP	55 12.13 0.9			
& NOV 22, 1990 07h 53m 58.92s			CCB	4.98 27 eP	55 10.00	-2.8		
60.320 N 153.055 W			HDA	4.99 32 eP	55 10.69	-2.3		
DEPTH = 150.1km			WAX	5.06 84 eP	55 11.98	-2.1		
SOUTHERN ALASKA			TGL	5.07 81 eP	55 12.29	-1.9		
<AGS-P>.			MDM	5.16 23 eP	55 12.76	-2.5		
			BALM	5.31 78 eP	55 15.48	-2.0		
			GLM	5.36 27 eP	55 15.44	-2.6		
			WRG	5.51 88 eP	55 18.95	-1.0		
			YAH	5.62 85 eP	55 19.89	-1.7		

22d 10h

AGG	1.83	128	iPd	42 24.74	1.5
			eS	42 04.26	
			eS	42 30.58	
SKO	1.95	22	iPn	42 06.00	1.6
VAY	1.97	53	ePn	42 07.00	2.3X
VLS	1.98	177	ePb	42 09.10	4.1X
KNT	2.09	61	ePd	42 06.38	-0.2
			eS	42 33.30	
SOH	2.29	72	ePd	42 09.20	-0.3
			iS	42 40.54	
PAIG	2.47	94	ePc	42 11.74	-0.2
			eS	42 42.46	

S.D. = 1.1 on 16 of 18 obs.

% NOV 22, 1990 10h 56m 33.90±0.79s
39.015 N ± 6.0km 27.133 E ± 8.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

Izm	0.63	171	iPg	56 46.50	0.0
			eSg	56 58.00	
EZN	1.02	323	iPn	56 53.30	0.1
DST	1.30	63	ePn	56 58.00	0.0
KGT	1.44	5	iPn	56 59.70	-0.3
EDC	1.44	23	ePn	57 00.00	-0.1
BNT	1.47	24	iPn	57 00.70	0.3
KCT	1.55	37	ePn	57 01.70	0.1

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

% NOV 22, 1990 11h 14m 54.79±0.87s
44.108 N ± 7.2km 8.094 E ± 5.8km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.0 (GEN).

FIN	0.13	39	P	14 58.00	0.0
			S	15 00.15	
IMI	0.25	217	P	15 00.15	0.1
			S	15 03.94	
ROB	0.25	319	P	15 00.25	0.2
			S	15 03.94	
ENR	0.50	284	P	15 04.97	0.0
			S	15 12.15	
PCP	0.54	37	P	15 05.69	-0.1
			S	15 13.48	
STV	0.57	284	P	15 06.20	-0.2
			S	15 14.81	
PZZ	0.82	299	P	15 10.71	0.0
			S	15 22.81	

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

? NOV 22, 1990 11h 19m 26.74±1.05s
39.090 N ± 9.3km 27.562 E ± 17.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.3 (ISK).

Izm	0.73	199	iPg	19 41.10	0.0
			eSg	19 53.10	
DST	0.97	58	ePn	19 45.30	0.0
EDC	1.28	10	ePn	19 51.00	0.6
BNT	1.29	12	iPn	19 50.10	-0.6

S.D. = 0.8 on 4 of 4 obs.

% NOV 22, 1990 12h 09m 52.82±1.01s
39.659 N ± 8.3km 29.421 E ± 8.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

DST	0.61	265	ePg	10 03.80	-1.4
			eSg	10 14.80	
Izi	0.68	3	ePg	10 04.60	-1.7
			eSg	10 15.10	
ALT	0.81	138	ePg	10 08.80	0.3
YLV	0.91	358	iPg	10 10.60	0.4
KCT	1.01	306	iPn	10 13.30	1.4
HRT	1.18	9	iPn	10 15.20	0.4
BNT	1.35	302	iPn	10 18.20	0.6

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

? NOV 22, 1990 12h 28m 01.30±4.06s
42.342 N ± 37.1km 24.094 E ± 11.8km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)

SRS	1.28	197	eP	28 25.40	0.3
			eS	28 49.54	
KNT	1.48	218	ePd	28 27.26	-0.7
			iS	28 51.74	
SOH	1.62	200	ePd	28 29.30	-0.7
			eS	28 57.10	
GRG	1.88	223	ePc	28 34.42	0.7
			eS	29 03.54	
ALN	2.06	134	ePd	28 36.30	0.0
LIT	2.54	209	iPc	28 43.46	0.1

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

* NOV 22, 1990 13h 18m 13.37±0.52s
52.700 S ± 11.8km 10.417 E ± 15.8km
DEPTH = 10.0km (geophysicist)

SOUTHWEST OF AFRICA (413)

BUL	35.43	30	eP	25 11.10	-0.5
SPA	37.49	180	iPc	25 28.20	-0.4
			1.0s	12.50nm	4.6mb
BCAO	57.33	10	ePd	28 14.30	10.5X
			0.6s	6.00nm	
LIC	60.15	342	P	28 23.72	0.4
			0.9s	9.50nm	4.9mb
TIC	60.56	342	P	28 26.54	0.4
			0.7s	18.00nm	5.3mb
CNCB	69.80	269	P	29 27.20	0.6
LPB	70.09	269	P	29 26.00	-2.1X
ZOBO	70.30	269	iPd	29 29.60	-0.1
			1.0s	30.50nm	5.4mb
ASPA	89.49	130	eP	31 13.00	1.0
			1.4s	5.80nm	4.6mb
WRA	92.89	129	P	31 28.00	0.3
			1.3s	1.00nm	4.1mb
SES	144.39	290	ePKP	37 49.00	-1.4
EDM	146.87	294	iPKPd	37 54.20	-0.2
MBC	149.73	339	ePKP	38 04.50	6.3X
			0.7s	4.00nm	
YKA	149.88	311	ePKP	38 02.90	4.1X
			0.6s	6.70nm	

S.D. = 0.8 on 10 of 14 obs.

NOV 22, 1990 13h 19m 26.77±0.82s
39.229 N ± 6.3km 20.363 E ± 8.0km
DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

MD 3.2 (ATH).

IGT	0.30	356	iPc	19 32.12	-1.0
			eS	19 38.36	
KEK	0.65	318	eP	19 39.70	-0.1
SRN	0.71	337	ePg	19 40.40	-0.3
VLS	1.06	170	eP	19 45.70	-1.1
KBN	1.44	14	ePn	19 47.00	-5.8X
BERA	1.51	348	ePn	19 55.50	1.7
KZN	1.53	45	eP	19 54.20	0.0
AGG	1.54	97	ePd	19 53.04	-1.3
			eS	20 14.04	
FNA	1.74	26	eP	19 57.10	-0.1
LIT	1.86	61	iPd	19 57.66	-1.3
			eS	20 22.04	
OHR	1.91	10	ePn	19 48.50	-11.2X
TIR	2.15	350	ePn	20 12.00	8.9X
GRG	2.33	42	ePd	20 05.64	-0.1
			iS	20 33.96	
ITM	2.39	148	eP	20 08.00	1.4
PAIG	2.66	74	ePc	20 12.80	2.4
KNT	2.74	44	ePd	20 11.64	0.1
SOH	2.79	54	ePd	20 12.00	-0.3
SKO	2.86	16	ePn	20 07.00	-6.3X

S.D. = 1.2 on 14 of 18 obs.

% NOV 22, 1990 13h 23m 25.37±0.91s
39.134 N ± 7.5km 27.616 E ± 12.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK).

Izm	0.79	201	ePg	23 41.00	0.3
			eSg	23 53.10	
DST	0.91	59	ePn	23 42.80	-0.1
BNT	1.24	11	ePn	23 49.00	0.5
KCT	1.25	27	iPn	23 49.10	0.5
KGT	1.34	350	ePn	23 49.60	-0.4

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

% NOV 22, 1990 13h 45m 52.07±0.60s
44.468 N ± 8.7km 4.482 E ± 7.1km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.7 (LDG).

LRG	1.69	126	Pg	46 21.70	-0.1
CAF	1.78	286	Pn	46 23.30	0.1
			Pg	46 27.60	
			Sg	46 51.20	
FRF	1.81	119	Pg	46 23.60	0.1
			Sn	46 42.60	
			Sg	46 47.40	
LMR	1.85	127	Pg	46 24.40	0.3
LPG	1.91	57	Pn	46 20.60	-4.7X
			Sg	46 48.80	
MAF	2.21	323	Pg	46 34.30	4.9X
			Sg	47 02.50	
SMF	2.22	349	Pn	46 29.00	-0.5
			Pg	46 34.00	
			Sg	47 01.40	
RJF	2.27	293	Pn	46 31.60	1.4
			Pg	46 37.30	
			Sg	47 06.50	
LPO	2.36	276	Pg	46 38.60	7.1X
			Sg	47 11.40	
BGF	2.39	332	Pg	46 36.70	4.9X
			Sg	47 08.10	
TCF	2.42	319	Pg	46 36.70	4.3X
			Sg	47 09.00	
AVF	2.45	342	Pn	46 32.40	-0.3
			Pg	46 38.20	
			Sg	47 08.30	
LBF	2.54	352	Pg	46 38.30	4.3X
			Sg	47 10.40	
SSF	2.68	346	Pg	46 41.90	5.9X
			Sg	47 16.10	
LFF	2.71	281	Pg	46 44.90	8.5X
			Sg	47 22.50	
LSF	2.74	312	Pg	46 43.30	6.4X
			Sg	47 21.00	
LOR	2.83	351	Pg	46 43.30	5.1X
			Sg	47 19.80	
EPF	3.33	246	Pn	46 44.20	-1.1
			Pg	46 55.60	
			Sg	47 42.60	

S.D. = 0.9 on 8 of 18 obs.

? NOV 22, 1990 14h 11m 00.45±0.89s
39.747 N ± 8.2km 21.744 E ± 8.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)

LIT	0.67	58	ePd	11 14.06	0.2
			eS	11 26.78	
AGG	0.85	148	ePc	11 16.78	-0.2
			eS	11 31.38	
FNA	1.07	345	iPd	11 20.46	-0.2
			eS	11 38.22	
IGT	1.11	259	ePd	11 21.46	0.2
			eS	11 37.58	

S.D. = 0.4 on 4 of 4 obs.

NOV 22, 1990 14h 25m 12.71±0.16s
10.130 S ± 3.1km 78.617 W ± 4.1km
DEPTH = 47.5km (14 depth phases)
5.2mb (44 obs.) 4.5Msz (4 obs.)

NEAR COAST OF PERU (115)

Felt (IV) at Chimbote.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 10S, 23C

Centroid Location:

Origin Time 14:25:17.6 0.8

Lat 9.87S 0.07 Lon 78.47W 0.13

Dep 48.0 FIX Half-duration 1.5

Moment Tensor; Scale 10**1

NNA	2.54	137	iPc	25	57.50	5.1X	TPC	56.55	323	eP	34	53.00	0.0	1.0s	16.00nm	5.3mb
	0.5s	492.96nm					PEC	57.07	322	P	34	57.30	0.6	89.49	41 eP	38 05.90 -0.2
		iS	26	12.00				0.8s	3.08nm			4.4mb	0.8s	8.05nm	5.1mb	
TUNG	8.66	1	eP	27	20.60	2.0	RVR	57.27	322	eP	34	57.00	-1.0	89.49	351 eP	38 05.00 -0.5
RECU	9.43	0	eP	27	31.20	1.8	CBM	57.57	9	P	35	00.10	0.2	0.9s	53.00nm	5.9mb
ANGL	9.73	6	eP	27	49.60	16.1X	GSC	57.83	323	eP	35	02.00	0.0	89.65	44 eP	38 06.20 -0.7
GGP	9.89	0	Pn	27	37.30	1.5	MWC	57.84	322	eP	35	02.00	-0.3	0.6s	6.30nm	5.1mb
OUR	9.89	1	eP	27	37.80	2.1	SBB	58.01	322	eP	35	03.00	-0.3	89.79	333 eP	38 06.20 -1.0
COTA	10.40	2	eP	27	45.00	2.3	CLC	58.65	323	eP	35	07.00	-0.7	89.83	40 eP	38 07.40 -0.3
PSO	11.32	7	eP	27	55.50	0.4	DAU	58.65	331	P	35	07.90	-0.1	0.8s	10.75nm	5.2mb
ZOBO	11.90	122	P	27	59.00	-4.0X	RSSD	58.72	339	P	35	07.90	-0.4	Z 20s	0.17um	4.5Msz
	1.0s	28.00nm			5.3mb		ABL	58.97	321	P	35	10.50	0.3	LDF	90.02 41 eP	38 08.10 -0.4
		i	28	05.70					pP	35	22.90	44km	0.8s	6.70nm	5.0mb	
LPB	12.05	123	P	28	08.00	3.1X	DUG	59.24	330	P	35	12.00	0.2	EKA	90.12 34 Pc	38 10.30 1.5
CNCB	12.29	124	P	28	08.00	-0.3		0.7s	12.66nm			5.2mb	1.1s	11.70nm	5.1mb	
		i	31	31.00			TNP	60.01	325	P	35	17.40	0.2	RJF	90.27 44 eP	38 08.80 -1.0
CCH	14.09	122	P	28	33.70	1.9		0.7s	20.00nm			5.4mb	0.6s	3.60nm	4.9mb	
BOG	15.34	17	eP	28	52.50	4.4X	FRI	60.70	323	eP	35	25.00	3.4X	Z 20s	0.22um	4.6Msz
		eS	31	42.00			PRJ	60.71	322	eP	35	22.60	0.7	FBA	90.50 337 eP	38 10.10 -0.3
BMG	17.96	18	eP	29	21.00	0.2	LLA	61.19	322	eP	35	24.90	-0.2	1.0s	43.75nm	5.8mb
SIV	18.05	111	iPd	29	20.80	-1.1	PRS	61.27	321	eP	35	25.90	0.3	CAF	90.56 45 eP	38 10.80 -0.4
UPA	19.01	357	iPd	29	34.30	0.8	CMB	61.79	323	eP	35	29.00	-0.2	0.8s	4.70nm	4.9mb
	1.0s	58.00nm			4.8mb		MHC	62.09	322	eP	35	31.70	0.5	MAF	91.20 43 eP	38 13.50 -0.6
Z	22s	0.56um			5.8Msz		GCC	62.10	322	eP	35	31.50	0.3	0.8s	5.35nm	5.0mb
RTCB	23.12	158	ePc	30	16.10	0.5	PCC	62.64	322	eP	35	28.50	-6.2X	BGF	91.47 43 eP	38 14.80 -0.5
CFA	23.44	157	ePd	30	19.50	0.9	BKS	62.79	322	eP	35	36.30	0.6	1.0s	9.00nm	5.1mb
ROCH	23.79	164	iP	30	22.60	0.3		0.8s	31.00nm			5.5mb	AVF	91.86 43 eP	38 16.40 -0.6	
PEL	24.04	163	iPd	30	25.50	1.0	BRK	62.80	322	eP	35	36.30	0.5	1.0s	4.00nm	4.8mb
	0.6s	5.33nm			4.2mb		ORV	63.45	324	eP	35	40.60	0.5	SMF	92.16 43 eP	38 17.80 -0.6
FCH	24.33	163	iP	30	28.30	0.7	MIN	64.04	325	eP	35	43.00	-1.1	1.0s	8.00nm	5.1mb
SAN	24.34	164	eP	30	28.00	0.6	WDC	64.73	324	eP	35	46.00	-2.4	LOR	92.30 43 eP	38 18.20 -0.9
MDZ	24.37	160	e(P)	30	28.60	0.9	LBFM	64.86	325	P	35	49.00	-0.5	1.0s	8.00nm	5.1mb
TACH	24.45	164	eP	30	28.60	0.1	SCH	65.46	7	eP	35	52.00	-0.9	Z 20s	0.13um	4.4Msz
PCH	24.54	164	eP	30	30.00	0.6	FHC	65.71	324	eP	35	55.70	1.0	IMA	93.21 337 eP	38 22.50 -0.6
LNV	24.62	166	eP	30	27.00	-3.0X	SES	66.57	338	eP	35	59.00	-1.1	1.1s	14.90nm	5.3mb
TRN	26.82	40	eP	30	50.83	0.2		0.7s	36.00nm			5.5mb	LPL	93.91 45 eP	38 26.80 0.0	
TBH	26.91	41	eP	30	55.73	4.2X			pP	36	13.00	49km	0.6s	0.35nm	4.0mb X	
PPD	28.72	118	eP	31	04.20	-3.7X	RUV	67.06	258	iP	36	04.50	0.8	LPG	93.92 45 eP	38 26.80 -0.1
SLB	29.51	37	eP	31	27.94	12.9X		1.2s	35.00nm			5.3mb	0.8s	5.35nm	5.0mb	
BAO	30.33	104	ePd	31	21.00	-1.5	VAH	67.29	258	iP	36	05.70	0.5	NB2	98.70 29 P	38 47.80 -0.2
PORP	30.40	23	P	31	23.00	0.2		1.2s	40.00nm			5.3mb	1.2s	9.00nm	5.2mb	
LRS	30.54	22	P	31	25.00	0.9	TPT	67.30	258	iP	36	05.90	0.6	BRG	99.39 40 e(P)	39 05.50 14.2X
BBL	30.62	34	eP	31	23.00	-1.8		1.2s	85.00nm			5.7mb	ASPA	133.75 223 iPKPc	44 25.80 -1.1	
SEG	31.33	33	eP	31	28.00	-3.0X	NEW	67.36	333	P	36	07.30	2.1	0.8s	10.40nm	
BMA	35.24	115	e(P)	32	03.90	-1.1		1.0s	20.00nm			5.1mb	WRA	135.89 227 PKP	44 28.00 -3.0X	
SQB1	37.18	92	eP	32	20.50	-1.0	FFC	67.54	346	iPd	36	05.20	-0.9	0.8s	20.00nm	
PDCR	38.77	97	eP	32	32.60	-2.2		0.7s	15.00nm			5.1mb	WB5	135.91 227 ePKP	44 30.80 -0.2	
		e	32	44.70	45km		PMO	67.57	258	iP	36	07.50	0.6	e	44 45.20	
PRM	44.11	356	P	33	17.70	-0.5		1.2s	55.00nm			5.5mb	MAT	137.59 314 (PKP)	44 33.00 -0.8	
JSC	44.23	357	P	33	18.50	-0.6	PNT	69.26	333	eP	36	17.00	0.2	KSH	143.05 34 PKP	44 44.00 0.4
		pP	33	31.00	46km			0.8s	19.00nm			5.1mb	WMO	144.39 17 iPKPd	44 44.00 -1.7	
PWLA	45.75	349	P	33	29.80	-1.4	EDM	69.70	339	iPc	36	18.10	-1.4	DL2	146.11 331 ePKP	44 48.00 -0.6
		pP	33	43.00	49km		FRB	74.06	5	eP	36	45.00	-0.1	BJI	147.44 339 ePKP	44 50.50 -0.2
TKL	45.80	354	P	33	30.90	-0.7	LIC	75.06	81	P	36	51.62	-0.3	HHC	148.11 345 ePKP	44 52.00 0.1
		pP	33	44.20	50km			Z 21s	0.43um			4.7Msz	BTO	148.71 347 ePKP	44 53.00 0.1	
RSCP	45.95	352	P	33	32.30	-0.6	TIC	75.16	80	P	36	52.32	-0.2	TIA	150.37 334 ePKP	44 55.50 0.1
	1.0s	184.38nm			6.0mb		KIC	75.37	81	P	36	53.48	-0.2	NDI	150.78 47 iPKPc	44 57.00 0.8
UYO	46.55	342	iPd	33	37.50	-0.1		0.7s	24.00nm			5.2mb	TIY	150.79 342 PKPc	45 01.30 5.2X	
OLY	46.98	346	P	33	40.60	-0.4	YKA	77.58	344	eP	37	03.70	-1.4	GTA	150.81 2 PKP	44 56.60 0.5
		pP	33	54.30	51km			0.6s	13.90nm			5.2mb	pPKP	45 01.50		
BLA	47.12	358	P	33	41.70	-0.4	KOGH	79.69	82	eP	37	17.50	-0.2	POO	152.08 69 iPKPd	45 05.50 7.0X
	0.7s	12.50nm			5.0mb		SPA	79.94	180	iPc	37	18.50	0.4	SSE	152.19 321 ePKP	44 58.00 -0.2
NA2	48.01	1	P	33	48.80	-0.2		1.0s	85.00nm			5.6mb	e	45 14.00		
		pP	34	01.60	47km		EVAL	82.11	50	iPd	37	31.50	1.6	LZH	154.06 355 ePKP	45 01.50 0.6
ELC	48.20	349	P	33	48.80	-1.7	EJIF	82.72	51	iPd	37	35.50	2.5	pPKP	45 09.50	
MEQ	48.51	338	iPc	33	52.40	-0.6	EPRU	83.06	51	iPd	37	36.50	1.7	e	45 22.50	
FVM	49.12	348	P	33	56.00	-1.6	EHOR	83.31	50	eP	37	36.80	0.7	sPKP	45 36.50	
		pP	34	09.50	50km		EPLA	83.41	47	iPd	37	37.60	1.0	XAN	155.22 345 PKP	45 02.80 0.5
PNJ	50.95	4	iP	34	11.40	0.0	ERUA	83.43	45	iPc	37	37.80	1.2	GKN	156.25 39 PKP	45 03.86 -0.3
TBR	51.17	4	P	34	12.90	-0.3	EMON	83.66	44	iPc	37	38.90	1.1	1.2s	52.00nm	
ALO	52.00	331	iPc	34	20.00	0.1	GUD	84.99	47	eP	37	46.20	1.6	GBA	156.32 79 PKPd	45 04.80 0.6
	1.0s	40.00nm			5.4mb		EVIA	85.62	50	eP	37	48.50	0.7	0.9s	3.80nm	
		iP	34	33.00	47km		ETOR	86.57	48	eP	37	53.50	1.1	WHN	156.37 331 ePKP	45 03.50 -0.4
ANMO	52.00	331	P	34	20.50	0.6	ECRI	86.75	46	eP	37	50.90	-2.3	e	45 31.50	
WVLY	52.34	0	P	34	21.90	-0.1	INK	87.23	342	ePc	37	54.50	-0.4	KKN	156.80 39 PKP	45 04.32 -0.6
HBVT	54.47	5	P	34	37.10	-0.5		1.0s	55.00nm			5.7mb	1.1s	31.00nm		
RSNY	54.54	4	P	34	37.60	-0.6	ECP	87.30	36	eP	38	10.60	15.1X	DMN	156.82 39 PKP	45 04.48 -0.5
	0.8s	24.57nm			5.3mb			1.0s	145.00nm				PKI	157.04 39 PKP	45 04.62 -0.7	
BNH	54.87	6	P	34	40.70	0.1	BTH	88.52	46	eP	38	03.50	1.9	1.1s	12.00nm	
GOL	55.45	335	P	34	44.40	-0.8			iP	38	17.00	45km	GUN	157.08 37 PKP	45 05.10 -0.3	
	1.0s	12.50nm			4.9mb		TOA	88.71	334	eP	38	02.40	0.2	1.0s	22.00nm	
		pP	34	57.40	46km		EPF	88.88	46	eP	38	02.40	-1.0	GYA	163.01 344 PKP	45 12.00 0.5
MIM	55.79	8	P	34	47.30	0.1		1.0s	8.00nm			5.0mb	e	46 01.00		
BAR	55.95	321	eP	34	49.00	0.4	LPF	89.27	41	eP	38	04.70	-0.3	CHG	171.05 15 ePKP	45 18.00 0.6
PLM	56.52	322	P	34	53.50	0.5	MFF	89.48	43	eP	38	05.80	-0.3	S.D. = 0.9 on 155 of 172 obs.		

22d 14h

& NOV 22, 1990 14h 44m 58.80s

48.683 N 121.918 W

DEPTH = 0.0km

WASHINGTON (29)

<SEA>. CL 2.6 (SEA).

MBW	0.10	7	Pd	45	01.26	0.4
RPW	0.36	131	Pc	45	05.92	0.0
			S	45	11.70	
JCW	0.49	181	Pd	45	07.91	-0.7
			S	45	15.27	
OHW	0.54	229	P	45	09.20	-0.5
MCW	0.61	270	Pd	45	09.93	-1.0
BLH	0.85	185	P	45	14.83	-1.0
HTW	0.89	173	P	45	15.16	-1.3
BLN	0.98	227	P	45	16.85	-1.4
PGW	0.97	208	P	45	17.25	-0.9
SPW	1.15	191	P	45	20.90	-0.3
NLW	1.21	119	P	45	21.42	-1.0
RMW	1.23	176	P	45	21.49	-1.1
GMW	1.28	207	P	45	21.58	-1.8
STW	1.28	246	P	45	21.07	-2.4
HDW	1.28	217	P	45	21.42	-2.2
OSD	1.47	235	P	45	25.09	-1.7
GSM	1.48	177	P	45	25.57	-1.3
ETW	1.51	135	P	45	26.71	-0.7
CBSW	1.53	124	P	45	27.28	-0.3
DHW2	1.59	115	P	45	28.42	0.0
WTV	1.64	126	P	45	29.39	0.3
			S	45	51.21	
OTR	1.73	251	P	45	30.74	0.5
FMW	1.76	175	P	45	29.85	-1.1
OWW	1.79	239	P	45	30.58	-0.7
REMR	1.87	178	P	45	31.88	-0.6
LON	1.94	178	P	45	32.59	-0.8
SAW	1.95	119	P	45	34.53	1.0
EBG	1.99	152	P	45	35.11	0.9
WPW	2.00	173	P	45	34.44	0.1
LMW	2.03	187	P	45	34.20	-0.6
NAC	2.08	159	P	45	36.56	1.1
APW	2.09	194	P	45	34.96	-0.6
GLK	2.13	174	P	45	36.47	0.2
VTG	2.16	142	P	45	39.11	2.6
KOSW	2.23	185	P	45	37.51	-0.1
CZM	2.28	190	P	45	37.90	-0.5
ERK	2.40	187	P	45	39.96	-0.1
RC1	2.42	135	P	45	42.88	2.6
SOSW	2.45	184	P	45	41.24	0.4
OD2	2.51	120	P	45	44.94	3.3
CRF	2.52	136	P	45	44.64	2.9
MDW	2.53	144	P	45	44.78	2.9
ASR	2.54	175	P	45	43.28	1.1
LVP	2.64	187	P	45	44.71	1.2
MTMW	2.67	184	P	45	44.84	0.9

45 abs. associated

NOV 22, 1990 15h 08m 10.61± 0.45s

39.206 N ± 4.0km 20.482 E ± 4.1km

DEPTH = 8.1 ± 2.6 km

GREECE-ALBANIA BORDER REGION (392)

IGT	0.35	341	iPc	08	16.48	-1.2
			eS	08	21.48	
KEK	0.73	314	eP	08	24.20	-1.0
SRN	0.77	331	iPg	08	25.30	-0.5
VLS	1.03	175	eP	08	30.20	-0.1
KBN	1.44	10	ePn	08	37.50	0.6
AGG	1.45	97	ePd	08	36.28	-0.9
			eS	08	57.88	
KZN	1.48	42	ePn	08	38.00	0.4
BERA	1.55	345	ePn	08	39.00	0.5
FNA	1.72	23	iPc	08	41.05	0.0
			eS	09	07.04	
LIT	1.79	59	iPd	08	41.05	-1.0
			eS	09	06.64	
OHR	1.92	7	iPn	08	45.00	1.1
	0.8s	117.00nm				
			iSn	09	13.00	
			Lg	09	19.50	
TIR	2.19	348	ePn	08	48.00	0.2
LCI	2.25	301	P	08	52.00	3.3X
			eSn	09	23.00	
GRG	2.29	40	ePd	08	49.48	0.3
			eS	09	21.92	
ITM	2.32	150	eP	08	49.70	0.0
PHP	2.48	359	ePn	08	51.80	-0.1
PAIG	2.57	73	ePc	08	53.72	0.5

VAY	2.65	36	eS	09	26.08	
KNT	2.69	43	ePd	08	53.60	-0.7
			eS	08	55.20	0.2
SOH	2.73	53	iPc	08	55.76	0.2
			eS	09	30.88	
SRS	3.05	50	ePd	08	59.60	-0.5
			eS	09	38.80	
VLI	3.15	141	eP	09	04.00	2.6X
ORI	3.23	287	P	08	57.00	-5.6X
TDS	3.24	279	P	09	06.00	3.3X
MGR	3.91	285	P	09	13.00	0.7

S.D. = 0.7 on 21 of 25 obs.

& NOV 22, 1990 15h 09m 54.10s

39.995 N 123.780 W

DEPTH = 5.0km (geophysicist)

NEAR COAST OF NORTHERN CALIF. (35)

<BRK>. ML 2.7 (BRK).

FHC	0.82	349	ePc	10	10.20	-0.3
WDC	1.11	58	ePc	10	14.00	-1.5
			iS	10	29.80	
LTCM	1.29	80	eP	10	17.30	-1.1
MIN	1.70	77	ePc	10	22.50	-2.3
ORV	1.81	103	e(P)	10	29.40	3.2
LBFM	1.97	46	eP	10	27.30	-1.4

6 obs. associated

% NOV 22, 1990 15h 35m 44.68± 1.39s

59.786 N ± 13.7km 8.992 E ± 9.5km

DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)

MD 2.0 (BER).

BLS2	1.16	246	eP	36	06.97	0.5
			eS	36	22.15	
ODD1	1.20	277	eP	36	06.31	-0.8
			eS	36	22.26	
NRA0	1.59	52	Pn	36	12.70	-0.2
			Lg	36	33.20	
HYA	1.96	316	eP	36	19.06	0.8
			eSg	36	44.22	
ASK	2.02	292	eP	36	18.81	-0.4
			eSg	36	46.96	
MOL	2.88	347	eP	36	31.45	0.0
			eSg	37	10.74	

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

NOV 22, 1990 15h 51m 20.42± 0.28s

46.950 N ± 2.9km 8.932 E ± 2.9km

DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)

ML 3.5 (KBA), 3.5 (LDG), 3.3

(FUR).

LLS	0.09	151	iPd	51	20.90	-2.3
SAX	0.41	43	ePc	51	28.40	-0.5
VDL	0.59	141	iPd	51	29.80	-2.8
ZLA	0.65	325	ePd	51	33.80	0.4
TMA	0.85	183	ePc	51	35.20	-1.7
SLE	0.87	340	ePd	51	37.90	0.7
OSS	0.87	107	ePd	51	34.90	-2.4
VAI	1.09	186	P	51	40.00	-0.9
			eSg	51	54.00	
FEL	1.12	326	ePn	51	42.29	0.8
MMK	1.12	217	ePc	51	40.20	-1.4
MDI	1.29	155	P	51	43.20	-1.1
			eSg	51	58.00	
OGA	1.44	93	ePn	51	45.80	-0.9
ORX	1.47	207	P	51	48.92	1.8
SOTA	1.58	79	iPnc	51	49.40	0.8
			iPg	51	50.40	
			iSn	52	10.50	
			iSg	52	13.00	
EMS	1.64	238	ePd	51	50.90	1.4
BSF	1.70	302	Pn	51	50.90	0.5
			Pg	51	53.50	
			Sg	52	15.50	
SAL	1.74	140	P	51	51.90	1.1
			eSn	52	09.70	
CDF	1.84	323	Pn	51	52.70	0.3
			Pg	51	56.40	
			Sn	52	14.90	
			Sg	52	20.50	
WATA	1.85	77	iPnc	51	54.00	1.5
			iPg	51	56.00	

			iSn	52	16.90	
			iSg	52	21.20	
LSD	1.94	220	P	51	55.50	1.6
			S	52	20.62	
FUR	2.00	52	ePn	51	54.70	0.1
HAU	2.05	302	Pn	51	55.80	0.5
			Sn	52	20.60	
			Sg	52	26.40	
CTI	2.08	115	P	51	57.30	1.4
			eSn	52	19.20	
LPL	2.09	228	Pn	51	58.30	2.1
			Sg	52	27.00	
LPG	2.10	227	Pn	51	58.30	2.0
			Sg	52	27.00	
RSP	2.14	214	P	51	58.37	1.6
			S	52	25.70	
BOB	2.21	170	P	51	59.50	1.7
PCP	2.42	187	P	52	02.58	1.8
KTD	2.44	347	ePn	52	09.87	8.9X
BNI	2.46	220	P	52	04.40	3.0X
			eSn	52	31.50	
RRL	2.52	217	P	52	04.83	2.5
CKI	2.57	190	P	52	04.30	1.6
			eSn	52	32.00	
TOD	2.66	358	ePn	52	03.01	-1.1
FVI	2.67	96	P	52	06.00	1.8
			eSn	52	37.00	
ROB	2.76	196	P	52	05.65	0.1
PZZ	2.76	208	P	52	02.99	-2.7
FIN	2.79	191	P	52	06.47	0.5
BHG	2.79	73	iPnd	52	06.50	0.5
ENR	2.92	202	P	52	06.00	-1.9
STV	2.93	203	P	52	07.23	-0.8
KBA	3.02	86	iPnc	52	10.40	1.1
			iPg	52	15.70	
			iSg	52	54.20	
RUP	3.02	336	ePn	52	10.54	1.3
BDI	3.12	157	P	52	11.20	0.6
			eSn	52	42.00	
SBF	3.26	199	Pn	52	13.80	1.1
TNS	3.29	355	ePn	52	12.80	-0.3
LBF	3.39	272	Pn	52	15.00	0.5
			Pg	52	25.60	
			Sn	52	51.30	
			Sg	53	06.30	
PII	3.42	160	P	52	16.00	1.2
			eSn	52	56.00	
WET	3.44	49	iPnc	52	13.40	-1.8
LOR	3.48	277	Pn	52	16.40	0.7
			Pg	52	27.80	
			Sn	52	54.20	
			Sg	53	10.00	
SMF	3.51	267	Pn	52	15.90	-0.2
			Pg	52	26.00	
			Sn	52	54.20	
			Sg	53	11.00	
VOY	3.55	103	e(Pn)	52	17.30	0.6
			e(Sn)	52	59.00	
TRI	3.57	109	eP	52	56.40	39.5X
PGD	3.65	146	P	52	18.90	0.6
SSF	3.71	274	Pn	52		

		e	52	33.00	
		e	52	37.50	
		e	53	17.50	
		e	53	42.50	
MAF	4.45	263 Pn	52	28.10	-1.4
		Sg	53	40.50	
ARV	4.46	139 P	52	30.00	0.3
TCF	4.68	264 Pn	52	31.50	-1.3
		Sn	53	22.50	
PRU	4.81	49 ePn	52	39.50	4.9X
		Pg	52	47.20	
		Sg	53	55.90	
CLL	5.12	30 ePn	52	31.00	-7.9X
		ePg	52	57.00	
		eSg	54	06.00	
BRG	5.13	38 ePn	52	36.00	-3.1X
		ePg	52	56.00	
		eSg	54	03.00	
LSF	5.15	265 Pn	52	38.00	-1.4
CAF	5.20	250 Pn	52	39.40	-0.7
MFF	6.25	270 Pn	52	53.70	-1.1
LDF	6.32	288 Pn	52	55.00	-0.9
FLN	6.59	289 Pn	52	58.20	-1.5
GRR	6.77	286 Pn	53	00.80	-1.4
LPF	6.84	283 Pn	53	01.60	-1.6
S.D. = 1.3 on 69 of 78 obs.					

* NOV 22, 1990 17h 11m 42.69±1.02s
 17.338 N ±19.7km 93.923 W ±10.1km
 DEPTH = 175.0 ± 11.6 km
 3.8mb (2 obs.)
 CHIAPAS, MEXICO (61)

SCX	1.37	116 iP	12	13.59	0.3
		iS	12	36.83	
EVV	1.76	310 iP	12	17.00	-0.1
		iS	12	44.15	
OXX	2.69	265 iP	12	27.37	-0.6
		iS	13	00.52	
TPX	2.90	146 (P)	13	01.00	30.6X
LVM	3.38	315 iP	12	35.50	-0.8
		iS	13	17.74	
IISM	3.67	297 iP	12	40.00	0.0
		iS	13	22.50	
IIT	4.49	293 iP	12	51.48	0.6
		(S)	13	45.00	
PPM	4.79	292 iP	12	55.50	0.4
		iS	13	52.30	
IIA	4.85	293 iP	12	56.00	0.7
III	5.38	282 iP	13	02.00	-0.5
ACX	5.69	266 (P)	13	54.50	48.0X
ALQ	20.80	330 eP	16	13.00	1.2
	0.8s	1.87nm			3.6mb
ZOBO	41.97	141 P	19	47.00	28.2X
YKA	47.37	347 eP	19	59.40	-1.2
	0.6s	2.60nm			4.0mb
S.D. = 0.9 on 11 of 14 obs.					

? NOV 22, 1990 17h 31m 02.36±2.25s
 3.807 N ±21.5km 95.257 E ±14.0km
 DEPTH = 57.2 ± 26.2 km
 4.8mb (6 obs.)
 OFF W COAST OF NORTHERN SUMATERA(705)

TSI	3.31	95 e(P)	31	52.10	-0.8
		e(S)	32	45.80	
CHG	15.34	13 eP	34	39.40	2.5
KOD	18.77	291 eP	35	20.30	0.3
GBA	20.11	300 P	35	35.00	0.8
HYB	21.24	311 iPd	35	46.30	0.5
	1.0s	25.00nm			4.5mb
GVA	25.03	25 P	36	26.00	3.1X
PKI	25.43	339 P	36	25.74	-1.1
	0.4s	5.00nm			4.3mb
DMN	25.58	339 P	36	27.28	-0.8
GUN	25.58	340 P	36	28.14	-0.2
KKN	25.68	339 P	36	27.94	-1.1
LSA	26.05	352 iP	36	30.20	-2.5
GKN	26.10	338 P	36	32.02	-0.9
	0.6s	30.00nm			5.0mb
CD2	28.13	16 P	36	48.00	-3.1X
XAN	32.66	21 P	37	28.00	-3.2X
TIY	37.23	23 eP	38	12.00	1.8
ASPA	46.51	128 eP	39	30.70	4.6X
	0.9s	2.40nm			4.1mb
CN2	47.93	29 eP	39	40.00	3.0X
FLN	90.95	319 eP	44	02.10	0.7

0.8s 9.40nm 5.2mb
 LPF 91.41 318 eP 44 04.50 1.0
 0.6s 5.40nm 5.1mb
 S.D. = 1.5 on 14 of 19 obs.

% NOV 22, 1990 18h 05m 52.00±0.85s
 43.931 N ±8.2km 11.730 E ±7.5km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

PGD	0.06	186 Pd	05	53.90	-0.5
		iSg	05	56.00	
SFI	0.09	97 Pd	05	53.50	-1.0
		eSg	05	55.50	
CRE	0.34	152 P	05	59.00	-0.1
		iSg	06	07.00	
PII	0.90	257 P	06	09.50	0.3
		eSg	06	21.00	
ARV	0.98	116 P	06	12.00	1.4
		eSg	06	26.00	
CTI	2.12	359 P	06	28.00	0.0
		eSg	06	50.50	
S.D. = 1.1 on 6 of 6 obs.					

% NOV 22, 1990 18h 18m 27.35±1.73s
 43.943 N ±18.1km 11.703 E ±8.6km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

PGD	0.07	169 Pd	18	29.30	-0.6
		iSg	18	32.80	
SFI	0.11	101 Pd	18	29.20	-1.0
		eSg	18	32.10	
CRE	0.36	150 P	18	34.50	-0.3
		eSg	18	42.00	
PII	0.88	256 P	18	44.50	0.2
		eSg	18	57.00	
ARV	1.00	116 P	18	48.00	1.6
		eSg	19	01.50	
S.D. = 1.4 on 5 of 5 obs.					

% NOV 22, 1990 19h 08m 43.08±0.74s
 40.300 N ±8.4km 27.412 E ±5.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.2 (ISK).

KGT	0.17	331 iPg	08	47.00	0.0
EDC	0.35	82 ePg	08	50.80	0.5
		eSg	08	56.30	
BNT	0.39	82 iPg	08	50.80	-0.3
		eSg	08	57.30	
KCT	0.72	94 ePg	08	57.00	-0.3
EZN	0.96	241 ePn	09	01.30	0.0
DST	1.16	126 ePn	09	05.00	0.1
IZI	1.58	88 ePn	09	13.00	1.8X
S.D. = 0.4 on 6 of 7 obs.					

? NOV 22, 1990 19h 10m 27.15±1.93s
 40.737 N ±11.9km 27.447 E ±13.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.1 (ISK).

KGT	0.30	201 iPg	10	33.50	0.0
		iSg	10	37.50	
BNT	0.52	136 iPg	10	37.60	-0.2
KCT	0.85	125 ePg	10	43.70	0.2
CTT	0.85	61 iPg	10	43.50	0.0
		iSg	10	55.50	
S.D. = 0.2 on 4 of 4 obs.					

* NOV 22, 1990 19h 15m 15.83±1.21s
 44.413 N ±13.1km 148.996 E ±8.3km
 DEPTH = 66.1 ± 11.9 km
 4.6mb (9 obs.)

KURIL ISLANDS (221)

KUSJ	3.37	249 P	16	05.90	-1.3
		S	16	41.60	
ASAJ	4.57	269 eP	16	26.00	1.9
HOOJ	4.63	246 P	16	25.90	1.1
		S	17	17.90	
MRRJ	6.10	254 P	16	46.10	0.7
		eS	17	54.00	
OFUJ	7.64	228 eP	17	05.70	-1.1
MAT	11.36	230 eP	17	55.00	-2.6

MDJ	13.85	278 eP	20	04.00	-4.8X
CN2	16.92	276 eP	19	10.00	0.5
SNY	18.71	271 eP	19	31.60	0.1
BJI	24.60	271 eP	20	32.00	1.1
TIY	28.20	269 eP	21	05.20	1.1
BTO	28.80	276 eP	21	10.00	0.4
XAN	32.44	265 eP	21	41.20	-0.4
TTA	36.08	40 eP	22	12.30	-0.3
SVW	36.16	43 eP	22	13.90	0.6
GTA	36.49	280 P	22	16.60	0.2
BRW	37.33	26 eP	22	21.30	-1.5
IMA	37.38	34 eP	22	23.10	-0.5
	0.9s	9.20nm			4.7mb
CD2	37.79	265 P	22	27.00	-0.3
FBA	39.77	37 eP	22	43.30	0.0
GUN	52.30	274 P	24	23.06	-0.2
KKN	52.80	274 P	24	26.78	0.0
	0.7s	9.00nm			4.9mb
PKI	52.84	274 P	24	26.52	-0.6
DMN	53.03	274 P	24	28.48	0.0
	0.5s	8.00nm			5.0mb
GKN	53.13	275 P	24	28.54	-0.6
YKA	54.51	35 eP	24	37.20	-1.4
	0.7s	3.00nm			4.4mb
WRA	65.43	195 P	25	55.00	1.3
	0.7s	2.50nm			4.3mb
TNP	66.98	59 eP	26	04.80	1.0
	1.0s	9.50nm			4.7mb
GBA	67.45	267 Pd	26	20.00	13.3X
	0.6s	1.40nm			
DAU	69.04	54 eP	26	17.80	1.1
NB2	69.46	340 P	26	15.80	-2.8
	0.6s	0.90nm			3.9mb
RSSD	70.54	47 eP	26	26.00	0.3
	0.8s	14.42nm			5.0mb
PV09	71.54	54 eP	26	33.10	1.2
ALQ	75.54	55 eP	26	55.80	0.7
	0.9s	2.10nm			4.1mb
S.D. = 1.2 on 32 of 34 obs.					

NOV 22, 1990 19h 21m 41.73±0.68s
 38.708 N ±6.2km 24.492 E ±7.0km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

ML 3.1 (ATH).

ATH	0.95	220 eP	21	58.20	-1.7
		eS	22	10.00	
PAIG	1.37	333 ePd	22	06.38	-0.4
		eS	22	27.14	
AGG	1.72	281 ePd	22	13.93	2.1
		eS	22	38.38	
EZN	1.81	51 ePn	22	13.00	-0.1
APE	1.83	153 eP	22	14.60	1.1
LIT	2.08	313 ePd	22	17.38	0.2
		eS	22	45.66	
IZM	2.19	97 ePn	22	24.00	5.2X
SOH	2.29	338 ePc	22	19.74	-0.4
		eS	22	51.46	
VLI	2.34	212 eP	22	16.60	-4.2X
SRS	2.50	344 ePc	22	21.82	-1.3
		eS	22	51.30	
ITM	2.54	234 eP	22	22.70	-0.9
KNT	2.74	334 ePd	22	26.74	0.2
GRG	2.76	325 ePd	22	26.34	-0.5
		eS	23	00.18	
KGT	2.78	50 iPn	22	27.50	0.4
VAY	3.00	331 ePn	22	40.00	9.9X
IGT	3.34	286 ePc	22	36.50	1.5
OHR	3.72	311 ePn	23	01.50	21.0X
SKO	4.01	325 ePn	22	52.00	7.5X
S.D. = 1.2 on 13 of 18 obs.					

% NOV 22, 1990 19h 40m 54.40±0.77s
 44.059 N ±6.5km 11.763 E ±6.5km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

SFI	0.15	155 Pd	40	58.00	0.1
		eSg	41	01.20	
PGD	0.19	189 P	40	58.20	-0.4
		eSg	41	00.40	
CRE	0.45	162 Pc	41	03.20	-0.4
		eSg	41	08.90	
BDI	0.84	271 P	41	11.30	0.6
		eSg	41	22.60	

22d 19h

PII 0.96 250 P 41 12.60 0.0
eSg 41 25.00
ARV 1.02 123 P 41 14.50 0.8
eSg 41 29.00
CTI 1.99 358 P 41 28.00 -0.6
S.D. = 0.6 on 7 of 7 obs.

NOV 22, 1990 19h 41m 20.12±0.51s
44.029 N ± 5.0km 11.720 E ± 5.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.14 139 Pd 41 23.30 -0.2
eSg 41 25.70
PGD 0.15 180 P 41 22.20 -1.6
eSg 41 24.90
CRE 0.43 157 P 41 28.50 -0.5
eSg 41 34.90
BDI 0.81 273 P 41 35.20 -0.7
eSg 41 46.00
PII 0.92 251 P 41 36.80 -0.8
eSn 41 48.70
ARV 1.03 121 P 41 40.90 1.3
eSg 41 54.00
MNS 1.79 157 P 41 52.00 0.7
CTI 2.02 359 P 41 55.00 0.3
eSn 42 22.00
TRI 2.22 40 eP 42 23.30 25.8X
PGF 2.48 234 Pn 42 02.90 1.7
VOY 2.53 37 e(Pn) 41 59.70 -2.2
eSn 42 39.60
FVI 2.67 16 P 42 05.00 1.1
SBF 3.10 268 Pn 42 10.50 0.5
SOTA 3.21 354 iPnc 42 13.40 1.7
iPg 42 25.00
iSn 42 51.90
FRF 3.70 264 Pn 42 19.10 0.5
LPG 3.83 294 Pn 42 21.70 1.0
LPL 3.85 294 Pn 42 22.20 1.3
BSF 5.13 320 Pn 42 39.70 0.9
Sn 43 36.60
CDF 5.36 326 Pn 42 40.30 -1.8
HAU 5.46 319 Pn 42 41.70 -1.8
LBF 6.19 301 Pn 42 54.00 0.2
Sn 44 02.00
LOR 6.39 303 Pn 42 55.20 -1.4
Sn 44 06.20

S.D. = 1.3 on 21 of 22 obs.

? NOV 22, 1990 20h 26m 26.63±8.11s
51.438 N ± 57.3km 16.107 E ± 39.1km
DEPTH = 10.0km (geophysicist)

POLAND (548)
ML 3.1 (GRF).

KSP 0.61 169 iP 26 38.80 -0.1
iS 26 48.50
BRG 1.47 248 iPg 26 53.60 0.4
iSg 27 14.00
PRU 1.76 215 Pn 26 57.00 -0.3
Pg 27 00.00
Sn 27 20.50
Sg 27 23.70
CLL 1.95 267 iPn 26 58.30 -1.8X
eSg 27 27.00
KHC 2.82 216 Pn 27 13.00 0.4
Pg 27 18.80
Sn 27 37.20
Sg 27 49.00
WET 3.09 223 ePn 27 16.50 0.1
GRF 3.57 243 ePn 27 22.60 -0.6
ePg 27 26.30
eSg 28 20.30

S.D. = 0.5 on 6 of 7 obs.

NOV 22, 1990 20h 49m 06.74±0.11s
5.575 S ± 2.8km 150.993 E ± 3.3km
DEPTH = 28.7km (geophysicist)
6.0mb (44 obs.) 6.0MsZ (30 obs.)

NEW BRITAIN REGION (192)
Ms 6.3 (BRK), 6.2 (PAS). Two
events about 2.5 seconds apart.

Depth from broadband
displacement seismograms, based
on first event.

FAULT PLANE SOLUTION: P-Waves

NP1:Strike= 67 Dip=55 Slip= 90

NP2: 247 35 90
Principal Axes:
T Plg=80 Azm=337
P 10 157

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

RADIATED ENERGY
No. of sta: 7 Focal mech. M
Energy 1.4±0.5*10**13 Nm

MOMENT TENSOR SOLUTION
Dep 41 No. of sta: 16
Moment Tensor: Scale 10**18 Nm

Mrr= 3.21 Mtt=-2.66
Mff=-0.55 Mrt= 0.70
Mrf=-0.52 Mtf=-0.67

Principal axes:
T Val= 3.38 Plg=78 Azm= 49
N -0.48 10 256
P -2.91 5 165

Best Double Couple:Mo=3.1*10**18
NP1:Strike=244 Dip=41 Slip= 74

NP2: 85 51 103
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 16S, 42C M.W.: 10S, 23C

Centroid Location:
Origin Time 20:49:18.5 0.2

Lat 5.71S 0.02 Lon 150.95E 0.02
Dep 45.5 0.7 Half-duration 5.0

Moment Tensor: Scale 10**18 Nm
Mrr= 2.56 0.04 Mtt=-2.47 0.03

Mff=-0.09 0.03 Mrt= 1.01 0.06
Mrf=-0.21 0.07 Mtf=-0.84 0.02

Principal Axes:
T Val= 2.80 Plg=76 Azm= 33
N 0.09 10 256
P -2.89 9 164

Best Double Couple:Mo=2.8*10**18
NP1:Strike=241 Dip=37 Slip= 72

NP2: 83 55 103

LAT 4.11 255 eP 50 14.00 4.8X
YYYY 5.04 262 eP 50 32.00 9.4X
eS 51 40.00

PMG 5.38 225 iPd 50 30.50 3.2X
eS 51 31.00

MNDI 7.32 265 eP 51 25.00 30.3X
HNR 9.67 114 ePc 51 30.00 2.9X
eS 53 10.00

JAY 10.70 286 ePc 51 47.70 6.4X
CTA 15.14 197 iPd- 52 41.30 0.8
2.4s 1600.00nm 5.9mb

DIS 18.55 216 ePd 53 25.00 1.6
GUA 19.93 342 eP 53 42.00 2.7X
1.3s 5892.31nm 6.7mb

PVC 20.80 127 iPc 53 53.00 4.6X
MTN 20.88 248 eP 53 49.90 0.6
RMO 20.91 186 iPd 53 48.50 -1.0
e 01 29.00

QLP 21.87 196 eP 54 00.50 1.4
DZM 22.19 139 iPd 54 02.80 0.3
iS 58 07.50

KNA 24.04 243 eP 54 21.80 1.3
0.5s 233.00nm 6.0mb
eS 58 31.00

ASPA 24.38 221 iPc 54 25.10 1.3
0.6s 256.60nm 6.0mb
Z 21s 38.90um 5.9MsZ

iS 58 40.10
iPcS 01 56.70
iScS 05 26.30

COO 24.89 178 eP 54 29.00 0.4
i 54 31.00 7kmX
e 55 04.00

e 01 43.00
CMS 26.23 190 eP 54 42.70 1.6
e 54 54.00 44kmX
e 01 46.00

MNI 27.03 284 eP 54 50.50 1.8
KUPT 27.50 259 ePd 54 46.00 -6.9X
1.5s 804.50nm 6.2mb

RIV 28.11 180 eP 55 08.00 9.8X

Z 20s 4.11um 5.0MsZ
eS 59 40.00

DAV 28.31 296 eP 55 01.00 0.7
BWA 28.81 184 eP 55 05.50 0.9
i 55 16.30 40kmX

iScP 01 54.20
SGE 28.91 117 eP 55 14.10 8.4X
SVA 29.57 117 eP 55 27.00 15.4X

CNB 29.63 183 eP 55 10.00 -2.0
e 55 25.00 61kmX
CAN 29.66 183 eP 55 10.20 -2.0

i 55 18.80 30kmX
e 58 44.30
eScP 01 53.30

ADE 31.37 200 iPc+ 55 27.20 -0.2
0.7s 68.49nm 5.6mb

TOO 32.24 188 iPc 55 35.50 0.6
i 55 46.80 42kmX
e 02 05.00

BFD 32.39 193 eP 55 38.00 1.8
FORR 33.09 218 eP 55 41.50 -0.8
0.4s 98.00nm 6.1mb

MBL 33.94 240 iPc 55 49.60 -0.3
0.8s 317.00nm 6.3mb

OCP 35.82 304 eP 56 03.50 -2.5X
BAG 37.18 306 eP 56 18.00 0.4
eS 01 56.10

MEKA 37.36 232 iPc 56 19.20 0.3
COOL 37.68 224 iPd 56 27.80 6.3X

TRT 38.15 265 ePc 56 28.50 2.9X
KLB 40.47 226 iPc 56 44.30 -0.4
MRWA 40.57 230 iPd 56 45.60 0.0

0.5s 69.00nm 5.6mb
BAL 40.72 228 iPc 56 46.60 -0.2

PUZ 40.75 146 P 56 47.00 0.1
THZ 40.99 155 eP 56 50.00 1.1

NOZ 41.02 147 P 56 50.00 0.9
TCW 41.14 153 P 56 50.10 0.1

MNG 41.23 151 P 56 50.50 -0.3
e 57 04.70 54kmX

KAGJ 41.29 333 P 56 54.10 2.7X
CAW 41.42 152 eP 56 53.20 0.9

WEL 41.42 153 eP 56 55.00 2.7X
eP 57 04.20 31kmX
i 57 16.00

PP 58 42.00
S 03 04.00
SS 06 24.00

WDW 41.51 152 P 56 54.20 1.1
NWA0 41.57 225 iPd 56 33.20 -20.5X

LTZ 41.57 156 P 56 55.10 1.5
e 57 06.30 40kmX

MTW 41.66 152 P 56 53.50 -0.8
e 57 06.00 46kmX

MOW 41.75 152 eP 56 54.80 -0.3
TATO 41.78 318 iPc 56 58.68 3.2X
ic 57 01.00

ePc 57 07.45 29kmX
eSpd 57 11.26
ed 57 16.72

MUN 41.79 227 iPc 56 55.50 0.0
1.0s 440.00nm 6.1mb

Z 20s 21.30um 6.0MsZ
N 20s 8.80um
E 20s 11.80um

KHZ 41.79 155 eP 56 54.80 -0.6
e 57 06.50 42kmX

BLW 41.81 152 P 56 55.40 -0.2
ANP 41.90 318 iPc 56 58.00 1.4
eS 03 10.00

WKYJ 42.17 341 P 56 59.60 0.9
KUMJ 42.47 334 P 57 03.40 2.3

TKSJ 42.48 339 P 57 02.80 1.7
MOZ 42.50 157 eP 57 03.60 2.5X
e 57 12.40 30kmX

IIDJ 42.65 344 P 57 05.10 2.6X
KAKJ 42.78 347 P 57 04.00 0.5

CHJJ 42.91 346 P 57 04.20 -0.4
SHK 43.48 338 eP 57 10.50 1.3

MAJO 43.57 345 ePc 57 09.92 -0.1
ec 57 12.24
ePd 57 17.54 25kmX

esPd 57 22.50
id 57 28.30

MAT 43.57 345 eP 57 10.00 0.0
0.8s 37.31nm 5.2mb

Z 18s 13.75um 5.9MsZ

		eS	03 45.00					eS	06 00.00				epPd	59 26.12	26kmX	
MTMJ	43.72	345 P	57 11.70	0.4		LOE	53.74	296 eP	58 29.80	0.8			esPd	59 31.25		
SHNJ	43.73	336 P	57 13.10	1.8		CN2	54.29	337 Pc	58 32.00	-0.6			PP	01 37.00		
OZH	43.74	315 iPc	57 13.60	2.1			7.0s	1300.00nm		6.1mb X			eS	07 53.25		
	0.8s	500.00nm		6.4mb		Z	28s	21.50um		6.1MszX			SS	11 31.00		
E	31s	24.20um				N	19s	6.00um			PMO	60.69	104 iP	59 18.90	0.7	
		S	03 38.00			E	19s	1.60um				1.1s	150.00nm		6.0mb	
		sS	04 00.00					PcP	59 35.00		VAH	60.96	104 iP	59 20.20	0.2	
YONJ	43.78	339 eP	57 12.30	0.6				ScP	03 29.00			1.1s	90.00nm		5.8mb	
NIJJ	44.04	346 P	57 13.30	-0.4				S	06 09.00		TPT	60.96	104 iP	59 20.60	0.5	
OFUJ	45.26	350 eP	57 24.20	0.7				eSS	09 53.00			1.1s	120.00nm		5.9mb	
HKC	45.46	309 iP	57 28.70	3.4X		NST	54.60	294 eP	58 37.00	1.7	HIA	61.02	337 ePc	59 19.82	-0.2	
SSE	46.27	324 Pd	57 33.00	1.4		BJI	55.56	328 iPc	58 42.89	1.0		esPd	59 33.06		78kmX	
	7.0s	1540.00nm		6.1mb X			6.0s	1360.00nm		6.2mb X		ed	59 40.01			
Z	22s	15.70um		5.9MszX		Z	28s	13.80um		5.9MszX		iPP	01 29.25			
N	20s	9.90um				N	20s	6.84um				iS	07 56.45			
E	20s	5.20um						ec	58 45.54		RUV	61.19	104 iP	59 22.10	0.4	
		pP	57 46.00	48kmX				epPd	58 50.67	25kmX		1.1s	135.00nm		6.0mb	
		sP	57 55.00					isPd	58 55.80		SMY	61.31	16 P	59 30.00	8.2X	
		ePcP	59 06.00					id	59 02.09		Z	20s	6.00um		5.7Msz	
		PP	59 22.00					ePP	00 44.00		DRV	61.46	185 eP	59 22.60	-0.1	
		PcS	03 00.00			KMI	55.94	305 iPc	58 46.53	1.3	GTA	65.02	318 iPc	59 47.30	0.5	
		S	04 16.00				6.0s	900.00nm		6.0mb X		Z	20s	9.00um		6.0Msz
		sS	04 40.00				Z	30s	19.60um	6.0MszX		E	19s	6.60um		
GZH	46.52	309 Pc	57 36.60	2.9X			N	22s	6.00um				PP	02 10.00		
Z	22s	22.70um		6.1Msz			E	22s	3.50um				S	08 30.00		
		S	57 58.00					ec	58 49.01				SS	12 42.00		
QIZ	47.33	302 eP	57 40.00	-0.2				epPd	58 53.98	24kmX	SHL	65.16	301 iP	59 47.80	-0.2	
		S	58 00.00					isPd	58 58.78				iS	08 26.00		
N	27s	18.10um				XAN	55.96	318 Pc	58 45.50	0.5	LSA	67.20	305 P	00 01.00	-0.4	
E	26s	25.00um					1.0s	100.00nm		5.8mb		N	17s	2.00um		
		sP	59 34.00	654kmX			N	19s	6.70um		GUN	70.99	302 P	00 24.52	-0.1	
		pP	57 50.00	3.1X			E	18s	4.10um		PKI	71.29	301 P	00 25.98	-0.4	
HOIJ	48.24	352 eP	57 50.00	3.1X				pP	58 59.00	49kmX	KKN	71.46	302 P	00 26.94	-0.4	
NJ2	48.34	323 Pc	57 50.00	2.1				PP	00 47.00			1.0s	154.00nm		6.0mb	
	6.0s	1800.00nm		6.3mb X				S	06 27.00		DMN	71.56	301 P	00 27.84	-0.1	
Z	26s	7.30um		5.5MszX				PP	00 47.00			0.9s	210.00nm		6.2mb	
N	20s	7.90um				TIY	56.05	323 iPd	58 46.00	0.4	GKN	72.07	302 P	00 29.80	-1.1	
E	20s	5.00um					7.0s	1500.00nm		6.1mb X	SDN	72.69	27 e(P)	00 32.10	-1.6	
		sP	58 05.00				Z	22s	12.00um	5.9Msz	SBA	72.71	177 P	00 35.40	1.9	
MRRJ	48.62	350 eP	57 49.60	-0.2			N	20s	7.70um				iS	10 02.20		
KUSJ	48.78	354 eP	57 54.30	3.3X				pP	58 59.00	46kmX	RKT	73.16	112 iP	00 37.30	0.2	
ASAJ	50.03	352 eP	58 02.10	1.4				S	06 30.00			1.4s	260.00nm		6.1mb	
WHN	50.19	318 Pc	58 04.50	2.4		BDT	56.13	295 eP	58 49.50	3.1X	KOD	74.88	282 eP	00 48.00	0.4	
	6.0s	1500.00nm		6.2mb X		CHG	56.71	297 iPc	58 50.90	0.3			eS	10 19.00		
Z	24s	8.20um		5.7MszX			1.1s	34.81nm		5.3mb	HYB	75.05	290 iPd	00 48.00	-0.2	
N	18s	3.80um						eS	06 48.00			1.0s	35.00nm		5.3mb	
E	22s	13.10um				CHTO	56.71	297 iPc	58 50.45	-0.1	WMQ	75.10	318 ePc	00 48.24	0.1	
		pP	58 18.50	52kmX				ec	58 53.10			Z	20s	5.30um		5.8Msz
DL2	51.94	331 P	58 16.00	0.7				epPd	58 59.06	28kmX		N	14s	1.10um		
	7.0s	1400.00nm		6.0mb X		OPA	56.83	60 P	58 52.00	0.6		E	14s	1.10um		
Z	26s	8.20um		5.6MszX		CD2	57.89	312 Pc	58 59.70	0.9			epPd	00 55.85		24kmX
N	17s	3.80um					0.4s	90.00nm		6.2mb			esPd	01 01.48		
E	18s	4.40um					Z	20s	26.90um	6.4Msz			ePP	03 32.93		
		S	05 40.00				N	19s	12.50um		GBA	75.44	286 P	00 50.20	-0.2	
TIA	52.29	325 Pd	58 19.80	1.8				epPd	58 59.06		ANM	77.05	18 eP	00 57.90	-0.7	
	1.4s	300.00nm		6.0mb				esPd	59 03.20		KDC	77.70	27 e(P)	01 01.70	-0.5	
Z	26s	11.00um		5.8MszX		HHC	58.64	326 P	59 05.00	1.1	SVW	78.23	23 eP	01 05.10	-0.1	
N	22s	7.30um					Z	24s	14.80um	6.0MszX	NDI	78.56	301 iPd	01 07.40	-0.3	
E	18s	5.90um					N	22s	2.90um				eS	10 56.00		
		eS	05 40.00				E	21s	7.60um		TTA	79.15	22 eP	01 09.50	-0.7	
YSS	52.87	353 eP	58 21.00	-1.1				pP	59 18.00	46kmX	POO	79.65	290 iPd	01 12.90	-0.8	
		eS	05 44.00					S	07 08.00				iS	11 14.00		
TSI	53.13	279 e(P)	58 26.00	1.4		PET	58.73	5 eP	59 04.00	-0.1	PAF	79.79	221 iPc	01 28.00	14.2X	
SNY	53.40	335 Pc	58 25.00	-1.1		AFR	59.02	107 iP	59 09.00	2.2			ePPP	06 05.00		
	8.0s	1500.00nm		6.0mb X			1.1s	175.00nm		6.1mb			eS	11 32.00		
Z	28s	16.10um		5.9MszX		PPN	59.35	107 iP	59 11.30	2.2			eSP	12 00.00		
N	15s	2.00um				BTO	59.36	325 P	59 09.50	0.6			eSS	17 00.00		
E	21s	10.00um					N	22s	6.70um		PMR	81.13	25 eP	01 19.10	-1.6	
		pP	58 39.00	52kmX			E	22s	11.80um			0.9s	52.50nm		5.6mb	
		sP	58 48.00					ePP	01 26.00		IMA	81.79	20 eP	01 23.30	-0.9	
		PP	00 25.00					sS	07 39.00			0.9s	21.60nm		5.2mb	
		S	05 52.00					S	07 39.00		KSH	82.06	311 P	01 28.00	1.8	
		sS	06 19.00					ePP	01 26.00			Z	24s	9.80um		6.1MszX
GYA	53.45	309 iPc	58 28.40	1.5				ePP	01 26.00			E	17s	4.60um		
	1.2s	100.00nm		5.7mb				S	07 39.00							
Z	34s	9.80um		5.6MszX		TVO	59.54	107 iP	59 12.60	2.2						
N	20s	5.50um					1.1s	185.00nm		6.1mb						
E	20s	7.60um				T8I	59.89	114 iP	59 12.10	-0.6	TOA	82.61	25 eP	01 28.20	-0.3	
		pP	58 41.00	45kmX			1.2s	152.00nm		6.0mb	COL	83.27	22 iPc	01 30.83	-0.9	
		sP	58 50.00			LZH	60.55	317 ePc	59 18.17	1.0			epPd	01 39.44		27kmX
MDJ	53.54	341 Pc	58 26.50	-0.6			7.0s	1400.00nm		6.2mb X			esPd	01 43.91		
Z	36s	28.40um		6.1MszX			Z	35s	14.20um	5.9MszX	FBA	83.27	22 eP	01 29.70	-2.1	
N	20s	4.60um					N	17s	3.99um		FRU	83.85	314 eP	01 36.00	0.8	
		sP	58 49.00				E	17s	2.60um				eS	12 10.00		

CLL	122.64	330	iPKP	08	00.50	-0.7
	1.0s	41.00nm				
		ePP	09	39.00		
		PKKP	18	10.00		
PRU	122.64	328	PKP	08	00.00	-1.3
	1.0s	20.20nm				
Z	22s	6.60um				6.2MsZ
N	22s	1.80um				
E	22s	5.10um				
		e	09	44.00		
FNA	123.01	316	ePKPd	08	00.48	-1.9
AGG	123.02	313	ePKPd	08	00.60	-1.8
OHR	123.27	316	ePKP	08	10.50	7.6X
	1.3s	97.00nm				
BLA	123.62	49	ePKP	08	02.00	-1.7
	1.0s	73.00nm				
KHC	123.65	328	iPKPd	08	03.20	-0.2
	1.0s	28.50nm				
Z	22s	4.00um				6.0MsZ
N	22s	3.60um				
E	22s	3.70um				
		e	08	27.80		
		S	19	46.00		
MOX	123.74	330	iPKP	08	04.00	0.5
	1.1s	33.00nm				
Z	23s	8.20um				6.3MsZ
N	22s	6.10um				
E	22s	2.00um				
WET	124.01	328	iPKPd	08	03.60	-0.5
	1.0s	50.00nm				
PTJ	124.12	323	iPKP	08	04.00	-0.5
IGT	124.24	315	ePKPd	08	03.56	-1.2
LHS	124.25	52	PKP	08	04.30	-0.6
RSNY	124.48	38	PKP	08	04.00	-1.1
GRF	124.53	329	ePKPc	08	04.40	-0.6
Z	24s	6.00um				6.2MsZ
WIT	124.57	335	ePKP	08	06.00	1.1
VBY	124.74	323	ePKPd	08	05.30	-0.2
PEL	124.83	137	ePKP	08	05.00	-1.2
BHG	124.86	327	iPKPd	08	04.60	-1.1
	1.1s	65.00nm				
LJU	124.88	324	ePKP	08	05.00	-0.8
WTS	125.09	334	ePKP	08	05.50	-0.4
	1.0s	50.00nm				
		e	08	19.00		
		e	08	25.00		
VOY	125.25	324	ePKP	08	05.80	-0.8
ELO	125.43	343	ePKP	08	05.10	-1.4
	1.0s	71.00nm				
FUR	125.45	328	ePKP	08	06.90	0.0
	1.1s	86.00nm				
HBVT	125.47	38	PKP	08	06.00	-1.0
EBH	125.56	343	ePKP	08	05.80	-1.0
	1.0s	73.00nm				
ESY	125.57	342	ePKP	08	05.80	-1.0
EDI	125.74	342	ePKP	08	06.60	-0.5
EBL	125.82	342	ePKP	08	06.70	-0.6
EAU	125.89	343	ePKP	08	06.70	-0.8
	0.9s	76.00nm				
SOTA	126.06	327	iPKPc	08	04.80	-3.5X
		id	08	07.40		
		i	08	28.80		
MDZ	126.22	138	ePKP	08	05.50	-3.5X
EKA	126.23	342	PKPc	08	08.80	0.7
	0.9s	32.90nm				
ENN	126.35	333	ePKP	08	08.50	0.0
	1.0s	106.00nm				
TXNY	126.36	42	iPKP	08	08.60	-0.2
MEM	126.43	333	PKP	08	07.70	-0.9
GMTN	126.51	42	iPKP	08	09.50	0.4
PNJ	126.51	42	PKPd	08	07.40	-1.7
CTI	126.52	326	PKPd	08	09.00	-0.1
CBM	126.84	33	PKP	08	08.40	-1.1
TDS	126.97	317	PKP	08	11.00	1.0
ARV	127.22	322	PKP	08	10.10	-0.3
SNF	127.26	334	PKP	08	10.30	0.1
FEL	12					

BDI 128.30 324 PKPd 08 11.00 -1.5
 BOB 128.53 326 PKP 08 12.60 -0.4
 PII 128.54 324 PKP 08 10.80 -2.1
 NNA 129.33 110 iPKPd 08 15.30 0.0
 1.1s 73.42nm
 Z 20s 0.71um 5.4MsZ
 CKI 129.40 326 PKP 08 13.00 -1.5
 LPL 129.54 328 ePKP 08 03.80 -11.3X
 0.8s 6.70nm
 LPG 129.55 328 ePKP 08 03.50 -11.7X
 0.7s 4.40nm
 LOR 129.79 331 ePKP 08 02.80 -12.4X
 0.8s 5.35nm
 Z 20s 5.75um 6.3MsZ
 UPA 129.80 83 iPKPc 08 15.30 -0.8
 1.2s 162.50nm
 Z 21s 2.15um 5.8MsZ
 BNI 129.88 327 PKP 08 16.00 0.4
 1.1s 11.36.00
 LBF 129.94 331 ePKP 08 03.30 -12.2X
 1.0s 6.00nm
 SSF 130.11 331 ePKP 08 04.30 -11.5X
 0.8s 4.05nm
 SMF 130.24 331 ePKP 08 03.60 -12.5X
 1.0s 10.00nm
 FLN 130.62 335 ePKP 08 03.40 -13.3X
 Z 20s 4.50um 6.2MsZ
 MAF 131.16 331 ePKP 08 05.20 -12.6X
 0.8s 2.70nm
 TCF 131.29 331 ePKP 08 05.20 -12.9X
 0.8s 4.05nm
 LPF 131.42 335 ePKP 08 05.00 -13.2X
 PSO 131.59 93 ePKP 08 20.50 0.4
 LSF 131.64 332 ePKP 08 05.50 -13.2X
 1.0s 6.00nm
 RJF 132.34 331 ePKP 08 08.70 -11.4X
 Z 20s 3.50um 6.1MsZ
 BCAF 132.63 271 ePKPd 08 03.30 -18.3X
 0.8s 67.00nm
 i 08 15.10
 i 08 21.90
 i 11 43.80
 i 12 10.20
 BTH 134.78 330 ePKP 08 24.00 -0.8
 BOG 135.12 89 ePKP 08 22.00 -4.7X
 CNCB 135.51 121 PKP 08 30.00 2.4X
 LPB 135.54 120 PKP 08 14.00 -13.5X
 Z 22s 3.70um 6.1MsZ
 LR 54 16.00
 ZOBO 135.63 120 ePKPc 08 28.26 0.4
 ePP 11 16.18
 EBR 136.08 327 ePKP 08 24.00 -3.3X
 ePP 11 08.00
 BMG 136.19 86 ePKP 08 21.00 -7.4X
 ECR 136.28 332 e(PKP) 08 18.00 -9.7X
 CCH 136.81 123 PKP 08 15.50 -14.2X
 i 08 29.50
 ETOR 137.41 329 ePKP 08 22.00 -8.0X
 GUD 138.58 331 ePKP 08 23.00 -9.2X
 SDV 138.59 83 ePKP 08 23.60 -9.4X
 TOV 139.38 82 ePKP 08 26.20 -8.1X
 EPLA 139.94 332 e(PKP) 08 30.40 -4.2X
 EBAN 140.28 328 e(PKP) 08 27.00 -8.2X
 CEOS 140.86 83 ePKP 08 29.00 -8.0X
 PORP 141.23 68 PKP 08 29.10 -8.3X
 SIV 141.71 125 PKPc 08 20.60 -17.8X
 GUAC 141.84 81 ePKP 08 33.30 -5.5X
 EVAL 142.22 331 e(PKP) 08 33.00 -5.7X
 OLLA 142.31 81 iPKP 08 33.70 -5.9X
 GIBL 142.42 329 ePKP 08 36.00 -3.0X
 OJEN 142.75 328 ePKP 08 45.00 5.3X
 PPD 144.93 142 ePKP 08 39.40 -4.3X
 e 08 44.70
 e 08 53.10
 NEV 145.21 68 ePKP 08 43.22 -1.1
 BPA 145.90 68 ePKP 08 45.00 -0.5
 PAG 146.32 69 ePKP 08 46.60 0.4
 DOG 146.38 69 ePKP 08 47.00 0.7
 SEG 146.39 69 ePKP 08 46.63 0.4
 BBL 146.63 70 ePKP 08 47.72 1.1
 SFG 146.71 69 ePKP 08 48.80 2.1
 GRW 147.10 76 ePKP 08 46.31 -1.2
 TCE 147.20 79 ePKP 08 48.57 0.9

SVV 147.34 74 ePKP 08 49.01 1.2
 TRN 147.55 79 ePKP 08 49.37 1.2
 TBH 147.90 79 ePKP 08 52.17 3.4X
 BOT 148.16 78 ePKP 08 52.22 3.1X
 BMA 148.24 153 ePKP 08 52.30 3.2X
 i 09 07.50
 JFO 149.45 153 ePKP 08 53.90 2.8X
 e 09 09.40
 TEGH 151.13 272 ePKP 08 53.80 0.1
 SHGH 151.18 272 ePKP 08 52.00 -1.8
 LEGH 151.31 272 ePKP 08 53.00 -1.0
 KOGH 151.38 272 ePKP 08 53.50 -0.7
 WEGH 151.46 271 ePKP 08 50.00 -4.2X
 KUK 151.51 273 ePKP 08 44.50 -9.8X
 BAO 151.76 139 ePKP 08 34.00 -20.8X
 BDF 151.80 139 ePKP 08 55.44 0.6
 e 09 07.52
 ePP 12 40.63
 KIC 155.85 273 PKP 08 59.64 -0.7
 1.1s 82.50nm
 TIC 156.13 274 PKP 08 59.82 -0.9
 LIC 156.14 273 PKP 08 59.92 -0.8
 1.1s 67.50nm
 Z 20s 4.50um 6.3MsZ
 PDCR 159.39 151 ePKP 09 04.70 0.2
 e 09 18.30
 e 09 42.20
 e 09 53.50
 SOB1 161.13 141 ePKP 09 06.80 0.4
 S.D. = 1.0 on 283 of 369 obs.
 ? NOV 22, 1990 21h 13m 56.19±1.28s
 36.964 N ±13.3km 29.414 E ±9.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 ELL 0.45 118 iPg 14 05.50 0.1
 eSg 14 13.50
 8CK 1.06 62 ePn 14 16.00 -0.2
 CIN 1.23 301 ePn 14 19.00 -0.1
 iSg 14 38.00
 KHL 1.36 4 ePn 14 21.50 0.3
 S.D. = 0.4 on 4 of 4 obs.
 % NOV 22, 1990 21h 43m 29.10±0.80s
 39.252 N ±7.0km 29.243 E ±9.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).
 DST 0.59 307 ePg 43 40.80 -0.3
 ALT 0.70 106 ePg 43 43.50 0.5
 KHL 0.95 167 ePg 43 47.00 -0.3
 IZI 1.10 9 ePn 43 49.00 -0.8
 KCT 1.21 326 ePn 43 52.50 0.9
 YLV 1.32 4 iPn 43 53.50 0.0
 S.D. = 0.8 on 6 of 6 obs.
 * NOV 22, 1990 21h 46m 03.07±1.61s
 51.629 N ±18.0km 175.397 W ±8.2km
 DEPTH = 57.7 ±12.2 km
 4.0mb (2 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 Felt on Adok.
 ADK 0.84 288 iPd 46 19.00 0.0
 KDC 14.55 56 eP 49 25.80 -1.1
 TTA 15.35 35 e(P) 49 38.00 0.7
 PMR 17.43 45 e(P) 50 04.50 1.1
 IMA 18.16 29 eP 50 13.00 0.5
 FBA 19.46 36 eP 50 26.00 -1.4
 NEW 36.80 72 eP 53 06.70 0.0
 GOL 48.56 75 eP 54 43.00 0.5
 0.5s 1.80nm 4.3mb
 GUN 73.71 294 P 57 33.00 0.1
 KKN 74.15 295 P 57 35.00 -0.2
 PKI 74.24 294 P 57 35.00 -0.1
 GKN 74.35 295 P 57 36.00 -0.3
 DMN 74.38 295 P 57 37.00 0.3
 WRA 83.70 227 P 58 27.00 0.3
 0.9s 0.70nm 3.7mb
 S.D. = 0.8 on 14 of 14 obs.
 NOV 22, 1990 22h 10m 53.63±0.28s
 44.500 N ±2.8km 7.324 E ±3.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

ML 3.2 (GEN). 2.9 (LDG).
 PZZ 0.16 272 Pc 10 57.37 0.0
 S 11 24.35
 STV 0.26 180 Pc 10 59.21 0.1
 ENR 0.28 166 Pc 10 59.79 0.2
 S 11 03.53
 ROB 0.44 117 Pc 11 03.41 0.7
 S 11 09.88
 RRL 0.57 318 Pc 11 04.83 -0.5
 S 11 12.44
 SBF 0.64 173 Pg 11 06.10 -0.5
 Sg 11 14.90
 RSP 0.65 356 P 11 05.94 -0.8
 S 11 16.03
 CKI 0.69 96 P 11 08.00 0.7
 eSg 11 18.00
 FIN 0.70 114 Pc 11 07.81 0.4
 S 11 17.16
 IMI 0.72 145 Pc 11 07.70 -0.1
 S 11 17.06
 BNI 0.72 320 Pc 11 07.50 -0.4
 eSg 11 16.60
 PCP 0.87 87 Pc 11 11.35 0.9
 S 11 23.12
 LPG 1.08 338 Pg 11 14.40 0.3
 Sg 11 29.40
 LPL 1.10 338 Pg 11 14.90 0.5
 Sg 11 30.40
 ORX 1.22 22 Pc 11 14.26 -2.2
 S 11 30.09
 LRG 1.26 214 Pg 11 16.90 0.0
 Sg 11 31.80
 LMR 1.31 207 Pg 11 17.60 -0.2
 Sg 11 33.60
 PGF 2.30 147 Pn 11 30.60 -1.7
 Sn 11 57.20
 SMF 3.25 312 Pn 11 47.00 1.3
 LBF 3.41 318 Pn 11 49.30 1.3
 HAU 3.57 349 Pn 11 50.10 -0.1
 LOR 3.68 320 Pn 11 51.80 0.1
 BGF 3.76 305 Pn 11 53.30 0.4
 MAF 3.77 299 Pn 11 53.30 0.2
 CAF 3.77 278 Pn 11 52.80 -0.3
 TCF 4.02 298 Pn 11 56.90 0.3
 LPO 4.39 275 Pn 12 01.30 -0.5
 LSF 4.44 295 Pn 12 02.60 0.0
 S.D. = 0.8 on 28 of 28 obs.
 % NOV 22, 1990 22h 54m 40.40±1.37s
 39.413 N ±15.1km 29.034 E ±10.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).
 DST 0.37 302 iPg 54 47.20 -0.8
 ALT 0.91 113 ePg 54 58.00 0.1
 IZI 0.98 20 ePn 54 58.50 -0.6
 KCT 0.98 328 iPn 55 00.50 1.4
 BNT 1.27 318 ePn 55 03.00 -1.0
 EDC 1.30 316 ePn 55 05.30 0.9
 S.D. = 1.3 on 6 of 6 obs.
 * NOV 22, 1990 22h 56m 17.99±0.67s
 37.501 N ±14.0km 71.803 E ±14.5km
 DEPTH = 33.0km (normal)
 4.3mb (5 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)
 NDI 9.89 151 eP 58 42.00 1.0
 eS 00 22.50
 MAIO 9.93 267 iPc 58 34.20 -7.4X
 eS 00 13.00
 GKN 14.35 128 P 59 41.14 0.2
 KKN 14.91 127 P 59 48.20 0.0
 0.5s 24.00nm 4.8mb
 DMN 14.92 128 P 59 48.56 0.1
 0.4s 25.00nm 4.8mb
 PKI 15.14 127 P 59 51.18 -0.2
 GUN 15.21 125 P 59 52.06 -0.3
 SHL 20.80 119 iP 01 02.50 3.4X
 eS 04 39.50
 HYB 20.87 162 eP 00 58.50 -1.2
 GBA 24.32 167 P 01 34.00 0.3
 0.3s 2.00nm 4.1mb
 HFS 42.68 321 eP 04 13.50 0.6
 0.4s 1.10nm 3.9mb

22d 23h

NB2 43.98 322 P 04 23.10 -0.4
0.6s 1.10nm 3.8mb
S.D. = 0.7 on 10 of 12 obs.

? NOV 22, 1990 23h 48m 23.71±12.63s
59.995 N ±25.5km 0.273 E ±101.1km
DEPTH = 10.0km (geophysicist)

NORTH SEA (534)
MD 3.0 (BER).

SUE 2.46 62 eP 49 05.29 0.8
eSg 49 36.12

ASK 2.50 77 eP 49 05.24 0.2
eSg 49 37.43

BER 2.56 79 eP 49 06.62 0.8
eSg 49 38.46

KMY 2.65 105 eP 49 07.33 0.2
eSg 49 37.82

HYA 3.15 66 eP 49 14.30 0.1
eSg 49 54.71

ODD1 3.20 89 iP 49 15.05 0.0
eSg 49 53.14

BLS2 3.45 99 eP 49 18.64 0.0
eSg 49 57.51

MOL 4.36 51 eP 49 31.10 -0.3
eS 50 20.52

NRA0 5.64 78 Pn 49 47.80 -1.8
S.D. = 0.9 on 9 of 9 obs.

NOV 22, 1990 23h 55m 43.54±0.67s
39.597 N ±6.1km 21.916 E ±6.1km
DEPTH = 17.1 ±7.2 km

GREECE (364)

AGG 0.66 151 ePc 55 56.26 0.0
eS 56 05.44

LIT 0.67 41 ePd 55 56.30 -0.1
eS 56 07.20

IGT 1.23 267 ePc 56 05.98 0.2
eS 56 22.24

FNA 1.26 341 ePd 56 05.70 -0.6
eS 56 23.70

THE 1.31 38 ePc 56 07.66 0.7
eS 56 07.78

PAIG 1.40 76 ePc 56 08.32 -0.1
eS 56 12.26

GRG 1.41 15 ePd 56 33.38 0.4
eS 56 13.72

SOH 1.65 42 ePd 56 36.58 0.6
eS 56 36.58

KNT 1.73 25 ePc 56 16.08 -0.7
eS 56 42.42

SRS 1.99 40 ePc 56 42.42

S.D. = 0.6 on 10 of 10 obs.

& NOV 23, 1990 00h 07m 22.43s
60.362 N 151.797 W

DEPTH = 58.7km

KENAI PENINSULA, ALASKA (14)

<AGS-P>.

RDT 0.37 305 iP 07 32.61 -0.6
eS 07 41.54

NNL 0.41 142 eP 07 34.11 0.7
eS 07 33.69

REF 0.47 286 iP 07 35.49 1.4
eS 07 34.00

NKA 0.47 36 iP 07 43.48 -0.4
eS 07 34.07

RSO 0.49 282 eP 07 33.84 -0.7
eS 07 43.23

RS2 0.49 282 eP 07 34.94 -0.6
eS 07 45.44

RDN 0.50 288 iP 07 36.02 -0.9
eS 07 47.14

NCT 0.60 290 iP 07 36.61 -0.2
eS 07 48.36

INE 0.70 245 iP 07 36.37 -0.8
eS 07 47.73

HOM 0.71 174 eP 07 37.04 -0.4
eS 07 37.58

INW 0.73 247 eP 07 38.40 -0.7
eS 07 38.40

BRK 0.83 351 eP 07 38.36 -0.7
eS 07 38.36

SPU 0.88 343 eP 07 38.78 -0.6
eS 07 39.36

CNPM 0.89 161 eP 07 53.31 -0.4
eS 07 39.58

XLV 0.91 178 eP 07 39.52 -0.5
eS 07 39.52

CRP 0.93 349 eP 07 40.01 -0.8
eS 07 40.01

BGL 0.95 342 iP 07 40.01 -0.8

CGLM 0.95 354 eP 07 40.01 -0.8

OPT 1.01 226 iP 07 40.01 -0.8

NCG 1.06 351 eP 07 40.96 -0.5

SEW 1.20 101 eP 07 42.16 -1.1

SUA 1.22 25 eP 07 43.32 -0.3

AUE 1.28 219 eP 07 43.54 -0.8

AUP 1.29 220 eP 07 43.67 -1.0

AUH 1.30 220 eP 07 46.04 1.3

PDB 1.33 245 eP 07 43.36 -1.7

PMS 1.41 50 eP 07 46.06 -0.2

PWA 1.60 35 eP 07 48.65 -0.1

SKT 1.63 4 eP 07 48.42 -0.8

CDD 1.72 214 eP 07 49.29 -1.2

SYI 1.78 190 eP 07 50.44 -0.9

PLRM 1.79 45 eP 07 50.14 -1.3

KNK 1.94 56 eP 07 52.17 -1.5

GHO 1.99 43 eP 07 55.13 0.8

LTI 2.00 98 eP 07 51.85 -2.5

KNIM 2.02 89 eP 07 51.79 -2.9

MTU 2.11 98 eP 07 53.72 -2.2

CUT 2.18 19 eP 07 55.91 -0.9

GLI 2.38 75 eP 08 01.47 1.8

KLU 3.09 66 eP 08 07.03 -2.8

TRF 3.18 12 eP 08 10.15 -1.1

RND 3.36 23 eP 08 13.24 -0.4

HDA 4.64 27 eP 08 29.40 -2.2

CCB 4.68 22 iP 08 29.82 -2.3

MDM 4.90 18 eP 08 32.37 -2.9

46 obs. associated

* NOV 23, 1990 00h 14m 09.95±1.07s
40.226 N ±8.2km 20.301 E ±8.9km

DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

TPE 0.23 287 iPg 14 14.00 -0.9

SRN 0.42 214 iPg 14 18.00 0.4

BERA 0.55 331 ePg 14 21.90 0.9

KBN 0.56 44 ePg 14 21.00 -0.2

OHR 0.96 23 ePg 14 28.20 -0.1

eSg 14 41.00

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

NOV 23, 1990 00h 56m 08.90±1.07s

5.005 S ±4.3km 145.791 E ±5.1km

DEPTH = 61.8 ±9.7 km

5.4mb (22 obs.)

EAST PAPUA NEW GUINEA REGION (207)

Ms 5.7 (BRK).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 11S, 31C

Centroid Location:

Origin Time 00:56:10.1 0.3

Lat 4.74S 0.03 Lon 145.97E 0.03

Dep 15.0 FIX Half-duration 2.2

Moment Tensor: Scale 10**17 Nm

Mrr=-0.94 0.08 Mlt=-3.70 0.11

Mff= 4.64 0.10 Mrt= 0.46 0.26

Mrf= 0.59 0.34 Mlf= 1.35 0.09

Principal Axes:

T Val= 4.93 Plg= 6 Azm=279

N -0.97 81 52

P -3.96 7 188

Best Double Couple: Mo=4.4*10**17

NP1: Strike=324 Dip=81 Slip=-180

NP2: 234 90 -9

YYYY 1.24 172 iPd 56 30.70 0.2

LAT 2.03 144 iPd 56 41.00 -0.3

MNDI 2.41 242 iPd 56 51.00 4.1X

PMG 4.58 163 iPd 57 17.00 -0.2

eS 58 16.00

SVO 14.51 107 P 59 28.00 -4.4X

HNR 14.71 108 eP 59 30.00 -5.1X

eS 02 13.00

CTA 15.00 178 iPd- 59 40.10 1.3

1.3s 169.23nm 5.1mb

iS 02 32.00

MTN 16.44 241 eP 00 00.00 2.9X

0.3s 41.00nm 5.1mb

QIS 16.59 201 eP 59 58.00 -1.0

0.8s 112.00nm 5.1mb

i 00 03.70

e 04 24.00

GUA 18.44 357 eP 00 24.70 2.8X

0.9s 302.52nm 5.5mb

PJG 18.49 357 eP 00 23.80 1.3

WB5 18.50 216 eP 00 21.50 -1.1

eS 04 05.20

KNA 19.84 236 eP 00 37.00 -0.5

0.7s 258.00nm 5.7mb

QLP 21.51 184 eP 00 55.00 0.5

RMO 21.55 173 eP 00 55.00 0.0

ASPA 21.81 211 iPd 00 57.40 -0.2

0.9s 54.20nm 5.0mb

Z 20s 15.70um 5.4MsZ

eS 04 54.40

MNI 21.89 286 eP 01 00.00 1.6

DAV 23.48 301 eP 01 16.00 2.0

PVC 25.41 122 iPd 01 31.10 -1.3

COO 26.08 168 eP 01 39.00 0.4

i 01 47.50

DZM 26.22 132 iPd 01 37.60 -2.4

CMS 26.34 180 eP 01 41.00 0.1

i 01 51.40

WARB 27.91 219 iPd 01 56.20 0.9

BWA 29.37 176 eP 02 09.00 0.6

MBL 29.87 235 eP 02 12.20 -0.7

0.6s 19.00nm 5.0mb

CAN 30.31 175 eP 02 18.30 1.6

CNB 30.34 174 eP 02 20.00 3.0X

ADE 30.53 191 iPd 02 19.50 0.9

0.8s 108.96nm 5.6mb

FORR 30.63 211 eP 02 19.00 -0.4

0.4s 39.00nm 5.5mb

QCP 31.32 309 eP 02 32.00 6.3X

BFD 32.16 185 eP 02 35.00 2.2

e 02 42.00

TOO 32.41 180 eP 02 36.00 0.9

i 02 38.00

BAG 32.78 311 eP 02 36.00 -2.7X

eS 07 56.00

MEKA 33.75 228 eP 02 46.60 -0.2

COOL 34.64 219 eP 02 54.00 -0.5

MRWA 37.08 226 eP 03 15.00 0.0

KLB 37.29 221 eP 03 16.00 -0.8

BAL 37.39 224 eP 03 18.00 0.4

NWA0 38.48 220 eP 03 27.00 0.2

MUN 38.56 222 eP 03 26.00 -1.4

OZH 39.82 320 eP 03 40.00 2.1

5.0s 1800.00nm 6.2mb X

Z 24s 4.70um 5.2MsZ X

GZH 42.24 313 Pd 04 01.00 3.2X

5.0s 1700.00nm 6.1mb X

N 10s 1.70um

S 10 19.00

SSE 42.90 328 eP 04 02.20 -0.9

5.0s 790.00nm 5.7mb X

Z 20s 3.20um 5.2MsZ

N 17s 1.80um

sP 04 19.00

S 10 21.00

SS 13 32.00

ScS 13 52.00

TCW 44.15 149 P 04 12.00 -1.1

PUZ 44.23 143 P 04 13.20 -0.6

KIW 44.23 148 P 04 12.70 -1.1

LTZ 44.34 152 P 04 14.20 -0.6

MNG 44.36 147 P 04 13.80 -1.1

1.0s 173.00nm 5.8mb

WEL 44.46 149 P 04 17.00 1.4

CAW 44.49 148 P 04 16.00 0.1

WDW 44.56 148 P 04 17.30 0.8

MTW 44.75 148 eP 04 16.20 -1.8

MOW 44.81 148 eP 04 18.50 0.0

NJ2 44.89 327 Pd 04 20.50 1.3

6.0s 1200.00nm 5.9mb X

Z 20s 0.90um 4.7MsZ

N 15s 1.50um

E 14s 0.70um

GYA	49.13	312	P	04	56.00	1.4	ANM	78.17	19	eP	08	06.10	3.3X	SVV	152.11	71	ePKP	16	01.94	9.0X
Z	28s	1.90um			4.9MszX		SVW	79.84	25	eP	08	12.30	0.3	BAO	155.37	147	e(PKP)	16	06.00	8.5X
NST	49.65	295	eP	04	57.50	0.9	TTA	80.61	23	eP	08	15.70	-0.4	PDCR	161.91	164	e(PKP)	16	22.00	17.1X
SNY	50.82	339	Pc	05	04.40	-0.8	MAW	82.70	203	iPc	08	27.00	0.2	S.D. = 1.2 on 114 of 151 obs.						
	1.4s	70.00nm			5.5mb		PMR	82.84	26	eP	08	27.30	-0.3							
Z	20s	5.60um			5.6Msz		QUE	82.90	301	eP	08	28.40	-0.5	& NOV 23, 1990 01h 07m 44.40s						
N	17s	2.60um					e(S)			19	09.70		40.292 N 124.215 W							
E	18s	2.80um					IMA	83.06	21	eP	08	28.40	-0.5	DEPTH = 5.0km						
		sP	05	22.40			1.1s	24.50nm				5.1mb	NEAR COAST OF NORTHERN CALIF. (35)							
KMI	51.44	308	Pd	05	11.00	0.5	TOA	84.33	26	eP	08	36.30	1.0	<BRK>. ML 2.8 (BRK).						
	2.5s	120.00nm			5.5mb		FBA	84.74	23	eP	08	35.20	-2.0	FHC	0.54	19	iP	07	55.20	0.0
Z	20s	2.40um			5.2Msz		BRW	84.79	16	eP	08	37.70	0.4				iS	08	02.50	
		sP	05	27.50			MAIO	89.95	306	eP	09	05.00	1.9	WDC	1.31	77	iPc	08	07.30	-1.8
MDJ	51.49	345	eP	05	08.00	-2.3						19	40.00	LTCM	1.60	92	eP	08	13.70	0.3
Z	30s	3.30um			5.2MszX		INK	91.18	22	eP	09	07.00	-0.9	MIN	2.00	88	iPc	08	16.80	-2.5
		PP	07	02.00								5.7mb					iS	08	42.40	
CHG	51.86	299	eP	05	13.00	-0.4	WDC	94.49	50	eP	09	22.00	-1.8	LBFM	2.06	58	eP	08	18.60	-1.6
CN2	51.93	341	Pc	05	12.60	-1.0	BRK	94.58	53	eP	09	26.30	2.1	ORV	2.21	109	eP	08	19.50	-2.8
	5.0s	1100.00nm			6.1mb X		BKS	94.60	53	eP	09	22.90	-1.4				iS	08	47.00	
Z	18s	5.20um			5.6Msz							6.0mb		PCC	3.13	152	eP	08	32.50	-2.8
N	16s	3.00um					Z	20s	2.90um			5.7Msz		ARN	3.61	144	eP	08	40.00	-2.2
E	16s	0.50um					N	20s	1.10um					GCC	3.69	151	eP	08	41.10	-2.2
		S	12	35.00			E	20s	2.50um					CMB	3.73	126	eP	08	42.30	-1.7
XAN	52.15	321	P	05	13.50	-2.0			eS	20	54.00		SAO	4.14	147	eP	08	45.50	-4.1	
	5.0s	2400.00nm			6.5mb X				eSS	27	02.00		FRI	4.83	132	eP	08	57.80	-1.7	
N	14s	1.80um							eLQ	34	31.00		12 obs. associated							
E	14s	2.20um							eLR	39	17.00		* NOV 23, 1990 01h 18m 58.02±2.20s							
		S	12	34.40			GCC	94.75	53	eP	09	30.80	5.8X	39.742 N ±11.1km 143.176 E ±18.2km						
BJI	52.45	331	eP	05	17.00	-0.5	MHC	95.04	53	eP	09	31.60	5.0X	DEPTH = 52.4 ± 14.3 km						
	5.0s	900.00nm			6.1mb X		LLA	95.57	54	eP	09	34.00	5.1X	4.8mb (11 obs.)						
Z	20s	4.18um			5.5Msz		PR1	95.78	54	eP	09	33.10	3.1X	OFF EAST COAST OF HONSHU, JAPAN (229)						
N	16s	1.79um					MBC	95.99	14	eP	09	29.00	-1.0	OFUJ	1.34	241	P	19	20.60	-0.1
		eS	12	40.00								5.1mb					S	19	38.70	
TIY	52.62	327	Pd	05	20.50	1.6	CMB	96.06	52	eP	09	33.00	1.8	AOMJ	2.30	292	P	19	33.60	-0.6
	6.0s	1500.00nm			6.2mb X		SYP	96.29	56	eP	09	36.00	3.6X	YAMJ	2.91	238	P	19	43.70	0.8
Z	20s	2.80um			5.3Msz		FRI	96.58	53	eP	09	34.20	0.8	BJI	20.70	280	eP	23	33.00	-3.0X
N	20s	3.50um					PNT	96.76	41	eP	09	37.00	3.0X	CHG	43.33	254	eP	26	57.80	1.2
CD2	53.72	314	P	05	25.80	-1.3	ISA	97.55	55	eP	09	42.00	4.1X	GUN	48.30	274	P	27	36.70	0.2
	1.0s	70.00nm			5.6mb		PAS	97.78	56	eP	09	42.00	3.1X	KKN	48.82	274	P	27	40.54	0.2
Z	17s	4.50um			5.6MszX		MWC	97.87	56	eP	09	41.00	1.4					21.00nm		5.3mb
E	18s	2.60um					SBB	98.07	56	eP	09	42.00	1.7	PKI	48.83	274	P	27	40.32	-0.2
		S	13	00.00			CLC	98.26	55	eP	09	43.00	1.9	DMN	49.05	274	P	27	41.56	-0.5
HHC	55.36	329	P	05	42.00	3.0X	RVR	98.44	57	eP	09	42.00	0.2				7.00nm		4.9mb	
N	21s	9.90um					GSC	98.91	55	eP	09	45.00	0.9	GKN	49.21	275	P	27	42.50	-0.7
BTO	55.99	328	P	05	43.00	-0.5	TPC	99.54	56	eP	09	49.00	2.1				8.00nm		5.1mb	
N	20s	3.40um					DUG	101.92	50	e(Pdiff)	10	00.50	2.9X	WRA	59.94	190	P	29	00.00	-1.1
E	20s	2.00um					SES	102.23	40	e(Pdiff)	10	03.00	4.4X				3.20nm		4.5mb	
LZH	56.68	320	Pc	05	48.00	-0.6	ALQ	107.39	55	e(Pdiff)	10	22.00	-0.2	GBA	62.81	265	P	29	20.00	-0.6
	5.0s	1500.00nm			6.3mb X							5.6Msz		HFS	72.19	336	eP	30	17.50	-1.3
Z	24s	3.08um			5.3MszX		OLY	119.32	52	e(PKP)	14	53.50	0.2				1.50nm		4.3mb	
E	15s	1.05um					KHC	120.33	326	ePKP	14	55.20	0.4	Z	20s	2.36um		2.36um		5.5Msz
		ePP	07	52.00								5.3Msz					LR	58	21.00	
		S	13	40.00			Z	18s	0.70um					NB2	72.22	338	P	30	18.40	-0.7
		SS	17	26.00			N	20s	0.50um								2.80nm		4.3mb	
GTA	61.21	321	P	06	19.20	-0.7	E	20s	0.60um					LOR	86.10	334	eP	31	34.80	0.5
	0.8s	20.00nm			5.3mb		TKL	125.20	49	ePKP	15	03.30	-1.3				5.35nm		4.8mb	
Z	24s	2.10um			5.2MszX		PRM	126.87	51	ePKP	15	09.00	1.2	Z	20s	1.75um		1.75um		5.5Msz
N	17s	1.48um					BLA	127.05	46	ePKP	15	07.00	-1.2				6.00nm		4.8mb	
		eS	14	38.00										LBF	86.30	333	eP	31	36.20	0.9
DRV	61.68	183	eP	06	24.20	1.7	BCAO	127.44	272	ePKPd	15	17.00	7.5X				6.00nm		4.8mb	
LSA	62.68	307	P	06	29.00	-1.3						15	37.20				6.00nm		4.8mb	
Z	10s	1.90um			5.6MszX							17	23.20	SSF	86.40	334	eP	31	36.30	0.6
		1.0s			5.2mb		JSC	127.64	50	ePKP	15	10.20	0.9				4.05nm		4.7mb	
PMO	65.85	104	eP	06	44.00	-6.5X	LHS	127.90	50	e(PKP)	15	10.20	0.4	AVF	86.68	334	eP	31	37.80	0.7
	1.0s	25.00nm					SGS	128.63	51	e(PKP)	15	10.80	-0.4				6.70nm		4.9mb	
GUN	66.32	303	P	06	52.90	-1.0	UPA	134.86	82	ePKPc	15	36.80	13.2X	LSF	87.77	334	eP	31	43.20	0.8
PKI	66.60	303	P	06	54.32	-1.3	Z	20s	1.31um			5.7Msz					4.70nm		4.8mb	
	1.1s	123.00nm			5.8mb		CNCB	140.20	124	PKP	15	30.00	-4.1X	SIV	148.27	49	ePKP	38	44.00	7.3X
KKN	66.78	303	P	06	55.58	-1.0	LPB	140.24	123	ePKP	15	32.00	-2.0	S.D. = 0.8 on 18 of 20 obs.						
DMN	66.86	303	P	06	56.22	-1.0	ZOBO	140.35	123	PKP	15	36.00	1.6							
GKN	67.39	303	P	06	59.20	-1.2						02	14.00	? NOV 23, 1990 01h 28m 10.88±1.02s						
	1.0s	233.00nm			6.1mb		CCH	141.41	126	ePKP	15	37.00	1.0	51.248 N ±27.4km 179.024 E ±13.2km						
KOD	69.70	283	eP	07	20.00	4.9X	PORP	145.76	65	PKP	15	41.00	-2.0	DEPTH = 33.0km (normal)						

23d 01h

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

* NOV 23, 1990 01h 33m 38.28±0.92s
40.258 N ± 7.3km 20.283 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

TPE	0.21	280	iPg	33	42.60	-0.3
SRN	0.44	210	ePg	33	47.30	0.1
BERA	0.51	330	ePg	33	48.80	0.2
KBN	0.55	48	ePg	33	49.00	-0.3
OHR	0.94	25	ePg	33	56.50	0.3
			eSg	34	09.20	

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

* NOV 23, 1990 02h 25m 17.70±2.08s
5.066 S ±11.6km 151.307 E ±11.7km
DEPTH = 191.3 ± 17.8 km
5.0mb (4 obs.)
NEW BRITAIN REGION (192)

PMG	5.97	223	eP	26	45.00	-0.1
			eS	27	51.00	
OIS	19.14	215	iPc	29	28.50	-0.2
MTN	21.36	247	eP	29	51.30	0.4
WB5	22.11	227	iPc	29	59.30	1.1
			eS	33	51.00	
DZM	22.37	140	iPc	30	01.00	0.2
KNA	24.55	243	eP	30	21.50	0.0
ASPA	24.97	221	iPc	30	25.30	-0.1
	0.9s					

			eS	34	37.50	4.7mb
			iScP	37	20.90	
FORR	33.68	218	eP	31	41.70	-0.7
MBL	34.46	239	eP	31	49.00	-0.3
GUN	70.99	302	P	36	17.30	0.1
	0.8s					5.0mb

PKI	71.29	301	P	36	18.64	-0.3
KKN	71.46	301	P	36	19.76	-0.1
DMN	71.56	301	P	36	20.70	0.2
	0.8s					4.9mb
GKN	72.07	301	P	36	23.24	-0.1
	0.8s					5.0mb

S.D. = 0.5 on 14 of 14 obs.

? NOV 23, 1990 03h 06m 42.24±6.21s
50.904 N ±45.4km 19.631 E ±39.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)

ML 2.7 (KRA).

KRA	0.87	167	iPg	06	58.90	-0.1
			iSg	07	09.70	
KSP	2.12	270	iPg	07	17.90	-0.2
			iS	07	41.80	
ZST	3.17	212	eP	07	33.50	0.4
PRU	3.38	256	ePg	07	37.50	1.4
			eSg	08	18.00	
KHC	4.29	248	Pg	07	47.50	-1.5
			Sg	08	39.50	

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

NOV 23, 1990 03h 59m 33.45±0.44s
51.105 N ±13.7km 179.179 E ± 5.0km
DEPTH = 33.0km (normol)
4.7mb (7 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)

ADK	2.70	72	eP	00	16.00	0.6
IMA	20.35	32	eP	04	08.90	-0.6
	0.8s					4.2mb
TOA	21.73	46	e(P)	04	25.10	1.7
FBA	21.95	38	eP	04	25.50	0.0
EDM	40.05	60	eP	07	07.00	0.2
NEW	40.17	68	eP	07	07.10	-0.7
TNP	45.74	81	ePd	07	53.80	0.4
	0.8s					4.5mb
DUG	47.17	76	eP	08	04.50	-0.1
BTO	47.63	286	eP	08	09.00	0.9
TIY	47.92	281	Pd	08	11.50	1.1
DAU	47.99	74	eP	08	11.20	0.0
PLM	48.97	85	ePc	08	18.30	-0.4
GOL	51.97	71	eP	08	41.20	-0.4
	0.8s					4.6mb
XAN	52.46	280	P	08	44.50	-0.6
LZH	54.23	285	eP	08	57.50	-0.8
	1.5s					5.1mb

GTA	54.48	291	Pc	08	59.60	-0.4
NB2	67.79	354	P	10	27.60	-2.0
	0.8s					4.5mb
GUN	70.77	291	P	10	49.22	0.4
KKN	71.22	291	P	10	51.72	0.4
	0.7s					5.4mb
PKI	71.30	291	P	10	51.98	0.0
GKN	71.43	292	P	10	52.70	0.2
DMN	71.45	291	P	10	53.16	0.4
	0.8s					5.1mb
OUE	79.52	305	eP	11	39.20	0.7
WB5	80.88	222	eP	11	45.10	-0.3
GBA	86.75	288	P	12	15.00	-0.4

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

NOV 23, 1990 04h 13m 25.96±1.00s
44.577 N ± 7.0km 7.661 E ± 7.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (LDG). 2.1 (GEN).

ROB	0.32	152	P	13	32.19	-0.4
			S	13	36.70	
ENR	0.39	206	P	13	33.11	-0.9
			S	13	38.13	
PZZ	0.41	260	P	13	33.21	-1.1
			S	13	38.13	
STV	0.41	216	P	13	33.52	-0.9
			S	13	38.95	
FIN	0.54	133	P	13	36.60	-0.3
RSP	0.64	334	P	13	38.85	-0.1
SBF	0.73	193	Pg	13	40.50	0.1
			Sg	13	49.40	
FRF	1.25	216	Pg	13	49.80	0.6
			Sg	14	06.30	
LRG	1.46	220	Pg	13	54.20	1.8
			Sg	14	12.20	
LMR	1.50	214	Pg	13	53.90	1.1
			Sg	14	12.30	

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

? NOV 23, 1990 04h 22m 06.20±4.43s
5.352 S ±46.4km 145.984 E ±19.3km
DEPTH = 79.3 ± 14.0 km
3.6mb (1 obs.)
EAST PAPUA NEW GUINEA REGION (207)

YYYY	0.88	181	eP	22	24.00	-0.2
			eS	22	44.00	
LAT	1.64	142	eP	22	34.00	0.2
MNDI	2.45	251	eP	22	45.00	0.0
			eS	23	28.00	
PMG	4.19	164	eP	23	09.00	-0.1
WB5	18.34	217	eP	26	17.50	0.6
ASPA	21.61	211	eP	26	50.90	-0.5
	1.7s					3.6mb

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

NOV 23, 1990 05h 58m 23.52±1.14s
6.385 S ±10.0km 154.693 E ± 6.4km
DEPTH = 78.5 ± 11.3 km
5.1mb (8 obs.)
SOLOMON ISLANDS (193)

VSG	5.73	120	eP	59	48.00	0.1
			eS	00	58.00	
SVO	5.77	119	eP	59	49.00	0.5
			eS	00	57.00	
HNR	6.02	121	eP	59	52.00	0.1
	1.0s					5.5mb
PMG	8.05	248	eP	00	19.00	-0.9
DZM	19.29	145	iPc	02	44.50	-0.6
WB5	23.87	234	eP	03	32.70	1.8
			e	07	13.50	
ASPA	26.36	227	eP	03	54.10	-0.2
	0.3s					4.5mb
Z	23s					3.6mszx
FORR	34.84	222	eP	05	09.00	-0.1
MBL	36.79	243	eP	05	25.00	0.2
TCW	38.83	156	eP	05	43.00	0.5
MNG	38.84	154	P	05	42.30	-0.3
	0.2s					5.3mb
MTW	39.29	155	eP	05	45.30	-1.0
CHG	60.37	296	ePc	08	27.50	0.4
	1.0s					5.0mb
GUN	74.55	301	P	09	56.62	0.2

PKI	74.86	301	P	09	57.88	-0.3
	0.5s					4.7mb
KKN	75.03	301	P	09	58.36	-0.7
	0.5s					5.0mb
DMN	75.13	301	P	09	59.44	-0.2
	0.5s					5.3mb
GKN	75.63	301	P	10	01.94	-0.4
	0.5s					5.1mb
GBA	79.20	285	P	10	23.00	0.9
CSS	119.20	307	ePd	13	41.70	14.6X
			eSg	13	48.00	
BAO	148.64	134	e(PKP)	18	04.00	3.6X

S.D. = 0.7 on 19 of 21 obs.

NOV 23, 1990 06h 43m 58.26±0.54s
34.644 N ± 3.5km 32.946 E ± 4.5km
DEPTH = 25.1 ± 5.3 km
4.2mb (15 obs.)
CYPRUS (372)
Felt (V) at Limosol and (II) at Nicosia.

CSS	0.45	45	ePd	44	05.80	-1.8
FAM	0.94	68	ePg	44	16.90	1.2
			eSg	44	33.50	
BHL	2.36	107	Pg	44	37.00	0.8
			Sg	45	04.00	
ADI	2.46	129	eP	44	38.00	0.4
			eS	45	06.00	
HRI	2.70	120	eP	44	41.00	0.0
ZNT	2.97	143	eP	44	46.00	1.3
			eS	45	18.00	
ELL	3.24	311	ePn	44	52.00	3.2X
BCK	3.40	326	iPn	44	50.00	-1.0
JARJ	3.47	133	Pc	44	51.86	-0.2
SALJ	3.49	138	Pc	44	51.93	-0.3
MASJ	3.72	141	Pc	44	55.24	-0.3
MKRJ	3.82	143	P	44	56.55	-0.4
LISJ	4.01	147	Pc	45	00.07	0.6
MDSJ	4.09	136	Pc	44	59.96	-0.8
MKT	4.13	153	eP	45	02.00	0.7
			eS	45	49.00	
GAZ	4.28	53	iPn	45	03.00	-0.4
DHLJ	4.37	210	Pc	45	03.67	-1.0
KHL	4.59	324	iPn	45	08.00	0.1
CSTJ	4.71	137	Pc	45	07.28	-2.3
KOT	4.79	192	ePn	45	10.00	-0.7
			eSn	46	02.50	
CIN	4.92	308	eP	45	13.00	0.6
ALT	4.95	334	ePn	45	13.60	0.5
HLW	4.96	196	eP	45	13.50	0.4
			eS	46	06.50	
MBH	5.13	161	eP	45	16.00	0.5
BBTK	5.19	358	eP	45	18.00	1.6
HOL	5.65	161	eP	45	23.00	0.3
IZM	5.91	311	ePn	45	10.40	-16.1X
AYN	6.32	155	eP	45	32.70	0.5
IZI	6.32	335	ePn	45	32.00	-0.3
BADA	6.35	163	iPd	45	32.00	-0.6
KAS	6.75	5	eP	45	50.00	11.7X
EZN	7.39	316	eP	45	41.00	-6.2X
MLR	12.08	336	eP	46	53.50	1.7
VRI	12.17	339	eP	46	59.00	6.1X
PTJ	17.12	316	iP	47	58.50	1.1
KSP	20.21	328	eP	48	31.70	-2.2
BRG	21.29	325	eP	48	42.50	-2.5X
	1.2s					4.1mb
CLL	22.03	325	e(P)	48	59.00	6.7X
MOX	22.28	322	eP	48	56.00	1.1
LPG	22.69	306	eP	49	01.50	2.2
	0.8s					4.3mb
LPL	22.71	306	eP	49	00.70	1.3
	0.6s					4.1mb
CDF	23.49	314	eP	49	06.40	-0.5
	0.7s					4.1mb
BSF	23.54	312	eP	49	06.40	-0.9
	0.6s					4.3mb
HAU	23.88	312	eP	49	09.40	-1.2
	0.8s					4.3mb
SMF	24.					

DOU 25.82 315 P 49 33.00 4.0X
 RJF 26.18 303 eP 49 32.10 -0.3
 0.6s 5.40nm 4.4mb
 LPO 26.28 302 eP 49 33.00 -0.3
 0.6s 5.40nm 4.4mb
 HFS 28.42 340 eP 49 50.10 -2.5X
 0.5s 0.90nm 3.8mb
 BCAO 32.90 207 ePc 50 34.80 2.2
 0.4s 5.00nm 4.8mb
 GKN 44.26 84 P 52 07.86 0.2
 0.8s 39.00nm 5.3mb X
 KKN 44.86 84 P 52 12.78 0.1
 0.7s 23.00nm 5.2mb
 PKI 45.05 84 P 52 13.98 -0.3
 GUN 45.31 83 P 52 16.62 0.2
 S.D. = 1.1 on 48 of 57 obs.

% NOV 23, 1990 06h 47m 21.80±1.20s
 43.927 N ±13.0km 11.740 E ±7.7km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

PGD 0.05 195 P 47 24.20 0.0
 eSg 47 26.70
 SFI 0.08 94 Pd 47 23.90 -0.4
 eSg 47 27.20
 CRE 0.34 153 Pc 47 29.20 0.4
 eSg 47 35.60
 MME 0.80 290 P 47 42.00 4.6X
 BDI 0.84 280 P 47 39.00 1.0
 eSg 47 51.00
 PII 0.90 257 P 47 38.00 -1.1
 eSg 47 50.00
 S.D. = 1.1 on 5 of 6 obs.

NOV 23, 1990 07h 11m 01.44±0.85s
 47.835 N ±11.1km 8.102 E ±6.7km
 DEPTH = 5.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.6 (LDG).

SLE 0.27 105 iP 11 05.20 -1.8
 ZLA 0.40 151 iPd 11 09.50 -0.1
 CDF 0.80 317 Pg 11 18.00 0.5
 Sg 11 27.80
 Sn 11 29.60
 BSF 0.88 270 Pg 11 20.30 1.4
 Sn 11 32.40
 Sg 11 33.60
 LLS 1.14 147 ePc 11 23.80 0.4
 HAU 1.19 279 Pn 11 24.30 0.2
 Pg 11 25.80
 Sg 11 42.60
 VDL 1.64 145 ePd 11 32.50 1.3
 MMK 1.79 183 ePd 11 36.10 2.7X
 OSS 1.80 129 ePc 11 34.70 1.1
 TMA 1.81 163 ePd 11 36.10 2.4X
 EMS 1.94 205 ePd 11 40.10 4.5X
 LPL 2.50 203 Pg 11 50.20 6.5X
 Sg 12 24.20
 LPG 2.52 202 Pg 11 51.00 7.1X
 Sg 12 25.00
 LBF 2.93 255 Pn 11 48.90 -0.7
 Sg 12 37.00
 LOR 2.93 260 Pn 11 49.10 -0.5
 Pg 11 58.20
 Sg 12 36.00
 SMF 3.14 249 Pn 11 50.60 -1.9
 Sg 12 43.70
 SSF 3.21 258 Pn 11 51.20 -2.3X
 Sg 12 45.00
 S.D. = 1.2 on 11 of 17 obs.

? NOV 23, 1990 07h 27m 35.68±4.18s
 3.616 S ±7.0km 80.823 W ±58.6km
 DEPTH = 33.0km (normal)
 4.9mb (1 obs.)
 PERU-ECUADOR BORDER REGION (110)

TUNG 3.23 47 P 28 24.70 -0.8
 RECU 3.72 37 P 28 33.80 1.1
 eS 29 23.20
 GGP 4.08 33 eP 28 38.00 0.1
 eS 29 22.30
 QUR 4.12 34 eP 28 37.80 -0.5
 eS 29 23.30
 COTA 4.64 32 eP 28 45.90 0.0

NNA 9.20 155 iP 29 49.00 -0.3
 0.7s 6.85nm 4.9mb
 iS 31 26.00
 ZOBO 17.72 136 P 31 43.00 0.8
 LPB 17.92 137 eP 31 51.00 6.5X
 CNCB 18.19 137 eP 31 44.00 -4.1X
 CCH 19.86 135 eP 32 07.00 -0.4
 SIV 22.99 124 P 32 44.40 5.7X
 S.D. = 0.8 on 8 of 11 obs.

NOV 23, 1990 07h 41m 57.96±0.23s
 5.538 N ±3.2km 125.851 E ±4.3km
 DEPTH = 125.0 ±2.0 km
 5.7mb (54 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)
 Complex event, observed on
 broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=355 Dip=73 Slip= 90
 NP2: 175 17 90
 Principal Axes:
 T Plg=62 Azm=265
 P 28 85

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

MOMENT TENSOR SOLUTION
 Dep 100 No. of sta: 7
 Moment Tensor: Scale 10**17 Nm
 Mrr= 1.06 Mtt= 0.46
 Mff=-1.52 Mrt=-1.48
 Mrf= 4.26 Mtf=-0.29

Principal axes:
 T Val= 4.66 Plg=51 Azm=240
 N 0.10 18 343
 P -4.76 37 81

Best Double Couple: Mo=4.7*10**17
 NP1: Strike=218 Dip=12 Slip= 145
 NP2: 342 83 80

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 11S, 26C

Centroid Location:

Origin Time 07:42: 2.3 0.5

Lat 6.01N 0.05 Lon 126.04E 0.05

Dep 105.9 2.7 Half-duration 1.7

Moment Tensor: Scale 10**17 Nm

Mrr= 0.53 0.06 Mtt=-0.11 0.09

Mff=-0.42 0.12 Mrt=-0.63 0.06

Mrf= 1.72 0.06 Mtf=-0.04 0.08

Principal Axes:

T Val= 1.97 Plg=52 Azm=246

N -0.17 4 341

P -1.80 38 74

Best Double Couple: Mo=1.9*10**17

NP1: Strike=191 Dip= 8 Slip= 120

NP2: 341 83 86

DAV 1.56 350 iPc+ 42 26.00 -0.8

MNI 4.19 194 ePc 43 05.00 3.9X

eS 43 49.00

OCP 10.19 333 eP 44 30.00 7.8X

BAG 11.98 335 eP 44 49.00 3.0X

1.7s 584.62nm 5.9mb

TRT 18.62 225 iPd 46 07.60 -1.0

0.7s 237.30nm 5.6mb

MTN 19.00 164 eP 46 10.30 -2.3

0.3s 124.00nm 5.7mb

HKC 20.13 327 iP 46 26.30 2.0

PJG 20.37 66 eP 46 24.50 -2.3

GUA 20.39 66 eP 46 24.80 -2.2

0.7s 175.34nm 5.5mb

OZH 20.51 341 P 46 28.00 -0.1

0.8s 70.00nm 5.1mb

S 50 12.00

OIZ 20.57 312 P 46 29.30 0.5

eS 50 14.00

GZH 21.21 327 Pd 46 36.60 1.5

1.0s 200.00nm 5.5mb

Z 14s 1.50um 4.5MsZ

S 50 24.00

SS 51 00.00

KNA 21.35 172 iPc 46 35.90 -0.6

0.3s 262.00nm 6.1mb

YYYY 23.24 120 eP 46 55.00 -0.2
 KLM 24.26 265 eP 47 07.00 2.1
 LAT 24.34 120 eP 47 06.00 0.4
 SNG 25.13 275 eP 47 14.80 1.7
 0.9s 319.33nm 5.8mb

SSE 25.80 351 P 51 45.20
 E 10s 0.30um 47 17.70 -1.3
 S 51 48.00

WB5 26.61 162 iPc 47 25.00 -1.6
 eS 51 48.00

WHN 27.13 338 Pd 47 31.50 0.3
 N 11s 1.10um

E 10s 1.50um

NST 27.18 294 iPc 47 32.50 0.7
 NJ2 27.18 347 Pc 47 30.60 -1.0

Z 18s 0.30um 3.9MsZ
 pP 47 37.20 23kmX

MBL 27.18 192 iPc 47 30.90 -0.8
 0.3s 52.00nm 5.6mb

GYA 27.72 321 iPd 47 37.60 0.9
 PcP 50 50.00

S 52 12.00

BDT 28.73 296 eP 47 47.10 1.4
 0.6s 85.00nm 5.6mb

CHG 29.36 299 iPc 47 51.30 -0.2
 0.8s 67.72nm 5.4mb

e 50 55.10

CHTO 29.36 299 iPc 47 50.60 -0.9
 e 54 26.20

KMI 29.50 314 iPc 47 53.24 0.4
 1.0s 170.00nm 5.7mb

ed 48 09.13

eS 52 34.63

e 53 22.80

ASPA 30.07 165 iPc 47 56.00 -1.6
 0.6s 83.30nm 5.6mb

Z 20s 0.50um 4.2MsZ

eS 52 38.10

iScP 54 28.50

iScS 58 20.90

WARB 31.54 179 iPc 48 10.20 -0.3
 0.5s 108.00nm 5.9mb

TIA 31.56 346 Pd 48 09.90 -0.7
 Z 20s 0.70um 4.3MsZ

E 12s 0.50um

S 53 09.00

CTA 32.42 142 iPd 48 18.10 -0.1
 1.0s 220.00nm 5.9mb

iS 53 25.00

XAN 32.42 333 iPc 48 16.60 -1.5
 0.8s 200.00nm 5.9mb

N 10s 1.30um

CD2 32.68 323 P 48 19.00 -1.4
 1.3s 170.00nm 5.7mb

Z 16s 1.78um 4.9MsZ

MEKA 32.74 192 eP 48 19.90 -1.0

DL2 33.44 354 iPc 48 26.50 -0.3
 1.4s 500.00nm 6.1mb

Z 18s 0.50um 4.3MsZ

S 53 38.50

ScS 58 42.00

TIY 34.28 341 Pc 48 33.00 -1.2
 0.8s 40.00nm 5.3mb

Z 20s 0.90um 4.5MsZ

N 17s 0.90um

YAMJ 34.95 20 eP 48 39.00 -0.8
 BJI 35.44 347 iPc 48 42.36 -1.5
 1.0s 210.00nm 5.9mb

Z 16s 0.29um 4.1MsZ

e 48 47.33

e 48 51.14

ePcP 51 11.50

MRWA 35.83 195 iPc 48 42.20 -5.1X

SNY 36.19 357 iPc 48 50.40 0.3

0.8s 400.00nm 6.3mb

Z 14s 0.70um 4.6MsZ

N 13s 0.40um

E 14s 0.60um

S 54 22.00

FORR 36.24 177 iPc 48 50.00 -0.7

OFUJ 36.33 21 eP 48 50.90 -0.5

COOL 36.49 187 iPc 48 51.70 -1.1

LZH 36.51 329 ePc 48 53.54 0.4

e 49 01.82

OLP 36.56 152 iPc 48 53.00 -0.4


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S.D. = 1.1 on 161 of 186 obs.
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& NOV 23, 1990 07h 52m 36.80s
36.367 N 120.975 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).

LLA 0.25 6 iP 52 41.90 -0.1
PRS 0.32 264 iPc 52 43.00 -0.4
PRI 0.34 132 iPd 52 43.90 0.2
iS 52 51.30
SAO 0.55 317 iPc 52 46.60 -1.2
PHAM 0.71 138 eP 52 50.00 -0.9
PKEM 0.76 113 eP 52 52.20 0.3
GCC 1.05 309 eP 52 55.50 -1.3
eS 53 10.50
ARN 1.08 336 eP 52 56.40 -0.9
FRI 1.19 158 eP 52 57.60 -1.6
eS 53 13.30
BCH 1.38 148 eP 53 00.70 -1.8
TNP 3.45 59 eP 53 34.00 1.8

```


11 obs. associated					eS 57 40.36					PMG 34.38 279 iPd 14 06.00 0.2				
NOV 23, 1990 07h 54m 53.74± 0.78s					PAIG 0.90 144 ePd 57 40.12 0.7					CMS 35.05 240 iPd 14 12.30 1.0				
40.112 N ± 4.5km 22.497 E ± 5.5km					eS 57 50.44					0.8s 204.00nm 5.8mb				
DEPTH = 13.1 ± 7.1 km					S.D. = 1.4 on 5 of 5 obs.					OLP 35.54 249 iPd 14 15.70 0.4				
GREECE (364)					? NOV 23, 1990 10h 05m 15.88± 1.04s					YYYY 36.54 284 eP 14 26.00 2.2				
LIT 0.01 208 ePd 54 56.30 0.1					39.105 N ± 9.1km 27.562 E ± 17.3km					TOO 37.23 231 iPd 14 31.10 2.0				
THE 0.63 34 ePd 55 05.74 -0.3					DEPTH = 10.0km (geophysicist)					BFD 0.3s 150.00nm 6.1mb				
GRG 0.85 355 ePc 55 09.48 -0.3					TURKEY (366)					RKT 39.29 233 iPd 14 49.00 3.1X				
PAIG 0.93 101 iPd 55 11.14 0.0					IZM 0.74 198 ePg 05 30.50 0.0					ADE 41.00 105 iP 15 00.70 0.9				
SOH 0.96 42 ePd 55 12.48 0.7					DST 0.97 59 ePn 05 34.30 0.0					0.1s 15.00nm 5.5mb				
FNA 1.09 308 ePc 55 14.06 0.1					EDC 1.26 11 ePn 05 39.80 0.5					41.68 237 iPd 15 06.00 0.9				
KNT 1.09 16 ePd 55 13.62 -0.4					BNT 1.28 12 iPn 05 39.10 -0.5					0.7s 143.84nm 5.6mb				
AGG 1.10 187 ePd 55 13.62 -0.4					CIN 1.56 164 ePg 05 59.00 15.3X					WB5 44.58 259 eP 15 26.90 -1.1				
VAY 1.21 3 ePn 55 10.60 -5.4X					S.D. = 0.7 on 4 of 5 obs.					WRA 44.60 259 P 15 26.00 -2.2				
SRS 1.31 39 ePd 55 17.66 0.1					NOV 23, 1990 10h 08m 03.00± 0.34s					ASPA 0.7s 158.60nm 5.7mb				
OHR 1.63 308 ePn 55 17.50 -4.8X					17.742 S ± 4.0km 178.472 W ± 3.2km					44.78 254 iPd 15 28.90 -0.7				
IGT 1.76 252 eP 55 24.40 0.2					DEPTH = 551.6 ± 4.6 km					0.8s 604.40nm 6.2mb				
S.D. = 0.4 on 10 of 12 obs.					5.3mb (35 obs.)					iS 21 24.60				
? NOV 23, 1990 08h 14m 55.57± 3.73s					FIJI ISLANDS REGION (181)					iScS 24 28.20				
31.849 S ± 16.5km 68.871 W ± 16.6km					MBU 2.79 286 iP 09 19.10 1.6					MTN 48.75 268 eP 15 58.20 -1.6				
DEPTH = 149.9 ± 35.9 km					SVA 2.95 262 eP 09 17.70 -0.7					0.3s 28.00nm 5.3mb				
SAN JUAN PROVINCE, ARGENTINA (137)					SGE 3.44 272 eP 09 22.00 0.3					FORR 49.99 244 iPd 16 08.20 -0.5				
RTCV 0.28 93 iPd 15 16.00 -0.6					NDF 3.89 269 eP 09 24.90 0.2					0.5s 288.00nm 6.1mb				
ZON 0.34 29 iPd 15 16.80 0.0					PVC 12.59 268 iPc 10 48.20 0.2					KNA 50.43 264 iPd 16 11.30 -0.8				
RTCB 0.37 10 ePd 15 16.90 0.0					DZM 14.82 251 iPd 11 10.10 -0.4					0.4s 110.00nm 5.7mb				
RTBS 0.53 290 iPd 15 17.00 -0.2					HBZ 19.98 188 eP 12 00.90 1.1					51.28 250 iPd 16 18.10 -0.3				
CFA 0.59 66 iPd 15 18.00 0.3					0.3s 11.00nm 5.0mb					0.8s 216.00nm 5.6mb				
RTLL 0.62 34 iPd 15 18.20 0.3					PUZ 20.46 187 eP 12 05.00 0.8					COOL 55.97 244 iPd 16 51.10 -0.5				
MDZ 1.03 179 iP 15 20.40 -0.6					WLZ 20.69 193 eP 12 08.90 2.5					MBL 57.96 256 iPd 17 04.30 -0.9				
JACH 1.68 240 iPd 15 27.60 0.1					NOZ 21.02 188 P 12 10.00 0.6					0.4s 64.00nm 5.3mb				
FCH 1.90 219 iPc 15 31.20 0.9					HNR 22.53 289 eP 12 22.00 -1.2					MEKA 58.51 249 iPd 17 07.90 -1.0				
PEL 2.00 229 iPd 15 31.50 0.3					eS 13 59.00					0.4s 32.00nm 5.0mb				
ROCH 2.13 238 iPd 15 32.70 -0.1					SVO 22.76 289 eP 12 30.00 4.7X					58.84 243 iPd 17 10.50 -0.6				
PCH 2.24 218 eP 15 35.20 1.1					VSG 22.81 289 eP 12 24.00 -1.8					59.24 242 iPd 17 13.10 -0.5				
LCCH 2.79 234 eP 15 40.50 -0.3					eS 13 17.00					59.39 241 eP 17 14.70 0.1				
LNV 3.00 225 iPd 15 42.10 -1.3					PGZ 23.24 190 eP 12 29.10 -0.4					0.6s 67.00nm 5.1mb				
S.D. = 0.7 on 14 of 14 obs.					MNG 23.39 192 P 12 29.80 -1.0					59.80 245 iPd 17 16.70 -0.7				
% NOV 23, 1990 09h 22m 58.48± 0.84s					KIW 23.74 193 eP 12 33.00 -1.0					60.14 243 iPc 17 19.30 -0.3				
39.094 N ± 6.7km 27.604 E ± 8.7km					CAW 23.94 192 eP 12 34.50 -1.3					60.52 246 iPd 17 27.80 5.6X				
DEPTH = 10.0km (geophysicist)					WDW 24.11 192 P 12 36.90 -0.4					72.37 180 iPd 18 36.40 1.8				
TURKEY (366)					MRW 24.13 193 eP 12 36.50 -1.0					1.0s 65.00nm 5.1mb				
MD 2.7 (ISK)					TCW 24.21 193 P 12 38.10 0.0					SYP 76.09 46 eP 18 56.00 0.2				
IZM 0.74 201 iPg 23 13.00 -0.1					THZ 25.06 195 eP 12 46.20 0.5					PRS 76.15 44 eP 18 55.80 -0.1				
DST 0.94 57 iPn 23 16.80 0.3					KHZ 25.52 194 eP 12 48.80 -0.9					SAO 76.35 44 eP 18 56.70 -0.3				
EZN 1.23 307 iPn 23 21.70 0.4					0.3s 11.00nm 5.0mb					BCH 76.38 46 eP 18 57.00 -0.3				
EDC 1.27 9 ePn 23 22.30 0.3					LTZ 26.17 196 eP 12 54.40 -1.2					PRI 76.52 45 eP 18 57.50 -0.6				
BNT 1.28 11 iPn 23 21.80 -0.5					AFR 27.34 94 iP 13 05.40 -0.4					ARN 76.62 43 e(P) 18 58.50 0.0				
KGT 1.38 350 iPn 23 23.30 -0.4					0.8s 60.00nm 5.3mb					ABL 76.79 47 e(P) 18 59.70 0.0				
S.D. = 0.5 on 6 of 6 obs.					PAE 27.51 94 iP 13 07.00 -0.4					MWC 77.27 48 eP 19 02.00 -0.3				
% NOV 23, 1990 09h 57m 22.08± 0.90s					PPT 27.53 94 iP 13 07.10 -0.4					FRI 77.63 44 eP 19 03.80 -0.1				
40.665 N ± 7.4km 22.996 E ± 8.2km					0.8s 85.00nm 5.4mb					PLM 77.67 49 eP 19 04.30 -0.1				
DEPTH = 10.0km (geophysicist)					PPN 27.67 94 iP 13 08.30 -0.4					SBB 77.68 47 eP 19 04.00 -0.3				
GREECE (364)					0.8s 20.00nm 4.8mb					PEC 77.73 48 eP 19 04.10 -0.5				
THE 0.04 216 ePd 57 22.52 -1.6					TBI 27.70 107 iP 13 10.10 1.1					ISA 77.75 46 eP 19 05.00 0.4				
SOH 0.31 60 ePd 57 27.72 -0.9					0.8s 80.00nm 5.4mb					CMB 77.76 43 eP 19 04.50 -0.1				
KNT 0.50 351 ePd 57 31.88 -0.4					TVO 27.82 95 iP 13 09.80 -0.3					NJ2 77.79 309 iPd 19 05.00 0.2				
GRG 0.54 303 ePd 57 33.36 0.4					0.8s 60.00nm 5.3mb					WDC 77.86 40 eP 19 04.80 -0.2				
S.D. = 0.5 on 6 of 6 obs.					MMCZ 29.10 198 P 13 20.70 -0.3					ORV 77.91 42 eP 19 05.30 0.0				
% NOV 23, 1990 09h 57m 22.08± 0.90s					MHZ 29.10 198 P 13 20.80 -0.3					MDJ 78.02 325 Pd 19 05.50 -0.2				
40.665 N ± 7.4km 22.996 E ± 8.2km					TLC 29.28 198 P 13 22.80 0.1					CLC 78.43 46 eP 19 08.00 -0.3				
DEPTH = 10.0km (geophysicist)					PMO 29.45 89 iP 13 23.90 -0.3					TPC 78.64 49 eP 19 09.00 -0.4				
GREECE (364)					0.8s 25.00nm 4.9mb					GSC 78.71 47 eP 19 11.00 1.2				
THE 0.04 216 ePd 57 22.52 -1.6					VAH 29.66 90 iP 13 25.60 -0.4					CN2 79.85 322 Pd 19 15.00 -0.4				
SOH 0.31 60 ePd 57 27.72 -0.9					0.8s 25.00nm 4.9mb					1.0s 30.00nm 4.7mb				
KNT 0.50 351 ePd 57 31.88 -0.4					TPT 29.71 89 iP 13 26.10 -0.4					ePd 21 10.00 531kmX				
GRG 0.54 303 ePd 57 33.36 0.4					0.8s 35.00nm 5.0mb					S 28 35.00				
S.D. = 0.5 on 6 of 6 obs.					COD 29.81 239 iPd 13 28.00 0.7					e 21 11.40				
% NOV 23, 1990 09h 57m 22.08± 0.90s					0.8s 188.00nm 5.8mb					WHN 80.46 306 eP 19 19.50 0.7				
40.665 N ± 7.4km 22.996 E ± 8.2km					RUV 29.90 90 iP 13 27.70 -0.4					BJI 83.62 315 eP 19 34.50 -0.1				
DEPTH = 10.0km (geophysicist)					0.8s 40.00nm 5.1mb					1.2s 1023.00nm 6.3mb				
GREECE (364)					RMQ 31.51 248 iPd 13 42.20 0.5					GYA 84.90 300 P 19 42.00 0.7				
THE 0.04 216 ePd 57 22.52 -1.6					0.6s 228.00nm 6.0mb					TIY 85.11 312 eP 19 42.00 0.0				
SOH 0.31 60 ePd 57 27.72 -0.9					CTA 33.41 260 iPd 13 57.20 -0.5					ALO 86.04 52 ePc 19 46.80 0.1				
KNT 0.50 351 ePd 57 31.88 -0.4					0.9s 147.90nm 5.6mb					1.0s 4.50nm 4.2mb X				
GRG 0.54 303 ePd 57 33.36 0.4					iScP 19 19.30					e 21 45.00				
S.D. = 0.5 on 6 of 6 obs.					CNB 33.48 232 iPc 13 59.80 1.6					XAN 86.11 307 P 19 47.00 0.1				
% NOV 23, 1990 09h 57m 22.08± 0.90s					0.3s 95.00nm 5.9mb					HHC 87.11 314 eP 19 52.50 0.9				
40.665 N ± 7.4km 22.996 E ± 8.2km					CAN 33.76 232 iPd 14 01.80 1.3					CHG 88.89 290 eP 20 01.00 0.9				
DEPTH = 10.0km (geophysicist)					BWA 33.87 234 iPd 14 00.40 -1.1					0.9s 12.82nm 4.8mb				
GREECE (364)					CTA 33.41 260 iPd 13 57.20 -0.5					CD2 88.93 303 eP 20 01.20 1.1				
THE 0.04 216 ePd 57 22.52 -1.6					0.9s 147.90nm 5.6mb					LZH 90.74 308 P 20 09.40 0.9				
SOH 0.31 60 ePd 57 27.72 -0.9					iScP 19 19.30					1.0s 25.00nm 5.2mb				
KNT 0.50 351 ePd 57 31.88 -0.4					CNB 33.48 232 iPc 13 59.80 1.6					RSSD 91.49 44 eP 20 11.50 -0.3				
GRG 0.54 303 ePd 57 33.36 0.4					0.3s 95.00nm 5.9mb					KAS 143.72 317 ePKP 26 36.50 -0.5				
S.D. = 0.5 on 6 of 6 obs.					CAN 33.76 232 iPd 14 01.80 1.3					KSP 144.93 344 iPKPd 26 39.30 0.7				
% NOV 23, 1990 09h 57m 22.08± 0.90s					BWA 33.87 234 iPd 14 00.40 -1.1					i 26 51.10				
40.665 N ± 7.4km 22.996 E ± 8.2km					CTA 33.41 260 iPd 13 57.20 -0.5									
DEPTH = 10.0km (geophysicist)														
GREECE (364)														
THE 0.04 216 ePd 57 22.52 -1.6														
SOH 0.31 60 ePd 57 27.72 -0.9														
KNT 0.50 351 ePd 57 31.88 -0.4														
GRG 0.54 303 ePd 57 33.36 0.4														

23d 10h

CLL 145.29 347 iPKPd 26 39.90 0.7
1.3s 30.00nm
BRG 145.49 346 iPKP 26 40.60 1.1
1.3s 24.00nm
PRU 146.17 345 ePKP 26 42.50 1.8
MOX 146.19 348 e(PKP) 26 44.00 3.3X
DSI 146.45 301 iPKPd 26 44.00 2.3X
MKT 146.80 300 iPKPd 26 45.40 3.1X
ZST 147.07 341 iPKP 26 45.40 3.2X
KHC 147.20 345 ePKP 26 45.90 3.5X
MBH 147.33 298 iPKPd 26 46.60 3.5X
S.D. = 0.9 on 103 of 112 obs.

? NOV 23, 1990 10h 20m 22.44±1.08s
38.908 N ±13.1km 27.718 E ±20.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.62 215 ePg 20 35.00 0.0
eSg 20 46.50
DST 0.99 45 iPn 20 41.30 0.0
EDC 1.44 4 ePn 20 49.00 0.4
BNT 1.45 6 iPn 20 48.30 -0.4
S.D. = 0.6 on 4 of 4 obs.

NOV 23, 1990 10h 33m 30.67±0.71s
35.188 N ±10.0km 133.405 E ±7.4km
DEPTH = 10.0km (geophysicist)

4.6mb (4 obs.) 4.1msz (1 obs.)

SOUTHERN HONSHU, JAPAN (232)

Felt (IV JMA) at Yonago; (III JMA) at Matsue; (II JMA) at Okayama and Hiroshima; (I JMA) at Kyoto and Tottori.

SHK 0.89 223 iPc 33 47.90 0.2
0.7s 2438.36nm
YAMJ 6.11 59 eP 35 03.00 -0.1
OFUJ 7.66 57 P 35 25.70 0.8
AOMJ 7.69 44 eP 35 25.80 0.5
S 36 47.20
MDJ 9.86 344 eP 35 55.20 -0.2
SNY 10.16 314 eP 36 01.00 1.5

Z 10s 1.10um
N 14s 1.80um
E 14s 1.30um
S 37 55.00
CN2 10.57 327 eP 36 00.50 -4.6X

Z 14s 1.20um
N 14s 0.90um
E 14s 0.80um
S 38 08.00

SSE 11.02 252 P 36 12.50 1.1
1.2s 1011.00nm 7.0mb X
Z 20s 0.50um 4.2msz
N 14s 1.90um

NJ2 12.52 260 eP 36 30.00 -1.7
BJI 14.49 295 eP 36 57.00 -0.6
1.0s 15.00nm 4.6mb
Z 12s 0.60um 4.4mszX
N 12s 0.64um

TIY 17.06 285 Pc 37 34.00 3.2X
Z 14s 0.70um
N 20s 3.00um

HHC 18.10 295 eP 37 46.00 2.2
BTO 19.21 293 eP 37 57.00 -0.4
N 11s 0.40um
E 11s 0.70um

XAN 20.18 274 P 38 07.10 -1.0
LZH 24.00 281 eP 38 46.50 0.0
2.0s 36.00nm 4.6mb
Z 18s 0.53um 4.1msz
E 10s 0.43um

pP 38 54.50 28kmX
GYA 24.50 257 P 38 53.60 2.3
CD2 25.17 269 eP 38 56.60 -1.1
Z 10s 1.15um 4.7mszX

GTA 26.96 289 eP 39 12.30 -2.0
Z 13s 0.60um 4.3mszX
E 11s 0.60um

PKI 41.35 273 P 41 00.00 -18.8X
FBA 54.08 31 eP 43 03.80 6.6X
GBA 54.56 261 P 43 10.00 8.5X
1.0s 3.70nm 4.4mb

WRA 54.83 179 P 43 04.00 0.7
0.4s 4.80nm 4.9mb
TNP 82.07 49 e(P) 45 50.70 -2.2

ZOBO 153.07 51 ePKP 53 37.00 13.5X
LPB 153.28 51 ePKP 53 31.00 7.4X
CNCB 153.56 52 PKP 53 36.00 11.9X
S.D. = 1.4 on 18 of 26 obs.

? NOV 23, 1990 10h 37m 44.43±1.35s
7.554 S ±14.6km 128.609 E ±24.8km
DEPTH = 33.0km (normol)
4.1mb (2 obs.)

BANDA SEA (280)

MTN 5.82 155 eP 39 11.80 1.1
0.3s 80.00nm 5.8mb X
i 39 24.80

KNA 8.15 179 eP 39 43.60 0.2
0.3s 19.00nm 5.8mb X
eS 41 09.00

WB5 13.47 156 eP 40 51.80 -3.9X
eS 43 10.00
MBL 15.96 211 eP 41 28.10 -0.2
0.3s 3.00nm 4.0mb

ASPA 16.81 163 eP 41 36.80 -2.2
0.5s 10.20nm 4.2mb
eS 44 25.60

CTA 21.16 128 eP 42 42.00 12.8X
FORR 23.18 181 eP 42 50.30 1.1
GUN 54.29 312 P 47 10.40 0.0
GKN 55.26 312 P 47 17.20 -0.1

S.D. = 1.4 on 7 of 9 obs.

& NOV 23, 1990 10h 58m 03.80s
36.513 N 121.127 W
DEPTH = 8.0km

CENTRAL CALIFORNIA (39)

<BRK>. ML 2.7 (BRK).

LLA 0.18 55 iP 58 07.50 -0.2
PRS 0.27 227 iPd 58 09.10 -0.2
SAO 0.36 315 iPc 58 09.70 -1.4
PRI 0.53 135 iPd 58 14.50 0.1

GCC 0.87 307 eP 58 19.50 -1.2
iS 58 32.20
ARN 0.90 339 eP 58 20.50 -0.7
PHAM 0.90 139 eP 58 20.80 -0.4

MHC 0.92 334 ePd 58 21.10 -0.6
PKEM 0.94 118 iPc 58 23.00 1.1
FRI 1.24 67 iPd 58 25.90 -1.0
iS 58 41.80

PCC 1.41 315 eP 58 27.50 -2.2
BCH 1.57 147 eP 58 30.50 -1.7
CMB 1.63 21 eP 58 31.50 -1.4
iS 58 54.30

BRK 1.63 327 eP 58 33.20 0.3
eS 58 57.60
TNP 3.49 62 e(P) 59 04.00 4.3

15 obs. associated

% NOV 23, 1990 10h 59m 04.01±0.86s
39.149 N ±7.5km 27.619 E ±8.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZM 0.80 201 ePg 59 19.50 -0.1
iSg 59 32.50

DST 0.90 59 iPn 59 21.50 0.1
EZN 1.21 304 iPn 59 26.70 0.2
BNT 1.23 11 ePn 59 26.30 -0.5
KCT 1.24 27 ePn 59 27.30 0.3

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

NOV 23, 1990 11h 58m 25.29±0.49s
44.127 N ±4.6km 20.715 E ±6.3km
DEPTH = 11.0 ± 3.3 km

YUGOSLAVIA (383)

ML 2.9 (TTG). Felt at Kragujevac.

BEO 0.72 345 iPg 58 39.50 0.2
iSg 58 52.00

IVA 1.39 206 ePg 58 50.50 -0.1
eSg 59 09.50
BZS 1.62 23 iPc 58 58.00 4.2X
NKY 1.81 224 ePn 58 58.50 1.7

eSn 59 24.50
BRY 2.00 233 ePn 59 00.00 0.5

eSn 59 28.10
TTG 2.00 213 ePn 59 01.50 2.1
eSn 59 30.30

KKS 2.06 186 ePn 59 05.50 5.3X
SKO 2.22 166 iPn 59 02.50 -0.1
i 59 06.80

SDA 2.29 203 ePn 59 08.00 4.4X
BDV 2.30 217 ePn 59 04.00 0.2
eSn 59 35.00

DEV 2.34 41 iPd 59 12.00 7.7X
VTS 2.38 129 iP 59 06.00 1.0
PHP 2.45 185 ePn 59 03.10 -2.6

TIR 2.85 193 ePn 59 18.00 6.5X
TNR 2.95 58 ePc 59 25.00 12.0X
PGB 2.97 121 iP 59 15.00 1.7
OHR 3.01 179 iPn 59 14.60 0.7

VAY 3.12 153 ePn 59 20.00 4.7X
i 59 23.40
CMP 3.29 68 ePc 59 33.00 15.2X

MMB 3.37 138 iP 59 20.00 1.1
KNT 3.37 151 iPd 59 18.85 -0.1
FNA 3.38 171 ePc 59 19.32 0.3

GRG 3.40 158 ePd 59 19.24 -0.2
BERA 3.47 190 ePn 59 23.80 3.6X
BUD 3.56 341 iP 59 21.20 -0.3

SRS 3.68 144 iPc 59 22.59 -0.8
eS 00 24.52
PTJ 3.81 299 e(Pn) 59 24.20 -1.1
iSn 00 07.50

RZN 3.82 128 eP 59 26.00 0.5
PSZ 3.84 352 ePn 59 26.00 0.4
SOH 3.84 149 ePd 59 24.56 -1.0
eS 00 27.28

MLR 3.96 68 eP 59 31.00 3.6X
VBY 4.12 291 e(Pn) 59 52.00 22.5X
eSn 00 16.50
e 00 40.00

LIT 4.23 161 ePc 59 29.32 -1.9
KDZ 4.25 124 iP 59 42.00 10.6X
IGT 4.60 184 ePd 59 36.24 -0.1

PAIG 4.74 151 ePc 59 37.12 -1.3
ZST 4.78 330 iP 59 39.60 0.7
AGG 5.24 166 ePc 59 45.68 0.2

KHC 7.01 318 eP 00 09.10 -1.3
S.D. = 1.2 on 27 of 39 obs.

% NOV 23, 1990 13h 29m 56.50±0.87s
39.128 N ±7.5km 27.610 E ±8.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

IZM 0.78 201 ePg 30 11.60 -0.1
eSg 30 23.10

DST 0.92 59 ePn 30 14.30 0.1
EZN 1.21 305 iPn 30 19.30 0.2
BNT 1.25 11 ePn 30 19.20 -0.5
KCT 1.26 27 iPn 30 20.20 0.3

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

? NOV 23, 1990 14h 14m 18.04±2.42s
29.123 N ±19.2km 131.723 E ±27.8km
DEPTH = 33.0km (normol)
4.3mb (2 obs.)

RYUKYU ISLANDS REGION (239)

SSE 9.34 285 eP 16 32.00 -1.3
Z 20s 0.50um
E 12s 0.50um

SNY 14.30 335 eP 17 42.20 2.2
Z 16s 0.90um
N 14s 0.57um

S 20 38.00
CN2 15.49 343 eP 17 54.60 -0.9
Z 15s 1.20um
N 12s 0.60um

E 12s 0.30um
epP 18 02.00
BJI 16.78 315 eP 18 11.00 -1.0

Z 16s 1.16um
E 12s 0.32um

XAN 20.02 290 eP 18 52.40 1.5
CD2 24.26 281 P 19 28.80 -4.4X
LZH 24.44 294 eP 19 42.50 7.4X

2.0s 25.00nm 4.4mb
Z 16s 0.97um 4.4mszX
E 10s 0.35um

GUN 40.11 280 P 21 53.20 0.4
 PKI 40.59 279 P 21 57.30 0.6
 KKN 40.65 280 P 21 57.68 0.6
 DMN 40.84 280 P 21 59.14 0.4
 GKN 41.15 280 P 22 01.50 0.3
 WRA 48.85 177 P 23 17.00 14.6X
 0.8s 1.10nm
 MAIO 59.93 297 eP 24 21.00 -2.3
 SLL 77.62 334 eP 26 11.90 -0.4
 0.5s 1.30nm 4.2mb
 S.D. = 1.4 on 12 of 15 obs.

% NOV 23, 1990 15h 40m 02.07±1.37s
 46.558 N ±11.4km 1.843 E ±10.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.8 (LDG).

TCF 0.37 137 Pg 40 09.60 -0.1
 Sg 40 14.30
 LSF 0.38 215 Pg 40 09.70 -0.1
 Sg 40 14.50
 BGF 0.69 90 Pg 40 15.70 -0.1
 AVF 1.07 77 Pg 40 22.20 0.1
 Sg 40 36.20
 SSF 1.25 66 Pg 40 25.00 -0.3
 Sg 40 42.30
 SMF 1.38 86 Pn 40 27.60 0.2
 Sg 40 45.00
 S.D. = 0.2 on 6 of 6 obs.

? NOV 23, 1990 17h 04m 01.54±1.07s
 39.995 N ±8.7km 28.873 E ±8.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.0 (ISK).

DST 0.43 206 iPg 04 10.30 -0.1
 KCT 0.47 303 ePg 04 10.50 -0.6
 IZI 0.57 53 iPg 04 13.20 0.0
 iSg 04 21.20
 BNT 0.81 297 ePg 04 18.00 0.7
 S.D. = 0.9 on 4 of 4 obs.

NOV 23, 1990 18h 46m 13.22±0.63s
 37.029 N ±6.2km 29.505 E ±6.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK).

ELL 0.43 131 iPg 46 21.50 -0.5
 eSg 46 28.50
 KSL 0.91 176 ePn 46 30.20 -0.4
 BCK 0.97 63 iPn 46 32.00 0.4
 CIN 1.27 297 eP 46 36.00 -0.7
 KHL 1.29 1 iPn 46 37.60 0.4
 ARG 1.37 234 ePb 46 40.00 1.6
 eSn 47 00.50
 ALT 2.08 13 ePn 46 54.00 5.4X
 SMG 2.23 289 ePn 46 50.00 -0.8
 IZM 2.24 308 ePn 46 51.00 0.0
 S.D. = 0.9 on 8 of 9 obs.

% NOV 23, 1990 19h 10m 45.73±0.54s
 40.831 N ±4.4km 27.957 E ±4.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

BNT 0.48 183 iPg 10 55.20 -0.2
 iSg 11 00.60
 CTT 0.48 48 iPg 10 55.10 -0.3
 EDC 0.49 188 ePg 10 56.00 0.3
 eSg 11 02.80
 KGT 0.63 233 iPg 10 57.50 -0.8
 iSg 11 07.60
 KCT 0.66 152 iPg 10 58.40 -0.4
 ISK 0.87 74 iPn 11 02.60 0.2
 DMK 1.00 351 iPn 11 04.80 0.1
 IZI 1.26 113 iPn 11 09.60 0.5
 HRT 1.30 90 iPn 11 09.60 -0.2
 DST 1.33 157 ePn 11 12.30 2.0X
 EZN 1.60 232 ePn 11 14.90 0.8
 S.D. = 0.5 on 10 of 11 obs.

NOV 23, 1990 19h 50m 56.24±0.77s
 42.023 N ±8.1km 15.565 E ±7.5km

DEPTH = 33.0km (normal)
 ADRIATIC SEA (382)

DUI 0.90 247 P 51 13.50 0.9
 eSn 51 27.40
 HVAR 1.33 29 iP 51 20.30 1.7
 SDI 1.34 257 P 51 19.10 0.2
 eSn 51 38.30
 AZI 1.59 269 P 51 23.80 1.5
 eSn 51 47.00
 AQU 1.64 282 P 51 23.90 0.7
 MGR 1.88 180 P 51 26.50 -0.2
 eSg 51 51.00
 MNS 2.17 281 P 51 30.60 -0.2
 eSn 52 02.00
 ASS 2.39 297 P 51 34.30 0.3
 ARV 2.43 308 P 51 33.00 -1.5
 eSn 52 05.20
 LCI 2.47 132 P 51 34.00 -1.0
 CRE 3.10 302 P 51 43.20 -0.9
 SFI 3.32 306 P 51 45.70 -1.4
 IGT 4.39 123 ePc 52 40.28 37.9X
 FNA 4.54 104 ePc 52 46.29 41.8X
 CTI 4.91 326 P 52 06.10 -3.7X
 eSn 53 00.50
 LIT 5.58 108 ePc 53 09.00 49.9X
 AGG 5.96 118 ePd 52 18.44 -6.1X
 eS 53 19.72
 S.D. = 1.2 on 12 of 17 obs.

% NOV 23, 1990 19h 57m 25.47±0.70s
 40.611 N ±7.0km 15.542 E ±9.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

MGR 0.47 179 P 57 35.30 0.2
 eSg 57 44.00
 TDS 1.13 147 P 57 46.80 0.2
 eSn 58 02.80
 DUI 1.33 322 P 57 50.50 0.4
 eSn 58 09.00
 SDI 1.70 311 P 57 55.00 -0.4
 eSn 58 17.60
 LCI 1.86 98 P 57 57.50 -0.1
 eSn 58 21.70
 ATN 2.45 181 P 58 05.80 -0.3
 eSn 58 35.80
 S.D. = 0.4 on 6 of 6 obs.

% NOV 23, 1990 20h 17m 37.87±0.74s
 18.500 N ±16.3km 95.794 W ±7.3km
 DEPTH = 10.0km (geophysicist)
 VERA CRUZ, MEXICO (525)

EVV 0.42 96 iP 17 45.83 -0.7
 iS 17 57.33
 LVVM 1.38 333 eP 18 03.50 0.4
 iS 18 27.53
 IISM 1.58 288 iP 18 06.00 0.1
 iS 18 31.60
 OXX 1.67 212 iP 17 56.46 -11.0X
 iS 18 14.41
 IIT 2.44 283 eP 18 18.00 -0.6
 PPM 2.74 282 iP 18 23.25 0.0
 SCX 3.49 120 (P) 18 34.00 0.8
 ACX 4.20 248 (P) 18 57.00 13.6X
 TPX 4.92 136 (P) 19 05.00 11.3X
 S.D. = 0.7 on 6 of 9 obs.

* NOV 23, 1990 20h 22m 34.23±1.75s
 9.997 S ±11.2km 118.690 E ±10.2km
 DEPTH = 98.5 ±21.5 km
 4.9mb (7 obs.)
 SUMBAWA ISLAND REGION (285)

TRT 6.40 290 iPc 24 09.00 1.4
 eS 25 11.80
 MBL 11.15 174 iPd 25 10.00 -2.1
 0.3s 13.00nm 5.2mb X
 eS 27 02.00
 KNA 11.37 121 eP 25 12.80 -2.1
 MTN 12.52 104 eP 25 29.80 -0.3
 0.3s 44.00nm 5.6mb X
 eS 27 37.00
 MEKA 16.53 180 eP 26 23.00 1.5
 eS 29 06.00
 WARB 17.77 156 eP 26 39.00 2.2

WB5 18.04 125 eS 29 45.00
 eP 26 39.30 -0.8
 MRWA 19.29 187 eP 29 48.50
 eS 27 07.00 13.0X
 eS 30 32.00
 ASPA 19.89 135 iPc 27 02.40 2.0
 0.6s 11.30nm 4.4mb
 Z 23s 0.50um 5.1mszx

BAL 20.59 185 eP 27 17.00 9.6X
 COOL 20.91 174 eP 27 22.00 11.3X
 eS 30 54.00
 KLB 21.51 182 eP 27 30.00 13.4X
 eS 31 03.00
 MUN 21.99 186 eP 27 35.00 13.6X
 eS 31 18.00
 FORR 22.52 158 eP 27 30.00 3.5X
 NWA0 22.86 183 eP 27 45.00 15.2X
 eS 31 37.00
 CHG 34.62 326 eP 29 16.00 -0.1
 WHN 40.52 354 eP 30 07.50 2.3
 SSE 40.93 3 eP 30 10.20 1.7
 NJ2 41.81 0 Pd 30 16.40 0.7
 CD2 43.12 341 P 30 26.30 -0.3
 XAN 44.76 348 P 30 39.00 -0.7
 GBA 47.18 299 Pc 30 57.70 -1.3
 0.6s 1.90nm 4.1mb
 LSA 47.55 327 Pd 31 02.40 0.1
 TIY 47.82 353 eP 31 04.00 0.2
 GUN 49.28 321 P 31 14.60 -1.0

0.7s 25.00nm 5.3mb
 PKI 49.34 320 P 31 15.00 -1.0
 0.5s 7.00nm 4.9mb
 DMN 49.56 320 P 31 16.88 -0.7
 0.6s 14.00nm 5.1mb
 KKN 49.57 320 P 31 16.94 -0.7
 BJI 49.84 357 eP 31 18.00 -1.1
 1.0s 12.00nm 4.9mb
 Z 36s 0.42um 4.2mszx
 GKN 50.13 320 P 31 20.70 -1.1
 0.5s 17.00nm 5.4mb
 GTA 52.19 342 eP 31 37.20 0.0
 Z 20s 0.30um 4.3msz
 MDJ 55.24 9 eP 32 00.00 0.7
 WMQ 60.52 335 P 32 36.70 0.4
 ZOBO 153.05 165 PKP 42 27.00 11.4X
 S.D. = 1.3 on 26 of 34 obs.

? NOV 23, 1990 20h 42m 23.82±5.77s
 30.494 N ±70.0km 83.222 E ±25.4km
 DEPTH = 33.0km (normal)
 TIBET (306)

GKN 2.77 153 P 43 07.32 0.3
 KKN 3.24 146 P 43 14.20 0.5
 DMN 3.31 150 P 43 14.40 -0.4
 GUN 3.47 137 P 43 17.16 0.0
 PKI 3.49 146 P 43 17.02 -0.4
 NDI 5.53 252 eP 43 46.00 0.0
 S.D. = 0.5 on 6 of 6 obs.

* NOV 23, 1990 21h 22m 39.86±1.07s
 40.148 N ±9.1km 20.347 E ±9.1km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.0 (ATH).

TPE 0.30 300 iPg 22 44.20 -1.9
 KEK 0.61 224 ePb 22 55.00 2.9X
 OHR 1.02 20 ePg 22 59.00 -0.2
 eSg 23 16.00
 KZN 1.10 81 ePn 22 58.50 -2.1
 eSn 23 14.50
 TIR 1.25 343 ePn 23 04.00 0.9
 PHP 1.54 3 ePn 23 08.40 1.1
 VLS 1.98 174 ePn 23 15.00 1.3
 SKO 2.00 24 ePn 23 14.50 0.4
 VAY 2.06 55 ePn 23 15.30 0.4
 S.D. = 1.5 on 8 of 9 obs.

NOV 23, 1990 21h 37m 13.42±0.78s
 37.255 N ±7.2km 26.535 E ±9.3km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.7 (ATH).

SMG 0.51 28 ePg 37 24.50 0.7

23d 21h

APE 0.82 257 ePg 37 29.50 0.1
 IZM 1.28 27 iPn 37 37.80 0.6
 ARG 1.65 129 ePb 37 41.80 -0.7
 PRK 2.00 354 ePb 37 52.00 4.4X
 NPS 2.12 201 ePn 37 50.00 0.6
 ATH 2.35 289 ePb 38 00.00 7.3X
 EZN 2.57 356 ePn 37 54.40 -1.4
 KHL 2.60 65 ePn 38 07.00 10.7X
 VAM 2.64 226 ePb 38 03.50 6.8X
 KSL 2.70 114 ePg 38 05.20 7.6X
 DST 2.87 34 ePn 38 03.80 3.8X
 VLI 2.93 261 ePb 38 08.50 7.6X

S.D. = 1.1 on 6 af 13 obs.

NOV 23, 1990 22h 15m 59.60±0.34s
 1.803 S ± 4.8km 78.084 W ± 6.7km
 DEPTH = 155.7 ± 3.1 km

4.7mb (26 obs.)

ECUADOR (107)

TUNG 0.53 317 P 16 22.50 0.1
 RECU 1.25 337 iPd 16 28.20 0.1
 OUR 1.68 345 iPd 16 32.30 0.0
 GGP 1.70 342 iP+ 16 33.00 0.3
 YANA 1.75 344 eP 16 32.30 -0.8
 NNA 10.19 173 iPd 18 22.70 -0.5
 0.6s 29.33nm 5.1mb
 UPA 10.81 352 ePc 18 31.80 0.6
 0.8s 116.42nm 5.5mb
 ZOBO 17.40 146 eP 19 46.00 -9.1X
 0.6s 19.56.00
 LPB 17.63 147 P 20 01.00 3.4X
 CNCB 17.92 147 P 20 02.00 0.9
 CCH 19.43 144 eP 20 16.00 -0.7
 SIV 21.90 131 P 20 42.40 1.3
 FVM 41.20 345 eP 23 29.10 -1.3
 1.0s 8.00nm 4.3mb
 ALO 45.20 327 eP 24 03.10 0.1
 0.7s 8.22nm 4.4mb
 RVR 51.29 318 eP 24 50.00 0.1
 GSC 51.69 319 eP 24 53.00 0.0
 MWC 51.89 317 eP 24 55.00 0.4
 SBB 52.00 318 eP 24 55.00 -0.3
 TNP 53.66 322 iP 25 07.20 -0.3
 1.0s 5.25nm 4.3mb
 ORV 57.22 321 iP 25 33.00 0.2
 LKO 73.06 80 P 27 13.76 -1.2
 0.5s 6.50nm 4.6mb
 LIC 73.37 83 P 27 15.90 -0.8
 TIC 73.40 83 P 27 16.10 -0.8
 KIC 73.66 83 Pc 27 17.50 -0.9
 0.6s 7.50nm 4.6mb
 LPF 82.69 41 iPc 28 07.10 0.1
 0.8s 8.05nm 4.6mb
 EPF 82.77 46 iPc 28 08.20 0.6
 1.0s 14.00nm 4.7mb
 GRR 82.88 41 iPc 28 08.10 0.2
 0.8s 24.20nm 5.1mb
 MFF 83.03 43 iPc 28 09.10 0.3
 0.7s 11.00nm 4.8mb
 FLN 83.19 41 iPc 28 09.80 0.3
 0.8s 10.75nm 4.7mb
 LFF 83.36 45 iPc 28 10.90 0.4
 0.6s 14.45nm 5.0mb
 LDF 83.39 41 iPc 28 11.00 0.4
 0.8s 13.45nm 4.8mb
 LPO 83.64 45 iPc 28 12.20 0.3
 0.8s 26.85nm 5.1mb
 RJF 83.96 44 eP 28 13.80 0.3
 0.8s 13.45nm 4.8mb
 LSF 84.11 43 iPc 28 14.40 0.1
 0.6s 7.20nm 4.7mb
 CAF 84.29 45 iPc 28 15.40 0.2
 0.8s 11.40nm 4.7mb
 TCF 84.59 43 eP 28 16.60 0.0
 0.6s 8.55nm 4.7mb
 MAF 84.82 43 eP 28 17.90 0.1
 0.6s 8.10nm 4.7mb
 BGF 85.06 43 eP 28 19.30 0.3
 0.8s 12.75nm 4.8mb
 AVF 85.44 43 eP 28 20.80 0.0
 0.8s 8.05nm 4.6mb
 SSF 85.58 43 eP 28 21.20 -0.3
 1.0s 10.00nm 4.6mb
 SMF 85.75 43 eP 28 22.50 0.1

LOR 0.8s 5.35nm 4.4mb
 85.84 43 eP 28 22.60 -0.3
 0.6s 3.15nm 4.3mb
 CDF 88.25 42 eP 28 34.50 0.0
 0.8s 5.35nm 4.6mb
 WRA 141.55 234 PKP 35 08.00 -6.8X
 0.5s 2.50nm
 WBS 141.56 234 ePKP 35 08.80 -6.1X
 0.5s 35 40.20
 LZH 145.84 357 ePKP 35 25.00 3.1X
 1.3s 19.00nm
 GKN 149.15 31 PKP 35 30.34 2.9X
 KKN 149.65 30 PKP 35 32.54 4.3X
 DMN 149.71 31 PKP 35 32.56 4.1X
 GUN 149.85 29 PKP 35 37.56 8.8X
 PKI 149.89 30 PKP 35 34.08 5.3X
 S.D. = 0.6 on 41 af 51 obs.

? NOV 23, 1990 22h 21m 34.09±5.03s
 62.146 N ± 21.5km 4.360 E ± 39.9km
 DEPTH = 10.0km (geophysicist)
 NORWEGIAN SEA (642)
 MD 1.8 (BER).

SUE 1.11 170 eP 21 55.00 0.1
 0.6s 22 08.00
 HYA 1.31 138 iP 21 57.60 -0.7
 0.6s 22 11.00
 MOL 1.55 73 iPd 22 01.18 -0.5
 0.6s 22 18.33
 NRA0 3.73 109 Pn 22 34.00 1.1
 0.6s 23 19.80
 S.D. = 1.4 on 4 af 4 obs.

NOV 23, 1990 22h 35m 34.71±0.09s
 4.707 N ± 1.9km 75.574 W ± 2.0km
 DEPTH = 144.6km (geophysicist)
 5.7mb (73 obs.)

COLOMBIA (103)

mb 5.7 (BRK). Slight damage at
 Pereira. Felt at Manizales,
 Cali, Medellin, Bogota and
 Bucaramanga and as far east as
 Villavicencio. Depth from
 broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=270 Dip=83 Slip= 113
 NP2: 16 24 17
 Principal Axes:

T Val= 1.54 Plg=47 Azm=204
 P 34 341

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

RADIATED ENERGY
 No. of sta: 4 Focal mech. C
 Energy 4.1±1.3×10¹² Nm

MOMENT TENSOR SOLUTION
 Dep 158 No. of sta: 12
 Moment Tensor: Scale 10¹⁸ Nm

Mrr= 0.39 Mtt=-0.55
 Mff= 0.16 Mrt=-1.34
 Mrf= 0.27 Mtf=-0.52

Principal axes:
 T Val= 1.54 Plg=48 Azm=212
 N 0.00 23 95
 P -1.54 33 349

Best Double Couple:Mo=1.5×10¹⁸
 NP1:Strike= 26 Dip=24 Slip= 20
 NP2: 278 82 113

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 125, 29C

Centroid Location:
 Origin Time 22:35:34.6 0.4
 Lat 4.45N 0.03 Lon 75.46W 0.04
 Dep 147.0 1.2 Half-duration 3.0

Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-4.49 0.24 Mtt= 0.01 0.35
 Mff= 4.49 0.42 Mrt=-7.45 0.22
 Mrf=-5.42 0.28 Mtf= 4.64 0.32

Principal Axes:

T Val= 12.04 Plg=28 Azm=129
 N -1.80 17 229
 P -10.24 56 346
 Best Double Couple:Mo=1.1×10¹⁸
 NP1:Strike=182 Dip=23 Slip=-139
 NP2: 53 75 -72

HOBC 0.66 238 iPd 35 55.00 -1.8
 BUGC 1.06 220 iPd 35 58.79 -1.1
 CLMC 1.28 230 iPd 36 01.46 -0.7
 BOG 1.51 93 iPc 36 06.50 1.9X
 0.6s 36 34.00

DIAC 1.54 204 iPd 36 03.83 -1.0
 HOOC 1.62 221 iPd 36 04.60 -1.2
 ANCC 1.75 227 iPd 36 06.22 -0.8
 FUO 1.98 67 iP 36 10.00 0.0

SALC 2.05 213 iPd 36 09.81 -0.9
 SILC 2.15 201 iPd 36 12.14 0.0
 PURC 2.50 198 iPd 36 17.19 0.7
 BMG 3.42 46 eP 36 28.00 0.0

PSO 3.90 207 eP 36 34.50 -0.2
 CUMC 4.37 212 iPd 36 40.74 -0.3
 YANA 5.65 212 eP 36 59.00 0.9
 OUR 5.67 211 eP 36 57.70 -0.7

GGP 5.71 212 eP 36 59.00 -0.1
 UPA 5.79 317 iPc 36 57.50 -2.0
 0.6s 37 48.80

UAV 5.86 48 iPnc 37 00.60 -0.1
 0.6s 37 03.00
 ECO 6.17 319 iPc 37 02.80 -2.0
 0.6s 37 41.00

SDV 6.43 49 iPnd 37 07.40 -1.0
 0.6s 37 18.60
 TOV 7.64 48 iPnc 37 23.40 -1.2
 0.6s 37 46.10

CEOS 8.37 59 iP 37 31.50 -3.0X
 0.6s 38 57.00
 MORO 9.44 49 eP 37 46.00 -2.7X
 0.6s 39 30.00

GUAC 9.87 56 eP 37 52.00 -2.4X
 OLLA 10.17 58 iPc 37 55.00 -3.3X
 0.6s 39 51.00

CAR 10.33 56 iPd 37 58.00 -2.4X
 0.6s 38 49.00
 LLAV 10.41 56 iPc 37 58.70 -2.7X
 0.6s 39 52.00

GUAN 11.14 62 eP 38 08.00 -3.1X
 0.6s 40 07.00

TCE 14.93 66 eP 39 01.90 2.2X
 TPP 15.07 67 eP 39 01.97 0.5
 TRN 15.23 66 eP 39 03.41 -0.1
 0.6s 41 53.78

TBH 15.48 67 eP 39 06.41 -0.2
 GRW 15.62 61 eP 39 08.46 0.0
 PORP 15.89 33 P 39 07.50 -4.1X
 BOT 16.05 66 eP 39 13.26 -0.4

SJG 16.20 34 P 39 12.70 -2.8X
 CPD 16.27 35 P 39 14.30 -2.1
 SVB 16.50 58 eP 39 18.23 -1.0
 0.6s 42 21.75

LPR 16.52 34 P 39 17.80 -1.6
 SVV 16.55 58 eP 39 18.89 -1.0
 NNA 16.63 184 iPc 39 20.30 -0.6
 1.8s 590.91nm 5.6mb

SLB 16.95 57 eP 39 24.09 -0.7
 BIM 17.29 55 eP 39 27.32 -1.6
 FDF 17.35 54 eP 39 27.40 -2.2
 0.4s 4.60nm 4.1mb X

MVM 17.46 55 eP 39 29.30 -1.6
 MDN 17.48 52 eP 39 26.89 -4.2X
 BBL 17.54 51 eP 39 31.00 -0.9

CRM 17.55 54 eP 39 30.78 -1.2
 NEV 17.75 45 eP 39 32.71 -1.6
 SEG 18.05 49 eP 39 37.00 -0.7

BPA 18.20 47 eP 39 37.80 -1.6
 TPX 19.30 303 (P) 39 52.00 1.1
 ARE 21.42 169 eP 40 13.00 0.3

ZOBO 22.11 161 ePc 40 17.93 -1.8
 LPB 22.36 161 P 40 23.00 1.0
 1.0s 384.00nm 5.8mb

CNCB 22.66 161 P 40 25.00 -0.1
 0.6s 46 36.00
 EVV 23.67 307 (P) 40 34.50 0.3

CCH 23.84 157 P 40 35.50 -0.8

XXX	24.10	302	(P)	40	41.50	2.9X	PDCR	40.07	116	eP	42	55.60	-2.0				isPc	45	23.28		
SIV	25.08	145	Pd	40	46.00	-1.6			i	42	58.90			SAO	52.71	314	iScP	49	27.30		
LVVM	25.23	308	(P)	40	48.50	-0.4	EMM	40.50	9	P	43	01.90	1.2		ARN	53.03	314	e(P)	44	36.00	-0.6
ISM	25.58	306	(P)	40	53.50	1.4	MIM	40.78	7	P	43	03.70	0.7		MHC	53.10	314	P	44	39.20	0.2
IIT	26.35	305	(P)	40	54.00	-5.5X	BMA	41.05	133	eP	43	15.20	9.6X				ePd	44	39.90	0.3	
PPM	26.64	304	(P)	41	05.00	2.6X			e	43	17.70						eScP	49	30.50		
ACX	26.70	299	(P)	41	06.50	4.1X			e	43	27.10			GCC	53.22	314	ePd	44	40.20	-0.1	
III	27.01	302	(P)	41	08.00	2.5X			e	43	49.50			PCC	53.70	314	eP	44	43.20	-0.7	
CRX	27.67	304	(P)	41	13.50	2.0	JFO	41.08	131	eP	43	04.40	-1.5		BKS	53.76	314	iPd	44	42.00	-2.3
HBf	28.44	351	P	41	18.40	0.5			e	43	39.20					0.7s	144.00nm			5.9mb	
SGS	28.71	351	P	41	20.90	0.6	ALQ	41.48	320	iPd	43	09.90	0.7				epP	45	19.20	162kmX	
JSC	29.89	351	P	41	30.90	0.1			1.0s	212.50nm		5.7mb					isP	45	34.00		
PRM	29.90	349	P	41	31.20	0.3				epP	43	41.00	139kmX				e(S)	51	11.00		
LHS	30.02	351	P	41	32.00	0.1	ANMO	41.48	320	iPd	43	10.08	0.9				eSS	52	08.00		
TKL	31.72	347	P	41	46.70	-0.1			0.8s	158.58nm		5.7mb					eSKP	58	23.00		
GBTN	31.82	347	P	41	48.10	0.4				ed	43	11.24		BRK	53.78	314	eP	44	44.40	0.0	
PWLA	32.27	341	P	41	49.00	-2.6X				epPd	43	43.02	148kmX				eScP	49	33.30		
BLA	32.65	353	eP	41	56.00	1.0				esPc	43	57.59		ORV	54.01	317	ePd	44	46.00	-0.1	
	0.8s	410.45nm			6.2mb				eS	49	15.92						epP	45	19.00	142kmX	
		pP	42	45.00	242kmX				eSS	50	02.82						eScP	49	34.60		
NAV	32.81	352	P	41	56.60	0.3	CBM	42.56	8	P	43	18.50	0.9	FFC	54.25	341	iPd	44	45.60	-2.0	
		pP	42	28.60	149kmX		LPA	42.76	158	ePd+	43	18.00	-1.3				0.9s	182.00nm		5.9mb	
NA2	33.32	357	P	42	00.80	0.1				esP	43	50.00		SES	54.40	333	iPd	44	47.70	-1.1	
CBN	33.38	357	eP	42	01.60	0.4			0.9s	645.38nm		6.3mb					0.7s	240.00nm		6.2mb	
	0.1s	230.60nm			6.8mb X				eS	53	02.00		MIN	54.45	317	ePd	44	48.20	-1.3		
		e	42	35.00					eS	53	02.00					eScP	49	34.60			
BAO	33.97	127	ePc	42	05.60	-1.1	GLD	43.97	327	P	43	29.80	0.4	LTCM	54.74	317	P	44	50.00	-1.4	
OLY	33.98	338	P	42	04.80	-1.6	GOL	44.02	327	P	43	29.80	-0.1	LBFM	55.11	318	P	44	53.20	-1.2	
BDF	34.06	127	ePc	42	05.98	-1.5			1.2s	434.43nm		6.0mb		WDC	55.19	317	iPd	44	51.80	-2.8X	
		epPc	42	37.76	147kmX		RSSD	46.56	332	P	43	49.00	-0.9				eScP	49	37.50		
		esPd	42	54.98			MSU	47.29	320	P	43	56.10	0.4	NEW	56.01	328	P	44	58.50	-2.0	
		eS	47	11.57			BAR	47.37	311	eP	43	56.00	-0.2		1.0s	95.00nm			5.7mb		
		e	48	19.72			TPC	47.58	313	eP	43	58.00	0.2	FHC	56.27	317	ePd	45	02.60	0.1	
UYO	34.16	331	iPc	42	16.70	8.8X				e	44	31.00					epP	45	34.80	137kmX	
PPD	35.64	139	ePc	42	15.40	-5.2X	PFO	47.64	312	ePd	43	58.92	0.5				eScP	49	44.20		
		e	42	31.80					epPd	44	30.37	137kmX	EDM	57.40	334	iPd	45	08.00	-2.2		
FVM	35.79	340	P	42	21.00	-0.7			isPc	44	47.09			0.8s	365.00nm				6.4mb		
LVNJ	35.95	1	P	42	24.30	1.3			eS	50	47.01		COR	57.58	321	ePd	45	11.76	0.2		
SCP	35.99	357	iPd	42	23.94	0.6			eSS	51	41.92					e	45	12.59			
		e	42	24.93			PLM	47.82	312	P	44	00.00	0.2				eScP	46	01.25		
		epPd	42	56.38	146kmX		PEC	48.29	312	P	44	03.20	-0.1	LON	57.78	324	iPd	45	12.35	-0.6	
		esPc	43	10.95			RVR	48.50	312	eP	44	05.00	0.2				e	45	13.18		
		ePP	43	50.75					e	44	38.00					esPc	45	59.53			
GMTN	36.04	2	iP	42	24.20	0.5	DUG	48.69	322	P	44	06.60	0.3	PNT	57.96	328	ePd	45	13.00	-1.2	
		i	42	56.60			GSC	48.70	314	iPd	44	07.22	0.8		0.8s	165.00nm			6.0mb		
		i	43	17.70					isPc	44	55.40		BMW	58.47	323	P	45	17.40	-0.4		
PNJ	36.06	2	iP	42	24.30	0.4	MWC	49.11	312	eP	44	10.00	0.3	GMW	58.76	324	P	45	18.30	-1.4	
		pP	42	56.60	145kmX		SBB	49.15	313	eP	44	09.00	-0.9	FRB	59.14	4	ePd	45	19.50	-2.5X	
		i	43	15.50			PAS	49.16	312	ePd	44	10.60	0.7		0.5s	93.00nm			6.0mb		
TBR	36.30	2	P	42	26.50	0.6			isPc	44	58.61					pP	45	56.00	155kmX		
TXNY	36.33	2	iP	42	27.20	1.0			eSPP	45	54.00		PGC	59.71	325	ePc	45	26.00	-0.2		
ZON	36.64	170	eP	42	29.80	0.8			ePP	46	06.00			1.5s	278.00nm				6.0mb		
		i	43	03.00					ePPP	46	38.00		TIO	69.01	59	iP	46	27.00	0.0		
		ePcS	49	12.00					ePcS	49	12.00					i	46	40.40			
MEO	36.74	327	iPc	42	29.00	-0.7			iS	51	08.96		AVE	69.20	56	iPc	46	28.50	0.6		
CFA	36.78	170	ePd	42	30.00	-0.1			eSS	51	56.42					i	47	24.00			
CLE	37.01	353	iP	42	32.80	0.9			eSS	52	04.00		LKO	69.52	82	P	46	28.80	-1.4		
SOB1	37.23	112	eP	42	32.70	-1.4			eScS	53	50.00			0.8s	297.00nm				6.2mb		
JACH	37.48	173	iPc	42	39.60	3.5X			eSS	54	49.00		EZAM	69.79	47	iPd	46	31.70	0.4		
WVLY	37.70	356	P	42	38.70	1.0			eSSS	56	26.00		SIT	69.96	330	eP	46	31.60	-0.4		
ROCH	37.72	174	eP	42	39.00	0.8			eLR	58	32.00			1.3s	109.50nm				5.5mb		
HRV	37.81	5	iPd	42	39.75	1.2	CLC	49.51	314	eP	44	12.00	-0.6	STS	70.05	46	iPc	46	32.40	-0.5	
		ed	42	41.24			ISA	50.07	314	eP	44	17.00	0.1	TIC	70.19	85	P	46	32.64	-1.6	
		epPd	43	12.69	150kmX		ABL	50.24	312	P	44	18.00	-0.4		0.8s	188.00nm				6.0mb	
		eSP	44	27.42			TNP	50.37	317	P	44	19.60	0.3	LIC	70.20	85	P	46	32.90	-1.4	
		ePP	44	14.01				0.9s	107.42nm		5.6mb			0.8s	248.00nm				6.1mb		
		iS	48	22.33			SCH	50.46	7	ePd	44	19.10	-0.4	AIA	70.27	175	eP	46	35.40	1.7	
		eSS	49	15.71				0.8s	227.00nm		6.0mb		EVAL	70.40	52	iPd	46	35.00	-0.1		
		eSS	51	08.28			SYP	50.66	312	eP	44	21.00	-0.5	KIC	70.48	85	P	46	34.74	-1.3	
PEL	37.93	173	iPc	42	41.20	1.5			e	44	56.00			0.8s	359.50nm				6.2mb		
	0.6s	33.33nm			5.3mb											S	55	33.00			
FCH	38.16	173	eP	42	43.00	1.0	BLP	50.99	312	P	44	23.50	-0.3	REY	70.60	22	iP	46	38.10	2.3	
LCCB	38.16	173	iPd	42	43.00	1.4	HPI	51.00	325	P	44	24.00	-0.1	ERUA	70.96	47	iPd	46	38.20	-0.2	
SAN	38.23	175	eP	42	41.00	-1.3	BCH	51.03	312	P	44	24.80	0.6	EMON	71.04	46	eP	46	38.80	-0.1	
DLA	38.36	353	P	42	43.35	0.2	KVN	51.46	318	P	44	26.80	-0.7		71.13	56	iPd	46	40.00	0.2	
TACH	38.40	174	eP	42	44.00	0.3	PHAM	51.54	313	P	44	28.50	0.5	IFR	71.24	53	iPd	46	41.10	0.9	
PCH	38.42	173	eP	42	44.50	0.6	FRI	51.57	315	ePd	44	26.60	-1.5	EJIF	71.24	36	eP	46	49.00	9.2X	
LDN	38.50	353	P	42	44.60	0.3			eScP	49	22.30		VAL	71.24	49	iPd	46	40.00	-0.7		
LNV	38.65	174	eP	42	46.20	0.5	PRI	51.87	313	ePd	44	30.20	-0.4	EPLA	71.33	49	iPd	46	40.00	-0.7	
ELF	38.66	353	P	42	45.85	0.2			epP	45	04.40	148kmX	EPRU	71.50	53	eP	46	43.40	1.6		
VAO	39.23	136	eP	42	48.70	-2.0			eScP	49	22.20		EHOR	71.61	52	eP	46	42.40	0.0		
		e	42	56.50			LRM	51.99	328	eP	44	30.60	-0.9	AKU	72.78	21	iP	46	50.40	1.8	
		e	43	04.10			LLA	52.28	314	iPd	44	32.80	-0.7		1.5s	266.67nm					

23d 22h																									
AFC	72.87	53	iPd	46	50.60	0.6						0.9s	245.00nm		5.9mb		CRE	84.99	47	P	47	54.90	-0.3		
ECP	73.61	37	iPd	46	54.30	0.6							S	57	23.00		VVI	85.26	44	P	47	57.00	0.6		
	0.6s	80.00nm				5.6mb											WET	85.46	41	eP	47	57.50	0.1		
ETA	73.83	36	iPd	46	55.40	0.4						DBN	80.62	38	eP	47	34.00	1.5	FVI	85.48	44	P	47	58.20	0.8
	0.6s	95.00nm				5.7mb						IMA	80.90	336	iPd	47	33.10	-0.8	BHG	85.51	43	iPc	47	58.50	0.9
ENIJ	73.89	53	eP	46	55.20	-0.6							e	48	10.90		ASS	85.53	47	P	47	57.00	-0.9		
INK	74.20	341	ePc	46	55.60	-1.3						LRG	80.93	47	eP	47	34.60	0.3	MNS	85.57	48	P	47	57.00	-1.0
	0.7s	89.00nm				5.6mb							1.0s	104.00nm		5.5mb	HFS	85.59	30	eP	47	57.20	-0.5		
		pP	47	32.00	148kmX							Z	20s	0.90um		5.1MsZ		1.8s	542.50nm			6.1mb			
ECRI	74.38	47	iPc	46	59.10	0.6						ENN	80.99	39	iPd	47	35.00	0.5	Z	19s	0.62um		5.0MsZ		
ETOR	74.47	49	iPc	46	59.90	0.8							0.8s	167.00nm		5.8mb		LR	16	34.00					
KUK	74.82	85	eP	47	02.00	0.5							i	48	11.00		ANM	85.70	334	eP	47	57.60	-0.6		
WEGH	74.90	85	eP	47	00.50	-1.5						LMR	81.03	47	eP	47	34.80	-0.1	ARV	85.72	47	P	47	58.20	-0.5
KOGH	74.95	85	eP	47	01.00	-1.3							0.8s	61.80nm		5.4mb		KHC	85.92	41	eP	48	00.00	0.4	
LEGH	75.04	85	eP	47	02.00	-0.7						MEM	81.04	40	iPc	47	35.46	0.8		1.2s	50.00nm		5.2mb		
ECHE	75.16	50	eP	47	04.10	1.1							e	48	11.70				e	48	40.30				
SHGH	75.16	85	eP	47	03.50	0.1						SVW	81.09	331	iPd	47	33.40	-1.5		S	58	23.00			
TEGH	75.22	85	eP	47	03.50	-0.3						HAU	81.12	42	eP	47	34.40	-0.9	BRG	86.08	39	iPd	48	01.00	0.7
MBC	75.44	350	ePd	47	02.60	-1.3							0.8s	32.25nm		5.1mb			1.5s	140.00nm			5.6mb		
	0.8s	234.00nm				6.0mb						Z	21s	0.38um		4.7MsZ			i	48	38.00				
EAB	75.71	33	ePc	47	05.40	-0.3						FRF	81.14	47	eP	47	35.40	0.0	TRI	86.20	45	ePc	48	02.00	1.0
	0.8s	75.00nm				5.5mb							1.0s	104.00nm		5.5mb		VOY	86.28	44	ePc	48	02.30	0.8	
ELO	76.11	33	ePc	47	07.10	-0.9						BNI	81.21	45	P	47	36.80	0.8	SDI	86.45	49	P	48	03.00	0.6
BTH	76.12	47	eP	47	08.50	0.2						LPL	81.27	45	eP	47	36.80	0.4		e	49	39.00			
		(PcP)	47	18.00									0.8s	35.60nm		5.2mb		PRU	86.51	40	Pd	48	03.20	0.8	
		isP	48	00.50								LPG	81.28	45	eP	47	36.90	0.4		1.7s	139.70nm		5.6mb		
		isPcP	48	10.00									1.0s	62.50nm		5.3mb			e	48	28.50				
		i	48	36.50								RRL	81.29	45	P	47	37.75	1.3		pP	48	39.10	141kmX		
EKA	76.18	34	Pd	47	08.70	0.4						BSF	81.41	42	eP	47	36.00	-0.9		PP	51	26.70			
	1.7s	326.80nm				5.8mb							0.7s	55.10nm		5.4mb		CEY	86.67	45	eP	48	04.00	0.7	
EBH	76.18	33	ePc	47	08.20	-0.1						EMS	81.43	44	ePc	47	37.90	0.8	LJU	86.72	44	eP	48	04.80	1.2
	0.8s	84.00nm				5.5mb					TTA	81.48	333	eP	47	35.70	-1.2	DUI	86.93	49	P	48	07.00	2.3	
LPF	76.18	42	eP	47	07.90	-0.6						PZZ	81.50	46	P	47	38.16	0.7	VBY	87.26	45	ePc	48	05.00	-1.1
	0.6s	56.80nm				5.5mb					LSD	81.57	45	P	47	39.19	1.2	KSP	87.57	39	iPd	48	08.50	1.0	
MID	76.24	330	e(P)	47	09.10	0.6						WIT	81.58	37	eP	47	39.50	2.0		0.8s	50.00nm		5.6mb		
PAE	76.27	251	eP	47	12.00	2.5						WTS	81.62	38	iPd	47	38.00	0.3		e	48	44.00			
	0.7s	40.00nm				5.3mb							0.7s	127.00nm		5.8mb		UPP	87.58	30	iP	48	07.30	0.0	
EDI	76.28	34	ePc	47	08.70	-0.2						STV	81.65	46	P	47	39.08	0.9	PTJ	87.72	44	eP	48	09.00	0.5
EBL	76.33	34	ePc	47	09.20	0.0						ENR	81.72	46	P	47	39.19	0.6	VKA	87.79	42	eP	48	09.50	0.9
EROO	76.33	49	iPc	47	10.00	0.5						SBF	81.72	47	eP	47	38.50	0.0		0.9s	24.60nm		5.2mb		
GRR	76.36	41	eP	47	09.10	-0.4							0.8s	85.95nm		5.5mb			i	48	45.60				
EBR	76.40	49	eP	47	11.00	1.2						CDF	81.75	42	eP	47	37.80	-0.9		i	49	03.10			
		eS	56	44.00									0.8s	45.65nm		5.3mb		MGR	87.86	50	P	48	09.50	0.4	
AFR	76.44	251	eP	47	11.00	0.5						ROB	82.04	46	P	47	40.42	0.2	SOP	87.99	43	eP	48	10.00	0.4
	0.7s	20.00nm				5.0mb					IMI	82.05	46	P	47	40.21	0.0	ZST	88.31	42	eP	48	11.40	0.3	
EDU	76.51	33	ePc	47	10.30	0.2						MMK	82.15	44	ePc	47	42.20	1.2		e	48	46.40			
EPF	76.51	47	eP	47	10.60	0.1						FIN	82.28	46	P	47	41.44	0.0		i	49	04.10			
	0.6s	77.50nm				5.6mb					CKI	82.34	46	P	47	42.20	0.5	TDS	88.50	51	P	48	14.70	2.5X	
MFF	76.59	43	eP	47	10.70	-0.1						ZLA	82.47	43	ePc	47	42.80	0.4	SRO	89.16	42	iP	48	15.60	0.5
ESY	76.60	34	ePc	47	10.40	-0.3						PCP	82.53	46	P	47	42.77	0.0		e	49	06.60			
	0.8s	78.00nm				5.5mb					SLE	82.55	43	ePc	47	43.00	0.3		i	49	06.60				
FLN	76.66	41	eP	47	11.00	-0.1						TNS	82.58	40	ePd	47	43.30	0.4	KEV	89.95	20	eP	48	20.00	1.6
	0.5s	91.10nm				5.8mb					BRW	82.73	341	eP	47	42.60	-0.6	KRA	89.97	40	eP	48	19.80	1.0	
Z	20s	0.4um				4.8MsZ					TMA	82.78	44	ePc	47	44.60	0.5		0.9s	54.00nm		5.6mb			
TOA	76.84	333	iPd	47	12.10	0.1						PGF	82.84	48	eP	47	44.30	-0.1		i	48	21.90			
LDF	76.87	41	eP	47	12.00	-0.3							1.0s	124.00nm		5.7mb			e	48	34.40				
	0.7s	76.05nm				5.5mb					LLS	82.88	44	ePc	47	45.50	0.9	SPC	90.27	41	eP	48	21.40	0.9	
LFF	77.01	45	eP	47	13.00	-0.1						SAX	83.12	43	ePc	47	46.70	0.7		i	49	14.80			
LPO	77.29	45	eP	47	14.50	-0.2						BOB	83.18	46	P	47	46.60	0.5	NUR	90.96	29	iP	48	23.00	-0.1
RJF	77.59	45	eP	47	16.10	-0.3						VDL	83.20	44	ePc	47	47.20	0.9		0.8s	48.40nm		5.7mb		
	Z	20s	0.77um			5.0MsZ					SDN	83.26	325	eP	47	45.60	-0.5		i	49	03.60				
LSF	77.70	44	eP	47	16.30	-0.7						MDI	83.36	45	P	47	43.70	-3.1X	SUF	91.20	27	iP	48	24.30	0.0
CAF	77.94	45	eP	47	17.90	-0.5						OSS	83.66	44	ePc	47	49.50	0.9		0.5s	9.60nm		5.2mb		
PMR	78.08	332	iPd	47	17.80	-0.9						SAL	83.94	45	P	47	50.30	0.6	OHR	91.73	49	eP	48	28.30	1.1
		e	47	56.30							PII	83.96	47	P	47	50.00	0.2		1.1s	82.00nm		5.8mb			
		e	48	14.50									e	48	25.00		SKO	92.09	48	iP	48	29.20	0.4		
ESEL	78.14	51	iPc	47	19.70	0.2						BDI	84.00	46	P	47	50.20	0.0		iS	59	20.00			
TCF	78.17	44	eP	47	18.90	-0.7						MME	84.08	46	P	47	51.30	0.5		i	00	20.00			
	1.0s	64.00nm				5.3mb					NB2	84.35	29	P	47	52.20	0.6		i	05	36.00				
FBA	78.26	335	iPd	47	18.80	-0.8							0.8s	78.20nm		5.6mb		FNA	92.21	49	ePd	48	30.28	0.8	
ETER	78.29	48	iPd	47	20.40	0.1																			

CMP	94.12	44	ePc	48 40.00	1.9		0.8 s	75.30nm			KDZ	5.41	349	iP	19 42.00	0.8	
RZN	94.55	48	iP	48 41.00	0.6	WB5	147.18	240	ePKP	55 00.50	-0.3	CSS	5.46	103	eP	19 41.20	-0.8
SPA	94.68	180	iPd	48 41.70	1.4			i	55 02.90					eSn	20 41.50		
	1.0 s	175.00nm		6.3mb				e	55 44.80			RZN	5.58	343	iPd	19 44.00	0.3
		i		49 21.10				eSKP	58 28.00			KZN	5.61	316	iPc	19 45.00	1.0
MLR	94.71	44	eP	48 42.00	1.1	OZH	147.47	336	PKP	55 00.00	-1.1	MMB	5.77	336	iPd	19 47.00	0.9
PVL	94.72	46	eP	48 39.00	-1.8	GBA	147.62	55	PKPd	55 00.80	-0.7	DIM	5.78	350	eP	19 44.00	-2.3
KDZ	95.07	48	iP	48 42.00	-0.6		0.6 s	70.90nm				BBTK	5.83	51	iPd	19 49.00	2.0
VR1	95.17	43	eP	48 44.00	1.1	RKG	148.53	200	ePKP	55 02.60	0.0	VAY	5.98	327	eP	19 49.80	0.9
ALN	95.68	48	iPd	48 44.88	-0.4	GYA	148.94	356	PKP	55 03.60	0.0	KKB	6.23	333	eP	19 52.00	-0.5
SHI	119.69	52	ePKP	54 09.00	-0.9			PP	58 38.00			DHLJ	6.27	151	P	20 28.30	35.4X
MDJ	125.96	338	ePKP	54 21.70	0.4	KOD	149.32	61	ePKP	55 05.50	0.8	OHR	6.70	317	eP	19 59.80	1.0
CN2	128.13	341	ePKP	54 25.00	-0.5	NWAO	149.48	202	iPKPd	55 04.80	0.8	SKO	7.01	325	iP	20 05.00	2.1
COO	128.49	234	ePKP	54 27.70	1.1	COOL	149.57	209	ePKP	55 09.00	4.7X	HLW	7.49	148	eP	20 09.75	0.2
		e		57 35.00		WARB	149.87	223	iPKPd	55 05.70	0.9			eS	21 28.80		
CNB	128.60	228	iPKPc	54 28.20	1.5	KMI	150.30	3	ePKP	55 06.06	0.3	ADI	7.64	113	eP	20 10.50	-1.0
		i		55 08.00				i	55 10.37		KOT	7.65	145	ePn	20 10.50	-1.1	
		e		57 54.00				e	55 16.16				eSn	21 29.50			
KSH	128.82	28	ePKP	54 27.50	0.4			iPP	58 42.18		ZNT	7.92	119	eP	20 14.00	-1.3	
CAN	128.87	227	ePKP	54 28.10	0.9			ePPP	58 44.39				eS	21 38.00			
		eSKP		57 34.90				esPP	59 35.43		LCI	8.03	302	P	20 14.00	-2.8	
WMO	129.39	16	ePKP	54 27.48	-0.5	KLB	150.47	204	iPKPc	55 06.00	0.4	SHMJ	8.20	114	P	20 19.40	0.3
		esPKPc		55 16.98		MUN	150.71	201	iPKPd	55 06.70	0.8	BURJ	8.47	116	Pc	20 22.80	0.0
		iPP		56 35.43		BAL	151.76	203	ePKP	55 08.00	0.5	TDS	8.92	295	P	20 26.50	-2.3
		ePPP		56 37.58		MTN	152.42	251	ePKP	55 10.00	1.2			eSn	21 57.00		
		esPP		57 12.51			0.3 s	56.00nm			ATN	9.25	285	P	20 30.70	-2.4	
		eSKP		57 51.57				e	55 16.00				eSn	22 04.80			
BWA	129.69	228	ePKP	54 29.80	1.0	BAG	153.63	323	ePKP	55 18.00	7.3X	SHWJ	9.37	127	P	20 36.20	1.3
		eSKP		57 36.20		KNA	153.69	244	ePKP	55 11.50	1.0	MBH	9.41	132	eP	20 35.00	-0.2
QUE	130.10	44	ePKP	54 30.30	0.4			e	55 18.00		MEU	9.59	278	P	20 36.00	-1.8	
		e		54 37.00		DAV	155.86	299	ePKP	55 13.00	-0.6			eSn	22 13.10		
		e		58 50.20		CHG	156.01	13	ePKP	55 14.20	0.5	HQL	9.87	133	iPd	20 41.00	-0.4
TOO	130.28	223	iPKPc	54 30.80	1.0			e	55 40.30				eS	22 25.00			
SNY	130.50	341	ePKP	54 29.40	-0.6	CHTO	156.01	13	ePKPd	55 12.54	-1.1	BADA	10.41	136	eP	20 47.70	-0.8
RMO	132.46	238	e(PKP)	54 35.00	0.7			iPKPab	55 39.19		AYN	10.73	131	eP	20 53.00	0.2	
		e		57 47.00				e	55 50.28				eS	22 46.50			
BJI	134.18	347	ePKP	54 35.00	-2.0	BDT	157.54	14	ePKP	55 17.50	1.9	DUI	10.99	303	P	20 57.00	0.7
Z	52 s	2.42um		5.5mszx		MBL	157.83	221	ePKP	55 16.30	0.4	SDI	11.45	302	P	21 02.80	0.5
		e		55 16.00			S.D. = 0.9	on 386 of 429 obs.			CRE	13.52	307	P	21 33.00	3.8X	
		eS		57 02.00			? NOV 23, 1990 22h 43m 16.53± 0.90s										
		eS		58 52.00			38.164 N ± 7.9km 22.642 E ± 8.7km										
		e		09 12.00			DEPTH = 10.0km (geophysicist)										
BJI	134.18	347	PKP	54 35.00	-2.0	GREECE						KHC	16.03	327	eP	22 01.00	0.3
HHC	134.20	352	ePKP	54 38.00	0.7		ML 2.7 (ATH).					PRU	16.29	331	eP	22 05.50	1.7
		PP		57 07.00		ATH	0.87	102	eP	43 33.50	0.3	KSP	16.35	336	eP	22 05.00	0.4
CTA	136.54	246	ePKP	54 34.00	-8.2X			eS	43 44.50		FRF	17.05	301	eP	22 10.80	-2.5	
TIY	137.15	351	PKP	54 39.00	-3.9X	EVR	1.00	319	eP	43 35.80	0.3		0.8 s	10.75nm		4.2mb	
LZH	139.42	1	ePKP	54 39.00	-8.2X	ITM	1.13	210	eP	43 37.60	-0.2	LPG	17.68	307	eP	22 21.00	-0.2
Z	26 s	0.58um		5.2mszx		NEO	1.23	22	eP	43 39.00	-0.4		0.6 s	9.00nm		4.2mb	
		sPKP		55 27.50		VLI	1.46	171	eP	43 39.00	-3.9X	LPL	17.70	307	eP	22 21.10	-0.3
		PP		57 40.00		VLS	1.62	271	eP	43 49.00	3.8X		0.4 s	4.60nm		4.1mb	
		PKS		58 13.00			S.D. = 0.6	on 4 of 6 obs.			CLL	17.93	331	e(P)	22 40.00	16.1X	
		PPP		00 04.50			NOV 23, 1990 23h 18m 21.60± 0.29s										
		SKKS		04 21.50			36.350 N ± 3.8km 26.839 E ± 3.4km										
		SKKKS		05 27.00			DEPTH = 131.1 ± 5.1 km										
		PS		07 50.00			4.2mb (17 obs.)										
		PPS		08 39.00			DODECANESE ISLANDS (369)										
		SS		15 47.00		ARG	1.05	97	iPd	18 46.00	0.7		0.6 s	14.90nm		4.6mb	
NJ2	140.95	340	ePKP	54 42.00	-7.9X	APE	1.27	305	iPd	18 47.20	-0.5	HAU	19.07	314	eP	22 35.80	-0.4
		ePP		57 48.00		SMG	1.36	360	iPd	18 47.80	-0.7		0.7 s	8.80nm		4.2mb	
SSE	140.97	337	ePKP	54 42.70	-7.2X	NPS	1.47	223	iPd	18 50.20	0.4	SMF	20.00	308	eP	22 45.30	-0.5
	4.0 s	400.00nm				IZM	2.07	9	iPn	18 56.80	-0.2		0.6 s	5.40nm		4.1mb	
XAN	141.23	354	PKP	54 43.90	-6.5X	KSL	2.23	95	iPc	18 59.80	0.9	LOR	20.23	310	eP	22 48.20	0.0
		PP		57 50.00		VAM	2.34	247	eP	19 00.80	0.5		0.6 s	4.50nm		4.0mb	
POO	142.04	52	ePKP	54 46.50	-5.7X	ELL	2.50	80	iPn	19 03.50	1.0	AVF	20.36	308	eP	22 48.90	-0.5
GKN	142.30	29	PKP	54 46.26	-6.4X	KHL	2.91	47	iPn	19 08.70	1.0		0.8 s	8.05nm		4.2mb	
OIS	142.36	242	ePKP	54 48.00	-4.7X	PRK	2.93	351	iPd	19 07.00	-0.9	SSF	20.37	309	eP	22 48.80	-0.7
		e		55 31.00		ATH	2.97	304	iPd	19 09.50	1.0		0.6 s	18.05nm		4.6mb	
		e		58 15.00		VLI	3.16	278	iPc	19 11.00	0.0	BGF	20.60	307	eP	22 51.40	-0.5
KKN	142.78	29	PKP	54 48.70	-4.8X	BCK	3.20	69	iPn	19 13.00	1.4		0.6 s	8.10nm		4.3mb	
GUN	142.97	28	PKP	54 49.60	-4.4X	EZN	3.49	353	iPn	19 15.00	-0.4	MEM	20.68	320	Pc	22 53.60	1.1
	0.6 s	201.00nm				DST	3.54	23	iP	19 16.40	0.3	RJF	21.08	303	eP	22 57.50	0.8
PKI	143.03	29	PKP	54 49.02	-5.1X	ALT	3.74	43	iPn	19 15.70	-3.2		0.6 s	5.40nm		4.1mb	
	0.7 s	163.00nm				ITM	4.03	283	iPd	19 23.00	0.4	LPO	21.14	301	eP	22 57.60	0.3
LSA	143.50	20	PKPc	54 52.40	-2.6X	EDC	4.07	11	eP	19 23.10	0.0		0.6 s	7.20nm		4.2mb	
WHN	143.69	345	iPKPc	54 54.00	-0.6	BNT	4.09	12	iP	19 22.70	-0.7	DOU	21.14	317	P	22 56.50	-0.7
CD2	144.58	1	PKP	54 53.80	-2.4X	NEO	4.11	317	iPc	19 24.20	0.5	HFS	25.26	345	eP	23 35.40	-1.4
		PP		58 12.00		IZI	4.49	27	iP	19 29.10	0.3		0.4 s	1.70nm		3.9mb	
FORR	145.75	218	ePKP	54 57.00	-1.1	EVR	4.74	304	iPd	19 33.00	0.7	NBZ	26.63	343	P	23 47.60	-1.8
	0.5 s	64.00nm				CTT	4.95	14	eP	19 34.10	-0.9		0.6 s	1.10nm		3.6mb	
ASPA	145.90	234	iPKPd	54 58.10	-0.6	HRT	4.98	26	iP	19 35.10	-0.4	BCAO	32.67	195	ePc	24 47.10	3.9X
HYB	146.30	49	iPKPd	54 59.50	0.1	VLS	5.31	292	eP	19 38.80	-1.0		0.3 s	5.00nm		4.8mb	
	1.0 s	120.00nm										TIC	41.50	232	P	25 58.80	1.5
WRA	147.18	240	PKP	55 00.00	-0.8							KIC	41.54	232	P	25 59.00	1.4
												LIC	41.82	232	P	26 01.40	1.4
												S.D. = 1.2 on 80 of 85 obs.					

? NOV 23, 1990 23h 30m 02.87± 5.37s
31.673 S ± 43.6km 70.395 W ± 38.4km
DEPTH = 149.4 ± 44.2 km
CHILE-ARGENTINA BORDER REGION (127)

JACH	1.02	189	iPd	30	28.00	-0.2
			iS	30	43.50	
ROCH	1.40	202	iPd	30	38.50	6.6X
			iS	31	02.40	
ZON	1.47	86	e(P)	30	32.80	0.3
			eS	30	50.00	
FCH	1.65	177	iPd	30	34.50	-0.2
			iS	30	45.90	
MDZ	1.78	133	iP	30	42.90	7.0X
			iS	31	02.30	
SAN	1.79	187	iPc	30	36.30	0.4
			iS	30	57.50	
CFA	1.84	89	iPd	30	36.20	-0.3
			S	30	57.50	
PCH	1.95	183	iPc	30	38.00	0.2
			iS	31	01.10	
TACH	2.03	193	iPd	30	38.50	-0.2
			iS	31	02.40	
LCCH	2.05	209	eP	30	40.50	1.5X
			iS	31	04.80	
LNV	2.43	200	iPd	30	43.50	0.0
			iS	31	10.50	

S.D. = 0.4 on 8 of 11 obs.

? NOV 24, 1990 01h 00m 55.28± 1.08s
40.208 N ± 13.6km 29.228 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.1 (ISK).

IZI	0.23	55	iPg	01	00.20	0.0
			iSg	01	04.50	
KCT	0.67	274	ePg	01	08.00	-0.6
DST	0.76	218	ePg	01	10.20	0.1
			iSg	01	18.70	
BNT	1.01	279	ePn	01	15.00	0.6

S.D. = 0.8 on 4 of 4 obs.

NOV 24, 1990 01h 58m 25.42± 0.26s
4.139 S ± 5.0km 102.363 E ± 6.1km
DEPTH = 52.2km (4 depth phases)
5.2mb (20 obs.)
SOUTHERN SUMATRA (274)

NST	19.81	354	eP	02	56.00	1.5
LOE	21.42	358	eP	03	10.50	-0.6
BDT	21.50	351	eP	03	11.90	0.0
			0.8s	46.70nm	4.9mb	
CHG	23.05	352	iPc	03	28.00	0.7
			1.0s	20.00nm	4.5mb	
MBL	23.97	136	eP	03	37.00	0.9
KNA	28.41	116	eP	04	15.50	-1.8
KMI	29.09	1	Pc	04	24.50	0.9
			sP	04	43.00	
MTN	29.71	109	eP	04	27.00	-2.0
			0.3s	15.00nm	5.2mb	
GBA	30.38	306	P	04	36.20	1.3
GVA	30.70	8	P	04	38.00	0.2
			pP	04	54.20	67kmX
HYB	31.80	313	eP	04	47.00	-0.5
CD2	34.88	2	P	05	13.20	-0.7
WB5	34.89	119	iPc	05	13.50	-0.7
LSA	35.32	343	iP	05	18.00	-0.3
PKI	35.52	334	P	05	19.00	-0.8
			0.6s	31.00nm	5.4mb	
GUN	35.61	334	P	05	20.66	0.1
			0.4s	312.00nm	6.5mb X	
DMN	35.69	333	P	05	20.44	-0.7
			0.4s	27.00nm	5.5mb	
KKN	35.76	334	P	05	21.54	-0.2
			0.5s	114.00nm	6.1mb	
FORR	35.97	141	eP	05	23.00	-0.2
			0.4s	19.00nm	5.4mb	
ASPA	36.09	126	iPc	05	24.40	0.0
			1.1s	29.90nm	5.1mb	
			eS	10	57.70	
GKN	36.24	333	P	05	25.50	-0.1
			0.3s	98.00nm	6.3mb X	
WHN	36.34	18	Pd	05	27.50	1.2
XAN	38.47	9	iPc	05	44.30	0.1
NJ2	39.26	22	Pd	05	52.00	1.3

SSE	39.37	26	P	05	53.00	1.3
	1.0s	9.00nm			4.6mb	
OIS	39.73	117	iPc	05	54.50	-0.3
LZH	40.04	2	iPc	05	57.50	0.2
	1.5s	54.00nm			5.2mb	
Z	17s	0.39um			4.3mszX	
		pP	06	11.50	54km	
		sP	06	15.00		
NDI	40.62	325	iPd	06	02.00	0.0
	0.5s	98.59nm			5.8mb	
TIY	42.68	12	eP	06	18.40	-0.5
	18s	0.50um			4.4msz	
Z	10s	0.20um				
GTA	43.40	357	eP	06	25.00	0.3
	20s	0.50um			4.4msz	
		pP	06	37.60	46km	
BTO	45.07	8	eP	06	38.00	-0.2
ADE	45.52	137	iPd	06	43.00	1.2
HMC	45.56	10	P	06	43.10	1.1
CTA	45.57	114	iPc	06	42.10	-0.2
	1.0s	43.00nm			5.3mb	
BJI	45.76	15	eP	06	44.00	0.5
	1.0s	30.00nm			5.2mb	
Z	20s	0.30um			4.2msz	
QUE	48.09	318	eP	07	01.60	-0.7
WMO	49.54	346	iPc	07	13.00	-0.1
		pP	07	28.20	58km	
KSH	49.73	333	P	07	15.00	0.4
CN2	52.05	21	iPc	07	31.00	-1.1
	1.0s	60.00nm			5.6mb	
		epP	07	50.00	75kmX	
		PcP	08	42.00		
BWA	52.23	131	eP	07	35.50	1.8
MAT	52.51	36	eP	07	34.00	-1.6
	1.1s	20.25nm			5.1mb	
CAN	53.04	132	eP	07	40.10	0.5
COO	53.51	125	iPc	07	44.00	0.8
MDJ	54.32	24	eP	07	48.00	-0.8
MAIO	56.75	319	eP	08	05.00	-1.7
MBH	72.74	303	iPc	09	50.30	-0.1
PRNI	72.79	303	iPc	09	50.80	0.1
RMN	73.14	303	eP	09	53.00	0.2
BUL	73.33	250	eP	09	54.80	0.6
	0.8s	3.73nm			4.4mb	
PGZ	75.11	131	eP	10	04.10	0.2
VRI	83.02	317	ePc	10	46.50	-0.1
MLR	83.47	317	eP	10	48.50	-0.6
BCAO	84.18	275	ePd	10	54.10	0.9
	0.7s	9.00nm			4.9mb	
		i	11	08.80	51km	
NUR	87.55	331	iP	11	08.80	0.1
	0.7s	20.00nm			5.4mb	
KEV	88.82	340	eP	11	15.00	0.3
SRO	89.04	318	eP	11	12.30	-3.9X
ZST	89.89	318	eP	11	35.30	15.1X
HFS	92.89	330	eP	11	33.00	-0.7
	1.0s	11.20nm			5.2mb	
NB2	94.15	331	P	11	38.20	-1.3
	1.1s	6.80nm			5.0mb	
FFC	125.84	17	ePKP	17	22.00	-1.0
	0.9s	13.00nm				
ISA	131.00	45	ePKP	17	35.00	1.5
CLC	131.54	44	ePKP	17	30.00	-4.5X
SBB	131.95	46	ePKP	17	35.00	-0.4
GSC	132.36	44	ePKP	17	37.00	0.9
ALQ	139.36	37	ePKP	17	41.80	-7.6X
	1.0s	2.50nm				
PPD	143.39	224	e(PKP)	17	51.00	-5.7X
BAO	144.69	236	ePKPd	17	57.50	-1.6
SIV	154.14	219	PKP	18	13.80	0.3

S.D. = 0.9 on 63 of 68 obs.

% NOV 24, 1990 02h 37m 31.38± 0.75s
40.796 N ± 6.3km 28.968 E ± 6.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

ISK	0.28	14	iPg	37	37.50	0.3
			iSg	37	41.50	
HRT	0.53	87	iPg	37	42.00	-0.2
			iSg	37	48.50	
CTT	0.54	311	iPg	37	42.00	-0.3
			iSg	37	49.00	
IZI	0.60	140	ePg	37	43.50	0.0
			eSg	37	52.00	
KCT	0.72	221	iPg	37	45.70	0.2

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

& NOV 24, 1990 02h 53m 01.19s
59.754 N 153.339 W
DEPTH = 113.4km
SOUTHERN ALASKA (2)
<AGS-P>.

OPT	0.12	151	iP	53	16.42	0.9
			eS	53	28.40	
INW	0.33	18	eP	53	16.91	-1.0
			eS	53	29.51	
INE	0.34	24	iP	53	17.03	-0.9
			eS	53	29.98	
AUH	0.39	188	eP	53	17.53	-0.6
AGU	0.40	187	eP	53	17.67	-0.5
			eS	53	30.75	
AUI	0.42	186	eP	53	17.44	-0.7
PDB	0.43	275	iP	53	17.25	-1.0
			iS	53	29.97	
MCNL	0.76	222	iP	53	19.67	-1.0
			eS	53	33.65	
RS2	0.77	22	iP	53	20.26	-0.7
			iS	53	35.04	
RSO	0.77	22	iP	53	20.25	-0.7
			eS	53	34.70	
REF	0.80	23	iP	53	20.46	-0.8
RDN	0.82	20	eP	53	20.54	-0.8
			eS	53	35.52	
NCT	0.84	14	eP	53	20.78	-0.7
			eS	53	35.23	
CDD	0.84	191	iP	53	20.46	-1.0
			iS	53	34.95	
HOM	0.86	96	eP	53	21.07	-0.5
			eS	53	36.41	
XLV	0.88	109	eP	53	20.91	-0.8
RDT	0.95	29	iP	53	21.63	-0.9
			iS	53	37.04	
NNL	1.07	73	iP	53	23.66	0.0
CNPM	1.09	101	iP	53	22.71	-1.3

YAH 5.84 79 eP 54 25.16 -1.8
 IMA 6.34 359 ePc 54 32.10 -1.6
 59 obs. associated

• NOV 24, 1990 02h 59m 57.14±1.32s
 18.050 N ± 7.4km 100.396 W ± 13.2km
 DEPTH = 59.3 ± 16.0 km
 4.0mb (2 obs.)
 GUERRERO, MEXICO (59)

III 0.94 70 iP 00 14.82 0.1
 iS 00 26.68
 ACX 1.28 156 iP 00 18.80 -0.3
 iS 00 37.22
 CRX 1.51 27 iP 00 23.00 0.4
 (S) 00 51.00
 UNM 1.72 42 iP 00 25.50 0.1
 MRX 1.81 336 eP 00 26.87 0.4X
 iS 00 50.00
 PPM 1.96 59 iP 00 29.24 0.2
 IIT 2.20 64 iP 00 32.05 -0.2
 (S) 00 58.00
 IISM 3.01 71 iP 00 42.24 -1.2
 (S) 01 34.00
 CGX 3.34 300 (P) 00 29.00 -19.2X
 OXX 3.63 105 eP 00 53.51 1.1
 (S) 01 33.00
 LVVM 4.10 65 (P) 00 58.42 -0.3
 EVV 4.81 84 (P) 01 15.00 6.2X
 ALO 17.67 343 eP 04 00.80 -0.1
 0.9s 3.78nm 3.6mb
 e 04 20.00
 APO 85.76 27 eP 12 31.00 0.1
 0.5s 1.60nm 4.4mb
 S.D. = 0.7 on 11 of 14 obs.

& NOV 24, 1990 03h 12m 40.40s
 37.180 N 119.260 W
 DEPTH = 29.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

FRI 0.40 242 iPd 12 48.90 -0.4
 iS 12 54.90
 CMB 1.24 314 ePc 13 02.30 0.5
 eS 13 17.90
 LLA 1.46 248 ePc 13 06.60 1.5
 PRI 1.53 228 iPc 13 06.80 0.6
 i 13 16.30
 SAO 1.80 257 eP 13 10.20 0.3
 ARN 1.82 276 eP 13 10.70 0.4
 TNP 1.85 60 eP 13 10.50 -0.4
 MHC 1.91 276 eP 13 12.00 0.4
 8 obs. associated

% NOV 24, 1990 03h 20m 12.74±1.31s
 36.939 N ± 15.3km 29.279 E ± 8.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK).

ELL 0.54 111 iPg 20 23.50 -0.2
 iSg 20 36.50
 CIN 1.16 305 ePg 20 34.00 -0.4
 iSg 20 53.00
 BCK 1.17 63 iPn 20 35.00 0.4
 KHL 1.40 8 iPn 20 37.80 -0.5
 IZM 2.16 313 ePn 20 50.00 0.6
 ALT 2.21 17 ePn 20 54.00 3.9X
 S.D. = 0.7 on 5 of 6 obs.

% NOV 24, 1990 03h 21m 06.58±2.30s
 38.932 N ± 16.8km 28.258 E ± 21.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

DST 0.73 23 iPg 21 21.70 0.7
 iSg 21 35.20
 IZM 0.94 236 ePg 21 24.40 -0.2
 KCT 1.32 3 iPn 21 31.00 0.1
 BNT 1.45 350 ePn 21 31.00 -1.8
 EDC 1.45 348 ePn 21 33.00 0.2
 IZI 1.69 33 ePn 21 39.00 2.7X
 EZN 1.74 301 ePn 21 38.00 1.0
 S.D. = 1.3 on 6 of 7 obs.

% NOV 24, 1990 03h 56m 26.57±0.52s
 43.491 N ± 5.0km 12.691 E ± 5.6km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV 0.18 88 Pc 56 30.20 -0.5
 eSg 56 33.00
 ASS 0.42 183 Pc 56 34.40 -0.8
 eSg 56 41.30
 RSM 0.47 338 P 56 36.50 0.4
 eSg 56 44.70
 CRE 0.55 285 P 56 37.90 0.0
 eSg 56 46.90
 SFI 0.75 306 P 56 41.00 -0.1
 eSg 56 53.00
 PGD 0.80 299 P 56 42.00 -0.3
 eSg 56 57.00
 MNS 1.11 180 P 56 48.00 0.6
 eSn 57 03.80
 SDI 1.97 155 P 57 00.50 0.1
 eSn 57 24.10
 DUI 2.25 144 P 57 04.90 0.5
 S.D. = 0.5 on 9 of 9 obs.

? NOV 24, 1990 04h 16m 04.12±8.49s
 65.375 N ± 37.0km 165.775 W ± 67.2km
 DEPTH = 10.0km (geophysicist)

ALASKA (676)
 ML 3.9 (PMR).

ANM 0.83 168 iPd 16 20.00 -0.2
 TTA 4.93 115 eP 17 19.10 -0.9
 IMA 5.04 77 e(P) 17 22.90 1.3
 e 17 33.70
 SVW 6.27 128 eP 17 39.60 0.7
 FBA 7.59 85 e(P) 17 55.10 -2.3
 TOA 9.27 102 e(P) 18 22.10 1.3
 S.D. = 1.8 on 6 of 6 obs.

& NOV 24, 1990 05h 26m 16.84s
 65.842 N 144.527 W
 DEPTH = 10.0km (geophysicist)

ALASKA (676)
 <AGS-P>.

GLM 1.47 236 eP 26 43.50 0.0
 FBA 1.66 237 eP 26 45.32 -0.8
 eS 27 08.44
 HDA 1.77 217 eP 26 48.14 0.4
 eS 27 11.19
 MDM 1.79 242 eP 26 46.45 -1.5
 CCB 1.83 230 eP 26 48.72 0.2
 WRH 2.04 229 eP 26 51.87 0.3
 DDM 2.14 196 eP 26 51.96 -1.2
 DOT 2.21 175 eP 26 53.73 -0.4
 NEA 2.30 239 eP 26 53.53 -1.8
 TMW 2.61 165 eP 27 00.45 0.6
 BWN 2.69 234 eP 26 58.31 -2.5
 DWY 2.82 127 P 26 59.00 -3.7
 RND 3.07 219 eP 27 05.00 -1.4
 13 obs. associated

NOV 24, 1990 05h 53m 30.82±0.93s
 39.948 N ± 7.4km 23.895 E ± 6.6km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

PAIG 0.17 263 iPd 53 34.60 0.0
 eS 53 38.00
 SOH 0.97 335 iPc 53 48.85 -0.4
 eS 54 02.48
 THE 0.99 314 ePc 53 50.12 0.6
 eS 54 03.12
 LIT 1.09 279 ePc 53 51.90 0.6
 eS 54 06.84
 SRS 1.19 349 ePc 53 53.32 0.3
 eS 54 11.24
 KNT 1.43 328 iPd 53 57.36 0.5
 eS 54 17.00
 GRG 1.52 312 ePc 53 58.16 0.1
 iS 54 19.84
 AGG 1.52 233 ePc 53 57.48 -0.7
 iS 54 17.80
 MMB 1.64 356 eP 54 00.00 0.1
 RZN 1.85 19 iPc 54 02.00 -1.0
 ALN 1.90 59 ePc 54 04.48 1.0
 eS 54 28.32

KKB 2.01 342 eP 54 04.00 -1.2
 S.D. = 0.7 on 12 of 12 obs.

NOV 24, 1990 07h 46m 06.96±1.36s
 15.512 S ± 6.0km 177.302 W ± 4.4km
 DEPTH = 414.6 ± 15.0 km
 5.0mb (29 obs.)

FIJI ISLANDS REGION (181)
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 11S, 23C
 Centroid Location:
 Origin Time 07:46:16.3 1.3
 Lat 14.64S 0.14 Lon 177.38W 0.07
 Dep 393.0 3.3 Half-duration 1.9
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.42 0.06 Mtt=-0.47 0.12
 Mff= 0.89 0.11 Mrt= 0.26 0.09
 Mrf= 0.65 0.09 Mtf= 1.31 0.09
 Principal Axes:
 T Vol= 1.90 Plg=17 Azm=301
 N -0.61 71 152
 P -1.29 10 34
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike= 78 Dip=71 Slip= 5
 NP2: 346 85 161

AFI 5.58 74 P 47 31.00 -5.4X
 eS 48 15.00
 PVC 13.97 259 iPd 49 12.30 2.3
 DZM 16.71 245 iPc 49 38.90 0.3
 iS 52 41.00
 PUZ 22.81 189 eP 50 36.80 -0.6
 HNR 23.01 283 eP 50 40.00 0.7
 WLZ 23.11 194 P 50 41.60 1.5
 SVO 23.22 283 eP 50 40.00 -1.2
 VSG 23.28 283 P 50 44.00 2.1
 NOZ 23.38 189 eP 50 43.70 1.2
 PGZ 25.63 191 eP 51 01.20 -1.6
 MNG 25.79 193 eP 51 01.50 -2.8X
 THZ 27.49 196 eP 51 19.10 -0.4
 KHZ 27.95 195 P 51 21.70 -1.6
 PMO 28.36 93 iP 51 27.60 0.3
 1.2s 80.00nm 5.0mb
 VAH 28.60 93 iP 51 29.30 0.0
 1.2s 55.00nm 4.8mb
 LTZ 28.61 196 P 51 27.40 -1.9
 TPT 28.63 93 iP 51 29.80 0.2
 1.2s 55.00nm 4.8mb
 RUV 28.84 93 iP 51 31.70 0.3
 1.2s 80.00nm 5.0mb
 MMCZ 31.55 199 P 51 53.70 -1.1
 MHZ 31.56 198 eP 51 53.70 -1.2
 TLC 31.74 198 P 51 55.80 -0.7
 COO 31.94 237 iPc 51 59.60 1.4
 0.4s 23.00nm 4.9mb
 RMQ 33.42 245 eP 52 10.00 -0.7
 CTA 34.95 257 iPc 52 23.50 -0.2
 0.6s 72.00nm 5.2mb
 PMG 35.20 276 eP 52 26.00 0.2
 CNB 35.74 230 iPd 52 32.90 2.7X
 0.6s 54.00nm 5.1mb
 CAN 36.02 230 iPc 52 34.60 2.1
 e 53 51.00
 BWA 36.10 232 eP 52 33.30 0.1
 e 53 49.90
 CMS 37.15 238 iPc 52 43.00 1.1
 0.6s 46.00nm 5.0mb
 TOO 39.52 229 e(P) 53 04.00 2.8X
 0.6s 59.00nm 5.1mb
 QIS 41.20 256 eP 53 14.50 -0.5
 ADE 43.84 235 e(P) 53 38.00 2.0
 WB5 46.13 257 iPc 53 53.10 -0.9
 WRA 46.15 257 P 53 53.00 -1.2
 0.8s 51.90nm 4.9mb
 ASPA 46.50 252 iPc 53 57.00 0.1
 0.4s 249.20nm 5.9mb
 iS 00 13.60
 iScS 03 11.30
 iScS 03 29.30
 MTN 49.97 266 eP 54 22.50 -0.8
 0.3s 20.00nm 4.9mb
 FORR 51.98 243 iPd 54 37.50 -0.4
 0.4s 47.00nm 5.2mb
 WARB 53.11 249 iPd 54 46.30 0.1
 0.4s 11.00nm 4.5mb
 COOL 57.96 243 eP 55 20.00 -0.3

24d 07h

MBL	59.62	254	iPd	55	31.30	-0.3
KLB	60.85	242	eP	55	39.00	-0.7
NWAO	61.28	241	eP	55	42.00	-0.5
RKG	61.47	239	eP	55	48.00	4.3X
BAL	61.78	243	eP	55	45.00	-0.8
MUN	62.17	242	eP	55	48.00	-0.3
SBA	62.86	184	iPd	55	56.10	4.0X
MAT	66.65	322	eP	56	15.00	-1.7
SDN	72.00	10	e(P)	56	45.60	-2.7
GCC	73.75	43	eP	56	58.50	-0.3
PCC	73.77	43	eP	56	58.90	0.0
PRS	73.78	44	eP	56	59.40	0.3
SAO	73.97	44	eP	57	00.10	0.0
NWRM	73.99	42	P	57	00.30	0.2
BCH	74.03	46	P	57	00.80	0.2
BRK	74.06	42	eP	57	00.60	0.0
BKS	74.08	42	ePd	57	00.70	0.0
	0.8s	44.00nm			5.1mb	
PRI	74.15	45	eP	57	02.00	0.7
MHC	74.16	43	eP	57	01.60	0.2
PHAM	74.17	45	P	57	01.80	0.5
LLA	74.22	44	eP	57	01.80	0.2
ARN	74.24	43	P	57	02.00	0.3
ABL	74.45	46	P	57	03.20	0.0
SPA	74.59	180	iPd	57	11.40	8.0X
	1.0s	67.50nm			5.3mb	
FHC	74.68	39	eP	57	04.10	0.0
BAR	75.17	49	eP	57	06.00	-1.0
FR1	75.26	44	eP	57	07.40	0.1
PLM	75.37	49	P	57	08.60	0.3
CMB	75.38	43	P	57	08.10	0.1
	1.2s	57.87nm			5.2mb	
PEC	75.42	48	P	57	08.10	-0.3
	0.6s	5.17nm			4.4mb	
WDC	75.44	40	eP	57	08.40	0.2
LTCM	75.48	40	P	57	08.60	0.1
ORV	75.50	41	eP	57	08.20	-0.4
KDC	75.82	13	eP	57	08.50	-1.5
MIN	75.88	41	eP	57	10.30	-0.6
CLC	76.09	46	eP	57	12.00	0.0
LBFM	76.28	40	P	57	13.60	0.4
GSC	76.38	47	eP	57	14.00	0.3
KVN	77.43	43	P	57	19.80	0.3
TNP	77.52	44	P	57	20.00	0.0
	0.8s	26.96nm			5.0mb	
SVW	78.30	11	eP	57	22.40	-1.1
LON	79.48	35	P	57	30.10	0.0
RMW	79.90	35	P	57	32.70	0.4
TTA	79.94	10	ePd	57	32.20	0.0
PMR	80.04	13	eP	57	31.30	-1.3
	1.1s	35.50nm			5.0mb	
ANM	80.35	5	eP	57	33.90	-0.2
TOA	81.17	14	ePd	57	38.00	-0.6
MSU	81.18	46	P	57	40.70	1.3
DUG	81.54	44	P	57	41.30	0.3
	0.9s	13.72nm			4.7mb	
PNT	82.17	34	ePd	57	43.00	-0.9
	0.8s	46.00nm			5.2mb	
DAU	82.69	45	P	57	46.90	-0.2
BJI	82.85	315	eP	57	41.50	-5.9X
		eS			07 28.00	
NEW	82.96	36	P	57	47.80	-0.1
	1.0s	31.88nm			5.0mb	
PTI	83.10	42	P	57	50.00	1.1
IMA	83.24	9	iPd	57	48.90	-0.2
	0.9s	22.70nm			4.9mb	
FBA	83.25	12	iPd	57	48.00	-1.0
PV09	83.31	47	eP	57	50.80	0.6
ALO	83.78	51	ePd	57	52.10	-0.4
	1.0s	30.00nm			5.0mb	
ANMO	83.78	51	P	57	56.70	4.2X
LCCM	84.82	40	iPd	57	57.80	0.4
AIA	85.28	157	eP	58	02.70	3.6X
MAW	86.46	199	iPd	58	07.80	3.0X
	0.8s	42.00nm			5.3mb	
GOL	86.47	47	P	58	06.00	0.4
	1.0s	11.25nm			4.6mb	
GLD	86.59	47	P	58	07.00	0.9
	1.1s	18.32nm			4.8mb	
SES	87.47	36	iPd	58	10.20	0.3
	1.0s	89.00nm			5.5mb	
EDM	87.58	33	iPd	58	10.00	-0.3
RSSD	89.11	44	P	58	18.00	0.1
INK	89.31	15	ePd	58	16.70	-1.3
MEO	89.75	54	iPd	58	21.00	0.2
NNA	96.68	104	iPd	58	41.70	-11.2X

	0.8s	41.79nm			
FVM	96.97	53	P	58	54.20
MBC	97.79	12	eP	58	55.50
CCH	104.68	113	Pdiff	59	19.80
TBR	109.81	51	Pdiff	59	43.80
HBVT	110.81	48	Pdiff	00	09.10
CBM	114.24	45	Pdiff	00	31.00
PPD	115.25	124	ePdiff	00	37.10
		e		00	39.80
NB2	134.12	354	PKP	04	38.30
	1.0s	6.10nm			
KSP	143.09	346	ePKP	04	51.20
		e		05	33.80
CLL	143.34	349	ePKP	04	52.00
WTS	143.46	356	iPKPd	04	59.50
	1.0s	35.00nm			
MLR	144.29	332	ePKPd	04	55.00
PRU	144.29	347	ePKP	04	55.00
ENN	144.74	356	iPKPd	04	55.60
	1.0s	48.00nm			
UCC	144.78	358	PKP+	05	01.00
MEM	144.89	356	PKP	04	56.20
SRO	145.30	341	ePKP	04	57.40
KHC	145.31	347	PKP	04	58.80
	1.4s	29.00nm			
ZST	145.31	343	ePKP	04	58.50
		e		05	37.60
WET	145.44	348	iPKPc	04	59.50
MML	145.87	305	ePKP	05	02.00
BZS	146.04	336	ePKPc	04	59.50
MKT	146.61	303	ePKP	05	04.00
FLN	146.74	4	ePKP	05	02.00
	0.8s	33.60nm			
LDF	146.93	3	ePKP	05	02.50
	0.9s	31.10nm			
GRR	147.09	4	ePKP	05	03.00
	0.9s	45.85nm			
RMN	147.18	303	ePKP	05	05.00
LPF	147.43	5	ePKP	05	04.10
	0.8s	60.45nm			
PTJ	147.73	343	iPKPc	05	05.50
LOR	148.32	358	ePKP	05	06.40
	1.0s	27.00nm			
SSF	148.54	359	ePKP	05	07.10
	1.0s	26.00nm			
LBF	148.60	358	ePKP	05	07.30
	1.0s	24.00nm			
CTI	148.65	348	PKPd	05	07.00
LWI	148.73	238	iPKPd	05	11.00
AVF	148.81	359	ePKP	05	07.60
	0.8s	10.75nm			
MFF	148.91	4	ePKP	05	08.10
	1.0s	32.00nm			
SMF	148.95	358	ePKP	05	07.50
	1.2s	35.70nm			
BGF	149.05	360	ePKP	05	08.40
	1.0s	38.00nm			
SAL	149.28	349	PKP	05	09.00
VAI	149.31	352	PKP	05	04.00
TCF	149.32	1	ePKP	05	08.90
	1.0s	24.00nm			
LSF	149.34	2	ePKP	05	08.80
	1.0s	33.00nm			
MAF	149.38	0	ePKP	05	09.50
	1.2s	47.60nm			
LPL	149.90	354	ePKP	04	57.80
	0.8s	14.10nm			
LPG	149.91	354	ePKP	04	58.00
	0.9s	21.30nm			
OHR	150.05	332	e(PKP)	05	06.30
BOB	150.28	350	PKP	05	08.50
BNI	150.36	354	PKP	04	57.40
SFI	150.63	346	PKP	05	13.00
ARV	150.77	345	PKP	05	13.00
CKI	150.79	352	PKP	05	06.00
CRE	150.89	346	PKP	05	14.00
ASS	151.24	345	PKP	05	14.50
SDI	152.19	342	PKP	05	16.00
BCAO	160.93	236	iPKPc	05	22.90
	0.7s	15.00nm			
		i		06	09.00
		i		06	17.00
S.D. = 0.9 on 114 of 164 abs.					
% NOV 24, 1990 07h 46m 35.55 ± 1.55s					
44.043 N ± 13.3km 11.980 E ± 7.1km					
DEPTH = 10.0km (geophysicist)					

NORTHERN ITALY						(545)
SFI	0.15	217	Pc	46	39.50	0.4
			eSg	46	42.70	
PGD	0.25	228	P	46	39.70	-1.3
			eSg	46	42.90	
RSM	0.36	109	P	46	42.70	-0.3
CRE	0.42	183	P	46	44.70	0.6
			eSg	46	52.80	
BDI	1.00	272	P	46	55.00	0.5
S.D. = 1.1			on	5 of	5 abs.	
<hr/>						
NOV	24,	1990	07h	53m	31.03±	0.58s
				10.760 N ± 4.8km	69.420 W ±	3.2km
DEPTH =				41.9 ±	6.2 km	
5.1mb (42 abs.)				4.1Msz (3 abs.)	(101)
VENEZUELA						
TOV	1.03	201	iPnd	53	48.60	-0.7
			iSn	54	05.80	
MORO	1.09	84	eP	53	50.00	-0.2
GUAC	2.19	105	iP	54	06.00	0.2
SDV	2.21	213	ePn	54	06.00	-0.2
			iSn	54	35.20	
CAR	2.46	96	iPd	54	08.00	-1.7
			iS	54	48.00	
LLAV	2.58	96	iPd	54	19.50	8.1X
			eS	54	54.00	
OLLA	2.68	106	iPd	54	13.00	0.2
			eS	54	44.00	
UAV	2.73	219	ePn	54	13.30	-0.3
			iSn	54	55.40	
GUAN	3.80	102	iPd	54	29.00	0.3
			eS	55	32.00	
BMG	5.15	225	iPd	54	46.00	-1.7
CUM	5.17	93	iP	55	46.50	58.5X
			iS	56	49.00	
FUO	6.77	219	eP	55	00.00	-10.9X
BOG	7.64	217	eP	55	24.50	1.5
			eS	56	54.50	
PORP	7.74	20	P	55	19.00	-5.0X
TRN	7.88	90	eP	55	28.00	2.0
			eS	56	57.68	
LRS	7.89	18	P	55	21.00	-5.2X
CPD	7.99	25	P	55	21.70	-5.9X
LPR	8.25	24	P	55	25.60	-5.6X
BIM	8.96	65	eP	55	35.10	-5.9X
FDF	8.98	63	eP	55	35.10	-6.2X
BBL	9.07	58	eP	55	33.50	-8.9X
PSO	12.33	220	eP	56	27.50	0.3
JSC	25.79	337	P	59	01.90	2.0
LHS	25.80	338	P	59	00.00	0.0
LHS	25.80	338	P	59	00.40	0.4
LPB	27.15	177	P	59	13.00	0.0
			i	07	50.00	
OXX	27.22	286	(P)	59	14.50	1.1
CNCB	27.43	177	P	59	16.00	0.3
			e	07	17.00	
PPM	29.37	290	(P)	59	38.50	5.3X
OLY	31.75	324	eP	59	54.20	0.8
UYO	32.66	319	iPd	00	03.00	1.6
FVM	33.01	329	eP	00	03.50	-0.9
	1.0s	53.00nm			5.4mb	
			iPp	00	07.00	12kmX
BAO	33.73	141	ePd	00	12.00	0.9
SOB1	34.62	124	eP	00	19.60	0.9
PDCR	37.95	127	ePc	00	47.00	0.3
			e	00	50.00	
			e	04	31.70	
VAO	40.12	147	eP	01	04.80	0.1
			e	01	08.10	
JFO	41.21	142	eP	01	14.60	0.9
ALO	41.40	312	eP	01	15.00	-0.3
	0.9s	14.50nm			4.7mb	
ANMO	41.40	312	eP	01	15.70	0.4
	0.9s	53.05nm			5.3mb	
			iPp	01	18.90	11kmX
BMA	41.45	143	eP	01	27.50	11.9X
GOL	42.97	318	P	01	27.70	-0.5
	0.8s	11.90nm			4.7mb	
SCH	43.99	2	eP	01	36.00	0.0
RSSD	44.67	324	eP	01	41.00	-0.9
	1.2s	22.59nm			4.9mb	
PV09	44.92	315	eP	01	44.50	0.5
DAU	47.25	316	eP	02	02.60	0.1
	1.0s	6.20nm			4.5mb	
DUG	48.23	315	P	02	10.50	0.6

	1.0s	13.75nm		4.9mb	SMF	70.77	44 eP	04	44.90	-0.2									
TPC	48.44	306 eP	02	11.00	-0.5		0.9s	22.95nm		5.2mb	? NOV	24, 1990	09h	23m	44.56±	2.44s			
BAR	48.53	304 eP	02	14.00	1.8	LOR	70.83	44 eP	04	45.00	-0.5	16.344 N ± 24.6km		98.612 W ± 10.6km					
PLM	48.87	305 eP	02	15.30	0.3		0.8s	14.80nm		5.0mb		DEPTH =	33.0km	(normal)					
		ipP	02	17.90	9kmsX	Z	20s	0.10um		4.1MsZ		NEAR COAST OF GUERRERO, MEXICO		(58)					
PEC	49.26	306 P	02	17.90	0.1	LBF	70.89	44 eP	04	44.10	-1.8								
	1.0s	18.75nm		5.1mb			0.8s	9.40nm		4.8mb									
GSC	49.39	308 eP	02	18.00	-0.8	TOA	74.36	332 eP	05	06.70	0.6	ACX	1.30	294 iP	24	06.50	-0.1		
RVR	49.46	306 eP	02	22.00	2.7X	F8A	75.39	334 eP	05	10.90	-1.0	OXX	1.95	68 iS	24	19.50			
SBB	50.01	306 eP	02	22.00	-1.6	PMR	75.71	331 eP	05	13.90	0.2		iS	24	16.50	0.3			
MWC	50.07	306 eP	02	27.00	2.8X		0.9s	40.80nm		5.4mb			iS	24	39.00				
PAS	50.14	306 eP	02	27.00	2.5	NB2	76.12	30 P	05	17.30	1.2	IIL	2.18	338 (P)	24	19.00	-0.4		
CLC	50.16	308 eP	02	24.00	-0.7		1.1s	16.10nm		4.9mb			(S)	24	44.50				
MCMT	50.35	321 ePd	02	26.50	0.3	CLL	76.95	40 i(P)	05	21.00	0.1	PPM	2.71	360 iP	24	28.50	1.3		
TNP	50.59	311 ePc	02	28.30	0.2		1.5s	27.00nm		5.1mb			(S)	24	54.00				
	0.8s	13.24nm		5.0mb		SLL	77.14	30 eP	05	26.70	5.0X	IISM	2.88	24 eP	24	28.00	-1.1		
ISA	50.80	307 eP	02	29.00	-0.6	KHC	77.38	42 P	05	24.50	1.1		(S)	24	58.00				
FFC	50.84	336 iPc	02	27.80	-1.7	BRG	77.56	40 iP	05	24.60	0.3		S.D.	= 1.3 on	5 of	5 obs.			
	0.8s	34.00nm		5.4mb			1.3s	27.00nm		5.1mb		? NOV	24, 1990	09h	54m	12.42±	0.97s		
ABL	51.16	306 P	02	32.70	0.2	IMA	77.91	335 eP	05	25.50	-0.6	39.284 N ± 7.8km		27.796 E ± 11.5km					
BCH	51.93	306 P	02	38.30	0.1		1.4s	17.20nm		4.9mb		DEPTH =	10.0km	(geophysicist)					
FRI	52.13	309 eP	02	38.80	-0.8	PRU	77.97	41 P	05	27.80	1.3	TURKEY		(366)					
SES	52.22	327 eP	02	39.00	-1.1		1.0s	16.00nm		5.0mb		MD 2.6 (ISK).							
FRB	52.91	0 eP	02	44.00	-0.8	SVW	78.83	330 ePd	05	31.00	-0.1	DST	0.72	63 ePg	54	26.70	0.1		
CMB	52.95	310 eP	02	45.50	-0.2	KRA	81.44	41 eP	05	46.50	1.4	IZM	0.98	205 ePg	54	31.00	0.0		
LLA	52.98	308 eP	02	45.70	-0.3	SOD	82.47	23 eP	05	52.00	1.8		eSg	54	45.00				
PRS	53.24	307 eP	02	48.30	0.5	NUR	82.72	30 eP	05	52.00	0.4	BNT	1.07	5 iPn	54	32.40	-0.2		
SAO	53.41	308 eP	02	49.50	0.4	BJI	129.19	354 ePKP	12	36.00	-0.7	KGT	1.23	342 iPn	54	35.40	0.2		
ARN	53.63	309 P	02	51.00	0.3	GKN	134.00	33 PKP	12	43.88	-2.6X		S.D.	= 0.3 on	4 of	4 obs.			
MHC	53.71	309 eP	02	52.50	1.1	KKN	134.51	32 PKP	12	45.42	-2.1								
BKS	54.31	309 ePc	02	58.50	2.8	DMN	134.57	32 PKP	12	41.74	-5.9X	% NOV	24, 1990	09h	56m	57.63±	0.82s		
	0.9s	36.00nm		5.4mb		GUN	134.72	31 PKP	12	48.06	0.0	40.258 N ± 8.2km		29.305 E ± 6.7km					
		e	10	36.00		PKI	134.76	32 PKP	12	44.26	-3.9X	DEPTH =	10.0km	(geophysicist)					
		e	22	36.00		GBA	139.17	54 PKP	13	01.00	4.8X	TURKEY		(366)					
		e	31	18.00			0.6s	2.70nm				MD 2.5 (ISK).							
BRK	54.33	309 eP	02	57.10	1.3	CTA	144.45	251 iPKPc	13	03.70	-1.7								
MIN	54.54	312 eP	02	56.50	-1.0		1.0s	66.00nm				IZI	0.15	58 iPg	57	01.30	0.1		
NEW	54.56	323 P	02	55.50	-1.9	CHG	148.45	21 ePKP	13	15.00	3.0X	YLV	0.31	10 iPg	57	03.90	-0.3		
	1.0s	20.00nm		5.1mb		BDT	149.91	22 ePKP	13	19.90	5.7X		iSg	57	08.90				
LBFM	55.06	313 P	03	00.50	-0.9	LOE	150.68	17 ePKP	13	20.80	5.4X	HRT	0.63	26 iPg	57	10.40	0.1		
PNT	56.50	323 eP	03	10.00	-1.4	ASPA	154.34	237 ePKP	13	20.70	0.2	DST	0.83	219 iPg	57	13.70	-0.1		
	1.0s	22.00nm		5.1mb			1.2s	5.00nm					eSg	57	24.70				
LKO	62.74	85 P	03	54.48	-0.4		eS	20 10.80				BNT	1.06	276 iPn	57	17.90	0.2		
TIC	63.70	88 P	04	00.08	-1.1	WB5	155.36	246 ePKP	13	22.30	0.4	EDC	1.11	275 ePn	57	18.00	0.2		
LIC	63.75	88 P	04	00.68	-0.8		S.D.	= 1.0 on 104 of 130 obs.				KGT	1.54	278 ePn	57	24.90	-0.3		
KIC	64.02	88 P	04	02.70	-0.5								S.D.	= 0.3 on	7 of	7 obs.			
	0.9s	16.00nm		5.1mb		? NOV	24, 1990	08h	20m	01.85±	0.98s								
LPF	67.63	42 eP	04	25.80	0.0	39.144 N ± 7.7km		27.546 E ± 13.6km				? NOV	24, 1990	10h	01m	02.36±	0.98s		
	1.1s	43.95nm		5.4mb		DEPTH =	10.0km	(geophysicist)				39.113 N ± 7.8km		27.544 E ± 13.9km					
EKA	67.77	34 P	04	28.00	1.5	TURKEY		(366)				DEPTH =	10.0km	(geophysicist)					
	2.2s	102.80nm		5.5mb		MD 2.4 (ISK).						TURKEY		(366)					
GRR	67.81	42 eP	04	26.80	-0.1							MD 2.4 (ISK).							
	1.0s	40.00nm		5.4mb		IZM	0.78	197 ePg	20	17.00	0.0								
EPF	67.95	48 eP	04	24.30	-3.7X			eSg	20	29.00		IZM	0.75	197 ePg	01	17.00	0.0		
	0.9s	20.45nm		5.2mb		DST	0.96	61 ePn	20	20.20	0.1		eSg	01	29.00				
MFF	68.03	44 eP	04	27.50	-0.8	BNT	1.24	13 iPn	20	24.70	-0.3	DST	0.97	59 iPn	01	21.00	0.1		
	0.9s	19.65nm		5.2mb		KGT	1.32	352 iPn	20	26.40	0.2	BNT	1.27	13 iPn	01	25.70	-0.3		
FLN	68.11	42 eP	04	28.60	-0.2		S.D.	= 0.3 on	4 of	4 obs.		KGT	1.35	352 iPn	01	27.40	0.2		
	1.1s	43.95nm		5.4mb									S.D.	= 0.4 on	4 of	4 obs.			
Z	20s	0.15um		4.2MsZ		% NOV	24, 1990	08h	34m	22.68±	0.90s								
LDF	68.33	42 eP	04	30.60	0.5	39.147 N ± 6.9km		27.578 E ± 12.7km				? NOV	24, 1990	10h	23m	57.08±	0.88s		
	1.2s	35.70nm		5.3mb		DEPTH =	10.0km	(geophysicist)				39.145 N ± 6.9km		27.596 E ± 12.5km					
LFF	68.44	46 eP	04	28.60	-2.3	TURKEY		(366)				DEPTH =	10.0km	(geophysicist)					
	1.0s	40.00nm		5.4mb		MD 2.6 (ISK).						TURKEY		(366)					
LPO	68.73	46 eP	04	27.90	-4.8X							MD 2.4 (ISK).							
	0.9s	29.50nm		5.3mb		IZM	0.79	198 ePg	34	38.00	0.0								
RJF	69.03	46 eP	04	31.70	-2.8X			iSg	34	50.50		IZM	0.79	199 ePg	24	12.50	0.0		
	0.8s	13.45nm		5.0mb		DST	0.93	60 ePn	34	40.70	0.2		eSg	24	24.50				
	Z	20s	0.08um	3.9MsZ		EDC	1.22	10 ePn	34	45.30	0.0	DST	0.92	60 iPn	24	14.70	0.0		
LSF	69.14	45 eP	04	34.90	-0.3	BNT	1.24	12 iPn	34	45.20	-0.4	EDC	1.22	10 ePn	24	20.00	0.3		
	1.0s	22.00nm		5.1mb		KGT	1.32	351 iPn	34	47.40	0.4	BNT	1.23	12 ePn	24	19.90	-0.1		
CAF	69.38	46 eP	04	33.70	-3.0X		S.D.	= 0.4 on	5 of	5 obs.		KGT	1.32	350 iPn	24	21.40	-0.1		
	0.9s	22.95nm		5.2mb									S.D.	= 0.2 on	5 of	5 obs.			
TCF	69.61	45 eP	04	37.90	-0.2	% NOV	24, 1990	09h	02m	42.74±	0.90s								
	1.0s	22.00nm		5.1mb		39.102 N ± 7.6km		27.593 E ± 13.7km				NOV	24, 1990	10h	49m	12.23±	0.51s		
MAF	69.85	45 eP	04	39.60	0.0	DEPTH =	10.0km	(geophysicist)				40.914 N ± 4.3km		23.907 E ± 4.4km					
	1.0s	20.00nm		5.1mb		TURKEY		(366)				DEPTH =	10.0km	(geophysicist)					
BGF	70.08	44 eP	04	40.50	-0.4		MD 2.5 (ISK).					GREECE		(364)					
	0.7s	9.90nm		4.9mb		IZM	0.75	200 ePg	02	57.50	0.1								
AVF	70.44	44 eP	04	42.80	-0.3			eSg	03	08.50		SRS	0.31	311 ePc	49	18.68	-0.1		
	1.0s	28.00nm		5.2mb		DST	0.95	58 ePn	03	00.70	-0.1		eS	49	24.26				
SSF	70.57	44 eP	04	45.40	1.5	EDC	1.26	9 ePn	03	06.80	0.7	SOH	0.43	258 ePc	49	20.46	-0.5		
	1.0s	18.00nm		5.0mb		BNT	1.28	11 iPn	03	06.20	-0.2		iS	49	27.22				
INK	70.62	339 eP	04	42.50	-1.3	KGT	1.37	351 iPn	03	07.40	-0.4	OUR	0.58	174 iPc	49	24.05	0.1		
MBC	70.64	349 ePd	04	43.00	-0.8		S.D.	= 0.6 on	5 of	5 obs.			eS	49	32.22				
	0.8s	39.00nm																	

24d 10h

KNT	0.80	288	eSg	49	35.00	
			ePc	49	27.62	-0.2
			eS	49	39.42	
RZN	0.99	38	eP	49	31.00	-0.1
PAIG	1.00	190	ePd	49	31.10	-0.1
			eS	49	44.06	
GRG	1.14	273	ePd	49	33.50	-0.1
KDZ	1.36	57	iP	49	37.00	-0.1
FNA	1.92	267	ePd	49	46.34	1.0
			eS	50	10.22	

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

% NOV	24, 1990	11h 30m	41.56±0.88s	
			39.653 N ± 7.2km	29.447 E ± 8.7km
			DEPTH = 10.0km	(geophysicist)
			TURKEY	(366)
			MD 2.6 (ISK).	

DST	0.63	266	ePg	30	53.70	-0.6
IZI	0.68	2	iPg	30	54.30	-0.9
			eSg	31	04.30	
ALT	0.79	139	ePg	30	57.00	0.0
YLV	0.91	356	iPg	30	58.80	-0.3
			iSg	31	13.80	
HRT	1.18	8	iPn	31	04.30	0.7
BNT	1.37	301	iPn	31	07.70	1.1

S.D. = 1.0 on 6 of 6 obs.

% NOV	24, 1990	11h 40m	48.75±1.47s	
			40.276 N ± 17.1km	29.230 E ± 8.8km
			DEPTH = 10.0km	(geophysicist)
			TURKEY	(366)
			MD 2.4 (ISK).	

IZI	0.20	72	iPg	40	53.30	0.2
			iSg	40	57.80	
YLV	0.31	21	iPg	40	55.30	0.1
HRT	0.64	31	iPg	41	01.30	-0.3
KCT	0.67	268	ePg	41	01.00	-1.1
BNT	1.00	275	iPg	41	08.90	1.1
			iSg	41	22.40	

S.D. = 1.1 on 5 of 5 obs.

NOV	24, 1990	12h 07m	08.50±0.27s	
			44.074 N ± 2.7km	11.800 E ± 2.9km
			DEPTH = 10.0km	(geophysicist)
			NORTHERN ITALY	(545)
			ML 3.2 (LDG).	

SFI	0.16	166	Pd	07	12.30	0.2
			eSg	07	13.70	
PGD	0.21	196	Pd	07	12.60	-0.5
			eSg	07	13.60	
CRE	0.46	166	P	07	17.50	-0.4
			eSg	07	24.10	
RSM	0.49	107	P	07	12.40	-6.1X
MME	0.80	279	Pd	07	25.10	0.9
			eSg	07	36.00	
BDI	0.87	270	P	07	25.30	0.1
			eSg	07	38.00	
PII	0.99	250	P	07	27.00	-0.2
			eSg	07	40.00	
ARV	1.01	124	P	07	28.70	1.1
			eSn	07	43.00	
ASS	1.18	148	P	07	30.50	-0.1
			eSg	07	45.50	
SAL	1.78	330	P	07	40.50	1.0
MNS	1.81	159	P	07	40.00	0.1
			eSg	08	04.30	
BOB	1.82	293	P	07	39.60	-0.6
CTI	1.98	357	P	07	42.70	0.2
			eSn	08	08.30	
TRI	2.15	40	P	07	45.00	0.2
MDI	2.26	320	P	07	46.00	-0.4
AZI	2.41	150	P	07	48.50	0.0
VOY	2.46	36	e(Pn)	07	48.80	-0.5
			eSn	08	20.70	
PGF	2.55	234	Pn	07	50.40	-0.3
CKI	2.55	279	P	07	50.00	-0.6
RBL	2.68	27	P	07	52.00	-0.5
			eSn	08	25.50	
SDI	2.79	147	P	07	54.00	-0.1
SBF	3.16	268	Pn	07	57.80	-1.5
SQTA	3.17	353	i(Pn)	08	03.60	4.1X
			iSn	08	41.20	
FRF	3.76	264	Pn	08	08.60	0.7
LPG	3.87	293	Pn	08	10.60	1.0

LPL	3.88	294	Pn	08	11.00	1.2
LRG	3.99	263	Pn	08	11.80	0.8
BSF	5.13	319	Pn	08	24.50	-2.8X
			Sn	09	24.50	
CDF	5.35	326	Pn	08	29.60	-0.8
HAU	5.46	318	Pn	08	31.50	-0.4
			Sn	09	30.00	
LBF	6.22	301	Pn	08	42.40	-0.2
			Sn	09	49.00	
LOR	6.41	303	Pn	08	45.00	-0.4
			Sn	09	56.00	

S.D. = 0.7 on 29 of 32 obs.

NOV	24, 1990	12h 13m	47.21±0.31s	
			44.042 N ± 3.3km	11.705 E ± 3.3km
			DEPTH = 10.0km	(geophysicist)
			NORTHERN ITALY	(545)
			ML 3.3 (LDG).	

SFI	0.16	139	Pd	13	50.80	-0.1
			eSg	13	53.50	
PGD	0.17	176	P	13	50.90	-0.2
			eSg	13	52.80	
CRE	0.45	157	P	13	55.90	-0.5
			eSg	14	03.20	
RSM	0.55	102	P	13	50.80	-7.6X
MME	0.74	282	P	14	01.40	-0.5
			eSg	14	13.30	
BDI	0.80	272	P	14	02.70	-0.1
			eSg	14	15.20	
PII	0.91	250	P	14	04.90	0.3
			eSg	14	18.00	
ARV	1.05	121	P	14	07.20	0.2
			eSn	14	23.00	
ASS	1.19	144	P	14	09.40	-0.1
			eSn	14	27.40	
BOB	1.77	295	P	14	18.60	0.4
			eSn	14	42.00	
SAL	1.78	332	P	14	17.70	-0.4
MNS	1.80	156	P	14	19.40	0.8
			eSn	14	41.50	
CTI	2.01	359	P	14	21.00	-0.6
			eSn	14	47.00	
TRI	2.22	41	eP	14	25.90	1.3
			i	14	35.50	
			i	15	04.90	
MDI	2.24	321	P	14	26.70	1.9
			eSn	14	51.50	
RIY	2.31	55	eP	14	27.20	1.3
			i	14	34.80	
			iSn	14	55.20	
AZI	2.41	148	P	14	27.30	0.0
PGF	2.48	234	Pn	14	28.20	-0.1
CKI	2.49	280	P	14	27.50	-0.9
			eSn	14	57.80	
VOY	2.52	37	ePn	14	27.20	-1.8
			eSn	14	59.20	
CEY	2.57	48	eP	14	38.00	8.4X
			e(Sn)	15	13.00	
FVI	2.66	16	P	14	29.60	-1.3
RBL	2.74	28	P	14	33.00	1.0
			eSn	15	03.00	
VAI	2.77	312	P	14	34.00	1.6
SDI	2.80	146	P	14	32.80	-0.2
			eSn	15	06.00	
LJU	2.83	44	e(Pg)	14	32.00	-1.3
			eSn	15	07.50	
SBF	3.09	268	Pn	14	35.50	-1.5
SQTA	3.20	354	iPnc	14	40.80	2.2
			iSn	15	19.10	
FRF	3.69	264	Pn	14	46.80	1.2
LPG	3.82	294	Pn	14	48.10	0.5
LPL	3.84	294	Pn	14	48.30	0.5
LRG	3.92	263	Pn	14	49.70	1.0
BSF	5.11	320	Pn	15	04.90	-0.8
			Sn	16	01.40	
CDF	5.34	326	Pn	15	07.60	-1.4
			Sn	16	07.70	
HAU	5.44	319	Pn	15	09.10	-1.2
			Sn	16	10.20	
LBF	6.18	301	Pn	15	20.20	-0.5
			Sn	16	28.80	
LOR	6.37	303	Pn	15	22.80	-0.7
			Sn	16	32.20	

S.D. = 1.0 on 35 of 37 obs.

% NOV	24, 1990	12h 15m	25.57±0.62s	
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43.860 N ± 7.3km	11.800 E ± 5.4km
DEPTH = 10.0km	(geophysicist)
CENTRAL ITALY	(381)

PGD	0.06	285	Pd	15	28.10	0.1
			iSg	15	31.00	
SFI	0.07	31	P	15	28.00	0.1
			eSg	15	30.00	
CRE	0.26	155	P	15	31.00	0.0
			eSg	15	37.90	
BDI	0.89	284	P	15	42.00	-0.7
			eSg	15	54.50	
ARV	0.90	113	P	15	43.00	0.1
			eSn	15	56.50	
PII	0.93	262	P	15	44.00	0.6
			eSg	15	57.00	
ASS	1.01	141	P	15	44.50	-0.2
			eSn	16	02.00	

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

? NOV	24, 1990	12h 28m	49.62±4.07s	
			34.920 N ± 42.6km	24.865 E ± 9.7km
			DEPTH = 10.0km	(geophysicist)
			CRETE	(370)
			MD 3.6 (ATH).	

NPS	0.70	61	ePg	29	02.90	-0.6
			eSg	29	16.50	
VAM	0.73	312	iPg	29	03.20	-0.8
			eSg	29	15.00	
APE	2.21	14	ePn	29	27.20	0.3
VLI	2.38	319	ePb	29	30.00	0.7
ARG	2.96	63	ePn	29	37.80	0.4

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

NOV	24, 1990	12h 29m	01.18±0.45s	
			44.073 N ± 4.2km	11.782 E ± 4.7km
			DEPTH = 10.0km	(geophysicist)
			NORTHERN ITALY	(545)

SFI	0.16	161	Pd	29	04.60	-0.3
			eSg	29	08.00	
PGD	0.20	192	Pd	29	04.90	-0.8
			eSg	29	10.00	
CRE	0.46	164	P	29	09.70	-0.9
			eSg	29	18.00	
RSM	0.51	106	P	29	04.70	-6.7X
BDI	0.85	270	P	29	18.30	0.6
			eSg	29	29.50	
PII	0.97	249	P	29	19.00	-0.7
			eSg	29	33.00	
ARV	1.02	124	P	29	21.30	0.8
			eSn	29	37.20	
ASS	1.19	147	P	29	24.50	1.1
			eSn	29	41.00	
SAL	1.78	330	P	29	32.50	0.4
MNS	1.81	158	P	29	33.30	0.6
CTI	1.98	357	P	29	34.80	-0.3
			eSn	29	59.00	
TRI	2.16	40	P	29	38.00	0.3
CEY	2.51	48	eP	30	30.00	47.3X
PGF	2.54	234	Pn	29	44.60	1.4
RBL	2.68	27	P	29	45.00	-0.2
SDI	2.80	147	P	29	45.50	-1.4
VBY	2.86	59	eP	30	27.00	39.4X
SBF	3.14	268	Pn	29	49.70	-2.0
SOTA	3.17	353	iPnd	29	55.00	2.8X
			iSn	30	33.80	
FRF	3.75	264	Pn	30	01.50	1.1
LPL	3.87	294	Pn	30	05.80	3.5X
LRG	3.98	263	Pn	30	04.50	1.0
CDF	5.35	326	Pn	30	22.10	-0.9
S.D. = 1.0 on 18 of 23 obs.						

ARV 1.16 119 P 32 56.00 -0.1
S.D. = 0.4 on 5 of 6 obs.

? NOV 24, 1990 12h 35m 17.16 ± 4.80s
43.989 N ± 32.4km 11.743 E ± 20.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI 0.10 130 P 35 20.00 0.1
PGD 0.11 188 P 35 20.20 0.0
CRE 0.39 157 P 35 25.20 0.0
ARV 1.00 119 P 35 36.00 -0.1
S.D. = 0.1 on 4 of 4 obs.

% NOV 24, 1990 12h 58m 12.05 ± 1.41s
43.948 N ± 16.0km 11.736 E ± 8.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PGD 0.07 188 P 58 13.90 -0.7
SFI 0.09 108 Pd 58 13.50 -1.1
CRE 0.36 154 P 58 18.70 -0.7
BDI 0.83 278 P 58 27.00 -1.1
PII 0.91 256 P 58 31.00 1.6
ARV 0.98 117 P 58 32.40 1.7
ASS 1.11 142 P 58 33.20 0.4
S.D. = 1.5 on 7 of 7 obs.

? NOV 24, 1990 13h 03m 21.30 ± 7.45s
44.402 N ± 41.8km 11.903 E ± 34.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.48 184 P 03 31.30 0.2
PGD 0.54 194 P 03 31.70 -0.6
CRE 0.77 177 P 03 36.60 0.1
BDI 1.00 251 P 03 39.50 -0.8
ARV 1.17 140 P 03 50.50 7.3X
PII 1.20 236 P 03 44.80 1.1
S.D. = 1.1 on 5 of 6 obs.

NOV 24, 1990 13h 04m 09.55 ± 0.37s
44.042 N ± 3.8km 11.786 E ± 3.7km
DEPTH = 12.0 ± 2.9 km
NORTHERN ITALY (545)
ML 3.4 (LDG). MD 3.3 (TRI).

SFI 0.13 158 P 04 14.00 1.1
PGD 0.17 196 Pc 04 14.00 0.2
CRE 0.43 164 P 04 18.60 0.1
MME 0.80 281 P 04 24.90 -0.1
BDI 0.86 272 P 04 26.00 0.1
PII 0.97 251 P 04 27.40 -0.3
ARV 1.00 123 P 04 29.40 1.1
ASS 1.16 146 P 04 31.80 0.7
MNS 1.78 158 P 04 41.00 0.6
SAL 1.80 331 P 04 40.80 0.2
BOB 1.83 294 P 04 39.70 -1.4
CTI 2.01 357 P 04 43.60 -0.1
TRI 2.18 39 i(Pn)d 04 45.50 -0.6
i 04 54.70
i 05 12.80
i(Sg) 05 23.30

RIY 2.27 54 ePn 04 46.90 -0.4
MDI 2.28 320 P 04 49.50 2.0
VOY 2.49 36 ePn 04 50.10 -0.5
PGF 2.52 235 Pn 04 51.00 -0.1
CEY 2.53 47 eP 04 51.50 0.4
CKI 2.55 280 P 04 52.40 1.0
FVI 2.65 15 P 04 52.00 -0.7
RBL 2.71 27 P 04 53.00 -0.7
SDI 2.77 147 P 04 52.00 -2.6
VAI 2.81 311 P 04 55.00 -0.1
VBY 2.87 58 ePn 05 06.80 10.9X
eSn 05 46.70
SBF 3.15 268 Pn 04 59.00 -0.9
SOTA 3.20 353 iPnd 05 03.30 2.5
i 05 39.30
iSn 05 43.20

PTJ 3.50 56 iPnc 05 10.50 5.6X
FRF 3.75 264 Pn 05 09.00 0.5
BHG 3.76 11 ePn 05 10.30 1.7
LPG 3.87 294 Pn 05 12.40 2.0
LPL 3.89 294 Pn 05 12.80 2.2
LMR 3.89 261 Pn 05 11.00 0.6
LRG 3.97 263 Pn 05 11.40 -0.2
BSF 5.15 319 Pn 05 27.60 -0.7
Sn 06 24.60
KHC 5.24 13 eP 05 30.00 0.5
CDF 5.37 326 Pn 05 30.50 -1.0
HAU 5.48 318 Pn 05 32.30 -0.7
Sn 06 32.40
LBF 6.23 301 Pn 05 41.70 -1.8
Sn 06 52.60
LOR 6.42 303 Pn 05 45.00 -1.3
Sn 06 56.80

S.D. = 1.2 on 37 of 39 obs.
NOV 24, 1990 13h 10m 26.05 ± 0.35s
44.080 N ± 4.1km 11.782 E ± 3.7km
DEPTH = 10.4 ± 3.4 km
NORTHERN ITALY (545)
ML 3.0 (LDG).

SFI 0.17 162 Pd 10 29.60 -0.3
PGD 0.21 192 Pd 10 30.70 0.0
CRE 0.47 165 P 10 35.20 -0.4
MME 0.79 279 P 10 42.70 0.9
BDI 0.85 269 P 10 42.60 0.1
PII 0.98 249 P 10 44.20 -0.4
ARV 1.02 124 P 10 46.00 0.7
ASS 1.19 147 P 10 48.20 -0.1
MNS 1.82 159 P 10 57.50 -0.1
CTI 1.97 357 P 10 59.90 0.0
TRI 2.15 40 eP 11 42.90 40.5X
VOY 2.46 37 e(Pn) 10 58.00 -8.9X
eSn 11 39.60
CKI 2.54 279 P 11 07.50 -0.4
PGF 2.54 234 Pn 11 07.70 -0.4
FVI 2.61 15 P 11 09.00 0.1
RBL 2.68 27 P 11 09.50 -0.5
SDI 2.80 147 P 11 12.50 0.7
SBF 3.15 268 Pn 11 15.60 -1.0
LPG 3.85 293 Pn 11 28.50 1.7
LPL 3.87 294 Pn 11 28.80 1.8
BSF 5.12 319 Pn 11 44.60 0.0
Sn 12 43.80
CDF 5.34 326 Pn 11 46.90 -0.9
HAU 5.45 318 Pn 11 48.60 -0.7
Sn 12 50.80
LBF 6.20 301 Pn 11 59.60 -0.3
Sn 13 07.00
LOR 6.40 303 Pn 12 01.90 -0.7
Sn 13 12.80

S.D. = 0.8 on 23 of 25 obs.
NOV 24, 1990 13h 14m 57.74 ± 1.17s
36.054 N ± 13.8km 27.550 E ± 9.1km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.3 (ATH).

ARG 0.49 71 iPgd 15 07.00 -0.8
CIN 1.60 15 eP 15 25.00 -1.1
KSL 1.65 87 ePn 15 28.00 1.2
SMG 1.75 341 ePn 15 29.50 1.3
NPS 1.76 244 ePb 15 28.00 -0.5
S.D. = 1.6 on 5 of 5 obs.

NOV 24, 1990 13h 15m 17.49 ± 0.41s
44.042 N ± 4.2km 11.736 E ± 4.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.15 145 Pd 15 20.60 -0.3
PGD 0.17 184 Pc 15 20.90 -0.5
CRE 0.44 159 P 15 25.90 -0.6
RSM 0.53 102 P 15 20.80 -7.4X
MME 0.76 282 P 15 33.30 0.8
BDI 0.82 272 P 15 34.80 1.4
PII 0.93 250 P 15 36.00 0.7
ARV 1.03 121 P 15 37.50 0.6
ASS 1.18 145 P 15 40.20 0.6
CTI 2.01 358 P 15 51.00 -0.9
TRI 2.20 40 eP 16 21.00 26.4X
RIY 2.29 55 e(Pn) 15 55.60 -0.3
PGF 2.49 234 Pn 15 58.60 -0.3
VOY 2.51 37 ePn 15 58.30 -0.8
e(Sn) 16 29.00
CKI 2.51 280 P 15 58.60 -0.4
CEY 2.56 47 eP 16 09.00 9.3X
e(Sn) 16 42.00
RBL 2.73 28 P 16 01.00 -1.2
SDI 2.79 146 P 16 03.50 0.4
LJU 2.82 44 e(Pn) 16 05.00 1.6
eSn 16 37.50
SBF 3.11 268 Pn 16 05.30 -2.3
SOTA 3.20 354 iPnd 16 10.90 2.0
iSn 16 52.80
LPG 3.84 294 Pn 16 18.50 0.4
LPL 3.86 294 Pn 16 19.00 0.7
CDF 5.35 326 Pn 16 37.80 -1.6
S.D. = 1.1 on 21 of 24 obs.

% NOV 24, 1990 13h 27m 33.35 ± 2.09s
44.079 N ± 17.9km 11.747 E ± 10.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.18 154 Pc 27 37.30 0.0
PGD 0.20 185 Pc 27 37.60 -0.3
CRE 0.47 162 P 27 42.50 -0.5
BDI 0.83 269 P 27 48.00 -1.4
PII 0.95 248 P 27 53.30 1.8
ARV 1.04 123 P 27 53.50 0.5
eSn 28 07.00
S.D. = 1.4 on 6 of 6 obs.

? NOV 24, 1990 13h 31m 35.00 ± 4.76s
44.239 N ± 39.5km 11.529 E ± 12.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD 0.39 159 P 31 43.60 0.6
SFI 0.39 144 P 31 42.70 -0.4
CRE 0.68 153 P 31 48.00 -0.6
PII 0.89 235 P 31 52.00 -0.1

24d 13h

ASS 1.43 144 P 32 01.50 0.5
eSn 32 18.50
S.D. = 0.7 on 5 of 5 obs.

* NOV 24, 1990 13h 32m 32.14± 2.61s
32.081 S ±17.0km 71.125 W ±22.2km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

JACH 0.75 143 iPd 32 46.30 -0.1
iS 32 59.00
ROCH 0.89 174 iPc 32 48.60 0.1
iS 33 03.00
FCH 1.43 151 iPd 32 56.20 -0.1
iS 33 17.00
TACH 1.58 174 iPc 32 58.00 -0.1
iS 33 20.00
PCH 1.62 162 eP 32 59.00 0.2
iS 33 20.30
LNV 1.88 187 eP 33 02.60 0.0
ZON 2.15 76 e(P) 33 06.00 -0.4
CFA 2.50 80 ePd 33 11.90 0.5
S.D. = 0.3 on 8 of 8 obs.

% NOV 24, 1990 13h 42m 35.93± 1.67s
44.097 N ±13.2km 11.806 E ± 8.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.18 169 Pd 42 40.50 0.6
eSg 42 43.50
PGD 0.23 195 Pc 42 40.70 -0.3
eSg 42 45.00
CRE 0.48 167 P 42 45.60 -0.1
eSg 42 51.90
RSM 0.50 110 P 42 40.50 -5.5X
BDI 0.87 268 P 42 53.00 0.2
PII 1.00 248 P 42 54.60 -0.3
eSn 43 09.10
ARV 1.02 126 P 42 55.00 -0.2
S.D. = 0.4 on 6 of 7 obs.

? NOV 24, 1990 14h 33m 37.68± 2.85s
31.966 S ±25.1km 70.790 W ±22.0km
DEPTH = 101.1 ± 28.9 km
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.73 167 iPc 33 55.70 -0.2
iS 34 08.50
ROCH 1.02 190 iPd 33 58.90 0.0
iS 34 14.00
FCH 1.42 163 iPd 34 04.10 0.3
iS 34 22.00
LCCH 1.64 203 iP 34 06.60 0.4
iS 34 27.50
PCH 1.67 172 eP 34 06.50 -0.1
iS 34 27.50
TACH 1.69 184 iPc 34 06.70 -0.1
iS 34 27.50
LNV 2.05 195 iP 34 11.00 -0.4
iS 34 35.00
CFA 2.20 81 iPc 34 13.50 0.0
S.D. = 0.4 on 8 of 8 obs.

NOV 24, 1990 14h 45m 16.74± 0.77s
39.098 N ± 7.0km 27.995 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

DST 0.70 44 iPg 45 29.30 -1.4
IZM 0.90 220 iPg 45 33.10 -1.0
iSg 45 46.60
EDC 1.25 355 ePn 45 40.00 0.0
BNT 1.26 357 iPn 45 39.30 -0.8
KHL 1.42 122 ePn 45 42.60 -0.1
KGT 1.45 339 iPn 45 42.30 -0.7
EZN 1.48 300 ePn 45 45.20 1.8
ALT 1.65 91 ePn 45 47.00 1.1
IZI 1.68 42 ePn 45 46.00 -0.4
YLV 1.81 35 iPn 45 49.80 1.6
GBZT 2.02 33 eP 46 22.60 31.4X
S.D. = 1.3 on 10 of 11 obs.

% NOV 24, 1990 14h 56m 11.55± 1.04s
62.271 N ±10.7km 7.178 E ±14.0km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 2.3 (BER).

MOL 0.35 30 iP 56 18.85 0.2
HYA 1.21 203 eP 56 33.11 -0.9
eSg 56 51.58
SUE 1.68 224 eP 56 40.47 -0.6
eSg 57 03.26
ASK 2.03 209 eP 56 46.28 0.1
eSg 57 14.11
ODD1 2.38 187 eP 56 53.25 2.0
NRA0 2.60 124 Pn 56 53.50 -0.8
Sn 57 26.40
Lg 57 32.90
S.D. = 1.4 on 6 of 6 obs.

% NOV 24, 1990 15h 42m 17.15± 3.90s
43.955 N ±29.3km 11.842 E ±23.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI 0.04 168 Pd 42 19.10 -0.1
eSg 42 22.50
PGD 0.12 227 Pc 42 20.00 -0.3
eSg 42 23.00
CRE 0.34 166 Pc 42 24.30 0.1
eSg 42 29.80
BDI 0.90 277 P 42 34.50 0.0
PII 0.98 257 P 42 36.00 0.2
eSg 42 50.00
S.D. = 0.3 on 5 of 5 obs.

NOV 24, 1990 16h 16m 59.31± 0.37s
2.029 S ± 5.6km 135.294 E ± 9.7km
DEPTH = 33.0km (normal)
5.3mb (6 obs.) 4.8Msz (10 obs.)

WEST IRIAN REGION (196)

CENTROID, MOMENT TENSOR (HRV)

Date Used: GDSN

L.P.B.: 12S, 26C

Centroid Location:

Origin Time 16:17: 0.3 0.5

Lat 1.38S Lon 135.76E 0.07

Dep 15.0 FLX Half-duration 1.7

Moment Tensor: Scale 10**16 Nm

Mrr=-3.37 0.64 Mtt= 2.22 0.54

Mff= 1.14 0.77 Mrt= 3.82 2.12

Mrrf=-0.39 2.25 Mtrf= 7.81 0.65

Principal Axes:

T Val= 10.00 Plg=11 Azm=319

N -1.94 54 65

P -8.07 34 221

Best Double Couple: Mo=9.0*10**16

NP1: Strike= 6 Dip=58 Slip=-163

NP2: 266 75 -33

MTN 11.51 201 eP 19 45.00 0.5
0.3s 89.00nm 6.4mb X
eS 21 51.00
DAV 13.27 313 eP 20 10.00 2.0
PMG 13.89 122 eP 20 15.00 -1.1
KNA 15.08 205 eP 20 32.00 0.3
WB5 17.76 183 eP 21 03.90 -2.0
eS 24 16.20
QIS 18.89 167 eP 21 18.00 -1.7
i 21 26.70
eS 24 29.00
CTA 20.90 150 iP 21 43.00 1.5
1.0s 38.00nm 4.7mb
iS 25 33.00
BAG 23.39 322 eP 22 06.00 -0.4
eS 26 24.00
MBL 24.26 217 eP 22 18.00 3.3X
QLP 25.88 161 eP 22 31.00 1.0
RMQ 27.54 153 e(P) 22 45.00 -0.2
FORR 29.46 193 eP 23 03.00 0.6
0.5s 51.00nm 5.5mb
ADE 32.92 175 e(P) 23 33.00 0.1
BWA 34.48 161 eP 23 47.00 0.6
MUN 34.80 209 eP 23 32.00 -17.1X
CAN 35.49 161 eP 23 51.20 -3.8X
SSE 35.57 339 iPd 23 57.50 1.8
1.0s 39.00nm 5.3mb
Z 20s 1.40um 4.7Msz
N 14s 0.90um
E 15s 1.30um
pP 24 06.00 29kmX

NJ2 37.31 337 Pc 24 13.20 2.9X
Z 20s 0.90um 4.6Msz
N 13s 0.90um
E 12s 0.60um

WHN 38.05 330 eP 29 57.00 3.5X
Z 22s 1.30um 4.7Msz
N 14s 1.20um

LOE 38.31 302 eP 24 18.60 -0.4
MAT 38.47 4 iPd 24 21.60 1.6
GYA 39.58 318 P 24 29.00 -0.5
Z 20s 1.60um 4.9Msz
N 15s 1.20um
E 15s 1.30um

CHG 41.31 302 eP 24 44.00 0.2
KMI 41.52 313 eP 24 46.50 0.9
1.5s 70.00nm 5.2mb
Z 25s 2.70um 5.0MszX
pP 24 50.00 12kmX

XAN 43.62 328 P 25 01.50 -1.0
N 15s 0.80um
E 17s 1.20um

CD2 44.43 320 eP 31 28.00
Z 16s 1.87um 5.1MszX
N 12s 0.77um
E 12s 1.03um

TIY 44.85 334 eP 31 44.00
Z 20s 1.20um 4.8Msz
N 13s 1.00um

BJI 45.38 339 eP 31 52.00
1.5s 100.00nm 5.5mb
Z 20s 2.39um 5.1Msz
E 14s 0.96um

CN2 46.47 350 eP 31 56.00
Z 20s 1.40um 4.9Msz
N 15s 0.50um
E 15s 0.30um

MDJ 46.72 354 eP 32 06.00
Z 30s 0.70um 25 27.00 0.0
eS 32 16.00

HHC 47.85 336 eP 32 33.40
Z 22s 2.10um 25 37.80 1.7
E 15s 1.00um 5.1Msz

LZH 47.94 325 P 32 33.40
5.0s 370.00nm 25 37.00 0.1
Z 23s 1.60um 5.7mb X
N 13s 0.58um 4.9MszX
E 13s 0.76um

sP 25 54.50
eS 32 31.00
SS 35 57.00

BTO 48.29 334 eP 25 42.50 3.0X
N 14s 0.80um
E 14s 0.70um

GTA 52.54 325 eP 32 41.00
Z 22s 1.40um 26 10.80 -1.2
E 15s 0.66um 5.0Msz

LSA 52.65 310 P 33 35.00
Z 10s 1.70um 26 14.00 0.6
5.4MszX

GUN 56.01 306 P 26 37.52 -0.3
PKI 56.26 305 P 26 38.50 -1.1
KKN 56.45 305 P 26 40.26 -0.6

DMN 56.52 305 P 26 40.20 -1.2
GKN 57.06 305 P 26 44.56 -0.6
KOD 58.83 283 eP 26 58.40 0.5

HYB 59.15 292 eP 26 59.00 -0.7
GBA 59.42 287 P 27 01.50 0.0
WMO 62.39 323 P 27 20.50 -0.9

Z 20s 0.50um 4.7Msz
N 14s 0.70um

KSH 68.12 314 eP 28 00.60 2.1
QUE 72.44 302 eP 28 25.90 0.9
MAIO 79.79 307 eP 29 07.00 0.8
SPA 87.98 180 iPd 29 48.20 1.0
1.0s 15.00nm 5.2mb
i 30 03.20

SFI 114.98 318 Pd diff 32 01.00 11.6X
eSg 32 04.30

CNCB 150.37 130 PKP 36 51.20 6.1X

LPB	150.44	129	PKP	36	50.00	4.9X	PMR	48.46	39	ePc	32	38.10	-0.6	PEC	80.51	53	eP	36	02.00	-0.4
ZOBO	150.58	129	PKP	36	50.00	4.5X		0.7s	22.10nm			4.7mb		SDI	80.61	319	P	36	03.00	0.3
	2	24s	0.18um		4.8mszX		TOA	49.69	37	iPc	32	48.60	0.5	MNS	80.64	320	P	36	03.00	0.1
			LR	30	00.00		HYB	52.70	260	iPd	33	09.50	-1.2	LOR	80.67	328	iPc	36	02.40	-0.5
CCH	151.38	133	PKP	36	47.60	1.3		0.8s	26.90nm			4.6mb			0.7s	25.35nm			4.9mb	
SIV	155.87	138	PKP	37	01.20	9.0X	INK	52.85	28	eP	33	10.50	-0.6		2	20s	0.17um		4.4msz	
	S.D. = 1.1	on	43	of	54	obs.		0.4s	21.00nm			4.8mb		L8F	80.85	328	iPc	36	03.50	-0.4
							MBC	53.57	17	ePc	33	15.30	-0.9		0.8s	12.75nm			4.6mb	
	NOV 24, 1990	17h	24m	38.71±	0.37s			0.5s	20.00nm			4.7mb		SSF	80.98	328	iPc	36	04.10	-0.4
	41.907 N ± 4.3km	133.619 E ± 3.1km					QUE	53.92	280	eP	33	20.10	0.5		0.8s	16.10nm			4.7mb	
	DEPTH = 463.9 ± 4.3 km						GBA	55.98	257	P	33	33.50	-0.4	TPC	81.01	52	eP	36	05.00	0.0
	4.8mb (58 obs.)						KEV	56.67	336	eP	33	34.00	-4.0X	PLM	81.06	53	eP	36	05.50	0.1
SEA OF JAPAN					(660)		KOD	58.22	254	eP	33	49.00	-0.6	FLN	81.07	331	iPc	36	04.50	-0.4
MDJ	4.00	314	iPc	25	55.50	0.1	WB5	61.48	179	iPc	34	10.30	-0.5		0.8s	16.10nm			4.7mb	
	0.7s	500.00nm					WRA	61.54	179	P	34	10.00	-1.2X		2	20s	0.15um		4.3msz	
SAP	5.82	76	eP	26	11.00	-1.6		0.6s	11.30nm			4.6mb		LDF	81.09	331	iPc	36	04.70	-0.3
CN2	6.30	290	iPd	26	18.00	0.5	NUR	62.73	328	eP	34	18.00	-0.5		0.8s	14.80nm			4.6mb	
	3.0s	1100.00nm			5.4mb		MBL	64.03	194	iPc	34	27.30	0.1	SMF	81.18	328	iPc	36	05.80	0.2
		S	27	37.00				0.4s	8.00nm			4.7mb			0.6s	8.55nm			4.5mb	
MAT	6.43	145	iPd	26	18.40	-0.5	HFS	67.06	332	eP	34	44.20	-1.6	AVF	81.26	328	iPc	36	05.90	0.0
	0.8s	62.69nm			4.8mb			0.5s	12.70nm			4.8mb			0.8s	21.50nm			4.8mb	
		iS	27	39.20			NB2	67.26	334	P	34	45.60	-1.5	GRR	81.52	331	iPc	36	07.00	-0.3
SNY	7.50	273	iPd	26	31.00	0.9		0.7s	13.90nm			4.7mb			0.8s	16.10nm			4.7mb	
	0.9s	900.00nm			6.0mb X		PNT	68.76	42	ePc	34	56.00	-0.4	BAR	81.65	53	eP	36	09.00	0.8
		iS	28	02.00				0.5s	8.00nm			4.6mb		BGF	81.65	328	eP	36	08.10	0.1
DL2	9.62	256	iPd	26	54.00	0.7	MEKA	69.59	194	eP	35	01.30	-0.2		0.9s	11.45nm			4.5mb	
	1.0s	500.00nm			5.9mb X		NEW	70.70	42	iP	35	08.20	0.2	PV09	81.70	45	eP	36	09.80	1.0
		S	28	43.50				1.0s	13.00nm			4.5mb		LPF	81.89	331	iPc	36	09.10	0.0
BJI	13.32	268	iPd	27	33.00	0.1	KRA	71.61	322	eP	35	12.60	-0.5		0.8s	29.55nm			4.9mb	
	1.0s	300.00nm			5.7mb			0.3s	64.00nm			5.7mb		MAF	82.04	328	iPc	36	10.30	0.3
TIA	14.01	251	Pd	27	40.60	0.3	FHC	71.85	51	eP	35	15.50	0.7		1.0s	24.00nm			4.8mb	
	1.0s	300.00nm			5.8mb		SES	72.13	37	ePc	35	16.40	0.1	TCF	82.12	328	iPc	36	10.50	0.1
SSE	14.69	227	Pd	27	47.50	0.3	FORR	72.57	185	iPd	35	19.90	1.2		0.8s	7.40nm			4.3mb	
NJ2	15.34	235	iPd	27	54.60	0.7		0.4s	22.00nm			5.1mb		LSF	82.42	329	iPc	36	11.70	-0.2
	1.0s	200.00nm			5.6mb		FFC	72.70	30	iPc	35	18.90	-0.5		0.8s	16.10nm			4.7mb	
HHC	16.59	274	Pd	28	06.80	0.3		0.8s	28.00nm			4.9mb		GOL	82.72	42	eP	36	14.70	0.8
	0.8s	100.00nm			5.4mb		KSP	72.70	324	iPc	35	19.20	-0.3		1.0s	10.00nm			4.4mb	
TIY	16.80	263	iPd	28	09.00	0.4	WDC	72.83	51	eP	35	20.70	0.3	MFF	82.76	330	iPc	36	14.00	0.4
	0.7s	80.00nm			5.4mb		FRB	73.23	10	iPc	35	21.70	-0.5		0.8s	16.10nm			4.7mb	
BTO	17.79	274	P	28	18.50	0.1		0.4s	21.00nm			5.1mb		RJF	83.21	328	eP	36	16.20	0.3
		S	31	19.50			MIN	73.53	50	eP	35	24.00	-0.6		0.8s	8.05nm			4.5mb	
WHN	19.20	240	Pd	28	31.50	-0.4	BRG	73.70	325	iP	35	24.70	-0.5		2	20s	0.13um		4.3msz	
	0.7s	100.00nm			5.5mb			1.3s	24.00nm			4.6mb		CAF	83.31	328	iPc	36	17.10	0.7
XAN	20.95	256	iPd	28	48.00	-0.7			iSg	44	57.40				0.8s	17.45nm			4.8mb	
QZH	21.01	221	eP	28	49.70	0.5	CLL	73.78	326	iPc	35	24.90	-0.7	LFF	83.82	328	iPc	36	19.60	0.7
LZH	23.79	266	iPd	29	15.00	0.1		0.9s	24.00nm			4.8mb			0.6s	14.45nm			4.8mb	
	1.5s	190.00nm			5.4mb		SRO	73.95	321	eP	35	25.40	-1.2	LPO	83.86	328	iPc	36	19.60	0.5
		S	32	55.00			PRU	74.09	324	P	35	27.60	0.2		1.0s	24.00nm			4.8mb	
		ScP	35	37.00			ORV	74.11	51	eP	35	27.50	-0.2	ALQ	85.79	46	ePc	36	30.00	1.0
GTA	25.67	276	iPd	29	31.60	-0.2		ZST	74.24	322	eP	35	28.60	0.3		1.1s	11.08nm			4.5mb
	0.8s	150.00nm			5.5mb		BRK	74.77	53	eP	35	31.80	0.4	TIC	118.69	312	PKP	42	33.30	-1.4
		PcP	32	47.90			MOX	74.85	326	e(P)	35	31.00	-0.7	KIC	118.77	311	PKP	42	33.90	-1.0
		S	33	25.20			SOP	74.87	321	eP	35	32.00	0.2	LIC	119.04	311	PKP	42	34.00	-1.4
		ScP	35	42.80			ZNT	75.00	300	eP	35	33.00	0.2	SOB1	147.08	350	iPKPc	43	30.10	2.9X
		ScS	39	31.10			KHC	75.15	324	P	35	33.70	0.3			e		45	19.20	
CD2	26.29	255	iPc	29	35.20	-2.0	GRF	75.74	326	iPc	35	37.30	0.7	ZOBO	148.34	43	PKP	43	29.00	-0.8
	0.5s	60.00nm			5.3mb			0.8s	36.00nm			5.0mb			1.0s	15.00nm				
GYA	26.96	244	iPd	29	41.80	-1.4	CMB	75.77	52	eP	35	37.50	0.5			i	43	33.90		
		S	33	42.00			PRNI	76.25	298	eP	35	40.00	0.3	CNCB	148.87	43	PKP	43	32.00	1.4
KMI	30.49	246	Pd	30	13.00	-1.1	PRS	76.33	53	eP	35	40.50	0.5			i	43	36.40		
	1.5s	90.00nm			5.0mb		LLA	76.39	53	eP	35	41.30	0.9	PDCR	150.06	346	ePKP	43	29.40	-2.3
WMO	33.39	289	iPd	30	38.00	-0.3	MBH	76.70	298	eP	35	42.00	-0.1			i	43	36.90		
		S	35	25.70			FRI	76.87	52	eP	35	42.80	-0.2			e	43	43.50		
LSA	36.19	264	Pd	31	03.20	0.9	MEM	77.14	329	Pc	35	43.60	-0.5	CCH	150.27	41	PKP	43	37.60	5.2X
LOE	36.58	238	eP	31	04.60	-0.5	RBL	77.16	322	P	35	46.00	1.5	SIV	151.24	30	PKP	43	33.60	0.1
CHG	37.36	243	iPd	31	12.10	0.6	OHR	77.46	314	eP	35	44.50	-1.7			i	43	39.60		
	0.9s	69.33nm			5.1mb		TNP	77.56	50	eP	35	48.00	1.0		S.D. = 0.8	on	134	of	138	obs.
BDT	38.45	241	eP	31	22.00	1.6		1.0s	13.75nm			4.5mb								
ANM	40.85	35	eP	31	39.40	-0.1	SNF	77.87	330	P	35	47.60	-0.5		NOV 24, 1990	18h	18m	41.06±	1.54s	
GUN	41.05	266	P	31	42.20	0.2	DOU	78.09	329	P	35	48.90	-0.4		3.182 S ± 5.8km	139.549 E ± 7.0km				
	0.5s	546.00nm			6.3mb X		CTI	78.33	323	P	35	49.50	-1.4		DEPTH = 36.1 ± 15.6 km					
KKN	41.56	266	P	31	46.02	0.1	CDF	78.38	327	eP	35	51.00	0.0		5.3mb (10 obs.)	4.3msz (2 obs.)				
	0.8s	242.00nm			5.7mb			0.8s	8.05nm			4.3mb		WEST IRIAN					(201)	
PKI	41.59	266	Pd	31	46.22	-0.1	CLC	78.91	52	eP	35	54.00	0.0	MNDI	5.05	126	eP	19	58.00	1.4
	0.6s	17.00nm			4.7mb		BSF	79.03	327	eP	35	54.00	-0.5	YYYY	7.08	116	eP	20	23.00	-2.1
DMN	41.79	266	P	31	47.96	0.1		0.7s	6.60nm			4.3mb		PMG	9.76	130	eP	21	03.00	0.8
	0.6s	159.00nm			5.7mb		HAU	79.08	327	eP	35	54.20	-0.4	MTN	12.71	220	eP	21	41.70	-0.5
GKN	41.93	267	P	31	48.60	-0.2		2	20s	0.13um			4.2msz		0.3s	130.00nm			6.5mb X	
	0.5s	304.00nm			6.0mb X		ARV	79.67	320	P	35	59.00	1.2			eS	24	02.00		

WB5	17.35	197	eP	22	39.50	-2.8
			eS	25	48.00	
CTA	18.03	159	iPc	22	51.90	1.2
	0.8s	17.91nm				4.3mb X
			iS	26	10.00	
VSG	20.92	108	eP	23	26.00	2.8
SVO	20.99	107	P	23	27.00	3.1X
HNR	21.19	108	eP	23	25.00	-0.9
QLP	23.70	170	eP	23	53.00	2.4
			e	28	40.00	
RMO	24.80	160	eP	24	01.00	-0.3
WARB	26.01	207	iPd	24	16.60	3.9X
MBL	26.22	225	eP	24	14.70	0.1
	0.5s	30.00nm				5.1mb
CMS	28.77	169	e(P)	24	32.00	-5.7X
			e	25	14.00	
			e	30	08.00	
FORR	29.57	200	eP	24	42.00	-2.8X
	0.4s	39.00nm				5.5mb
MEKA	30.80	219	eP	24	50.70	-5.1X
ADE	31.63	181	e(P)	25	03.00	-0.1
DZM	32.16	128	iPc	25	09.00	1.1
COOL	32.58	210	eP	25	10.00	-1.4
BAL	34.79	216	eP	25	30.00	-0.5
KLB	34.92	214	eP	25	31.00	-0.6
MUN	36.08	215	eP	25	42.00	0.5
NWAO	36.23	213	eP	25	42.00	-0.6
SSE	38.32	334	Pd	26	01.00	0.8
	1.0s	12.00nm				4.7mb
IIDJ	38.49	358	P	26	00.30	-1.4
CHJJ	39.03	359	P	26	04.50	-1.6
MAT	39.54	358	iPd	26	07.80	-2.6
MTMJ	39.59	358	P	26	09.30	-1.6
NJ2	40.18	332	Pc	26	17.50	1.9
LOE	42.55	300	eP	26	36.00	0.6
GYA	43.35	315	P	26	44.20	2.3
CHG	45.54	300	eP	27	01.00	1.5
XAN	46.94	325	P	27	10.50	0.1
SNY	47.09	344	Pc	27	11.50	0.1
TIY	47.84	331	eP	27	18.00	0.6
	Z 20s	0.50um				4.5Msz
BJI	48.06	336	eP	27	19.50	0.5
MDJ	48.41	350	Pc	27	21.50	-0.2
CN2	48.46	346	iPd	27	21.00	-1.0
	0.9s	30.00nm				5.3mb
BTO	51.26	331	eP	27	44.20	0.5
LZH	51.36	323	eP	27	43.00	-1.6
	1.5s	20.00nm				4.9mb
	Z 22s	0.25um				4.2Msz
GTA	55.95	323	eP	28	18.80	0.5
		pP	28	26.00	24kmX	
LSA	56.66	309	eP	28	25.00	1.0
GUN	60.14	305	P	28	48.22	0.0
	0.7s	32.00nm				5.5mb
PKI	60.41	304	P	28	49.36	-0.6
KKN	60.59	304	P	28	50.38	-0.7
	0.8s	26.00nm				5.4mb
DMN	60.67	304	P	28	51.90	0.2
GKN	61.20	304	P	28	54.96	-0.2
	0.7s	44.00nm				5.7mb
HYB	63.53	291	eP	29	11.00	0.4
GBA	63.82	287	P	29	14.00	1.5
WMO	65.90	321	P	29	26.80	1.2
QUE	76.65	302	eP	30	30.70	0.1
SPA	86.84	180	iPc	31	21.50	-1.6
	1.0s	10.00nm				5.0mb
		i	31	45.50		
KIC	144.28	276	PKP	38	12.90	-3.2X
TIC	144.54	277	PKP	38	14.00	-2.5X
LIC	144.57	276	PKP	38	13.80	-2.8X
LKO	144.8					

				iSg	35	45.00	
PRU	2.08	214	Pn	35	28.80	-0.3	
			Pg	35	30.50		
			Sn	35	47.60		
			Sg	35	54.00		
			e	45	30.50		
			e	46	13.00		
			eSg	47	02.20		
CLL	2.14	260	iPn	35	29.70	-0.2	
			ePg	35	33.00		
			eSg	35	59.00		
KHC	3.14	216	Pn	35	43.80	-0.4	
			Pg	35	50.40		
			Sn	36	19.00		
			Sg	36	30.00		
HOF	3.16	245	ePn	35	44.20	-0.3	
MOX	3.17	252	ePg	35	53.00	8.4x	
			iSg	36	32.00		
WET	3.40	222	eP	35	47.80	-0.2	
VKA	3.46	180	eP	36	03.00	14.3x	
			e(Sg)	36	39.00		
ZST	3.56	172	eP	36	45.40	55.3x	
			e	45	55.40		
GRF	3.85	240	ePn	35	54.10	-0.1	
			ePg	36	07.20		
			eSg	36	53.30		
NRA0	9.42	345	Pn	37	12.40	0.0	
			Sn	38	57.10		
S.D. = 0.5				on	9 of 12 obs.		
<hr/>							
NOV	24,	1990	18h	43m	32.61 ± 0.29s		
	44.031 N ± 3.2km				11.777 E ± 3.0km		
	DEPTH = 14.8 ± 2.4 km						
NORTHERN ITALY					(545)		
ML 3.5 (LDG). MD 3.3 (ROM).							
SFI	0.12	154	Pc	43	36.10	-0.1	
			eSg	43	40.00		
PGD	0.16	195	Pc	43	36.40	-0.6	
			eSg	43	37.90		
CRE	0.42	163	Pc	43	41.10	-0.2	
			eSg	43	49.30		
MME	0.79	282	P	43	47.50	-0.2	
			eSg	44	01.00		
BDI	0.85	273	P	43	49.00	0.4	
			eSg	44	02.00		
PII	0.96	252	P	43	50.00	-0.4	
			eSg	44	05.00		
ARV	1.00	122	P	43	51.50	0.4	
			eSg	44	07.00		
ASS	1.16	146	P	43	54.70	0.9	
			eSg	44	11.00		
MNS	1.77	158	P	44	03.40	0.4	
			eSn	44	24.30		
SAL	1.81	331	P	44	05.00	1.6	
			eSn	44	28.00		
BOB	1.82	295	Pc	44	06.00	2.3	
			eSn	44	32.00		
CTI	2.02	357	P	44	06.20	-0.4	
			eSn	44	32.00		
AQU	2.06	144	P	44	10.60	3.5x	
TRI	2.19	39	i(Pn)d	44	07.80	-1.2	
			i(PgPg)	44	16.80		
			i	44	35.40		
			i(Sg)	44	46.10		
RIY	2.28	54	ePn	44	09.40	-0.8	
			i	44	19.40		
			iSn	44	38.90		
MDI	2.28	321	P	44	11.60	1.4	
			eSn	44	37.00		
RDP	2.37	163	P	44	11.50	-0.1	
VOY	2.50	36	ePn	44	12.30	-1.1	

VAI	2.82	312	P	44	18.00	0.2
VBY	2.88	58	ePn	44	22.00	3.2X
			ePg	44	29.40	
			iSn	44	55.60	
			iSg	45	07.10	
DUI	3.08	139	P	44	20.00	-1.7
SBF	3.14	268	Pn	44	21.30	-1.2
SOTA	3.21	353	iPnd	44	25.80	2.2
			ic	44	26.60	
			iSn	45	02.50	
ZAG	3.48	58	eP	44	37.00	9.8X
HVAR	3.50	102	iPn	44	28.00	0.5
PTJ	3.51	56	ePn	44	29.00	1.3
FRF	3.74	265	Pn	44	31.80	0.7
BHG	3.77	11	eP	44	33.10	1.7
LMR	3.88	261	Pn	44	34.60	1.6
LRG	3.97	264	Pn	44	34.40	0.3
BSF	5.15	319	Pn	44	50.60	-0.5
			Sn	45	47.40	
KHC	5.25	13	Pg	44	52.50	0.1
			Sg	45	50.00	
CDF	5.38	326	P	44	52.90	-1.4
			Sn	45	50.70	
HAU	5.49	318	Pn	44	54.50	-1.2
			Sn	45	55.30	
SMF	6.17	298	Pn	45	04.20	-1.2
			Sn	46	12.60	
LBF	6.23	301	Pn	45	05.90	-0.3
			Sn	46	14.60	
LOR	6.42	303	Pn	45	07.80	-1.2
			Sn	46	18.30	
SSF	6.55	300	Pn	45	09.50	-1.2
BRG	7.00	11	e(P)	46	11.00	54.0X
			e	47	20.00	
KSP	7.47	23	eP	45	55.00	31.4X
			e	46	38.50	
			e	47	42.70	
S.D. = 1.1 on 42 of 47 obs.						
NOV 24, 1990 18h 45m 19.48± 0.43s						
44.139 N ± 3.6km 11.884 E ± 5.2km						
DEPTH = 10.0km (geophysicist)						
NORTHERN ITALY (545)						
SFI	0.22	186	Pd	45	24.60	0.4
			eSg	45	28.00	
PGD	0.29	204	P	45	25.00	-0.6
			eSg	45	28.80	
CRE	0.51	175	P	45	29.70	-0.2
			eSg	45	37.20	
BDI	0.93	266	P	45	38.00	0.7
			eSg	45	50.00	
ARV	1.00	130	P	45	39.50	1.1
			eSn	45	53.00	
PII	1.07	247	P	45	39.20	-0.4
			eSg	45	52.70	
ASS	1.21	152	P	45	42.80	0.8
SAL	1.76	327	P	45	50.00	-0.1
MNS	1.85	161	P	45	51.00	-0.5
			eSn	46	16.00	
CTI	1.92	355	P	45	54.00	1.4
TRI	2.06	40	P	45	54.50	0.0
FVI	2.53	14	P	46	00.30	-1.0
RBL	2.59	27	P	46	01.50	-0.7
SDI	2.82	149	P	46	04.50	-0.9
S.D. = 0.8 on 14 of 14 obs.						
* NOV 24, 1990 18h 45m 39.57± 1.10s						
44.387 N ± 11.4km 12.073 E ± 15.3km						
DEPTH = 10.0km (geophysicist)						
NORTHERN ITALY (545)						
SFI	0.49	199	P	45	50.0	

DEPTH = 33.0km (normol)						Sn 21 14.60						KKB 4.09 287 eP 29 27.00 8.9X					
OAXACA, MEXICO (60)						LSF 6.58 219 Pn 20 03.00 -2.0						MLR 5.04 341 eP 29 33.00 1.4					
						MFF 7.04 229 Pn 20 10.00 -1.3						S.D. = 1.3 on 17 of 24 obs.					
EVV 1.71 344 iP 11 17.00 0.2						S.D. = 1.1 on 32 of 34 obs.											
OXX 1.80 279 iP 11 19.00 0.6						? NOV 24, 1990 20h 33m 51.86± 5.10s						% NOV 24, 1990 22h 58m 24.01± 0.60s					
						23.502 S ±21.5km 176.266 W ±20.0km						40.007 N ± 5.5km 28.903 E ± 4.6km					
SCX 2.14 92 iP 11 23.00 0.0						DEPTH = 214.9 ± 46.8 km						DEPTH = 10.0km (geophysicist)					
						4.5mb (6 obs.)						TURKEY (366)					
IISM 3.23 313 (P) 11 38.00 -0.5						SOUTH OF FIJI ISLANDS (171)						MD 2.6 (ISK).					
PPM 4.23 303 iP 11 54.00 0.8						DZM 16.01 272 iPc 37 27.00 -0.1						DST 0.45 208 iPg 58 32.90 -0.3					
						CTA 34.90 268 iPc 40 26.00 1.1						KCT 0.48 300 iPg 58 34.70 0.9					
III 4.66 290 iP 11 58.00 -1.1						0.8s 14.18nm 4.6mb						IZI 0.55 53 iPg 58 34.20 -0.9					
S.D. = 0.9 on 6 of 6 obs.						PMG 37.64 286 eP 40 48.00 0.0						BNT 0.83 295 ePg 58 39.70 -0.4					
NOV 24, 1990 20h 18m 25.84± 0.50s						WB5 45.84 265 eP 41 53.90 -0.5						EDC 0.87 293 ePg 58 40.30 -0.4					
51.515 N ± 5.4km 7.521 E ± 3.6km						WRA 45.85 265 P 41 53.00 -1.5X						HRT 1.00 35 iPg 58 42.20 -0.8					
DEPTH = 10.0km (geophysicist)						0.6s 7.80nm 4.3mb						ISK 1.06 6 iPn 58 44.70 0.7					
GERMANY (543)						FORR 49.61 249 eP 42 22.70 -0.7						GPA 1.11 75 ePn 58 46.00 1.1					
ML 3.4 (GSH), 3.0 (BNS), Felt						SPA 66.64 180 iPd 44 21.50 0.3						ALT 1.33 135 iPn 58 48.90 0.3					
(IV) in the Bergkamen area.						1.0s 9.00nm 4.5mb						S.D. = 0.8 on 9 of 9 obs.					
BNS 0.59 202 iPg 18 39.70 1.9						ALQ 88.04 50 e(P) 46 18.80 -0.4						& NOV 24, 1990 23h 40m 32.10s					
0.3s 660.00nm						1.0s 2.50nm 4.0mb						33.033 N 117.800 W					
WTS 0.65 318 iPgd 18 38.80 0.0						PNT 88.26 33 eP 46 20.00 0.3						DEPTH = 6.0km (geophysicist)					
0.6s 81.00nm						0.8s 8.00nm 4.6mb						SOUTHERN CALIFORNIA (43)					
PLH 0.67 221 ePg 18 40.30 1.1						CHG 92.76 289 eP 46 46.10 5.0X						<PAS-P>. ML 2.6 (PAS).					
						CHTO 92.76 289 iP 46 46.00 4.9X						PLM 0.85 68 iP 40 47.30 -1.7					
GSH 1.06 223 iPgd 18 47.90 2.1						1.0s 7.75nm 4.7mb						PEC 1.01 32 iP 40 50.00 -1.6					
						SLL 142.45 352 ePKP 52 57.20 -2.8X						ABL 2.16 327 eP 41 07.00 -2.4					
ENN 1.25 234 iPgd 18 50.70 1.6						0.5s 1.20nm						BCH 2.86 319 eP 41 17.00 -2.3					
						EKA 147.80 7 PKP 53 16.00 7.0X						4 obs. associated					
MEM 1.32 227 iP 18 51.45 1.3						1.1s 14.80nm						? NOV 24, 1990 23h 59m 33.75± 5.45s					
						KAS 149.23 313 ePKP 53 20.50 8.7X						39.071 N ±40.1km 28.792 E ±22.1km					
WIT 1.40 338 ePn 18 52.50 1.1						BBTK 150.58 310 iPKPd 53 23.00 9.0X						DEPTH = 10.0km (geophysicist)					
						KSP 151.01 343 iPKPd 53 23.30 9.2X						TURKEY (366)					
TNS 1.42 155 ePnc 18 52.90 1.2						CLL 151.33 348 iPKP 53 23.50 9.0X						MD 2.2 (ISK).					
						0.8s 12.00nm						DST 0.55 347 ePg 59 44.70 -0.2					
SNF 2.28 245 iPc 19 04.80 0.8						BRG 151.55 346 iPKP 53 23.80 8.9X						KCT 1.22 344 ePn 59 57.10 0.6					
DOU 2.34 234 P 19 05.80 0.9						0.8s 14.00nm						IZI 1.37 22 ePn 59 59.00 0.1					
						PRU 152.24 345 ePKP 53 25.50 9.6X						BNT 1.45 333 ePn 59 59.90 -0.1					
						KHC 153.27 346 ePKP 53 29.00 11.6X						S.D. = 0.6 on 4 of 4 obs.					
MOX 2.73 107 ePg 19 11.00 0.6						SFI 158.57 344 PKPc 53 37.20 12.9X						* NOV 25, 1990 00h 32m 14.62± 2.15s					
						eSg 53 40.00						5.627 S ±10.1km 130.901 E ± 9.0km					
GRF 2.98 126 ePn 19 14.60 0.6						PGD 158.64 344 PKPc 53 37.50 12.8X						DEPTH = 72.0 ± 21.1 km					
						ePg 53 40.00						5.1mb (9 obs.)					
						eSg 20 03.40						BANDA SEA (280)					
HOF 3.01 112 iPnc 19 14.30 -0.1						CRE 158.81 343 PKPd 53 42.50 17.7X						MTN 7.18 178 eP 33 59.70 0.6					
CDF 3.11 183 Pn 19 16.20 0.3						eSg 53 48.00						KUPT 8.51 238 eP 34 12.50 -5.0X					
						S.D. = 0.8 on 8 of 23 obs.						MNI 9.27 319 eP 35 00.00 32.1X					
CLL 3.44 91 ePg 19 30.00 9.5X						NOV 24, 1990 21h 28m 14.14± 0.50s						eS 35 17.00					
						40.758 N ± 5.0km 28.310 E ± 4.4km						KNA 10.28 192 eP 34 40.40 -1.2					
HAU 3.59 193 Pn 19 22.50 -0.3						DEPTH = 10.0km (geophysicist)						0.3s 124.00nm 6.4mb X					
						TURKEY (366)						WB5 14.56 167 eP 35 33.50 -4.9X					
BSF 3.72 188 Pn 19 24.20 -0.4						MD 3.2 (ISK), 3.2 (ATH).						eS 38 04.00					
						CTT 0.40 13 iPg 28 19.70 -2.6						PMG 16.54 104 eP 36 05.00 1.4					
BRG 4.09 97 ePn 19 29.00 -0.7						BNT 0.50 217 iPg 28 23.20 -1.1						OIS 17.08 151 eP 36 08.00 -2.3					
						KCT 0.51 176 iPg 28 24.70 0.2						eS 39 05.00					
						EDC 0.53 220 ePg 28 24.30 -0.6						ASPA 18.17 171 iPd 36 21.80 -1.9					
KHC 4.56 119 Pg 19 37.40 1.0						eSg 28 29.80						0.5s 121.60nm 5.4mb					
						ISK 0.65 61 iPg 28 25.20 -1.8						TRT 18.26 263 iPd 36 26.00 1.2					
PRU 4.71 106 Pn 19 38.00 -0.6						iSg 28 34.20						MBL 18.80 214 eP 36 32.50 1.2					
						KGT 0.83 249 iPg 28 29.20 -0.9						0.5s 11.00nm 4.3mb					
LOR 4.88 211 Pn 19 40.20 -0.8						iSg 28 39.20						CTA 20.72 135 iPd 36 51.90 0.4					
						YLV 0.83 103 iPg 28 30.20 -0.1						1.0s 30.00nm 4.6mb					
						GBZT 0.86 88 iPgc 28 32.60 1.9						WARB 20.84 191 iPc 36 54.00 1.3					
LBF 5.09 208 Pn 19 43.00 -1.0						iSg 28 46.00						MEKA 23.98 208 eP 37 24.00 0.5					
SSF 5.17 212 Pn 19 44.50 -0.6						IZI 0.98 115 ePg 28 33.20 0.4						FORR 25.23 186 eP 37 34.70 -0.7					
SMF 5.44 208 Pn 19 47.90 -1.0						HRT 1.03 86 iPg 28 33.70 0.0						0.4s 49.00nm 5.3mb					
AVF 5.46 212 Pn 19 48.30 -0.9						DMK 1.14 339 iPg 28 31.90 -3.6X						RMQ 26.85 143 eP 37 50.00 -0.4					
KSP 5.56 94 ePn 19 50.00 -0.6						DST 1.18 168 iPn 28 36.70 0.6						ADE 30.07 167 iPd 38 19.00 0.4					
						GPA 1.59 106 iPn 28 45.00 2.5X						COO 31.71 144 eP 38 34.00 0.2					
						EZN 1.78 239 ePn 28 45.00 -0.1						BWA 32.93 153 iPd 38 46.00 1.7					
LDF 5.73 242 Pn 19 52.50 -0.4						RDO 2.14 281 ePn 28 50.00 -0.3						CAN 33.94 153 iPd 38 53.20 0.1					
						JMB 2.14 323 iP 28 52.00 1.6						BDT 38.85 306 iPc 39 36.30 1.6					
BGF 5.84 214 Pn 19 53.40 -1.0						PRK 2.18 227 ePn 28 53.80 2.9X						CHG 39.77 308 ePc 39 43.00 0.7					
						ALT 2.19 140 iPn 28 56.40 5.1X						0.9s 14.08nm 4.9mb					
FLN 5.84 245 Pn 19 53.70 -0.7						KDZ 2.36 293 iP 28 55.00 1.5						GUN 54.75 310 P 41 39.10 -0.6					
						KHL 2.61 159 ePn 29 04.00 6.9X											
GRR 6.25 243 Pn 19 59.40 -0.8						RZN 2.87 290 eP 29 01.00 0.1											
						MMB 3.56 285 eP 29 21.00 10.4X											
TCF 6.29 216 Pn 19 52.90 -8.0X																	
LPF 6.55 241 Pn 20 03.60 -0.9																	

25d 00h

0.5s 38.00nm 5.7mb
 PKI 54.94 309 P 41 40.16 -0.9
 KKN 55.14 309 P 41 41.74 -0.7
 DMN 55.19 309 P 41 42.14 -0.7
 0.5s 22.00nm 5.4mb
 GKN 55.74 309 P 41 46.04 -0.6
 0.5s 48.00nm 5.8mb
 GBA 56.41 290 Pd 41 50.10 -1.3
 0.4s 1.10nm 4.3mb
 CNCB 150.92 140 PKP 52 03.70 7.4X
 LPB 151.05 140 PKP 52 03.00 6.7X
 ZOBO 151.23 139 PKP 52 04.00 7.2X
 S.D. = 1.2 on 24 of 30 obs.

NOV 25, 1990 00h 36m 07.69±0.57s
 40.175 N ± 5.3km 20.410 E ± 5.5km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.1 (ATH).

LSK 0.15 100 iPg 36 09.00 -2.2
 TPE 0.33 292 iPg 36 12.00 -2.5
 SRN 0.43 227 iPg 36 17.70 1.2
 KBN 0.54 34 ePg 36 18.30 -0.4
 IGT 0.64 185 ePc 36 19.76 -0.8
 eS 36 31.48
 KEK 0.66 226 ePg 36 20.00 -0.8
 eSg 36 33.00
 FNA 0.96 50 ePc 36 24.56 -1.4
 eS 36 38.92
 OHR 0.98 17 iPg 36 24.50 -1.8
 iSg 36 39.20
 Lg 36 45.00
 KZN 1.05 82 ePg 36 25.20 -2.3
 TIR 1.24 341 ePn 36 31.70 1.0
 PHP 1.51 1 ePn 36 36.10 1.3
 LIT 1.60 92 ePd 36 36.24 0.2
 iS 36 58.48
 EVR 1.66 139 ePb 36 36.50 -0.5
 GRG 1.71 62 ePd 36 37.92 0.3
 eS 37 02.64
 AGG 1.88 127 ePd 36 41.45 1.3
 eS 37 08.72
 SKO 1.96 23 iPn 36 43.50 2.2
 SDA 1.96 340 ePn 36 44.30 3.0X
 VLS 2.00 176 ePn 36 43.50 1.6
 VAY 2.00 54 ePn 36 43.60 1.7
 THE 2.00 76 ePd 36 43.56 1.6
 iS 37 10.96
 KNT 2.13 62 ePc 36 43.80 0.0
 eS 37 12.12
 BCI 2.21 353 ePn 36 49.00 4.2X
 SOH 2.34 73 ePc 36 46.92 0.1
 eS 37 18.76
 PAIG 2.52 95 ePc 36 49.28 -0.1
 eS 37 21.32
 SRS 2.60 68 eP 36 50.90 0.4
 eS 37 25.76
 S.D. = 1.5 on 23 of 25 obs.

NOV 25, 1990 01h 00m 53.15±0.30s
 23.575 S ±10.1km 175.024 W ± 5.8km
 DEPTH = 29.1km (3 depth phases)
 5.3mb (16 obs.) 5.3msz (16 obs.)
 TONGA ISLANDS REGION (174)
 Ms 5.6 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 29C
 Centroid Location:
 Origin Time 01:00:58.7 0.4
 Lat 23.55S 0.06 Lon 175.49W 0.05
 Dep 15.0 FIX Half-duration 2.2
 Moment Tensor: Scale 10**17 Nm
 Mrr= 2.00 0.07 Mtt=-0.09 0.10
 Mff=-1.90 0.11 Mrt= 1.56 0.20
 Mrf= 2.73 0.26 Mtf=-0.66 0.07
 Principal Axes:
 T Val= 3.73 Plg=61 Azm=307
 N 0.06 6 206
 P -3.79 28 113
 Best Double Couple: Mo=3.8*10**17
 NP1: Strike=187 Dip=17 Slip= 70
 NP2: 28 74 96
 RAO 5.96 198 P 01 27.00 -54.7X
 AFI 10.35 22 eP 03 17.00 -5.9X

eS 05 24.00
 PVC 15.94 288 iPd 04 44.00 7.0X
 DZM 16.42 272 iPd 04 48.00 4.8X
 iS 08 15.90
 HNR 27.09 297 eP 06 35.00 -0.5
 eS 11 23.00
 SVO 27.36 298 P 06 40.00 2.1
 RMO 32.16 257 ePd 07 20.50 -0.2
 CMS 34.77 248 eP 07 43.00 -0.2
 CTA 35.31 268 iPc 07 47.00 -0.9
 1.1s 65.82nm 5.5mb
 iS 13 19.00
 PMG 38.06 285 eP 08 10.00 -1.1
 ADE 40.94 243 eP 08 35.00 0.1
 QIS 41.29 265 eP 08 37.00 -0.9
 ASPA 45.86 259 iPc 09 10.30 -4.6X
 1.3s 26.10nm 5.0mb
 Z 21s 4.00um 5.3msz
 iPcS 14 44.70
 iS 15 54.00
 iScS 19 10.80
 WB5 46.24 265 eP 09 16.40 -1.4
 e 15 01.70
 WRA 46.24 264 P 09 16.00 -1.9
 0.9s 18.20nm 5.0mb
 SBA 54.96 184 iPd 10 36.70 13.3X
 e(S) 18 17.00
 SPA 66.57 180 iPd 11 43.60 1.0
 1.0s 25.00nm 5.3mb
 MAT 73.87 323 (P) 12 22.00 -5.1X
 Z 20s 1.06um 5.1msz
 eS 21 51.00
 PRS 78.69 42 eP 12 54.00 -0.3
 BCH 78.76 44 P 12 55.50 0.7
 GCC 78.76 41 eP 12 54.30 -0.3
 SAO 78.92 42 eP 12 56.70 1.1
 PRI 79.00 43 eP 12 57.70 1.5
 ABL 79.10 44 P 12 57.20 0.4
 BRK 79.16 40 eP 12 57.80 1.0
 BKS 79.17 40 e(P) 12 58.00 1.1
 Z 20s 1.90um 5.4msz
 N 20s 1.80um
 E 20s 1.80um
 eS 13 07.00 29km
 eS 23 00.00
 eLR 37 31.00
 MHC 79.18 41 eP 12 57.30 0.2
 ARN 79.25 41 P 12 57.30 -0.1
 MAW 79.36 199 eP 12 58.00 0.6
 PLM 79.73 47 eP 13 01.00 0.8
 RVR 79.77 46 eP 13 05.00 4.8X
 SBB 79.90 45 eP 13 01.00 0.0
 ISA 80.08 44 eP 13 02.00 0.1
 FRI 80.14 42 eP 13 02.20 0.1
 CMB 80.39 41 eP 13 02.50 -1.0
 TPC 80.72 47 eP 13 05.00 -0.3
 CLC 80.74 44 eP 13 05.00 -0.4
 WDC 80.79 38 eP 13 04.70 -0.8
 GSC 80.94 45 eP 13 06.00 -0.5
 MIN 81.17 39 eP 13 07.40 -0.2
 SSE 81.19 309 eP 13 04.00 -3.8X
 Z 20s 0.50um 4.9msz
 E 15s 0.40um
 TNP 82.36 43 P 13 14.00 0.0
 1.4s 26.04nm 5.1mb
 NJ2 83.38 309 P 13 20.00 0.9
 MDJ 84.18 324 eP 13 23.00 0.1
 Z 22s 1.50um 5.3msz
 DL2 85.34 316 P 13 26.00 -2.7
 Z 20s 0.60um 5.0msz
 SNY 85.85 319 iPc 13 31.00 -0.2
 Z 25s 1.00um 5.1msz
 eP 13 38.00 22km
 eSKS 23 48.00
 WHN 85.88 306 P 13 31.00 -0.6
 6.0s 600.00nm 6.0mb X
 Z 18s 0.70um 5.1msz
 eSKS 23 52.00
 CN2 85.95 322 P 13 31.50 -0.2
 5.0s 500.00nm 6.0mb X
 SVW 85.95 10 eP 13 25.10 -6.3X
 TIA 86.82 312 eP 13 36.60 0.4
 DAU 87.48 44 eP 13 40.00 0.3
 1.1s 1.10nm 4.0mb X
 PMR 87.55 12 e(P) 13 37.70 -1.4
 1.2s 24.62nm 5.4mb
 Z 20s 1.50um 5.4msz

TTA 87.63 9 eP 13 39.20 -0.4
 1.3s 35.38nm 5.5mb
 ALO 87.77 50 ePc 13 40.30 -0.7
 1.2s 18.36nm 5.2mb
 Z 19s 2.69um 5.7msz
 ANMO 87.77 50 P 13 41.30 0.3
 1.4s 109.01nm 6.0mb
 Z 20s 2.66um 5.6msz
 PV09 87.80 46 eP 13 41.50 0.3
 PNT 88.10 33 eP 13 42.00 0.0
 0.8s 10.00nm 5.2mb
 BJI 89.48 315 eP 13 49.00 0.2
 2.0s 170.00nm 6.0mb
 Z 24s 0.95um 5.1msz
 esP 14 00.00
 GYA 89.91 299 P 13 52.60 1.3
 FBA 90.82 12 eP 13 52.10 -2.3
 1.3s 31.13nm 5.5mb
 TIY 90.82 311 Pd 13 56.40 1.3
 Z 22s 1.00um 5.2msz
 N 20s 1.50um
 GOL 90.93 47 P 13 55.00 -0.9
 1.4s 11.42nm 5.0mb
 Z 20s 1.25um 5.3msz
 IMA 90.94 9 eP 13 53.20 -2.0
 1.4s 17.05nm 5.2mb
 XAN 91.58 307 P 13 59.50 0.8
 BDT 92.49 288 eP 14 06.00 2.9X
 KMI 92.53 296 P 14 04.50 1.0
 HHC 92.93 314 eP 14 05.00 0.2
 CHG 93.17 289 eP 14 08.10 1.9
 1.4s 55.23nm 5.8mb
 SES 93.17 35 eP 14 06.00 0.4
 ME0 93.38 54 iPd 14 07.30 0.3
 BTO 93.85 313 eP 14 09.00 0.0
 RSSD 93.98 43 P 14 08.40 -1.3
 CD2 94.13 302 eP 14 11.50 1.0
 LZH 96.22 307 eP 14 21.00 0.8
 5.0s 280.00nm 6.0mb X
 Z 22s 0.95um 5.2msz
 E 20s 1.10um
 pP 14 32.50 37km
 eSKS 24 55.00
 CNCB 98.92 113 P 14 41.70 8.5X
 LPB 98.94 112 eP 14 51.00 17.8X
 LR 47 20.00
 ZOBO 99.04 112 P 14 31.00 -2.8
 Z 18s 0.80um 5.3msz
 LR 47 04.00
 GTA 100.46 308 ePd 14 39.60 0.3X
 1.6s 20.00nm 5.4mb
 Z 22s 1.10um 5.3msz
 RSNY 113.99 50 PKP 19 40.00 8.9X
 Z 20s 1.13um 5.5msz
 QUE 124.22 291 ePKP 19 51.60 0.2
 MAIO 131.01 298 ePKP 20 05.00 1.0
 NB2 142.24 354 PKP 20 17.60 -6.5X
 1.1s 5.10nm
 HFS 142.86 352 ePKP 20 19.00 -6.1X
 0.4s 1.20nm
 LWI 144.89 226 iPKP+ 20 30.00 -0.2
 EKA 147.82 8 PKP 20 38.00 4.6X
 1.2s 25.00nm
 KAS 149.58 313 ePKP 20 42.50 5.7X
 BHL 150.65 298 PKP 20 44.00 5.4X
 WIT 150.75 357 ePKP 20 46.00 8.0X
 KRA 150.84 339 iPKPd 20 44.10 5.8X
 1.5s 117.00nm
 GLH 150.87 295 ePKP 20 45.00 6.2X
 CFR 150.93 324 ePKP 20 45.00 6.5X
 BBTK 150.94 311 iPKPc 20 46.00 7.1X
 e 21 04.00
 KSP 151.20 344 ePKP 20 39.00 0.2
 1.2s 58.00nm
 ic 20 45.30
 VRI 151.23 326 ePKP 20 40.00 1.0
 SPC 151.47 338 ePKP 20 44.90 5.4X
 ZNT 151.48 294 ePKP 20 46.00 6.2X
 CLL 151.48 348 iPKPc 20 45.20 6.0X
 1.7s 90.00nm
 WTS 151.55 357 ePKP 20 41.00 1.7
 0.9s 19.00nm
 BRG 151.71 347 ePKP 20 39.50 -0.1
 1.8s 48.00nm
 e 20 46.00
 e 20 54.50
 MLR 151.89 326 ePKPd 20 46.00 5.8X

MBH	151.93	289	ePKP	20	47.00	6.5X			iS	53	56.00		WRG	3.62	32	P	08	27.59	-6.0		
MOX	152.36	350	ePKP	20	48.00	7.5X		UPA	4.51	282	iPd	53	12.30	-1.5	WAX	3.76	23	eP	08	29.65	-6.1
	1.4s	168.00nm							0.8s	226.87nm			CNPM	3.77	314	eP	08	30.19	-5.5		
PRU	152.42	345	ePKP	20	47.20	6.6X		ECO	4.75	286	iPd	53	15.40	-1.8	BRLK	3.79	318	eP	08	30.46	-5.6
	1.4s	26.00nm								S	54	08.80		GLI	3.90	351	eP	08	31.98	-5.6	
			e	21	08.80			ZOBO	25.16	164	P	57	28.00	0.8	YAH	3.97	31	eP	08	32.45	-6.3
									0.9s	39.79nm			VZW	4.04	355	eP	08	33.66	-6.0		
COZ	152.81	328	ePKP	20	21.00	-20.5X		LPB	25.42	164	P	57	30.00	0.6	TGL	4.05	22	eP	08	33.54	-6.2
ENN	152.82	358	e(PKP)	20	45.00	3.9X		CNCB	25.71	164	P	57	33.50	1.2	VLZ	4.11	357	eP	08	34.49	-5.9
SRO	153.31	338	ePKP	20	49.90	8.0X		CCH	26.80	161	P	57	40.00	-2.0	NNL	4.14	319	eP	08	35.84	-5.0
			i	21	01.80			SIV	27.65	150	P	57	48.00	-1.4	SLKM	4.15	329	eP	08	35.52	-5.5
GRF	153.35	350	ePKP	20	48.20	6.2X		OLY	31.15	334	P	58	20.20	-0.2	PNL	4.31	50	eP	08	36.66	-6.8
			e	21	02.40			FYM	32.84	337	P	58	35.20	0.0	BCPM	4.39	46	eP	08	38.13	-6.3
ZST	153.37	340	ePKP	20	41.80	-0.2		MEQ	34.24	324	iPd	58	46.50	-0.8	BALM	4.40	23	eP	08	38.40	-6.4
			e	20	49.60			BAO	35.70	131	eP	58	59.50	-0.6	HON	4.42	54	eP	08	38.39	-6.5
			e	21	02.10			SOB1	38.13	116	ePc	59	19.80	-0.6	KLU	4.47	360	eP	08	39.31	-6.3
KHC	153.44	346	PKP	20	42.80	0.7		ALO	39.28	317	eP	59	31.00	1.0	GLB	4.54	13	eP	08	40.03	-6.6
			i	21	03.30				0.9s	7.56nm			CDD	4.55	298	eP	08	41.49	-5.2		
BZS	153.85	331	ePKP	20	39.00	-3.7X			39.28	317	P	59	31.00	1.0	KNK	4.58	344	eP	08	41.82	-5.4
SOP	153.99	341	e(PKP)	20	42.00	-0.9		ANMO	1.0s	28.75nm			PMS	4.62	337	eP	08	42.36	-5.5		
BCAO	156.46	218	iPKPd	20	48.30	1.1		PDQR	41.18	119	eP	59	44.00	-1.5	JNE	4.83	312	eP	08	44.51	-6.4
	0.9s	23.00nm								e	59	57.80		PLRM	4.86	341	eP	08	45.78	-5.3	
			i	21	07.50			VAO	41.36	139	eP	59	46.60	-0.4	RDT	4.90	319	eP	08	45.76	-6.1
			i	21	17.00			GOL	41.54	324	P	59	49.00	0.4	REF	4.95	317	eP	08	46.83	-5.8
SKO	156.69	326	ePKP	20	55.00	8.3X			0.9s	11.36nm			RSO	4.96	317	eP	08	46.92	-5.8		
LKO	163.21	145	PKP	20	54.48	0.0		BMA	43.04	136	eP	59	56.10	-4.6X	RS2	4.96	317	eP	08	46.81	-5.9
	S.D.	= 1.0	on	76	of	114 obs.				e	00	01.60		GHO	4.99	343	eP	08	47.75	-5.4	
										e	00	11.50		RDN	4.99	317	eP	08	46.82	-6.3	
														TOA	5.08	358	eP	08	49.00	-5.3	
	NOV	25, 1990	01h 35m	58.88±	0.69s			RSSD	43.87	330	P	00	07.40	-0.1	NCT	5.09	317	eP	08	48.34	-6.1
	38.890 N ±	7.9km	25.022 E ±	5.6km				DAU	45.54	321	eP	00	22.20	1.2	PDB	5.16	306	eP	08	49.45	-6.0
	DEPTH =	10.0km	(geophysicist)						0.9s	2.20nm				SPU	5.23	325	eP	08	50.23	-6.2	
	AEGEAN SEA			(365)				PLM	46.02	309	P	00	26.00	1.3	CGLM	5.31	326	eP	08	51.85	-5.8
	ML 2.9 (ATH).							DUG	46.40	320	P	00	28.00	1.0	CKL	5.33	324	eP	08	51.76	-6.2
PRK	1.04	70	eP	36	17.90	-0.5		TNP	48.31	315	P	00	43.00	0.4	BGL	5.40	324	eP	08	53.49	-5.4
ATH	1.38	229	eP	36	23.00	-1.1			0.8s	3.19nm				NCG	5.43	326	eP	08	54.08	-5.3	
EZN	1.38	47	iPn	36	22.40	-1.7		LRM	49.45	326	eP	00	51.90	0.6	SKT	5.73	332	eP	08	53.03	-10.4
NEO	1.46	287	eP	36	27.00	1.7		SES	51.66	331	eP	01	08.00	0.2		48 obs. associated					
PAIG	1.47	315	ePc	36	25.78	0.4		LBFM	52.98	317	P	01	18.00	0.0							
			eS	36	45.98			PNT	55.43	326	eP	01	36.00	0.5							
									0.6s	3.00nm											
OUR	1.65	331	eP	36	28.30	0.3		YKA	61.42	340	eP	02	15.60	-1.4	%	NOV	25, 1990	02h 30m	20.75±	2.02s	
IZM	1.82	105	ePn	36	32.00	1.5			0.6s	4.00nm						15.596 N ±	9.3km	60.836 W ±	19.3km		
APE	1.86	167	eP	36	29.80	-1.3		LKO	68.56	83	P	03	03.44	-0.5		DEPTH =	10.0km	(geophysicist)			
AGG	2.10	274	eP	36	36.00	1.4			0.7s	17.50nm						LEEWARD ISLANDS		(92)			
			eS	37	05.26			TIC	69.40	86	P	03	08.54	-0.6		ML 2.4 (FDF).					
ALN	2.15	21	ePd	36	36.82	1.5		LIC	69.44	86	P	03	08.86	-0.5	BBL	0.62	263	iPc	30	33.30	0.0
			iS	37	01.78			KIC	69.71	86	Pd	03	10.76	-0.2		S	30	40.50			
RDO	2.29	10	eP	36	38.80	1.6			0.8s	24.50nm					FDF	0.91	200	eP	30	38.17	0.0
LIT	2.30	302	ePd	36	36.02	-1.5		INK	71.19	340	eP	03	19.00	0.0		0.1s	0.20nm				
			eS	37	03.34			MBC	72.22	350	eP	03	24.00	-1.0		S	30	49.30			
SOH	2.32	327	ePd	36	35.98	-1.7			1.0s	6.00nm					PAG	0.92	298	eP	30	38.40	0.0
KGT	2.35	48	iPn	36	36.10	-2.0		BCAO	92.94	85	iPc	05	17.10	3.8X		S	30	49.40			
THE	2.35	318	ePd	36	38.02	-0.1			0.6s	8.00nm					SEG	1.03	321	eP	30	40.16	0.0
SRS	2.48	334	ePc	36	37.82	-2.1				i	05	29.00				S	30	52.30			
BNT	2.67	56	ePn	36	46.00	3.2X		GBA	145.21	52	PKPc	11	40.10	2.0	MVM	1.04	183	eP	30	40.37	0.0
KNT	2.79	325	ePc	36	45.26	0.8			0.6s	3.40nm						S	30	53.60			
GRG	2.88	317	ePc	36	45.58	-0.2		KOD	147.15	57	ePKP	11	53.00	11.3X		S.D.	= 0.0	on	5	of	5 obs.
DST	2.89	75	ePn	36	48.00	2.2		ASPA	148.23	237	ePKP	11	46.00	3.1X							
FNA	3.38	305	ePc	36	51.82	-1.1			0.6s	5.70nm											
IGT	3.70	281	ePd	36	59.34	2.0		WB5	149.19	245	ePKP	11	50.00	5.5X	? NOV	25, 1990	03h 34m	05.41±	2.96s		
IZI	3.73	66	ePn	37	08.00	10.2X		WRA	149.20	244	PKP	11	49.00	4.5X		8.652 S ±	28.4km	123.642 E ±	18.3km		
	S.D.	= 1.5	on	21	of	23 obs.			0.8s	2.80nm						DEPTH =	66.9 ±	33.0 km			
																3.6mb (1 obs.)				
									S.D.	= 1.1	on	36	of	42 obs.		FLORES ISLAND REGION		(286)			
	NOV	25, 1990	01h 44m	43.73±	0.70s			& NOV	25, 1990	02h 07m	36.31s		KUPT	1.49	181	eP	34	30.50	0.0		
	38.739 N ±	5.2km	26.498 E ±	9.1km					57.042 N	145.879 W		MTN	8.46	120	eP	36	08.00	0.3			
	DEPTH =	10.0km	(geophysicist)						DEPTH =	10.0km	(geophysicist)			0.3s	7.00nm			5.0mb	X		
	AEGEAN SEA			(365)					GULF OF ALASKA		(15)		KNA	8.65	145	eP	36	10.40	0.1		
	MD 3.1 (ATH), 3.0 (ISK).								<AGS-P>.					eS	37	31.00					
PRK	0.54	341	ePn	44	54.00	-0.6		MID	2.41	354	eP	08	11.92	-4.4		eS	37	35.00			
			eSn	45	03.00			KAIM	2.99	14	eP	08	19.07	-5.6	WB5	15.24	138	eP	37	37.00	-1.2
IZM	0.69	119	iPg	44	57.90	0.5		MTU	3.10	343	iP	08	20.68	-5.4		eS	40	09.00			
			iSg	45	10.90						eS	08	55.04		ASPA	17.87	148	eP	38	12.00	0.9
SMG	1.06	165	ePn	45	02.80	-0.9					eS	08	21.51	-5.8		0.4s	1.90nm				
EZN	1.09	353	iPn	45	04.90	0.6		LTI	3.18	342	eP	08	57.04			eS	41	15.00			
KGT	1.82	20	iPn	45	15.10	-0.2					eS	08	24.55	-5.7	PKI	51.63	316	P	43	14.40	6.4X
APE	1.83	205	ePn	45	16.20	0.6		HIN	3.38	355	eP	08	24.55	-5.7	GKN	52.44	315	P	43	13.80	0.0
DST	1.87	62	ePn	45	16.00	-0.1					eS	09	02.83			S.D.	= 1.1	on	6	of	7 obs.
	S.D.	= 0.8	on	7	of	7 obs.		HMT	3.41	14	iP	08	25.06	-5.6							
								RAGM	3.41	10	iP	08	25.01	-5.7							
	NOV	25, 1990	01h 52m	06.44±	0.99s			KNIM	3.46												

25d 03h

L.P.B.: 14S, 35C					PLM	79.83	47 eP	48 17.00	0.1	ZOBO	98.92	112 P	49 55.00	5.7X
Centroid Location:					RVR	79.88	46 eP	48 16.00	-0.9	Z	20s	0.93um		5.3Msz
Origin Time 03:36:17.1 0.3					OZH	79.93	303 eP	48 16.00	-1.3			S	00 36.00	
Lat 23.54S 0.04 Lon 175.46W 0.03					Z	20s	1.87um		5.4Msz			LR	21 42.00	
Dep 30.0 1.9 Half-duration 2.3					PEC	79.96	46 e(P)	48 16.80	-0.6	GTA	100.63	308 ePdiff	49 57.40	1.3
Moment Tensor: Scale 10**17 Nm					SBB	80.01	45 eP	48 17.00	-0.7	Z	22s	1.90um		5.6Msz
Mrr= 4.08 0.10 Mtt=-0.03 0.16					ISA	80.19	44 eP	48 18.00	-0.7	E	17s	1.50um		
Mff=-4.05 0.17 Mrt= 2.17 0.25					FR1	80.25	42 ePc	48 18.40	-0.4	SOB1	125.06	121 ePKP	55 09.50	0.5
Mrf= 3.27 0.30 Mtf=-1.99 0.11					CMB	80.51	41 ePc	48 19.90	-0.4	MAIO	131.15	298 ePKP	55 22.00	1.8
Principal Axes:					TPC	80.82	47 eP	48 23.00	1.0	NUR	140.64	344 ePKP	55 33.00	-4.0X
T Val= 5.62 Plg=68 Azm=316					CLC	80.85	44 eP	48 21.00	-1.1	NB2	142.45	354 PKP	55 36.70	-3.6X
N 0.69 7 207					WDC	80.92	38 ePc	48 22.00	-0.3		0.9s	4.00nm		
P -6.30 20 115					GSC	81.05	45 eP	48 23.00	-0.2	HFS	143.07	352 ePKP	55 36.80	-4.5X
Best Double Couple:Ma=6.0*10**17					MIN	81.29	39 eP	48 23.90	-0.5		0.4s	1.90nm		
NP1:Strike=192 Dip=25 Slip= 73					SSE	81.36	309 P	48 24.50	-0.3	Z	20s	0.74um		5.4Msz
NP2: 31 66 98						5.0s	400.00nm		5.6mb X			LR	46 51.00	
RAO	5.78	199 P	37 39.00	0.9	Z	20s	0.90um		5.1Msz	AFIF	144.48	279 ePKP	55 45.50	0.5
AFI	10.52	22 eP	38 33.00	-10.7X	N	16s	0.90um			LWI	144.78	226 iPKPc	55 46.90	1.0
		eS	40 48.00		TNP	82.48	43 iPd	48 30.50	-0.2	EKA	148.01	8 PKPd	55 54.70	5.0X
PUZ	15.13	198 eP	39 44.70	0.1		1.0s	74.17nm		5.6mb		0.9s	22.70nm		
PVC	16.05	289 iP	40 03.50	7.2X	GZH	83.11	299 eP	48 34.00	0.0	KVT	148.31	311 ePKP	55 55.30	4.6X
DZM	16.47	272 iPc	40 05.20	3.4	NJ2	83.55	309 eP	48 36.50	0.5	KAS	149.76	313 ePKP	56 00.00	7.1X
		iS	43 23.60		Z	18s	0.50um		4.9Msz	BHL	150.78	297 PKP	56 01.00	6.3X
MNG	18.33	202 eP	40 17.40	-7.2X	MDJ	84.38	324 Pd	48 41.50	1.6	HRI	150.84	296 ePKP	56 02.00	7.2X
		eS	43 44.20		Z	22s	2.40um		5.5Msz	WIT	150.95	357 ePKP	56 02.00	7.8X
KHZ	20.60	203 eP	40 47.20	-2.2	DL2	85.52	316 P	48 45.00	-0.7	KRA	151.04	339 ePKP	56 00.30	5.8X
TBI	24.11	94 iP	41 24.20	-0.1	Z	22s	0.90um		5.1Msz			e	56 09.00	
	1.0s	40.00nm		4.9mb	SNY	86.03	319 eP	48 48.60	0.4	BBTK	151.11	310 iPKPc	56 02.00	6.9X
HNR	27.23	298 eP	41 50.00	-3.5X	Z	23s	1.90um		5.4Msz X	CFR	151.13	324 ePKP	56 03.00	8.3X
SVO	27.50	298 eP	42 05.00	9.1X	WHN	86.04	306 Pc	48 50.00	1.5	AYN	151.13	287 ePKP	56 02.50	7.3X
COO	29.48	250 eP	42 14.00	0.2		5.0s	700.00nm		6.1mb X	JVI	151.39	293 ePKP	56 03.00	7.4X
RMQ	32.17	258 eP	42 37.50	0.1	Z	20s	1.30um		5.3Msz	KSP	151.41	344 iPKPc	56 02.00	7.0X
CAN	32.57	241 eP	42 41.20	0.3	CN2	86.14	322 Pc	48 49.00	0.2		0.8s	40.00nm		
		e	46 46.00		Z	20s	2.20um		5.6Msz	VRI	151.43	326 ePKPd	56 01.50	6.3X
BWA	32.89	243 eP	42 42.10	-1.5	N	17s	1.20um					e	22 35.00	
		e	46 47.00		E	17s	0.60um			SPC	151.68	338 ePKP	56 02.90	7.2X
CMS	34.74	249 eP	43 00.00	0.4	SVW	86.15	10 eP	48 48.00	-0.5	CLL	151.69	348 iPKP	56 01.90	6.5X
CTA	35.35	268 iPc+	43 02.20	-2.7X	TIA	87.00	312 eP	48 53.60	0.5		1.1s	41.00nm		
	0.8s	61.94nm		5.6mb		8.0s	800.00nm		6.0mb X	WTS	151.76	357 iPKPc	56 02.50	7.1X
PMG	38.16	286 eP	43 27.00	-1.5	Z	20s	1.10um		5.3Msz		0.5s	32.00nm		
	0.8s	71.64nm		5.6mb	N	17s	0.80um			BRG	151.92	347 iPKP	56 03.50	7.7X
ADE	40.89	244 e(P)	43 51.00	-0.1	E	17s	1.00um				0.9s	38.00nm		
OIS	41.33	265 iPd	43 54.80	0.1	PMR	87.74	12 eP	48 56.40	0.3	MLR	152.09	326 ePKP	56 03.50	7.1X
		eS	47 58.00			1.5s	314.19nm		6.3mb	RMN	152.19	291 ePKP	56 04.00	7.1X
ASPA	45.87	259 eP	44 29.80	-1.7	TTA	87.83	9 eP	48 56.50	-0.1	CSS	152.39	300 ePKP	56 04.00	7.0X
	0.8s	36.00nm		5.3mb	ALO	87.87	50 eP	48 57.30	-0.3	MOX	152.57	350 ePKP	56 05.00	8.3X
Z	21s	7.10um		5.6Msz		1.7s	34.62nm		5.3mb	PRU	152.62	345 ePKP	56 04.50	7.7X
		iPcS	50 02.20		Z	18s	4.30um		5.9Msz		e	56 14.40		
		iS	51 11.30		PV09	87.91	46 eP	48 58.00	0.2		ePP	00 09.00		
WB5	46.26	265 eP	44 32.80	-1.8	PNT	88.24	33 eP	49 00.00	1.2	CMP	152.70	327 ePKPc	56 09.00	11.9X
		eS	48 38.00			0.9s	19.00nm		5.3mb	ENN	153.03	358 iPKPd	56 06.50	9.2X
WRA	46.27	265 P	44 32.00	-2.6	BJI	89.66	315 eP	49 06.00	0.3	MEM	153.18	357 PKP	56 07.60	10.1X
	0.9s	40.30nm		5.4mb		2.0s	110.00nm		5.8mb	SNF	153.32	360 ePKP	56 18.50	20.8X
FORR	49.93	249 eP	45 01.00	-1.9	Z	22s	1.23um		5.3Msz	SRO	153.52	338 e(PKP)	56 13.50	15.4X
	0.5s	43.00nm		5.7mb			eS	59 36.00		ZST	153.58	340 ePKP	56 13.20	15.0X
MTN	51.31	272 eP	45 12.00	-1.6	GYA	90.05	299 P	49 10.80	2.8X	KHC	153.65	346 ePKP	56 07.00	8.7X
SBA	54.76	184 iPd	45 43.30	4.9X	Z	30s	1.50um		5.2Msz X		i	56 19.60		
		S	53 32.00				S	59 46.00		DOU	153.73	359 PKPc	56 08.30	10.0X
KLB	58.59	246 eP	46 05.30	-0.9	NNT	90.06	284 eP	49 10.80	2.8X		0.8s	8.30nm		
MBL	59.11	259 eP	46 05.00	-5.0X	Tiy	90.99	311 Pd	49 13.50	1.5		e	56 25.00		
MUN	59.82	246 eP	46 15.20	0.5		Z	24s	1.40um		VKA	153.75	342 ePKP	56 12.00	13.6X
BAG	73.88	296 eP	47 40.00	-4.0X	E	22s	1.20um		5.3Msz X	KHL	154.04	310 ePKP	56 07.00	7.7X
MAT	74.06	323 (P)	47 43.00	-1.4	FBA	91.01	12 eP	49 10.40	-1.0	FLN	154.79	7 ePKP	56 11.40	11.6X
	1.0s	5.00nm		4.4mb X	IMA	91.14	9 eP	49 12.20	0.1	GRR	155.11	8 ePKP	56 12.30	12.1X
PRS	78.81	42 ePc	48 11.10	0.0		1.2s	28.03nm		5.5mb		0.6s	4.50nm		
BCH	78.87	44 eP	48 11.60	0.0	XAN	91.75	307 P	49 16.50	1.0	LPF	155.44	9 ePKP	56 13.00	12.4X
PRI	79.12	43 ePc	48 14.20	1.3	BDT	92.59	288 eP	49 22.80	3.2X		0.6s	5.40nm		
MAW	79.18	199 iPc	48 15.40	2.8		0.7s	25.80nm		5.8mb	HAU	155.77	357 ePKP	56 12.00	10.8X
	1.0s	26.00nm		5.1mb	KMI	92.66	296 P+	49 21.00	0.9	BSF	155.91	356 ePKP	56 12.20	10.7X
LLA	79.25	42 e(P)	48 14.00	0.5	HHC	93.11	314 eP	49 22.00	0.3	SQTA	155.95	348 e(PKP)	56 13.00	11.4X
BRK	79.28	40 eP	48 11.40	-2.2		Z	24s	2.80um			0.7s	5.20nm		
BKS	79.30	40 e(P)	48 11.00	-2.7X		E	25s	4.20um		BCAO	156.33	218 iPKPd	56 06.00	3.0X
	Z	20s	3.30um	5.7Msz	CHG	93.28	289 ePc	49 24.70	1.9		1.5s	25.00nm		
	N	20s	2.20um				S	00 06.00			i	56 34.50		
	E	20s	1.90um		SES	93.31	35 eP	49 22.00	-0.3	VAY	156.74	323 ePKP	56 19.00	16.4X
		e(S)	58 16.00		MEQ	93.47	54 iPd	49 23.70	0.3		i	56 32.30		
		eScS	59 09.00		BTO	94.02	313 eP	49 27.00	1.1	SKO	156.88	326 ePKP	55 54.50	-8.3X
		eSS	03 04.00			N	20s	1.30um		KIC	160.65	152 PKP	56 09.20	1.4
		eLO	08 26.00			E	20s	1.40um		LKO	163.02	145 PKP	56 11.22	1.0
		eLR	12 00.00								0.9s	12.00nm		
MHC	79.30	41 ePc	48 13.90	0.0	CD2	94.28	302 eP	49 27.00	-0.3		S.D. = 1.1 on 81 of 139 abs.			
ARN	79.37	41 eP	48 14.40	0.2	Z	18s	2.09um		5.6Msz					
BAR	79.55	47 eP	48 16.00	0.7										
MWC	79.57	45 eP	48 15.00	-0.5	LZH	96.38	307 eP	49 36.50	-0.4					
					YKA	98.63	24 eP	49 45.70	-0.4					
						0.8s	1.20nm		4.5mb X					

* NOV 25, 1990 04h 02m 43.87± 0.36s
 23.890 S ±10.9km 175.779 W ± 9.2km
 DEPTH = 33.0km (normal)
 5.4mb (16 abs.) 5.6Msz (8 abs.)

TONGA ISLANDS REGION (174)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 04:02:53.1 1.5
 Lat 23.36S 0.16 Lon 175.39W 0.08
 Dep 192.0 3.2 Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.60 0.12 Mtt=0.12 0.19
 Mff=1.48 0.19 Mrt=-0.29 0.14
 Mrf=-0.55 0.15 Mtf=0.41 0.17
 Principal Axes:
 T Vol= 1.71 Plg=10 Azm=106
 N 0.02 4 197
 P -1.73 79 308
 Best Double Couple: Mo=1.7*10**17
 NP1:Strike=191 Dip=35 Slip=-97
 NP2: 20 56 -85

PUZ 15.03 198 eP 06 16.40 0.9
 DZM 16.47 273 iPc 06 39.00 4.8X
 MNG 18.23 202 eP 06 51.30 -4.6X
 KHZ 20.50 203 eP 07 20.30 -1.3
 RMO 32.14 258 iPd 09 12.00 1.3
 CTA 35.34 269 iPc 09 37.90 -0.5
 1.0s 38.00nm 5.3mb
 ASPA 45.84 260 iPd 11 05.20 0.3
 1.1s 17.00nm 4.9mb
 WB5 46.25 265 eP 11 06.50 -1.6
 WRA 46.26 265 P 11 06.00 -2.2
 0.9s 18.30nm 5.0mb
 WARB 51.85 255 eP 11 50.50 -0.9
 SBA 54.65 184 iPc 12 17.10 5.8X
 KLB 58.54 247 eP 12 38.00 -1.7
 SPA 66.25 180 iPc 13 34.50 3.7X
 1.0s 20.00nm 5.2mb
 Z 20s 2.93um 5.5MsZ

MAW 79.08 199 eP 14 50.00 4.0X
 BRK 79.37 40 eP 15 02.80 14.7X
 PLM 79.91 47 P 14 51.20 -0.2
 RVR 79.96 46 eP 14 57.00 5.6X
 SBB 80.09 45 eP 14 52.00 -0.1
 ISA 80.28 44 eP 14 53.00 -0.1
 FRI 80.34 42 e(P) 15 00.80 7.5X
 CMB 80.60 41 P 15 01.70 7.0X
 CMB 80.60 41 ePc 14 54.20 -0.5
 TPC 80.90 47 eP 14 56.00 -0.4
 CLC 80.93 44 eP 14 56.00 -0.5
 WDC 81.01 38 ePc 14 56.50 -0.3
 GSC 81.13 45 eP 14 56.00 -1.6
 TNP 82.56 43 P 15 05.40 0.2
 1.4s 12.50nm 4.8mb

CN2 86.22 322 Pd 15 23.80 0.6
 PMR 87.85 12 eP 15 29.30 -1.3
 1.4s 37.50nm 5.5mb
 Z 20s 1.50um 5.4MsZ
 TTA 87.94 9 P 15 31.00 -0.2
 1.2s 15.15nm 5.2mb
 ALO 87.94 50 eP 15 31.80 -0.2
 1.8s 34.09nm 5.3mb
 Z 18s 1.55um 5.5MsZ
 ANMO 87.94 50 P 15 32.40 0.4
 2.0s 191.18nm 6.0mb
 Z 19s 4.17um 5.9MsZ
 PNT 88.34 33 eP 15 33.00 -0.3
 0.7s 5.00nm 4.9mb

BJI 89.73 315 eP 15 40.00 -0.1
 1.8s 66.00nm 5.6mb
 TIY 91.06 311 Pd 15 47.00 0.6
 1.0s 30.00nm 5.6mb
 GOL 91.11 47 P 15 50.40 3.6X
 Z 20s 2.00um 5.6MsZ
 FBA 91.11 12 eP 15 44.60 -1.3
 1.3s 25.94nm 5.4mb

IMA 91.24 9 eP 15 54.70 8.0X
 1.8s 200.81nm 6.2mb
 XAN 91.81 307 P 15 50.50 0.6
 BDT 92.62 288 eP 15 57.00 3.2X
 KMI 92.70 296 P 15 56.00 1.6
 2.0s 60.00nm 5.7mb
 HHC 93.18 314 eP 15 57.00 0.9
 CHG 93.31 289 eP 15 59.10 2.1
 0.9s 15.13nm 5.4mb
 SES 93.41 35 eP 15 56.00 -0.8
 MEO 93.54 54 iPd 15 57.80 0.0

BTO 94.09 313 eP 16 00.80 0.5
 RSSD 94.18 43 P 16 03.30 2.5
 YKA 98.73 24 eP 16 19.60 -1.1
 0.8s 0.60nm 4.2mb X
 GKN 108.83 293 Pdiff 17 00.00 -7.0X
 RSNY 114.15 50 PKP 21 40.00 18.5X
 Z 20s 2.82um 5.9MsZ
 SOB1 125.01 121 ePKP 21 44.00 0.8
 NB2 142.56 354 PKP 22 09.80 -4.9X
 0.7s 1.60nm
 HFS 143.18 352 ePKP 22 10.50 -5.2X
 0.3s 0.80nm
 LWJ 144.70 226 iPKP+ 22 21.00 1.0
 EKA 148.12 8 PKP 22 32.00 7.9X
 2.3s 171.90nm
 KAS 149.82 312 ePKP 22 33.00 5.7X
 KRA 151.14 339 ePKPc 22 34.90 6.1X
 MML 151.29 294 ePKP 22 37.00 7.3X
 SPC 151.78 337 ePKP 22 37.30 7.2X
 CLL 151.80 348 iPKPd 22 36.90 7.1X
 1.8s 69.00nm

WTS 151.87 357 ePKP 22 31.50 1.7
 0.6s 8.00nm
 PRN1 151.92 290 ePKP 22 38.00 7.3X
 BRG 152.03 347 iPKPc 22 37.00 6.9X
 1.2s 32.00nm
 MBH 152.07 289 ePKP 22 38.00 7.2X
 MLR 152.17 326 ePKPc 22 37.00 6.3X
 MOX 152.68 350 ePKP 22 39.00 7.9X
 1.7s 51.00nm
 PRU 152.73 345 PKP 22 38.60 7.5X
 Z 18s 2.00um 6.0MsZ
 N 18s 0.60um
 E 20s 0.90um
 ENN 153.14 358 e(PKP) 22 41.00 9.3X
 MEM 153.29 357 PKP 22 42.30 10.4X
 SRO 153.62 338 ePKP 22 40.30 7.8X
 e 22 50.70

ZST 153.68 340 e(PKP) 22 42.30 9.8X
 KHC 153.75 346 PKP 22 33.70 1.0
 Z 20s 1.00um 5.6MsZ
 N 19s 0.50um
 E 19s 0.50um
 DOU 153.84 359 PKP 22 42.20 9.5X
 S.D. = 1.1 on 40 of 73 obs.

NOV 25, 1990 04h 19m 55.20±0.18s
 31.010 S ± 4.7km 178.992 W ± 5.0km
 DEPTH = 33.0km (normal)
 5.6mb (22 obs.)
 KERMADEC ISLANDS REGION (177)
 Felt on Raoul Island.

RAO 1.98 28 P 20 37.50 10.4X
 S 21 03.50
 HBZ 6.94 198 eP 21 40.60 3.4X
 0.1s 75.00nm 6.6mb X
 PUZ 7.40 197 P 21 46.10 2.4
 S 23 04.70
 NOZ 7.97 197 eP 21 53.90 2.3
 TAZ 8.10 206 eP 22 00.00 6.6X
 WLZ 8.15 212 P 22 01.00 6.9X
 eS 23 37.30
 WHH 8.68 204 eP 22 03.80 2.2
 NGZ 9.27 207 eP 22 11.20 1.4
 PGZ 10.33 201 P 22 22.90 -1.2
 MNG 10.58 204 P 22 25.70 -1.9
 KIW 11.00 205 P 22 30.90 -2.4
 MTW 11.06 202 eP 22 31.20 -2.9X
 CAW 11.16 204 eP 22 32.80 -2.7X
 WDW 11.33 204 eP 22 34.50 -3.2X
 MRW 11.40 205 eP 22 35.90 -2.8X
 S 24 38.50

WEL 11.42 204 P 22 40.00 1.0
 S 24 40.00
 TCW 11.54 206 eP 22 36.60 -4.0X
 eS 24 41.80
 THZ 12.55 209 eP 22 52.20 -2.1
 eS 25 08.60
 KHZ 12.86 206 eP 22 54.30 -3.9X
 0.5s 77.00nm 6.0mb
 S 25 11.70

MQZ 14.30 205 eP 23 12.10 -5.1X
 eS 25 44.10
 DZM 15.77 301 iPd 23 45.20 8.7X
 COO 24.99 263 iPd 25 22.10 4.7X

1.0s 143.00nm 5.5mb
 i 28 52.00
 CNB 26.77 252 eP 25 38.00 4.0X
 i 28 56.80
 CAN 27.07 252 iPd 25 40.20 3.5X
 e 28 55.30
 TBI 27.30 B1 iP 25 40.40 1.6
 0.7s 30.00nm 5.1mb
 BWA 27.57 254 iPd 25 42.20 1.0
 e 28 56.90
 RMO 28.58 271 iPd 25 54.00 3.6X
 0.9s 137.00nm 5.7mb
 HNR 29.07 313 eP 25 55.00 0.2
 TOO 29.94 248 iPc 26 05.70 3.2X
 e 29 04.00
 CMS 30.00 260 iPd 26 06.30 3.2X
 VAH 32.69 68 iP 26 27.00 0.3
 0.8s 30.00nm 5.2mb
 CTA 33.06 281 iPd 26 32.30 2.3
 1.0s 210.00nm 6.0mb
 iS 31 45.20
 iScP 32 44.00

ADE 35.51 252 iPd 26 53.00 2.0
 1.0s 50.00nm 5.4mb
 PMG 38.11 297 eP 27 15.00 2.0
 1.1s 151.90nm 5.8mb
 OIS 38.51 276 iPd 27 18.10 1.7
 RKT 39.77 90 iP 27 28.50 1.7
 0.8s 20.00nm 4.9mb
 ASPA 42.23 268 iPd 27 48.10 1.1
 0.9s 282.70nm 6.0mb
 iPcS 33 18.80
 iS 34 01.30
 iScS 37 32.00

WRA 43.27 273 P 27 56.00 0.5
 0.8s 403.30nm 6.2mb
 WB5 43.27 273 iPd 27 56.80 1.2
 FORR 45.02 256 iPd 28 10.30 0.8
 0.5s 214.00nm 6.3mb
 SBA 47.37 184 iPd 28 31.20 3.7X
 WARB 47.59 262 iPc 28 19.60 -10.3X
 MTN 49.24 280 eP 28 43.00 0.3
 0.4s 15.00nm 5.4mb

KNA 49.87 275 eP 28 48.40 0.8
 COOL 50.77 254 eP 28 54.00 -0.3
 KLB 53.34 252 eP 29 12.00 -1.6
 NWA0 53.38 250 eP 29 13.10 -0.8
 MEKA 54.29 258 eP 29 19.00 -1.6
 MUN 54.49 251 eP 29 21.10 -0.9
 MBL 55.22 265 eP 29 21.40 -6.1X
 0.4s 24.00nm 5.6mb

TRT 67.55 275 ePc 30 50.00 -0.8
 MAW 71.44 201 iP 31 12.90 -0.9
 1.0s 39.00nm 5.4mb
 AIA 71.71 156 eP 31 16.30 0.9
 KAKJ 77.06 327 P 31 45.70 -0.9
 CHJJ 77.49 326 P 31 47.80 -1.2
 IIDJ 77.56 325 P 31 48.40 -1.0
 MAT 78.26 326 eP 31 51.00 -2.2X
 1.3s 42.31nm 5.3mb

NIJJ 78.45 327 P 31 55.20 1.0
 MTMJ 78.49 326 P 31 53.50 -1.1
 TSRJ 78.56 324 P 31 54.70 -0.2
 SYP 85.66 45 eP 32 30.00 -2.0
 NJ2 86.00 311 P 32 33.40 -0.1
 BCH 86.04 45 eP 32 34.50 0.7
 PRS 86.05 43 ePc 32 34.70 1.0
 SAO 86.30 43 e(P) 32 34.80 -0.1
 ABL 86.34 45 eP 32 36.00 0.6
 PRI 86.34 44 ePc 32 36.50 1.2
 BAR 86.51 48 eP 32 37.00 0.9
 PAS 86.52 47 eP 32 37.00 1.0
 MHC 86.59 42 ePc 32 37.60 1.1
 BRK 86.60 42 ePc 32 37.20 0.9

BKS 86.61 42 e(P) 32 30.80 -5.6X
 MWC 86.64 47 eP 32 37.00 0.1
 ARN 86.65 42 e(P) 32 31.50 -5.2X
 PLM 86.82 48 eP 32 38.00 0.2
 RVR 86.91 47 eP 32 38.00 0.0
 PEC 86.98 47 eP 32 38.80 0.4
 SBB 87.09 46 eP 32 39.00 0.1
 ISA 87.33 45 eP 32 40.00 0.0
 FRI 87.48 44 ePc 32 41.20 0.6
 CMB 87.79 42 ePc 32 42.60 0.5
 TPC 87.83 48 eP 32 43.00 0.6
 CLC 87.97 46 eP 32 44.00 0.9
 WHN 88.04 308 eP 32 44.50 1.1

25d 04h

GSC	88.12	46	eP	32	45.00	1.1	SRO	158.63	327	ePKP	39	47.90	-2.1	SES	13.79	38	eP	47	40.00	5.3
WDC	88.33	39	ePc	32	45.30	0.7				i	40	25.30		GOL	14.61	86	eP	47	42.40	-3.4
MDJ	88.65	326	eP	32	46.50	0.5	ZST	158.90	329	iPKP	39	48.90	-1.4		0.7s		6.07nm			4.2mb
MIN	88.68	40	ePc	32	46.00	-0.5				i	40	26.50		ANMO	15.19	105	eP	47	52.20	-1.0
TNP	89.68	44	iPc	32	51.40	0.0				e	04	01.80			1.0s		7.50nm			3.9mb
	1.1s		17.86nm			5.3mb	VKA	159.19	330	ePKP	39	50.00	-0.6	ALQ	15.19	105	eP	47	53.00	-0.3
SNY	89.72	321	iPc	32	51.20	0.1				e	40	28.00			1.2s		3.91nm			3.6mb
	1.4s		40.00nm			5.5mb	SOP	159.53	329	e(PKP)	39	50.00	-1.0	FFC	20.81	39	iPd	48	56.70	-3.7
CN2	90.11	323	iPc	32	52.80	-0.1	KHC	159.55	336	PKP	39	50.10	-1.0		0.6s		11.00nm			4.4mb
	1.0s		100.00nm			6.0mb	ENN	159.92	351	ePKP	39	51.00	-0.3	YKA	23.01	12	eP	49	21.10	-1.2
GYA	91.12	300	P	32	58.00	-0.1				id	40	31.40			1.0s		2.60nm			3.7mb
BJI	92.76	316	eP	33	05.50	0.3	SKO	160.31	309	ePKP	39	49.50	-2.6X	NB2	72.75	21	P	55	43.80	-2.5
	1.0s		30.00nm			5.7mb	PTJ	161.13	326	ePKP	39	52.30	-0.6		0.9s		4.30nm			4.5mb
CHG	92.98	290	eP	33	07.50	0.8	SOTA	162.01	337	e(PKP)	39	52.00	-1.7	HFS	74.18	20	eP	55	52.70	-1.8
			e			36 51.10	FLN	162.23	3	ePKP	39	53.80	0.1		0.4s		0.90nm			4.2mb
CHTO	92.98	290	eP	33	07.50	0.8				0.9s		9.85nm		Z	17s		0.10um			4.2MszX
	1.3s		8.17nm			5.0mb	HAU	162.54	348	ePKP	39	53.80	-0.3				LR	26	35.00	
KMI	93.34	297	Pc	33	09.50	1.0				1.1s		12.20nm		37 obs. associated						
	2.0s		44.00nm			5.5mb	BSF	162.63	347	ePKP	39	53.80	-0.5	& NOV 25, 1990 08h 27m 41.80s						
TIY	93.64	312	eP	33	13.20	3.8X				1.1s		14.65nm		40.073 N 123.730 W						
XAN	93.80	308	P	33	10.50	0.3	LOR	163.62	353	ePKP	39	55.20	0.0	DEPTH = 5.0km (geophysicist)						
ALO	94.62	52	eP	33	14.00	-0.2				1.2s		20.85nm		NORTHERN CALIFORNIA (36)						
	1.0s		2.25nm			4.6mb X	SSF	163.86	354	ePKP	39	55.40	0.0	<BRK>. ML 2.8 (BRK).						
PNT	95.82	34	eP	33	23.00	3.9X				1.0s		12.00nm		FHC	0.75	345	eP	27	56.80	-0.1
ZOBO	98.69	115	P	33	34.00	0.4	LBF	163.88	353	ePKP	39	55.50	0.0				eS	28	07.50	
YKA	106.36	26	ePKP	38	14.50	-2.7X				1.2s		17.85nm		WDC	1.04	61	ePd	28	00.80	-1.1
	0.4s		0.50nm				AVF	164.14	354	ePKP	39	55.40	-0.3				iS	28	16.00	
GBA	108.40	275	PKP	38	23.00	0.5				1.1s		9.75nm		LTCM	1.24	83	eP	28	03.50	-1.8
	0.4s		1.10nm				SMF	164.23	353	ePKP	39	55.60	-0.2	MIN	1.65	80	eP	28	08.90	-2.8
WMO	112.93	308	ePKP	38	29.10	-1.3	MFF	164.40	3	ePKP	39	56.20	0.3	ORV	1.79	106	eP	28	11.80	-1.8
MBC	113.19	13	ePKP	38	27.50	-2.3X				1.0s		20.00nm		LBFM	1.89	47	eP	28	13.30	-1.9
	0.6s		4.00nm				TCF	164.72	357	ePKP	39	56.40	0.1	6 obs. associated						
KSH	119.79	301	ePKP	38	43.00	-0.7				0.9s		7.35nm		& NOV 25, 1990 08h 28m 27.96s						
SOB1	123.33	128	ePKP	38	49.90	-1.1	LSF	164.78	359	ePKP	39	56.10	-0.2				61.429 N 149.879 W			
KRI	125.06	214	iPKPc	38	40.30	-14.2X				1.1s		11.00nm		DEPTH = 31.5km						
FRB	126.34	31	ePKP	38	53.00	-2.4X	RJF	165.72	359	ePKP	39	57.40	0.3	SOUTHERN ALASKA (2)						
SCH	127.29	42	ePKP	38	55.00	-2.5X				1.2s		17.85nm		<AGS-P>. ML 3.5 (PMR).						
KEV	138.52	347	ePKP	39	13.00	-5.3X	CAF	166.08	357	ePKP	39	57.70	0.2	PWA	0.22	0	iP	28	34.59	0.0
KTK1	139.87	348	ePKP	39	11.94	-8.8X	LPO	166.35	359	ePKP	39	58.40	0.8				eS	28	40.65	
NSS	145.76	352	ePKP	39	29.22	-1.9				1.3s		43.30nm		PMS	0.24	140	iP	28	35.15	0.3
NUR	146.58	339	iPKP	39	32.00	-0.5	S.D. = 1.1 on 119 of 165 obs.						PLRM	0.39	65	iP	28	36.04	-0.8	
	0.8s		536.90nm				& NOV 25, 1990 07h 44m 18.50s									iS	28	43.25		
RGS	147.41	352	ePKP	39	34.00	0.2				40.283 N 124.410 W			PMR	0.39	65	iPd	28	36.00	-0.9	
MOL	148.15	354	ePKP	39	36.54	1.6				DEPTH = 24.0km			SUA	0.42	275	iP	28	36.89	-0.5	
BCAO	148.84	215	iPKPd	39	37.10	-0.5				4.2mb (8 obs.)						eS	28	44.43		
	0.7s		60.00nm				NEAR COAST OF NORTHERN CALIF. (35)						GHO	0.57	53	iP	28	38.53	-1.2	
			i	39	40.70		<BRK>. ML 4.0 (BRK). Felt (V) at									iS	28	47.61		
NB2	149.22	350	PKP	39	34.70	-2.1	Phillipsville; (IV) at Ferndole,						KNK	0.68	91	iP	28	40.42	-0.9	
HFS	149.66	347	ePKP	39	36.50	-0.9	Garderville, Honeydew, Miranda									eS	28	50.46		
	0.9s		109.20nm				and Myers Flot; (III) at						SML	0.83	62	eP	28	42.30	-1.1	
KVT	150.11	299	iPKP	39	42.80	4.0X	Hydesville and Rio Dell.						SLKM	0.94	190	iP	28	43.68	-1.3	
HRI	150.58	284	ePKP	39	44.50	4.7X	FHC	0.61	32	iPd	44	29.60	-0.9				eS	28	57.13	
AKSR	150.70	263	ePKP	39	48.00	7.9X				i(S)	44	39.00		NKA	0.95	224	eP	28	45.83	0.7
BHL	150.71	285	PKP	39	43.00	3.0X	WDC	1.46	78	iPc	44	41.20	-2.3	SKT	0.96	306	iP	28	44.12	-1.2
AGAL	150.79	263	ePKP	39	48.00	7.8X	LTCM	1.75	92	eP	44	46.20	-1.5				eS	28	56.96	
PRNI	150.82	278	ePKP	39	45.00	4.8X	MIN	2.15	87	ePc	44	51.00	-2.6	CUT	1.00	349	iP	28	44.55	-1.2
AKRL	150.97	263	ePKP	39	48.00	7.5X	NWRM	2.17	147	eP	44	51.00	-2.8	COLM	1.03	264	iP	28	45.53	-0.8
AGMR	151.07	263	ePKP	39	50.00	9.4X	LBFM	2.19	60	iPc	44	53.00	-1.3				eS	28	59.27	
RMN	151.16	278	ePKP	39	46.00	5.3X	ORV	2.35	107	eP	44	53.00	-3.4	SPU	1.08	258	iP	28	45.96	-1.0
KAS	151.76	301	ePKP	39	46.50	5.2X				i	44	54.90					eS	29	00.45	
BBTK	152.78	298	iPKPc	39	42.00	-0.9	ZSP	2.87	144	eP	45	01.50	-2.2	NCG	1.10	270	iP	28	46.56	-0.7
			e	39	50.00		BRK	2.93	145	ePd	45	01.70	-2.8				eS	29	01.40	
LIC	154.70	166	PKP	39	45.66	-0.4	BKS	2.94	144	ePd	45	02.00	-2.7	CRP	1.11	263	iP	28	46.86	-0.7
KIC	154.89	166	PKP	39	45.96	-0.3	PCC	3.20	150	ePd	45	04.70	-3.7	CKL	1.21	260	iP	28	48.10	-0.8
TIC	155.11	166	PKP	39	46.28	-0.3	MHC	3.65	143	ePd	45	12.00	-2.9	BGL	1.22	263	iP	28	48.28	-0.8
KRA	156.27	329	ePKP	39	46.10	-1.0	ARN	3.69	142	eP	45	12.90	-2.6				eS	29	05.80	
			e	39	56.70		GCC	3.76	149	ePc	45	12.50	-3.8	SCM	1.28	70	iP	28	49.15	-0.8
CMP	156.45	314	ePKPc	40	08.00	20.4X	CMB	3.85	124	ePd	45	15.50	-2.2				eS	29	05.95	
SPC	156.74	327	ePKP	39	45.80	-2.2	SAO	4.21	146	ePd	45	18.60	-4.2	SEW	1.35	171	eP	28	49.59	-1.1
			e	40	16.50		LLA	4.56	142	iPc	45	24.60</								

NOV 25, 1990 12h 32m 45.19 \pm 0.19s
2.692 S \pm 3.7km 77.773 W \pm 3.5km
DEPTH = 25.4km (27 depth phases)
5.6mb (64 obs.) 4.9Msz (9 obs.)
PERU-ECUADOR BORDER REGION (110)
Felt (V) in the Ecuador-Peru
border region.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 12:32:53.7 0.5
Lat 2.70S FIX; Lon 77.79W FIX
Dep 25.0 FIX Half-duration 1.6
Moment Tensor; Scale 10 \ast 17 Nm
Mrr= 1.11 0.09 Mtt= 0.11 0.06
Mff=-1.23 0.13 Mrt=-0.03 0.11
Mrf=-0.46 0.19 Mtf=-0.38 0.07
Principal Axes:
T Vol= 1.20 Plg=79 Azm= 80
N 0.21 5 193
P -1.41 10 284
Best Double Couple: Mo=1.3 \ast 10 \ast 17
NP1: Strike= 20 Dip=35 Slip= 90

25d 12h	NP2:		190	55	84	FVM	42.13 345 P	40 35.10 -2.1	PAE	71.85 252 iP	44 17.40 9.0X
							pP	40 42.90 26km		0.9s 50.00nm	5.6mb
TUNG	1.43 332	iP	33 11.40	1.4	ALO	46.11 327 iPc	41 10.00 0.5	AFR	72.04 253 iP	44 18.40 8.9X	
		eS	33 21.30			1.0s 82.50nm	5.6mb		0.9s 55.00nm	5.6mb	
RECU	2.19 339	iPd	33 24.00	2.9X		epP	41 18.00 27km	LKO	72.92 79 P	44 13.82 -1.0	
		eS	33 35.00		ANMO	46.11 327 P	41 09.90 0.4		0.7s 28.00nm	5.4mb	
OTO	2.59 343	eP	33 30.20	3.5X	GLD	49.18 332 P	41 33.20 -0.2	LIC	73.17 83 P	44 15.44 -0.9	
		iS	34 07.00			1.4s 87.84nm	5.6mb		0.9s 46.50nm	5.5mb	
OUR	2.61 343	P+	33 30.80	3.7X	GOL	49.21 332 P	41 33.00 -0.7	Z	20s 0.52um	4.8Msz	
GGP	2.63 342	Pnd	33 31.10	3.6X		0.6s 23.77nm	5.4mb	TIC	73.21 82 P	44 15.74 -0.8	
BOG	8.16 27	eP	34 48.00	2.7	PV09	50.18 328 eP	41 42.50 1.2		0.7s 37.50nm	5.5mb	
		iS	37 08.00		BAR	50.91 317 eP	41 47.00 0.4	KIC	73.46 83 Pc	44 17.38 -0.6	
NNA	9.28 174	iPc	34 58.50	-2.1	TPC	51.34 319 eP	41 50.00 0.1		0.7s 62.50nm	5.7mb	
	0.8s 141.79nm		6.3mb		PLM	51.43 318 eP	41 52.00 1.3	IFR	77.10 55 iPd	44 39.50 0.8	
		iS	36 41.50		PEC	51.95 318 P	41 55.00 0.5	LEGH	77.93 84 eP	44 43.00 -0.4	
BMG	10.77 26	eP	35 21.00	-0.1		1.0s 15.25nm	4.9mb	SHGH	78.09 83 eP	44 43.50 -0.7	
UPA	11.73 351	iPd+	35 37.00	3.0X	RVR	52.16 318 eP	41 56.00 0.0	ECOG	79.12 51 eP	44 50.30 0.7	
	1.2s 203.13nm		6.2mb		RSSD	52.21 336 P	41 56.80 0.3	AFC	79.13 51 eP	44 50.90 1.1	
Z	19s 9.31um		5.1MszX			pP	42 04.50 26km	TOL	79.30 49 iPd	44 51.00 0.6	
SDV	13.53 32	eP	35 58.90	0.7	GSC	52.57 320 eP	41 59.00 -0.1		1.4s 232.56nm	6.0mb	
TOV	14.73 33	eP	36 13.50	-0.3	DAU	52.70 328 iP	42 00.00 -0.3	GUD	79.39 48 eP	44 51.00 0.0	
MORO	16.44 35	eP	36 40.00	4.0X		1.5s 13.80nm	4.7mb	AKU	80.42 21 iP	45 04.80 9.0X	
ZOBO	16.50 145	eP	36 34.00	-3.2X		i	42 09.00 30km		0.9s 23.53nm	5.2mb	
Z	22s 3.61um				MWC	52.75 318 eP	42 01.00 0.3	INK	80.46 342 eP	44 55.00 -1.0	
		i	36 39.00		PAS	52.78 318 eP	42 01.00 0.3		1.2s 178.00nm	6.0mb	
		S	39 48.00		SBB	52.87 318 eP	42 01.00 -0.4	MBC	82.33 351 ePc	45 05.60 0.0	
		LR	43 10.00		DUG	53.38 327 P	42 05.30 0.2		0.9s 45.00nm	5.5mb	
OLLA	16.70 41	iPd	36 41.00	1.7		1.5s 111.11nm	5.6mb	TOA	82.43 334 eP	45 07.10 0.6	
		iS	41 40.00		CLC	53.39 320 eP	42 05.00 -0.2	LPF	83.15 41 eP	45 09.70 -0.7	
LPB	16.72 146	P	36 43.00	3.1X	ISA	53.87 319 eP	42 09.00 0.3		0.9s 42.60nm	5.6mb	
	1.3s 596.15nm		5.6mb		ABL	53.90 318 P	42 09.70 0.6	EPF	83.16 46 eP	45 10.40 -0.3	
Z	18s 5.50um		4.1Msz		TNP	54.54 322 P	42 13.80 0.0	GRR	83.34 41 eP	45 10.70 -0.7	
		i	36 45.10			1.4s 48.96nm	5.3mb		1.1s 73.25nm	5.8mb	
		S	39 58.00		PTI	55.05 329 P	42 16.60 -0.8	MFF	83.47 43 eP	45 11.60 -0.5	
CAR	16.98 39	eP	36 43.00	0.1	PHAM	55.25 318 P	42 18.90 0.1		1.3s 133.60nm	6.0mb	
		eS	41 42.00		FRI	55.46 319 eP	42 19.30 -0.9	EKA	83.50 34 Pc	45 12.50 0.4	
CNCB	17.01 146	P	36 45.00	1.3	PR1	55.60 318 eP	42 20.50 -0.9		1.3s 108.50nm	5.9mb	
		i	36 48.00		KVN	55.69 322 P	42 22.60 0.5	PMR	83.58 333 eP	45 12.00 -0.3	
LLAV	17.04 40	iP	36 44.00	0.5	LLA	56.05 318 eP	42 23.80 -0.7		1.9s 852.78nm	6.6mb	
		iS	41 43.00		PRS	56.18 318 eP	42 25.50 0.1	FLN	83.66 41 eP	45 12.50 -0.5	
GUAN	17.43 44	eP	36 49.00	0.5	SAO	56.47 318 eP	42 27.50 0.0		1.1s 114.75nm	6.0mb	
		eS	41 52.00		CMB	56.50 320 eP	42 27.20 -0.6	Z	21s 0.38um	4.7Msz	
CCH	18.53 143	P	37 03.00	0.6	ARN	56.85 319 P	42 29.80 -0.5	LFF	83.77 44 eP	45 13.10 -0.6	
CUM	18.82 46	iP	37 08.00	2.4	MHC	56.92 319 eP	42 31.60 0.7		0.6s 34.25nm	5.7mb	
TPP	20.76 51	eP	37 28.43	1.5	GCC	56.98 318 eP	42 31.50 0.4	LDF	83.86 41 eP	45 13.40 -0.6	
TRN	21.00 51	eP	37 27.55	-1.8	LRM	57.24 332 eP	42 32.40 -0.8		1.1s 122.10nm	6.0mb	
SIV	21.09 130	iPc	37 29.60	-0.7		e	42 40.40 26km	LPO	84.04 45 eP	45 14.40 -0.7	
TPX	22.62 321 (P)		37 49.00	3.5X	BKS	57.61 319 e(P)	42 35.00 -0.6		0.7s 3.60nm	4.7mb	
BBL	24.24 41	eP	37 58.70	-2.6X		Z 20s 1.60um	5.1Msz	FBA	84.07 336 eP	45 14.20 -0.6	
OXX	27.13 317 (P)		38 31.00	2.4		N 20s 0.70um		RJF	84.38 44 eP	45 16.00 -0.7	
IISM	28.91 319 (P)		38 47.00	2.5		E 20s 1.10um			1.1s 75.70nm	5.8mb	
IIT	29.56 318 (P)		38 53.00	2.4		eLR	42 05.00		Z 21s 0.52um	4.9Msz	
PPM	29.80 317 (P)		38 56.00	2.9X	BRK	57.63 319 eP	42 34.80 -0.8	LSF	84.54 43 eP	45 16.60 -0.9	
III	29.91 315 (P)		38 56.00	2.2	SCH	58.03 7 eP	42 37.00 -1.2		1.1s 70.80nm	5.8mb	
PEL	31.01 168	ePd	39 04.00	0.9	ORV	58.10 321 eP	42 39.20 0.3	CAF	84.70 45 eP	45 17.80 -0.6	
MDZ	31.18 165 i(P)		39 05.90	1.3	MIN	58.62 322 eP	42 39.90 -2.9X	ETER	84.87 47 eP	45 00.00 -19.2X	
FCH	31.27 168	eP	39 07.50	1.8	RKT	58.91 245 iP	42 45.70 0.8	TCF	85.02 43 eP	45 19.10 -0.8	
BAO	32.03 116	eP	39 11.80	-0.5		0.8s 30.00nm	5.5mb		0.9s 38.50nm	5.6mb	
PPD	32.10 129	eP	39 08.30	-4.5X	WDC	59.34 321 eP	42 45.20 -2.4	MAF	85.25 43 eP	45 20.30 -0.8	
SGS	35.78 356	P	39 44.80	0.5	LBFM	59.39 322 P	42 48.20 0.0		1.2s 90.75nm	5.9mb	
VAO	36.03 127	eP	39 45.20	-1.5	SES	60.09 336 ePc	42 51.50 -1.1	BGF	85.49 43 eP	45 21.50 -0.8	
		e	39 53.70	29km		1.2s 114.00nm	5.9mb	AVF	85.87 43 eP	45 23.20 -0.9	
PRM	36.83 354	P	39 52.70	-0.5		pP	43 00.00 28km		1.1s 42.75nm	5.6mb	
JSC	36.92 355	P	39 53.50	-0.4	FFC	60.63 344 ePc	42 54.50 -1.6	SSF	86.01 43 eP	45 23.80 -1.0	
LHS	37.08 356	P	39 54.60	-0.6		1.5s 70.00nm	5.6mb		1.1s 41.50nm	5.6mb	
		pP	40 02.90	28km	NEW	61.22 331 P	43 00.40 0.1	SMF	86.18 43 eP	45 25.00 -0.7	
SOB1	37.22 102	iPc	39 56.70	-0.1		1.3s 89.62nm	5.7mb		1.3s 68.60nm	5.7mb	
BMA	38.18 124	eP	40 00.80	-3.9X	PNT	63.15 331 ePc	43 13.00 -0.2	LOR	86.28 42 eP	45 25.00 -1.2	
		e	40 04.80	14kmX		0.9s 116.00nm	6.0mb		1.2s 43.15nm	5.6mb	
JFO	38.46 122	eP	40 06.90	-0.2		pP	43 21.00 26km	Z	22s 0.43um	4.8Msz	
		e	40 15.20	28km	EDM	63.18 337 eP	43 11.50 -1.8	LBF	86.32 43 eP	45 25.10 -1.3	
PWLA	38.70 346	P	40 06.80	-2.0	BMW	63.22 327 P	43 14.10 0.3		1.6s 65.30nm	5.6mb	
RSCP	38.78 350	P	40 09.00	-0.6	GMW	63.64 328 P	43 16.10 -0.3	IMA	86.75 337 eP	45 28.10 -0.2	
	0.8s 156.25nm		5.8mb			pP	43 23.60 24km		2.2s 2245.73nm	7.0mbX	
PDCR	39.48 106	eP	40 14.20	-1.5	MCW	64.36 329 P	43 20.50 -0.7	SNF	87.01 39 iPc	45 29.86 0.3	
		e	40 20.30	21km	FRB	66.63 4 eP	43 34.00 -1.3	UCC	87.09 39 P	45 30.90 0.9	
		e	40 25.20		RUV	69.63 255 iP	44 03.60 8.7X	DOU	87.15 40 P	45 31.00 0.7	
BLA	39.78 357	eP	40 18.50	0.7		0.9s 35.00nm	5.5mb		e	45 38.40 23km	
	1.0s 52.00nm		5.2mb		TPT	69.84 255 iP	44 05.00 8.7X	BNI	87.96 45 P	45 36.00 1.5	
UYO	39.89 338	iPd	40 18.00	-0.8		0.9s 30.00nm	5.4mb	HAU	88.04 42 eP	45 33.50 -1.2	
NAV	39.90 356	P	40 18.80	-0.1	VAH	69.87 255 iP	44 05.00 8.6X		0.7s 7.70nm	5.1mb	
OLY	40.10 343	P	40 18.80	-1.7		0.9s 30.00nm	5.4mb	Z	21s 0.35um	4.8Msz	
		pP	40 27.00	28km	PMO	70.11 255 iP	44 06.70 8.8X	LPL	88.05 44 eP	45 34.60 -0.4	
ELC	41.17 346	P	40 27.20	-2.0		0.9s 35.00nm	5.5mb		1.1s 17.10nm	5.3mb	

MEM	0.8s	78.00nm	6.1mb	45 43.00 24km	DMN	150.30	32 PKP	52 32.32	0.9	GSC	47.14	85 eP	48 22.00	0.3
		e		45 35.40 0.6	GUN	150.46	30 PKP	52 32.58	0.8	DAU	47.30	75 eP	48 23.00	-0.2
BSF	88.11	39 iPc	45 43.40 25km	45 34.80 -1.3	PKI	150.49	31 PKP	52 31.92	0.1		1.0s	2.50nm		4.0mb
		e			LSA	151.15	20 PKPc	52 35.60	2.7X	BTO	47.96	286 eP	48 28.70	0.7
CDF	88.32	42 eP	45 37.00 -0.9		HYB	152.54	56 ePKPc	52 35.00	0.3	TIY	48.31	281 eP	48 30.30	-0.4
	0.7s	5.50nm	5.0mb				e	52 42.00		PLM	48.40	87 eP	48 32.00	0.4
WIT	88.70	42 eP	45 37.00 -0.9				e	52 52.00		TPC	48.40	85 eP	48 31.00	-0.4
	0.7s	16.55nm	5.5mb		GBA	153.21	65 PKP	52 36.70	1.1	BAR	48.97	87 eP	48 35.00	-0.8
WTS	88.76	37 eP	45 40.00 2.1		KOD	154.30	72 ePKP	52 55.60	18.0X	PV09	49.78	76 eP	48 41.80	-0.5
		e	45 47.50 23km		GYA	155.99	350 PKP	52 40.00	0.7	GOL	51.26	72 eP	48 52.90	-0.6
	0.8s	107.00nm	6.2mb		KMI	157.69	359 PKPc	52 42.50	0.9		0.7s	3.94nm		4.6mb
		i	45 46.80 23km		CHG	163.66	11 ePKP	52 48.20	0.5	ANMO	53.73	78 eP	49 11.20	-0.5
BRW	89.00	342 e(P)	45 38.90 0.1				e	53 39.00			0.9s	13.13nm		5.0mb
VAI	89.50	44 P	45 41.00 -0.6		BDT	165.20	12 ePKP	52 51.00	1.9	ALQ	53.73	78 eP	49 11.10	-0.7
TNS	89.63	40 ePd	45 42.40 0.2			S.D. = 1.0	on 189 of 221 obs.				0.9s	4.20nm		4.5mb
BOB	89.90	45 P	45 52.00 8.4X			% NOV 25, 1990 12h 38m 08.17 ± 1.01s				GTA	54.74	291 P	49 18.50	-0.6
SQTA	91.26	43 iPc	45 49.60 -0.3			39.184 N ± 7.8km 27.669 E ± 9.9km				WMO	58.51	302 eP	49 45.00	-0.7
	0.9s	30.80nm	5.7mb			DEPTH = 10.0km (geophysicist)				NUR	66.33	347 eP	50 53.00	15.8X
		i	45 58.30 27km			TURKEY (366)				LSA	66.62	289 P	50 40.60	0.6
		e	46 12.50			MD 2.7 (ISK).				GUN	71.03	291 P	51 07.54	0.4
		i	46 26.20								0.5s	27.00nm		5.4mb
CTI	91.52	44 P	45 51.00 -0.1		Izm	0.85	202 ePg	38 24.10	-0.4	KKN	71.47	291 P	51 09.88	0.3
CRE	91.64	47 P	45 51.00 -0.7				iSg	38 36.10			0.5s	12.00nm		5.0mb
MOX	91.67	40 eP	45 53.00 1.4		DST	0.85	60 iPn	38 25.70	1.0	PKI	71.56	291 P	51 10.28	0.0
N82	91.84	29 P	45 52.40 0.2		EDC	1.17	7 ePn	38 29.30	-0.7		0.7s	9.00nm		4.7mb
	1.1s	11.00nm	5.2mb		BNT	1.19	9 ePn	38 29.00	-1.3	GKN	71.68	292 P	51 10.94	0.2
FVI	92.32	44 P	45 55.00 0.4		EZN	1.22	302 iPn	38 31.60	0.7	DMN	71.71	291 P	51 11.04	0.0
ARV	92.35	47 P	45 54.00 -0.9		KGT	1.30	348 iPn	38 32.90	0.7	W85	81.73	223 eP	52 07.20	0.8
WET	92.44	41 iPd	45 56.20 1.0			S.D. = 1.2	on 6 of 6 obs.			WRA	81.80	223 P	52 06.00	-0.8
	1.6s	89.00nm	5.9mb			% NOV 25, 1990 15h 22m 52.40 ± 1.04s					0.8s	2.30nm		4.1mb
CLL	92.57	39 eP	45 56.00 0.3			39.686 N ± 8.2km 28.635 E ± 10.9km					S.D. = 0.8	on 44 of 45 obs.		
	1.6s	53.00nm	5.7mb			DEPTH = 10.0km (geophysicist)					* NOV 25, 1990 16h 22m 56.96 ± 1.42s			
KHC	92.90	41 P	45 58.50 1.2			TURKEY (366)					30.862 N ± 9.4km 130.237 E ± 7.7km			
SDI	92.96	49 P	45 58.00 0.2			MD 2.2 (ISK).					DEPTH = 199.3 ± 14.2 km			
HFS	93.05	30 eP	45 57.10 -0.6								4.7mb (15 obs.)			
	1.3s	32.50nm	5.6mb		DST	0.08	184 iPg	22 54.90	0.0		KYUSHU, JAPAN (235)			
Z	21s	0.32um	4.8msz				iSg	22 57.70						
BRG	93.16	39 iPd	45 59.40 1.0		KCT	0.60	339 ePg	23 03.90	-0.7	MAT	8.73	47 eP	25 00.00	-0.5
	1.4s	42.00nm	5.7mb		BNT	0.87	321 ePg	23 09.40	0.3		0.8s	3.73nm		3.7mb
PRU	93.54	40 eP	46 00.00 -0.2		IZI	0.91	44 ePg	23 09.00	-1.0		eS		26 31.00	
	1.4s	20.00nm	5.4mb		YLV	1.05	33 iPn	23 13.40	1.2	NJ2	9.79	280 eP	25 19.50	5.1X
		e	46 09.00 28km			S.D. = 1.2	on 5 of 5 obs.			CN2	13.46	345 iPd	26 05.40	4.2X
KSP	94.65	39 iPd	46 06.70 1.4			NOV 25, 1990 15h 39m 57.19 ± 0.27s					1.0s	60.00nm		5.0mb
		i	46 14.50 24km			51.774 N ± 7.9km 179.974 W ± 3.3km				WHN	13.68	273 eP	26 04.00	0.1
SOP	94.90	43 e(P)	46 07.00 0.5			DEPTH = 93.5km (5 depth phases)				BJI	14.65	312 eP	26 17.50	1.5
ZST	95.25	42 iP	46 09.00 0.9			4.6mb (16 obs.)					1.0s	51.00nm		4.9mb
		e	46 14.50 17km			ANDREANOF ISLANDS, ALEUTIAN IS. (7)				TIY	16.21	300 eP	26 36.00	0.8
SRO	96.08	42 eP	46 12.00 0.1								1.1s	50.00nm		4.9mb
BCAO	96.49	86 iPd	46 16.00 1.5		ADK	2.04	86 iPc	40 30.30	-0.3	XAN	18.26	286 Pc	26 56.60	-1.5
	0.6s	22.00nm	5.8mb		SMY	3.76	287 eP	40 53.60	-0.5	BTO	19.04	306 eP	27 05.20	-0.9
		i	46 23.90 25km		SDN	12.11	65 e(P)	42 46.20	-1.4	GYA	21.13	264 P	27 27.00	-0.3
KRA	97.01	40 eP	46 17.30 1.3				i	42 50.30		LZH	22.59	290 Pc	27 41.30	-0.1
SOD	98.00	22 eP	46 19.00 -1.2								1.5s	42.00nm		4.8mb
NUR	98.45	29 eP	46 28.00 5.8X		SVW	16.29	46 eP	43 42.90	1.5	CD2	22.71	277 eP	27 42.00	-0.5
MAT	132.74	320 ePKP	52 00.00 -0.1		KDC	16.87	58 e(P)	43 48.20	-0.3	GTA	26.21	297 eP	28 14.00	-1.1
CN2	134.18	337 ePKP	52 02.60 0.0		TTA	16.96	40 eP	43 51.10	1.4		0.7s	10.00nm		4.7mb
KSH	136.32	30 PKP	52 08.50 1.5		PMR	19.39	48 eP	44 16.00	-1.9	CHG	30.72	254 eP	28 53.00	-2.4
WMO	137.06	15 PKP	52 07.70 -0.5		IMA	19.50	33 eP	44 19.20	0.0	GUN	38.58	277 P	30 03.64	1.1
BJI	140.73	343 ePKP	52 14.00 -0.8			1.2s	58.33nm		4.8mb		0.5s	19.00nm		5.0mb
HHC	141.09	349 ePKP	52 15.20 -0.5		FBA	21.09	39 eP	44 35.00	-0.3	PKI	39.07	277 P	30 07.44	0.9
WRA	141.27	233 PKP	52 10.00 -6.4X			0.7s	8.72nm		4.2mb	KKN	39.12	277 P	30 07.58	0.8
	0.6s	5.80nm			MAT	33.13	259 eP	46 26.00	-0.2	DMN	39.32	277 P	30 09.94	1.4
W85	141.28	233 ePKP	52 09.30 -7.2X			1.0s	12.00nm		4.7mb		0.5s	4.00nm		4.3mb
BTO	141.61	350 ePKP	52 11.10 -5.5X		MBC	33.51	22 ePd	46 30.00	1.0	GKN	39.61	278 P	30 11.28	0.5
GTA	143.39	3 ePKP	52 15.50 -4.2X			0.9s	11.00nm		4.7mb		0.6s	10.00nm		4.6mb
	8.0s	350.00nm					pP	46 51.50	93km	W85	50.61	175 eP	31 37.90	0.4
Z	18s	0.50um	5.3msz		YKA	35.49	47 eP	46 44.70	-1.3	WRA	50.67	175 P	31 38.00	0.0
		pPKP	52 25.20			0.8s	2.70nm		4.2mb		0.8s	1.30nm		3.5mb X
TIY	143.91	346 PKPd	52 18.00 -2.6		PNT	37.48	69 eP	47 04.00	1.1	GBA	51.33	263 Pc	31 43.10	0.0
	30s	0.60um	5.2mszX			0.8s	6.00nm		4.6mb		0.8s	4.20nm		4.1mb
NDI	144.85	40 iPKPc	52 21.00 -1.4		SNY	38.99	278 eP	47 15.60	0.0	ASPA	54.33	176 eP	32 05.20	0.2
SSE	146.55	330 PKPd	52 25.70 0.6		NEW	39.43	69 eP	47 19.00	-0.3		0.4s	4.70nm		4.5mb
	20s	0.50um	5.3msz				eP	47 42.00	98km	SOD	66.90	336 eP	33 29.00	-0.2
LZH	146.74	358 iPKPc	52 27.50 2.0		LBFM	40.27	81 eP	47 28.00	1.6	NUR	70.78	330 iP	33 52.00	-1.0
	25s	0.52um	5.2mszX				eP	47 50.00	93km		0.5s	9.80nm		4.8mb
NJ2	146.87	334 PKPd	52 26.00 0.4		ARN	42.91	86 eP	47 48.50	0.7	YKA	73.60	26 eP	34 10.60	1.1
		pPKP	52 33.60		CM8	43.19	84 eP	47 51.00	0.9		0.8s	0.60nm		3.4mb X
POO	148.06	58 iPKPc	52 30.50 2.6X			1.3s	13.66nm		4.6mb	HFS	75.55	332 eP	34 19.50	-1.2
XAN	148.19	349 PKPd	52 28.50 0.8		TNP	45.11	82 eP	48 06.00	0.2		0.6s	6.60nm		4.5mb
GKN	149.74	32 PKP	52 31.22 0.8			0.7s	3.44nm		4.3mb	NB2	75.95	334 P	34 21.80	-1.2
WHN	150.02	339 PKPc	52 35.50 5.0X				eP	48 28.50	94km		0.9s	7.30nm		4.4mb
		e	52 43.50		CLC	46.32	85 eP	48 15.00	-0.1	KRA	78.58	322 eP	34 38.60	1.0
KKN	150.25	31 PKP	52 31.92 0.6		DUG	46.49	77 eP	48 16.60	0.0	CLL	81.35	326 iPd	34 53.40	1.2
					SBB	46.91	86 eP	48 20.00	0.1		0.9s	19.00nm		4.8mb
					MWC	47.08	87 eP	48 22.00	0.7		S.D. = 1.1	on 27 of 29 obs.		

& NOV 25, 1990 16h 54m 39.60s
37.227 N 121.645 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK).
Mo=1.5*10**14 Nm (BRK).

MHC	0.11	1	iP	54	42.10	-0.1
ARN	0.15	36	iPc	54	42.30	-0.5
GCC	0.34	235	eP	54	46.80	0.3
SAO	0.49	161	iP	54	49.50	0.1
PCC	0.65	295	iPc	54	51.90	-0.7
BKS	0.80	324	iPc	54	55.20	-0.3
			iS	55	07.80	
BRK	0.81	323	eP	54	55.10	-0.6
			eS	55	08.20	
LLA	0.83	137	eP	54	54.70	-1.3
ZSP	0.87	326	eP	54	56.00	-0.6
			iS	55	10.80	
PRS	0.92	166	eP	54	56.70	-0.9
CMB	1.29	51	eP	55	02.50	-1.3
			iS	55	19.50	
PRI	1.34	144	eP	55	02.70	-2.1
FRI	1.57	98	eP	55	05.70	-2.3
			iS	55	25.20	
NWRM	1.57	322	eP	55	06.30	-1.8
ORV	2.33	3	eP	55	17.80	-1.2
BCH	2.40	148	eP	55	17.50	-2.6
TNP	3.62	75	e(P)	55	38.00	0.5

17 obs. associated

NOV 25, 1990 16h 57m 17.32±0.37s
10.134 N ± 5.6km 126.172 E ± 9.9km
DEPTH = 34.5km (3 depth phases)
4.8mb (12 obs.) 4.3MsZ (2 obs.)
PHILIPPINE ISLANDS REGION (248)

DAV	3.08	191	eP	58	14.40	9.6X
QCP	6.69	312	eP	59	12.00	16.1X
BAG	8.28	319	eP	59	18.30	0.1
KUPT	20.31	187	eP	01	47.50	-5.8X
SSE	21.37	348	P	02	04.00	0.1
	0.8s		8.00nm			4.2mb
Z	16s		0.40um			3.9MsZ
			pP	02	15.00	44km
NJ2	22.84	344	Pc	02	20.50	1.9
WHN	23.10	333	eP	02	22.00	0.9
			pP	02	30.50	31km
MTN	23.36	168	eP	02	24.70	1.0
	0.3s		16.00nm			5.0mb
GVA	24.57	314	eP	02	36.40	0.8
CHG	27.71	291	eP	03	04.80	0.1
CHTO	27.71	291	eP	03	04.80	0.1
	1.1s		3.24nm			3.9mb
XAN	28.57	329	P	03	11.00	-1.3
CD2	29.35	318	eP	03	17.40	-2.0
TIY	30.12	338	eP	03	25.40	-0.8
Z	20s		0.50um			4.2MsZ
WB5	30.90	165	eP	03	30.90	-2.2
BJI	31.08	345	eP	03	36.50	2.0
MBL	31.72	191	eP	03	34.00	-6.3X
	0.5s		20.00nm			5.2mb
LZH	32.83	325	eP	03	49.50	-0.6
	2.0s		36.00nm			4.9mb
Z	16s		0.34um			4.1MsZ
			pP	03	58.00	29km
			sP	04	03.00	
HHC	33.21	340	eP	03	53.30	0.0
QIS	33.24	157	iPd	03	52.20	-1.4
ASPA	34.43	167	eP	04	02.30	-1.6
	0.7s		5.70nm			4.6mb
			eS	09	40.90	
MDJ	34.48	4	eP	04	04.00	-0.1
WARB	36.10	179	eP	04	18.90	0.8
MEKA	37.27	191	iPd	04	28.80	0.9
GTA	37.44	326	iPc	04	29.00	-0.3
	6.0s		340.00nm			5.4mb X
Z	18s		0.60um			4.4MsZ
			sP	04	41.80	
LSA	38.03	306	eP	04	35.00	0.2
FORR	40.79	177	eP	04	57.00	0.0
	0.5s		71.00nm			5.7mb
BAL	41.51	192	eP	05	03.50	0.4
GUN	41.75	301	P	05	04.66	-0.9
PKI	42.05	300	P	05	07.54	-0.5
KKN	42.23	300	P	05	08.04	-1.3

KLB	42.26	191	iPd	05	10.30	1.1
	0.4s		12.00nm			5.0mb
DMN	42.32	300	P	05	10.98	0.8
GKN	42.83	300	P	05	13.10	-1.1
MUN	42.94	192	eP	05	15.40	0.6
NWAO	43.66	191	iPd	05	21.90	1.4
HYB	46.71	284	eP	05	46.00	0.8
WMO	47.27	322	P	05	49.00	-0.3
GBA	47.76	279	P	05	54.30	0.8
DZM	50.84	129	iPc	06	16.50	-0.6
KEV	83.73	340	eP	09	50.00	6.2X
SOD	84.37	337	eP	09	47.00	-0.1
INK	84.45	22	eP	09	50.00	2.6
MBC	85.86	13	eP	09	55.00	0.6
	0.9s		3.00nm			4.5mb
NUR	86.87	331	eP	09	51.00	-8.5X
HFS	92.12	332	eP	10	23.00	-1.3
	0.5s		2.50nm			4.9mb
Z	17s		0.10um			4.3MsZ
			LR	51	30.00	
NB2	92.84	334	P	10	26.40	-1.2
	0.7s		1.70nm			4.6mb
YKA	93.92	24	eP	10	32.20	-0.3
	0.9s		2.10nm			4.6mb

S.D. = 1.1 on 42 of 48 obs.

& NOV 25, 1990 17h 11m 35.60s
37.975 N 119.217 W
DEPTH = 5.0km (geophysicist)
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

CMB	0.92	274	iPc	11	52.30	-1.5
			eS	12	05.00	
FRI	1.06	202	iPd	11	54.80	-1.2
			iS	12	09.00	
TNP	1.58	86	eP	12	03.00	-1.6
ARN	1.94	252	eP	12	09.00	-0.6
SAO	2.15	236	eP	12	12.80	0.2
PRI	2.17	213	eP	12	16.50	3.6
			eS	12	45.00	
ORV	2.38	312	eP	12	12.10	-3.9
			eS	12	47.80	

7 obs. associated

% NOV 25, 1990 18h 28m 00.69±0.85s
41.886 N ± 9.0km 12.790 E ± 7.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RMP	0.10	221	Pd	28	03.20	-0.2
			iSg	28	06.30	
RDP	0.14	203	Pc	28	04.10	0.1
			iSg	28	07.60	
AZI	0.49	78	P	28	10.20	-0.5
			eSg	28	18.00	
SDI	0.79	103	P	28	16.50	0.4
			eSg	28	28.50	
ARV	1.62	4	P	28	29.50	0.2
			eSn	28	49.00	

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

* NOV 25, 1990 21h 46m 45.99±1.01s
21.524 S ± 14.7km 126.353 E ± 7.6km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

WARB	4.65	177	eP	47	57.50	-0.4
			eS	48	45.00	
MBL	6.09	272	eP	48	17.60	-0.6
	0.2s		2.00nm			4.5mb
			eS	49	25.00	
ASPA	7.29	108	eP	48	34.90	-0.3
	0.5s		3.00nm			4.7mb
			eS	49	52.50	
WB5	7.68	79	eP	48	41.00	0.4
			e	48	45.80	
			eS	50	02.50	
MEKA	8.76	233	eP	48	56.50	0.8
			eS	50	27.70	
MTN	9.76	29	eP	49	15.00	5.5X
	0.3s		5.00nm			5.5mb
			eS	51	00.00	

S.D. = 0.9 on 5 of 6 obs.

NOV 25, 1990 22h 02m 07.08±0.44s
37.552 N ± 9.7km 71.902 E ± 9.5km

DEPTH = 33.0km (normal)
5.0mb (7 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

NDI	9.90	152	eP	04	29.00	-1.2
			eS	06	05.50	
MAIO	10.01	267	eP	04	32.00	0.2
			eS	06	13.00	
GKN	14.32	128	P	05	30.18	0.6
	0.4s		67.00nm			5.6mb
KKN	14.87	127	P	05	36.06	-0.8
	0.6s		52.00nm			5.1mb
DMN	14.89	128	P	05	37.92	0.8
	0.5s		39.00nm			5.0mb
PKI	15.11	127	P	05	40.54	0.5
	0.5s		31.00nm			4.8mb
GUN	15.18	125	P	05	41.06	0.1
	0.4s		18.00nm			4.7mb
HYB	20.89	162	eP	06	49.50	0.4
NUR	37.41	323	eP	09	19.00	0.6
SOD	39.10	334	eP	09	34.00	1.5
KEV	40.10	338	eP	09	40.00	-0.7
HFS	42.69	321	eP	10	01.70	-0.4
	0.4s		15.90nm			5.1mb
NB2	43.98	322	P	10	12.10	-0.5
	0.5s		5.50nm			4.6mb
YKA	80.16	3	eP	14	13.90	-1.0
	0.6s		0.80nm			3.9mb X

S.D. = 0.9 on 14 of 14 obs.

% NOV 25, 1990 22h 21m 41.62±1.91s
39.495 N ± 16.6km 28.249 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST	0.31	69	iPg	21	48.10	-0.1
			iSg	21	53.30	
KCT	0.76	6	iPg	21	57.80	1.4
BNT	0.90	344	iPg	21	57.10	-1.7
EDC	0.90	341	ePg	21	59.30	0.4
IZI	1.26	48	ePn	22	04.30	-0.8
EZN	1.52	283	ePn	22	09.00	0.2
HRT	1.71	39	ePn	22	12.30	0.6

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

NOV 26, 1990 02h 05m 33.87±1.67s
1.506 N ± 6.7km 126.378 E ± 11.4km
DEPTH = 75.4 ± 17.9 km
4.7mb (7 obs.)
MOLUCCA PASSAGE (266)

AAI	5.47	161	ePc	06	55.50	0.9
MTN	15.02	162	eP	09	02.00	-1.3
	0.3s		13.00nm			4.6mb
KNA	17.31	172	eP	09	32.00	-0.1
WB5	22.65	160	iPc	10	29.40	-0.3
			eS	14	34.80	
QIS	25.47	150	iPd	10	57.00	0.3
	0.3s		7.00nm			4.6mb
			i	12	57.60	
ASPA	26.07	164	eP	11	02.30	0.1
	0.3s		53.60nm			5.6mb
			iS	15	38.10	
WARB	27.53	179	eP	11	18.60	3.1X
FORR	32.22	177	eP	11	57.00	0.0
	0.4s		30.00nm			5.5mb
STK	36.20	158	eP	12	31.40	0.2
	0.7s		3.90nm			4.4mb
CD2	36.25	326	eP	12	30.90	-0.8
XAN	36.25	335	Pc	12	31.50	-0.2
MAT	36.54	16	eP	12	35.00	1.0
	0.8s		5.22nm			4.5mb
TIY	38.25	342	eP	12	46.90	-1.5
BJI	39.46	348	eP	12	58.00	-0.4
	1.0s		12.00nm			4.8mb
SNY	40.22	357	eP	13	05.40	0.8
GTA	44.83	331	eP	13	41.60	-0.8
GUN	46.77	308	P	13	58.60	0.4
PKI	46.99	307	P	14	00.20	0.3
KKN	47.19	307	P	14	01.80	0.4
DMN	47.25	307	P	14</		

NOV 26, 1990 03h 43m 17.98±0.57s
40.207 N ± 5.3km 20.348 E ± 5.1km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.7 (THE).

TPE	0.27	289	iPg	43	22.50	-1.2
SRN	0.42	219	iPg	43	27.00	0.4
BERA	0.58	329	iPg	43	29.40	-0.3
IGT	0.67	181	iPd	43	30.42	-1.0
			eS	43	41.94	
OHR	0.97	21	ePg	43	35.00	-1.4
			iSg	43	49.80	
FNA	0.97	53	ePd	43	34.82	-1.7
			eS	43	47.54	
TIR	1.20	342	ePn	43	42.50	2.3
PHP	1.48	3	ePn	43	44.80	0.2
LIT	1.65	93	ePd	43	47.26	0.2
			iS	44	10.33	
GRG	1.73	64	iPc	43	47.98	-0.4
			iS	44	11.78	
AGG	1.94	127	iPd	43	52.42	1.1
SKO	1.95	25	ePn	43	53.00	1.6
			iSn	44	19.80	
VAY	2.02	56	ePn	43	53.00	0.5
KNT	2.16	63	ePd	43	53.74	-0.8
SOH	2.37	74	iPc	43	58.10	0.5
			eS	44	29.58	
PAIG	2.57	95	ePc	44	01.42	1.1
SRS	2.63	69	ePc	44	00.06	-1.2

S.D. = 1.2 on 17 of 17 obs.

& NOV 26, 1990 05h 09m 26.80s
64.512 N 130.325 W
DEPTH = 18.0km (geophysicist)
4.3mb (6 obs.)
NORTHWEST TERRITORIES, CANADA (679)
<PGC-P>. ML 4.7 (PGC).

DWY	4.00	268	P	10	26.70	-1.8
INK	4.02	343	P	10	26.00	-2.8
WHC	4.38	212	P	10	32.60	-1.4
HYT	4.96	225	Pd	10	40.60	-1.7
SPY	5.27	332	P	10	43.30	-3.2
MUB	5.98	157	P	10	53.60	-3.0
DLB	6.11	179	P	10	55.50	-2.9
YKA	7.32	99	eP	11	18.30	3.0X
	0.4s		5.20nm		5.0mb	
FBA	7.49	281	eP	11	15.00	-2.7
TOA	7.53	259	eP	11	17.40	-1.0
SIT	7.87	200	eP	11	20.90	-2.1
PMR	9.02	260	eP	11	38.00	-0.9
MID	9.09	243	e(P)	11	36.90	-3.0
	0.8s		226.30nm		6.5mb X	
IMA	9.88	290	eP	11	48.20	-2.8
	0.5s		1.80nm		4.7mb	
BRW	11.95	316	eP	12	14.00	-4.9
MBC	12.31	12	eP	12	17.00	-6.8
	0.5s		27.00nm		5.7mb X	
FFC	17.20	111	eP	13	21.00	-6.4X
	0.7s		8.00nm		4.0mb	
LRM	21.18	144	eP	14	14.50	1.1
ALO	32.96	142	eP	16	01.00	-1.4
	0.9s		2.10nm		4.1mb	
NB2	51.49	23	P	18	30.00	-2.6
	1.0s		4.40nm		4.3mb	
HFS	52.75	22	eP	18	39.30	-2.8
	0.4s		1.50nm		4.3mb	
Z	10s		0.04um		3.8mszX	

21 obs. associated

& NOV 26, 1990 05h 50m 16.90s
38.840 N 119.778 W
DEPTH = 9.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.6 (BRK).

CMB	0.93	211	iPd	50	34.10	-0.8
			eS	50	46.00	
KVN	1.33	80	eP	50	40.50	-1.1
ORV	1.52	299	eP	50	44.00	-0.2
			eS	51	04.00	
FRI	1.85	178	eP	50	50.20	1.2
			iS	51	14.20	
ARN	2.03	223	eP	50	53.00	1.3
MHC	2.10	225	eP	50	54.30	1.5

TNP 2.15 110 eP 50 54.50 0.9
SAO 2.46 213 eP 50 58.50 0.7
8 obs. associated

NOV 26, 1990 06h 35m 02.65±0.95s
37.750 N ± 7.7km 21.354 E ± 8.0km
DEPTH = 10.0km (geophysicist)
3.8mb (2 obs.)
SOUTHERN GREECE (368)
ML 3.5 (ATH).

ITM	0.73	141	eP	35	15.80	-1.2
VLS	0.74	305	eP	35	16.20	-1.0
			eS	35	30.00	
EVR	1.22	17	ePb	35	22.80	-2.6
AGG	1.48	31	eP	35	29.01	-0.4
			eS	35	50.76	
VLI	1.63	129	ePb	35	32.50	1.0
ATH	1.88	83	eP	35	36.00	0.9
IGT	1.95	336	eP	35	37.04	0.9
			eS	36	05.02	
NEO	2.14	43	eP	35	37.70	-1.2
KEK	2.31	329	eP	35	43.60	2.3X
SRN	2.37	334	ePn	35	43.60	1.4
LIT	2.51	20	eP	35	44.36	0.2
			eS	36	18.20	
KZN	2.57	7	eP	35	45.20	0.1
TPE	2.75	338	ePn	35	45.50	-2.1
PAIG	2.83	39	eP	35	48.32	-0.4
FNA	3.03	0	iP	35	51.72	0.2
PLG	3.08	31	ePb	35	56.00	3.7X
BERA	3.14	340	ePn	35	55.10	2.0
VAM	3.27	135	ePb	36	00.00	5.0X
GRG	3.30	14	iP	35	54.92	-0.5
OHR	3.38	353	ePn	35	56.50	-0.1
APE	3.39	100	eP	35	57.00	0.2
SOH	3.44	26	iP	35	59.36	2.0
KNT	3.61	19	eP	36	00.80	1.0
VAY	3.69	14	ePn	36	01.70	0.8
TIR	3.77	343	ePn	36	07.50	5.4X
SRS	3.78	27	iP	36	03.72	1.5
SKO	4.22	1	ePn	36	06.50	-1.9
EZN	4.40	60	ePn	36	09.00	-2.0
ALN	4.81	48	iP	36	18.00	1.2
NUR	22.88	4	eP	40	16.00	8.9X
HFS	22.93	350	eP	40	04.80	-2.8X
	0.4s		1.90nm		4.0mb	
Z	14s		0.07um		3.2mszX	
NB2	24.17	348	P	40	16.40	-3.3X
	0.7s		1.20nm		3.6mb	

S.D. = 1.4 on 25 of 32 obs.

NOV 26, 1990 06h 58m 51.18±0.45s
34.030 N ± 3.9km 118.226 W ± 4.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
ML 2.3 (PAS). Felt in the
downtown Los Angeles area.

PAS	0.13	21	iP	58	54.51	0.2
			S	58	56.96	
LCL	0.20	172	eP	58	56.31	0.8
SCY	0.20	292	iPd	58	55.64	0.0
MWC	0.24	36	iPd	58	56.60	0.2
			S	59	00.43	
PVPS	0.28	211	eP	58	57.07	-0.1
			S	59	01.66	
PEM	0.33	65	ePd	58	57.94	0.0
TWL	0.39	309	ePc	58	59.61	0.4
CIW	0.63	206	eP	59	03.30	-0.4
PEC	0.90	99	eP	59	07.80	-0.6
ABL	1.16	315	eP	59	12.50	-0.5

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

* NOV 26, 1990 07h 06m 51.77±0.73s
7.264 S ± 9.3km 128.975 E ± 19.7km
DEPTH = 183.3 ± 10.2 km
4.6mb (1 obs.)
BANDA SEA (280)

AAI	3.64	348	eP	07	49.50	0.5
MTN	5.94	159	iPc	08	18.30	-0.5
	0.3s		60.00nm		5.4mb X	
			eS	09	18.00	
KNA	8.44	181	iPc	08	51.50	-0.2
			eS	10	21.00	
WB5	13.59	158	eP	09	55.00	-3.4X

			i	10	01.90	
			eS	12	19.50	
QIS	16.75	143	iPd	10	36.80	-0.6
			eS	13	35.00	
ASPA	16.98	164	iPd	10	40.50	0.3
	0.7s		109.10nm		5.4mb X	
			eS	13	32.10	
WARB	18.95	186	eP	11	13.30	11.9X
FORR	23.48	182	eP	11	47.00	0.9
	0.5s		91.00nm		5.6mb X	
STK	27.17	156	iPd	12	20.70	0.6
	0.4s		5.40nm		4.6mb	
GUN	54.36	312	P	16	02.20	-0.2
PKI	54.53	311	P	16	03.60	0.1
KKN	54.74	311	P	16	04.60	-0.3
DMN	54.77	311	P	16	04.80	-0.4
GKN	55.34	311	P	16	09.00	-0.1

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

% NOV 26, 1990 07h 10m 32.27±0.58s
37.371 N ± 6.7km 3.912 W ± 4.6km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD).

ECOG	0.29	109	iPg	10	38.30	-0.1
			eSg	10	43.00	
AFC	0.32	112	iPg	10	38.70	-0.2
			eSg	10	44.00	
EBAN	0.80	7	iPg	10	48.00	0.2
			eSg	11	00.20	
EPRU	1.13	249	ePg	10	53.80	0.4
			eSg	11	09.40	
EHOR	1.15	293	iPg	10	53.10	-0.7
			eSg	11	09.80	
EJIF	1.55	234	ePn	11	00.10	0.2
			eSn	11	19.70	
EVIA	1.68	41	ePn	11	02.20	0.2
			eSn	11	24.80	

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

? NOV 26, 1990 07h 21m 05.11±5.45s
17.285 N ± 62.7km 61.992 W ± 27.0km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 3.2 (FDF).

BPA	0.27	151	eP	21	12.20	-0.3
NEV	0.57	255	eP	21	16.79	0.0
SFG	1.28	143	eP	21	27.00	0.3
DOG	1.30	164	eP	21	27.10	0.0
			S	21	44.70	

S.D. = 0.4 on 4 of 4 obs.

% NOV 26, 1990 09h 35m 53.29±0.81s
39.071 N ± 6.5km 27.598 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.72	201	iPg	36	07.50	0.0
			eSg	36	20.00	
DST	0.96	56	iPn	36	11.70	0.1
EZN	1.24	308	ePn	36	16.50	0.2
EDC	1.29	9	ePn	36	17.30	0.1
BNT	1.31	11	iPn	36	17.40	-0.1
KGT	1.40	351	iPn	36	18.50	-0.3

S.D. = 0.2 on 6 of 6 obs.

? NOV 26, 1990 09h 51m 27.12±3.49s
41.268 N ± 31.0km 28.986 E ± 12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

ISK	0.21	165	iPg	51	31.00	-0.7
			iSg	51	36.50	
CTT	0.44	254	iPg	51	36.00	0.0
HRT	0.68	131	iPg	51	40.50	-0.2
IZI	1.00	158	ePn	51	47.00	0.9

S.D. = 1.1 on 4 of 4 obs.

% NOV 26, 1990 09h 54m 34.00±0.89s
39.103 N ± 7.4km 27.580 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.3 (ISK).

26d 09h

IZM 0.75 200 iPg 54 48.50 -0.1
eSg 55 01.00
DST 0.96 58 iPn 54 52.60 0.4
EZM 1.21 307 ePn 54 57.00 0.5
BNT 1.28 12 iPn 54 57.50 -0.2
KGT 1.36 351 iPn 54 58.50 -0.5
S.D. = 0.6 on 5 of 5 obs.

NOV 26, 1990 09h 57m 11.36±0.21s
44.299 N ± 4.0km 97.520 E ± 3.8km
DEPTH = 12.0km (7 depth phases)
5.0mb (29 obs.)
MONGOLIA (334)

GTA 5.18 160 iPnc 58 31.40 0.8
Pg 58 49.40
Sn 59 33.00
WMO 7.10 270 iPnd 58 58.20 0.6
Sn 00 16.50
Sg 00 56.30

LZH 9.52 147 eP 59 29.00 -2.3
1.5s 57.00nm 5.7mb
Z 10s 2.67um 3.6MsZ
pP 59 34.50
eS 01 14.00
BTO 9.95 107 eP 59 40.00 2.8
N 10s 1.50um
E 10s 0.60um

HHC 10.91 104 Pc 59 48.60 -1.8
Z 10s 2.50um
S 01 51.80
TII 13.04 115 eP 00 17.80 -1.2
Z 10s 1.30um

XAN 13.52 135 P 00 26.50 1.1
CD2 14.24 158 eP 00 35.90 1.0
Z 10s 2.77um
E 10s 1.88um

BJI 14.47 101 eP 00 37.50 -0.2
1.0s 8.00nm 4.3mb
Z 16s 1.20um 5.1MsZ
N 10s 1.45um

LSA 15.43 201 iPd 00 58.40 7.6X
KSH 16.74 261 P 01 11.50 4.2X
TIA 16.98 112 eP 01 11.80 1.7
GUN 18.83 214 P 01 31.98 -1.6
WHN 19.11 130 Pd 01 36.40 -0.1
pP 01 43.60 27kmX

SNY 19.17 88 eP 01 38.00 0.8
Z 12s 0.70um
N 13s 1.00um

KKN 19.18 215 P 01 36.74 -0.9
0.7s 77.00nm 5.1mb
SHL 19.24 196 eP 01 37.50 -0.8
eS 05 20.00

GKN 19.26 217 P 01 36.60 -2.1
GYA 19.28 154 P 01 39.00 0.2
PKI 19.32 214 P 01 37.80 -1.8
DMN 19.41 215 P 01 39.46 -1.1
KMI 19.60 166 Pd 01 42.50 -0.1
1.0s 70.00nm 4.9mb

PN2 20.05 82 eP 01 45.50 12km
NJ2 20.69 119 Pc 01 47.40 0.4
NDI 22.48 233 eP 01 47.80 -1.9
SSE 22.80 117 eP 02 12.00 0.2
CHG 25.44 177 eP 02 21.00 6.1X
CHTO 25.44 177 eP 02 42.00 1.5
1.0s 13.75nm 4.6mb

BDT 27.00 177 eP 03 15.10 163kmX
QUE 27.93 250 eP 03 17.40 2.1
MAIO 29.87 268 eP 03 08.10 4.5X
eS 08 36.00
HYB 31.20 217 eP 03 38.00 5.4X
1.0s 25.00nm 5.1mb

POO 32.45 225 iPc 03 51.00 7.4X
GBA 35.08 216 P 04 07.30 1.1
SOD 42.88 327 iP 05 11.30 0.6
KAF 43.70 320 iP 05 17.00 -0.4
0.7s 8.30nm 4.6mb
esP 05 17.60

NUR 44.81 318 iP 05 26.20 -0.2
0.7s 22.70nm 5.2mb
PSN 48.48 295 eP 05 54.00 -1.5
JMB 50.08 294 iPd 06 10.00 2.2
HFS 50.12 320 eP 06 06.70 -1.2

0.8s 26.50nm 5.3mb
Z 16s 0.23um 4.3MsZ
LR 27 22.00

MB2 50.91 321 P 06 12.60 -1.4
0.9s 11.70nm 4.8mb
DIM 50.96 294 eP 06 16.00 1.4
KDZ 51.23 294 eP 06 18.00 1.4

PGB 51.62 295 iP 06 20.00 0.4
RZN 51.67 294 iPd 06 21.00 0.8
BZS 51.79 300 eP 06 20.00 -0.8
VTS 52.22 296 iP 06 25.00 0.7
MMB 52.37 295 iP 06 28.00 2.7
KSP 52.58 308 eP 06 26.00 -0.7
ic 06 30.20 14km

KKB 52.65 295 eP 06 28.00 0.6
SRO 52.79 304 eP 06 28.80 0.5
ZST 53.33 305 iP 06 32.40 0.1
BRG 53.89 309 iP 06 35.60 -0.7
1.0s 14.00nm 4.9mb
i 06 39.90 14km

SOP 53.89 304 e(P) 06 37.00 0.6
PRU 53.97 308 eP 06 36.50 -0.4
e 06 40.50 13km
CLL 54.21 310 iP 06 38.20 -0.4
1.3s 17.00nm 4.9mb
i 06 42.20 13km

KHC 54.93 307 eP 06 44.50 0.4
MOX 55.29 309 eP 06 46.00 -0.7
FVI 56.67 305 P 06 55.00 -1.6
IMA 57.25 27 eP 06 59.90 -0.7
1.4s 14.80nm 4.8mb
SOTA 57.27 306 iPd 07 00.90 -0.1
1.2s 52.20nm 5.4mb
ic 07 01.60 2km

MBC 57.43 10 eP 07 01.00 -0.6
1.0s 8.00nm 4.7mb
CTI 57.63 305 P 07 02.90 -0.6
TDS 58.17 296 Pd 07 08.00 0.7

TTA 58.28 31 e(P) 06 45.60 -22.2X
SFI 58.65 302 Pc 07 11.20 0.7
PGD 58.75 302 P 07 11.60 0.1
SVW 59.52 33 eP 07 17.30 0.9
FBA 59.90 27 eP 07 18.50 -0.4

BNI 61.09 306 P 07 28.00 0.5
INK 61.43 19 eP 07 29.00 -0.3
PMR 61.63 30 e(P) 07 30.10 -0.6
MAF 62.75 309 eP 07 38.10 -0.4
0.9s 14.75nm 5.2mb
LDF 62.80 312 eP 07 37.80 -0.9
1.0s 16.00nm 5.2mb

FLN 62.89 313 eP 07 38.20 -1.1
1.0s 32.00nm 5.5mb
TCF 62.91 309 eP 07 38.80 -0.7
0.8s 10.75nm 5.1mb

GRR 63.32 312 eP 07 38.40 -3.7X
1.0s 16.00nm 5.2mb
YKA 70.48 15 eP 08 26.00 -1.2
0.9s 6.00nm 4.7mb

WB5 72.21 144 eP 08 37.10 -1.0
WRA 72.26 144 P 08 37.00 -1.3
0.6s 11.10nm 5.1mb
ASPA 75.39 146 eP 08 55.80 -0.7
0.7s 7.40nm 4.8mb

BCAO 79.03 265 iPd 09 19.10 2.0
1.0s 10.00nm 4.8mb
i 09 24.10 16km
FORR 79.83 154 eP 09 21.10 0.3
79.96 11 iPc 09 21.20 -0.2

0.8s 12.00nm 4.9mb
PNT 81.28 24 eP 09 29.00 0.5
0.9s 8.00nm 4.8mb
STK 85.81 144 iPc 09 52.20 0.6
0.5s 8.50nm 5.2mb

ADE 87.32 147 eP 09 59.40 0.4
LKO 92.64 286 P 10 24.08 -0.3
0.9s 12.50nm 5.3mb
TIC 94.29 283 P 10 32.10 0.1
KIC 94.30 283 P 10 32.20 0.2
1.0s 20.00nm 5.5mb

LIC 94.60 283 P 10 33.60 0.2
SIV 146.46 321 PKP 16 53.60 0.8
LPB 149.77 332 ePKP 17 02.00 3.5X
CNCB 149.98 331 PKP 17 03.00 4.0X
S.D. = 1.1 on 84 of 94 obs.

40.342 N ± 9.6km 29.475 E ± 24.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.1 (ISK).

IZI 0.01 200 iPg 04 58.30 -1.6
YLV 0.24 341 iPg 05 02.50 -0.6
HRT 0.50 17 iPg 05 08.50 0.4
eSg 05 20.50
DST 0.98 222 ePn 05 17.20 0.6
S.D. = 1.7 on 4 of 4 obs.

* NOV 26, 1990 10h 13m 32.06±1.03s
38.341 N ± 7.5km 23.486 E ± 12.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (ATH).

ATH 0.41 154 ePb 13 41.00 0.5
NEO 0.99 348 ePn 13 50.20 -0.6
AGG 1.13 307 eP 13 53.10 -0.2
EVR 1.43 294 ePn 13 59.50 1.3
VLI 1.68 195 ePn 14 01.00 -0.6
ITM 1.69 227 ePn 14 01.30 -0.5
S.D. = 1.0 on 6 of 6 obs.

? NOV 26, 1990 10h 27m 11.51±1.04s
39.165 N ± 8.6km 27.536 E ± 16.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.3 (ISK).

IZM 0.80 196 ePg 27 27.00 0.0
eSg 27 39.10
DST 0.95 62 ePn 27 29.70 0.0
EDC 1.21 12 ePn 27 33.80 -0.2
BNT 1.23 14 ePn 27 34.50 0.2
S.D. = 0.3 on 4 of 4 obs.

? NOV 26, 1990 11h 08m 09.23±5.08s
15.597 N ± 11.3km 60.158 W ± 50.2km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

CRM 1.11 221 iPc 08 29.85 1.3
MVM 1.26 215 iPc 08 30.65 0.0
BBL 1.27 267 eP 08 30.50 -0.4
S 08 47.50
FDF 1.29 228 eP 08 30.57 -0.5
0.1s 0.90nm

S 08 47.60
BIM 1.39 220 eP 08 31.74 -0.8
S 08 51.60
SEG 1.52 302 eP 08 35.60 1.2
S 09 00.20

BPA 2.18 312 eP 08 43.00 -0.9
S 09 10.50
S.D. = 1.1 on 7 of 7 obs.

% NOV 26, 1990 11h 17m 13.06±0.80s
39.129 N ± 7.0km 27.613 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM 0.78 201 iPg 17 28.10 -0.2
iSg 17 40.10
DST 0.92 59 ePn 17 30.70 0.0
EZM 1.22 305 iPn 17 36.00 0.3
EDC 1.23 9 ePn 17 36.00 0.1

BNT 1.25 11 ePn 17 35.50 -0.7
IZI 1.87 49 ePn 17 46.00 0.5
S.D. = 0.6 on 6 of 6 obs.

? NOV 26, 1990 11h 21m 54.71±1.03s
41.087 N ± 9.0km 28.459 E ± 11.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

CTT 0.06 339 iPg 21 57.00 0.0
iSg 21 58.00
KCT 0.84 185 iPg 22 11.00 0.0
YLV 0.87 127 ePg 22 11.30 -0.1
HRT 0.95 106 iPg 22 13.00 0.1
S.D. = 0.2 on 4 of 4 obs.

& NOV 26, 1990 11h 42m 32.78s
58.207 N 151.942 W
DEPTH = 28.4km
KODIAK ISLAND REGION
<AGS-P>.

(13)

SYI	0.47	330	iP	42	41.64	-1.0
			iS	42	49.12	
KDC	0.55	213	iP	42	43.02	-0.8
			eS	42	50.63	
CDD	1.15	310	eP	42	51.71	-1.3
			eS	43	06.97	
AUI	1.37	326	eP	42	54.28	-1.9
			eS	43	12.05	
CNPM	1.37	15	iP	42	55.16	-1.0
AUE	1.37	328	eP	42	54.91	-1.3
AUH	1.40	327	eP	42	54.41	-2.2
HOM	1.46	6	eP	42	57.32	-0.2
MCNL	1.59	309	eP	42	57.82	-1.5
OPT	1.60	336	eP	42	58.78	-0.7
			eS	43	17.87	
BRLK	1.66	19	eP	42	57.96	-2.3
			eS	43	18.94	
NNL	1.87	10	iP	43	02.28	-1.1
INE	1.95	343	eP	43	03.21	-1.5
PDB	1.97	325	eP	43	02.91	-1.9
SEW	2.30	33	eP	43	06.60	-2.8
RSO	2.30	350	eP	43	08.04	-1.7
RS2	2.30	350	eP	43	08.15	-1.6
REF	2.32	351	iP	43	08.55	-1.5
RDN	2.35	350	iP	43	08.95	-1.4
RDT	2.39	354	iP	43	09.15	-1.7
SLKM	2.47	20	iP	43	09.58	-2.4
SPU	2.99	359	eP	43	17.35	-2.0
CKL	3.01	356	eP	43	18.50	-1.2
BGL	3.07	356	eP	43	18.89	-1.8
PMS	3.28	21	eP	43	20.66	-2.8
PWA	3.61	16	eP	43	26.71	-1.4
KNK	3.67	27	eP	43	27.14	-1.8

27 obs. associated

& NOV 26, 1990 12h 22m 01.60s
62.357 N 151.756 W
DEPTH = 104.7km
4.3mb (9 obs.)
CENTRAL ALASKA
<AGS-P>.

(1)

SKT	0.39	164	iP	22	16.60	-0.9
			iS	22	28.46	
CUT	0.69	85	iP	22	18.97	-0.6
NCG	0.98	191	iP	22	21.63	-0.9
SUA	1.02	151	iP	22	22.38	-0.6
			eS	22	39.63	
CGLM	1.06	187	iP	22	22.32	-1.1
CRP	1.11	190	iP	22	23.30	-0.8
PWA	1.13	128	iP	22	23.62	-0.5
BGL	1.14	196	eP	22	23.75	-0.6
HUR	1.16	57	iP	22	23.54	-0.9
			eS	22	40.03	
SPU	1.19	187	iP	22	23.69	-1.1
CKL	1.20	194	iP	22	24.29	-0.7
TRF	1.29	31	iP	22	24.84	-1.3
GHO	1.46	113	iP	22	27.27	-0.8
PLRM	1.46	121	eP	22	26.53	-1.4
			eS	22	46.60	
PMR	1.46	121	iPc	22	26.60	-1.3
PMS	1.53	136	iP	22	27.77	-1.1
NKA	1.64	171	iP	22	31.14	1.0
RND	1.70	50	iP	22	29.99	-1.0
SML	1.70	107	eP	22	29.97	-1.1
RDT	1.82	190	iP	22	31.68	-0.9
KNK	1.83	120	iP	22	31.32	-1.3
MCK	1.89	42	eP	22	32.29	-1.1
NCT	1.89	198	iP	22	32.74	-0.8
RDN	1.91	195	iP	22	33.12	-0.7
REF	1.93	194	iP	22	33.52	-0.6
RS2	1.96	195	iP	22	34.03	-0.5
RSO	1.96	195	iP	22	34.03	-0.5
SLKM	2.00	158	eP	22	33.88	-1.0
TTA	2.05	288	iPc	22	34.00	-1.6
BWN	2.10	29	eP	22	34.91	-1.2
SCM	2.15	102	eP	22	35.03	-1.8
SVW	2.23	237	iPd	22	36.80	-1.1
NNL	2.33	174	eP	22	39.61	0.4
INE	2.39	196	iP	22	39.45	-0.7

SEW	2.52	153	eP	22	40.07	-1.6
NEA	2.53	27	eP	22	39.65	-2.2
TOA	2.63	93	iPc	22	42.10	-1.1
BRLK	2.64	170	eP	22	42.95	-0.4
GLI	2.67	122	iP	22	41.38	-2.4
WRH	2.69	36	eP	22	41.92	-2.0
HOM	2.71	179	eP	22	44.30	0.1
KNIM	2.79	134	eP	22	41.93	-3.5
VZW	2.80	115	eP	22	43.58	-2.0
OPT	2.81	195	eP	22	45.80	0.2
PDB	2.84	206	iP	22	45.34	-0.6
CNPM	2.85	175	eP	22	44.56	-1.7
VLZ	2.86	113	eP	22	43.90	-2.3
			eS	23	17.60	
KLU	2.89	105	iP	22	44.40	-2.4
SDG	2.89	84	eP	22	45.28	-1.5
CCB	2.90	36	iP	22	44.87	-2.0
XLV	2.91	180	eP	22	46.85	-0.2
THY	2.95	66	eP	22	47.55	0.0
			eS	23	22.21	
PAX	2.97	75	eP	22	46.62	-1.2
HDA	2.98	44	eP	22	45.72	-2.3
TZL	2.98	93	eP	22	46.77	-1.2
LTJ	2.99	139	eP	22	44.94	-3.2
DDM	3.04	59	eP	22	47.83	-1.0
MDM	3.05	29	iP	22	46.96	-1.9
MTU	3.10	138	iP	22	46.95	-2.6
FBA	3.11	33	iPc	22	47.70	-1.9
AUE	3.11	195	iP	22	49.61	-0.1
AUH	3.11	196	iP	22	50.30	0.5
GLM	3.28	34	eP	22	50.12	-1.9
MCNL	3.43	203	eP	22	52.55	-1.4
CDD	3.56	196	eP	22	55.59	-0.3
DOT	3.74	66	eP	22	56.12	-2.2
SYI	3.77	185	eP	22	57.82	-0.9
IMA	3.82	348	iPc	22	57.40	-2.1
GLB	3.87	100	eP	22	57.60	-2.5
MID	3.95	136	eP	23	00.80	-0.4
TMW	4.13	73	eP	23	01.16	-2.5
TGL	4.56	107	eP	23	06.70	-2.9
KDC	4.64	185	eP	23	08.50	-2.1
BALM	4.67	102	eP	23	08.02	-3.2
DWY	5.83	68	P	23	24.30	-2.7
ANM	6.49	296	eP	23	35.00	-1.1
HYT	6.97	96	P	23	39.70	-3.1
BRW	9.19	350	iPd	24	09.60	-3.2
INK	9.65	44	P	24	17.00	-2.0
SIT	9.84	115	e(P)	24	18.70	-2.8
YKA	17.05	73	eP	25	51.90	-2.5

	0.9s	5.20nm	3.8mb			
MBC	17.61	25	eP	25	59.00	-2.2
	0.6s	4.00nm	3.8mb			
MCW	21.10	117	eP	26	39.00	0.1
PNT	21.98	112	eP	26	48.00	0.4
	0.9s	18.00nm	4.4mb			
EDM	22.10	97	iPd	26	48.20	-0.5
	1.0s	58.00nm	4.9mb			
DPW	23.69	112	eP	27	03.50	-0.8
NEW	23.86	110	eP	27	05.50	-0.4
	0.7s	8.00nm	4.3mb			
LRM	27.79	108	eP	27	41.40	-1.0
BW06	31.46	109	eP	28	13.50	-1.6
DUG	32.16	115	eP	28	20.30	-0.8
RSSD	32.90	101	eP	28	26.30	-1.2
MSU	33.84	116	eP	28	35.60	-0.2
GOL	35.81	107	eP	28	51.80	-0.6
	0.8s	2.98nm	4.3mb			
ALO	39.30	113	eP	29	21.30	-0.3
	1.1s	4.11nm	4.2mb			
KEV	48.17	1	eP	30	33.00	0.8
SOD	50.56	1	eP	30	47.00	-3.5
NB2	56.24	10	P	31	29.20	-3.3
	0.8s	2.10nm	4.2mb			
HFS	57.33	9	eP	31	35.50	-4.6
	0.4s	1.70nm	4.4mb			
Z	12s	0.05um	3.9mszx			
NUR	57.43	2	eP	31	58.00	17.2
GUN	78.99	310	P	33	53.60	-1.8
KKN	79.32	311	P	33	55.00	-2.0
GKN	79.35	311	P	33	55.40	-1.7
PKI	79.47	311	P	33	56.40	-1.5
DMN	79.54	311	P	33	57.40	-0.8

104 obs. associated

% NOV 26, 1990 13h 08m 39.94±0.87s
48.043 N ± 9.9km 6.665 E ± 7.3km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.7 (LDG).

HAU	0.22	260	Pg	08	45.90	1.3
			Sg	08	49.00	
BSF	0.23	158	Pn	08	45.20	0.3
			Sg	08	48.00	
CDF	0.55	48	Pg	08	51.20	0.0
			Sg	08	58.20	
LOR	2.05	249	Pn	09	14.20	-0.7
			Pg	09	19.70	
			Sg	09	45.90	
LBF	2.11	241	Pg	09	20.80	5.1X
			Sg	09	47.30	
SSF	2.35	247	Pn	09	18.50	-0.7
			Pg	09	25.40	
SMF	2.38	235	Pn	09	19.40	-0.2
			Pg	09	26.00	
			Sg	09	56.80	
AVF	2.57	242	Pg	09	29.30	7.0X
BGF	2.99	242	Pg	09	36.60	8.3X
			Sg	10	16.20	
MAF	3.34	238	Pg	09	42.90	9.7X

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

% NOV 26, 1990 13h 26m 28.33±2.13s
40.911 N ± 11.8km 23.928 E ± 16.7km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 1.9 (THE).

SRS	0.33	309	iPd	26	34.85	-0.3
			eS	26	40.24	
SOH	0.44	259	iPd	26	36.84	-0.6
			eS	26	43.56	
OUR	0.58	176	iPc	26	40.14	0.1
KNT	0.82	288	ePc	26	44.00	-0.2
			eS	26	56.84	
PAIG	1.00	191	iPd	26	47.10	-0.2
GRG	1.16	273	ePd	26	51.08	1.1

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

* NOV 26, 1990 13h 55m 53.50±3.46s
43.331 N ± 15.1km 0.621 W ± 31.0km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)
ML 2.9 (LDG).

BTH	0.37	124	iPd	56	01.20	0.1
			iSg	56	08.30	
EPF	0.76	113	Pg	56	08.30	-0.2
			Sg	56	20.20	
LPO	1.88	43	Pg	56	33.00	7.1X
			Sg	57	01.70	
LFF	1.88	31	Pg	56	33.40	7.4X
			Sg	57	02.30	
RJF	2.50	37	Pn	56	34.60	-0.2
			Pg	56	44.80	
			Sg	57	20.40	
CAF	2.51	50	Pn	56	38.50	3.5X
			Pg	56	44.20	
MFF	3.29	6	Pn	56	46.00	-0.1
LSF	3.30	27	Pn	56	46.00	-0

26d 14b

MNS	0.50	310	Pc	48	52.80	-1.5
			eSg	49	02.00	
SDI	0.58	128	P	48	55.00	-0.9
			eSg	49	04.50	
ASS	1.08	339	P	49	05.00	0.5
			eSn	49	21.50	
ARV	1.45	353	P	49	10.70	0.3
			eSn	49	31.50	
SFI	2.11	332	P	49	20.00	0.2
PGD	2.11	330	P	49	20.00	-0.1

S.D. = .08 on 10 of 10 obs.

& NOV 26, 1990 14h 59m 46.50s
38.788 N 122.767 W
DEPTH = 3.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.5 (BRK).
Mo=3.4+10+14 Nm (BRK).

NWRM	0.34	196	iPd	59	53.70	0.3
ZSP	0.93	154	eP	00	04.70	-0.3
			iS	00	19.50	
BRK	1.00	156	ePc	00	05.50	-0.5
			iS	00	19.50	
BKS	1.00	155	iPc	00	05.60	-0.5
			eS	00	18.50	
ORV	1.25	52	ePc	00	09.20	-1.1
PCC	1.32	167	eP	00	12.30	0.7
ARN	1.74	145	eP	00	16.20	-1.6
WDC	1.80	6	e(P)	00	15.90	-2.7
CMB	2.02	111	ePc	00	20.50	-1.4
FHC	2.22	335	e(P)	00	23.70	-1.1
LBFM	2.64	14	eP	00	32.50	1.5
FRI	3.01	126	eP	00	35.00	-1.0

NOV 26, 1990 15h 03m 59.71 ± 0.90s
41.200 N ± 7.7km 22.455 E ± 6.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (SKO).

VAY	0.15	36	iPg	04 02.50	-0.6
			iSg	04 05.40	
GRG	0.25	189	iPc	04 04.33	-0.7
			eS	04 08.22	
KNT	0.34	96	iPc	04 06.82	0.1
			eS	04 12.38	
SOH	0.78	119	eP	04 14.70	-0.2
			eS	04 25.82	
SRS	0.86	95	eP	04 16.98	0.7
			eS	04 28.82	
FNA	0.92	243	eP	04 18.05	0.8
			eS	04 30.30	
LIT	1.10	179	eP	04 19.69	-0.7
PAIG	1.58	143	eP	04 28.42	0.7
	S. D. = 0.7	on	8 of	8 obs.	

? NOV 26, 1990 15h 43m 51.37± 0.94s
39.152 N ± 8.2km 27.633 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

I Z M	0.81	201	eP g	44	07.00	-0.1
			eS g	44	19.20	
D S T	0.89	59	iP g	44	08.70	0.1
			eS g	44	23.70	
E Z N	1.21	304	eP n	44	14.10	0.1
B N T	1.22	10	eP n	44	13.90	-0.2
	S. D.	= 0.3	on	4	of	4 obs.

% NOV 26, 1990 15h 54m 47.75± 0.71s
43.983 N ±13.8km 11.281 E ± 5.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PGD	0.34	109	Pc	54	55.10	0.3
			iSg	55	00.00	
SFI	0.42	98	Pd	54	55.90	-0.4
			eSg	55	02.30	
MME	0.47	297	P	54	57.60	0.3
			eSg	55	04.60	
BDI	0.50	279	Pd	54	57.60	-0.3
			eSg	55	05.00	
CRE	0.60	126	P	55	00.00	0.0
			ePa	55	08.50	

PII 0.61 245 P 55 00.00 0.0
 eSg 55 10.00
S.D. = 0.4 on 6 of 6 obs.

* NOV 26, 1990 17h 53m 04.40 ± 2.73 s
37.003 S ± 23.3 km 177.475 E ± 8.1 km
DEPTH = 9.5 ± 4.8 km
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 4.6 (WEL).

HBZ	0.89	132	P	53	20.60	-0.9
WTZ	1.05	201	P	53	24.10	-0.2
PUZ	1.24	150	P	53	27.80	0.4
TAZ	1.45	212	P	53	30.80	0.1
NOZ	1.67	165	P	53	34.90	1.0
WLZ	1.72	240	P	53	34.60	0.0
WHH	2.03	202	P	53	38.40	-0.8
TAHZ	2.21	195	P	53	41.50	-0.3
			eS	54	12.10	
MOZ	2.60	234	P	53	47.40	0.2
WAHZ	2.83	198	P	53	50.10	-0.5

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

& NOV 26, 1990 18h 40m 20.24s
63.218 N 149.333 W
DEPTH = 92.2km
CENTRAL ALASKA (1)
<AGS-P>

HUR	0.28	210	eP	40	33.75	-0.3
			eS	40	43.71	
RND	0.29	49	iP	40	33.94	-0.2
			eS	40	44.24	
TRF	0.49	299	iP	40	35.54	0.0
			eS	40	46.57	
MCK	0.55	19	eP	40	35.72	-0.1
			eS	40	46.58	
CUT	0.92	208	iP	40	39.00	-0.5
NEA	1.37	5	eP	40	43.96	-0.9
WRH	1.37	23	iP	40	44.24	-0.6
GHO	1.46	172	eP	40	45.99	-0.1
			eS	41	06.04	
SML	1.49	161	eP	40	46.44	0.0
CCB	1.59	25	iP	40	46.77	-0.8
HDA	1.59	40	eP	40	47.04	-0.6
			eS	41	08.18	
PWA	1.59	189	eP	40	47.47	-0.2
			eS	41	09.24	
SKT	1.60	220	eP	40	46.86	-1.0
PLRM	1.63	177	eP	40	47.81	-0.4
			eS	41	09.31	
DDM	1.66	68	eP	40	49.18	0.6
SCM	1.67	145	eP	40	48.65	-0.2
PAX	1.78	96	eP	40	50.72	0.6
			eS	41	13.28	
MDM	1.81	15	iP	40	49.95	-0.7
FBA	1.82	21	iP	40	49.99	-0.6
TOA	1.84	126	eP	40	51.54	0.6
KNK	1.86	167	eP	40	50.68	-0.5

SDG	1.87	110	eP	40	51.25	-0.1
SUA	1.88	201	eP	40	51.52	0.0
GLM	1.97	25	eP	40	51.87	-0.8
PMS	1.98	183	eP	40	52.53	-0.3

TZL	2.16	121	eP	40	56.88	1.7
NCG	2.25	217	eP	40	55.63	-0.9
			eS	41	23.76	
CGLM	2.29	214	eP	40	56.62	-0.4
KLU	2.35	136	eP	40	59.00	1.1
DOT	2.41	77	eP	40	58.13	-0.4
SPU	2.41	213	eP	40	58.03	-0.6
BGL	2.43	217	eP	40	59.28	0.4
SLKM	2.75	189	eP	41	01.18	-2.1
RDT	3.03	210	eP	41	06.99	-0.1
GLB	3.13	122	eP	41	06.91	-1.6
35 obs. associated						

• NOV 26, 1990 18h 50m 40.45±0.84s
21.349 S ± 9.0km 68.723 W ±11.3km
DEPTH = 124.2 ± 9.0 km
4.5mb (3 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT 2.82 213 iPc 51 24.90 -0.2
iS 51 51.50
i 51 57.00

CNCB	4.57	9 P	51	49.00	-0.2
CCH	4.64	32 P	51	49.00	-0.9
LPB	4.83	7 eP	51	54.00	1.4
ARE	5.52	331 eP	51	56.00	-5.9X
		iS	52	51.30	
SIV	9.00	55 iPc	52	45.20	-3.7X
NNA	12.13	319 iPc	53	37.00	6.7X
	0.9s	13.45nm			4.6mb
		eS	55	35.00	
BAO	20.46	77 ePd	55	11.00	0.7
SOB1	29.37	70 eP	56	33.80	-0.3
PDCR	29.60	78 eP	56	35.60	-0.4
ALO	66.46	327 eP	01	18.00	-0.8
	0.9s	3.78nm			4.3mb
KIC	68.49	74 P	01	31.60	-0.1
LKO	69.15	70 P	01	35.80	0.1
YKA	91.10	341 eP	03	31.20	-0.4
	0.8s	2.70nm			4.5mb
WRA	133.17	210 PKP	09	45.00	1.2
	0.5s	0.90nm			
GKN	154.93	69 PKP	10	00.00	-20.2X
S.D. = 0.9 on 12 of 16 obs.					

• NOV 26, 1990 19h 34m 50.02± 0.40s
10.545 S ±10.8km 112.894 E ±16.1km
DEPTH = 33.0km (normol)
4.6mb (3 obs.)
SOUTH OF JAVA (282)

WARB	20.27	142	eP	39	24.50	-1.2
			eS	42	53.00	
KLB	21.42	169	eP	39	36.00	-1.4
			eS	43	15.00	
MUN	21.55	172	eP	39	40.00	1.3
			eS	43	22.00	
COOL	21.64	160	eP	39	41.00	1.4
	0.3 s	5.00nm				4.5mb
			eS	43	18.00	
WB5	22.68	117	eP	39	50.00	0.0
			eS	43	53.80	
ASPA	23.90	126	iPc	40	01.80	-0.1
	0.7 s	16.50nm				4.7mb
			iS	44	23.50	
FORR	24.65	147	eP	40	08.50	-0.5
STK	33.97	133	eP	41	33.10	0.4
	0.7 s	7.40nm				4.7mb
SHL	41.32	331	iP	42	34.80	0.2
PKI	46.32	325	P	43	14.64	-0.5
GUN	46.32	326	P	43	15.30	0.1
DMN	46.51	325	P	43	16.28	-0.3
KKN	46.56	325	P	43	16.48	-0.4
GKN	47.08	326	P	43	20.42	-0.5
LZH	47.16	350	eP	43	22.50	1.0
			pP	43	37.50	58kmX
BJI	50.42	3	eP	44	00.00	13.7X
MAT	52.55	26	eP	43	53.00	-9.6X
YKA	118.00	23 ePKP	53	35.20	0.6	
	0.6 s	0.90nm				
SOB1	147.36	234 ePKP	54	33.80	3.3X	
S.D.	= 0.9	on 16	of 19 obs.			

NOV 26, 1990 19h 35m 45.89± 0.45s
38.391 N ± 3.9km 36.637 E ± 5.9km
DEPTH = 33.0km (normal)
4.2mb (8 obs.) 3.4MsZ (2 obs.)
TURKEY (366)
ML 4.2 (BHL).

GAZ	1.30	159	iP _n	36 07.60	-0.2
KVT	2.72	351	iP _n	36 27.20	-1.1
BBTK	3.35	297	iP _c	36 37.00	-0.2
			i	36 42.00	
			iS	37 23.00	
KAS	3.71	324	eP _n	36 42.00	-0.3
FAM	4.00	213	eP	36 46.50	0.2
CSS	4.33	219	eP	36 50.00	-1.1
BHL	4.55	190	P _n	36 53.00	-1.3
			Sn	38 14.00	
BCK	4.87	261	iP	36 58.00	-0.8
PPCY	4.91	226	eP	37 00.50	1.1
ALT	5.15	279	eP	37 16.00	13.2X
HRI	5.16	188	eP	37 03.00	0.0
GPA	5.26	293	eP	37 00.00	-4.3X
KHL	5.59	272	eP	37 25.00	16.0X
SHMJ	5.70	187	Pd	37 12.30	1.9
IZI	5.88	292	eP	37 13.00	-0.1
HRT	5.90	296	eP	37 14.00	0.6

YLV	6.03	293	eP	37	13.00	-2.2		S	13	33.50		NWAO	56.74	244	eP	18	09.00	-0.1		
GBZT	6.05	296	ePn	37	21.50	6.1X	DZM	13.24	266	iPd	12	11.60	0.9	BAL	57.46	247	eP	18	13.00	-1.1
BURJ	6.17	187	Pc	37	17.50	0.3	MUN		iS	14	37.80		MUN	57.71	245	eP	18	15.20	-0.5	
ZNT	6.28	193	eP	37	18.00	-0.6	HBZ	15.96	187	eP	12	37.70	0.9	SPA	68.41	180	iPc	19	24.50	1.2
			eS	38	28.00			0.3s	45.00nm		5.3mb			1.0s	90.00nm			5.2mb		
HBJ	6.30	183	Pc	37	18.20	-0.9	PUZ	16.43	187	eP	12	41.20	-0.2	CHJJ	69.69	325	P	19	30.50	-0.6
DST	6.36	283	eP	37	25.70	5.9X	WLZ	16.66	194	P	12	46.00	2.5	IIDJ	69.86	324	P	19	31.50	-0.6
ISK	6.42	297	eP	37	25.00	4.4X	NOZ	17.00	187	eP	12	46.00	-0.6	MAT	70.48	325	(P)	19	34.00	-1.7
ITU	6.47	297	eP	37	40.00	18.7X	PGZ	19.21	190	eP	13	05.90	-1.3		0.8s	13.43nm			4.5mb	
KFNJ	6.56	187	Pd	37	23.50	1.0	MNG	19.35	192	eP	13	06.90	-1.7	OFUJ	70.66	329	eP	19	35.80	-0.8
CTT	6.90	296	iP	37	26.80	-0.5	WEL	20.14	193	P	13	15.00	-0.7	MTMJ	70.73	325	P	19	36.40	-0.8
CSTJ	7.25	180	Pc	37	23.50	-8.8X		0.8s	*****nm		7.6mb	X	YAMJ	70.76	327	eP	19	35.90	-1.3	
I2M	7.36	273	eP	37	35.00	1.1			S	16	32.00		TSRJ	70.97	323	P	19	38.40	-0.1	
TAB	7.63	89	e(P)	37	56.00	18.2X	THZ	21.04	196	P	13	22.90	-1.0	SSE	77.55	311	eP	20	13.70	-1.5
			e	38	10.00		KHZ	21.49	195	P	13	26.60	-1.3		1.0s	12.00nm			4.3mb	
			e(S)	40	21.00			0.3s	70.00nm		5.7mb		SDN	78.41	11	eP	20	17.60	-1.6	
PRNI	8.14	190	eP	37	44.00	-0.7	HNR	23.39	298	P	13	44.00	-1.2	PRS	79.53	44	eP	20	26.50	1.0
EZN	8.15	283	eP	37	44.00	-0.7	MMCZ	25.10	200	P	13	58.80	-1.3	GCC	79.55	43	eP	20	26.00	0.5
CFR	9.28	320	eP	38	00.00	-0.4	TLC	25.29	199	eP	14	01.30	-0.5	BCH	79.70	46	P	20	27.40	0.9
KER	9.35	112	eP	38	19.00	17.4X	COO	27.26	245	iPc	14	19.70	0.6	NJ2	79.73	310	Pc	20	27.50	0.9
VRJ	10.48	319	eP	38	32.50	15.6X	TBI	27.59	99	iP	14	22.80	0.9	SAO	79.74	44	eP	20	27.40	0.8
MLR	10.66	315	eP	38	19.50	0.0		0.9s	70.00nm		5.3mb		PRI	79.88	45	eP	20	28.00	0.5	
CMP	11.04	312	ePc	38	08.00	-16.6X	AFR	28.09	87	iP	14	25.70	-0.6	BRK	79.90	42	eP	20	28.00	0.7
VAY	11.20	290	eP	38	28.40	1.7		0.9s	95.00nm		5.4mb		BKS	79.91	42	iPd	20	28.20	0.8	
SHI	15.78	119	eP	39	27.00	-0.4	PAE	28.25	87	iP	14	27.10	-0.5		0.9s	80.00nm			5.2mb	
SRO	16.33	311	eP	39	35.00	0.9		0.9s	45.00nm</											

26d 20h																		
GOL	92.03	48 P	21	26.00	0.1	BSF	153.49	351 ePKP	28	10.90	8.3X	NKA	1.55	213 eP	18	58.92	1.2	
	0.8s	7.44nm		4.8mb			0.8s	4.05nm				TOA	1.57	86 iPc	18	58.00	-0.1	
LZH	92.55	308 eP	21	29.00	0.8	LPF	153.71	3 ePKP	28	11.70	9.0X	SLKM	1.58	193 iP	18	57.25	-1.0	
	1.0s	15.00nm		5.0mb			0.8s	13.45nm				BGL	1.59	242 eP	18	57.90	-0.4	
BRW	94.09	7 e(P)	21	33.00	-1.2	LOR	154.38	355 ePKP	28	12.20	8.5X	CKL	1.60	239 iP	18	57.80	-0.7	
YKA	98.12	25 eP	21	51.20	-1.5		0.8s	6.05nm				GLI	1.65	134 iP	18	58.32	-0.8	
	0.9s	2.10nm		4.5mb		SSF	154.62	356 ePKP	28	12.70	8.7X	MCK	1.71	9 iP	18	59.35	-0.7	
PDCR	128.17	127 ePKP	27	17.00	-2.8X		0.8s	5.35nm				VZW	1.73	124 iP	18	59.31	-1.0	
SOB1	128.91	123 ePKP	27	09.10	-12.1X	LBF	154.66	355 ePKP	28	13.50	9.4X	VLZ	1.77	120 iP	18	59.60	-1.2	
		e	27	20.50			0.8s	5.35nm					eS			19	21.67	
		e	29	45.00		MFF	155.17	1 ePKP	28	15.50	10.8X	KLU	1.79	106 iP	19	00.18	-1.1	
KEV	129.42	348 ePKP	27	32.00	11.5X		0.8s	10.75nm					eS			19	23.31	
BUL	130.25	215 iPKPd	27	21.50	-2.3	BCAO	155.62	228 ePKPc	28	09.90	3.5X	KNIM	1.91	153 iP	19	00.86	-1.9	
	0.8s	6.34nm					0.6s	34.00nm				SDG	1.91	74 eP	19	02.35	-0.5	
		i	29	49.90				i	28	39.20		TZL	1.92	88 iP	19	02.70	-0.3	
KRI	132.35	219 ePKP	27	16.60	-11.2X			i	30	58.20		SEW	1.95	179 eP	19	01.97	-1.4	
		iSKP	29	56.50		LIC	163.63	159 PKP	28	15.22	0.3	RDT	2.04	225 iP	19	04.01	-0.6	
KAF	135.97	343 ePKP	27	33.00	-0.2	KIC	163.85	160 PKP	28	15.20	0.0		eS			19	28.65	
NUR	137.75	343 ePKP	27	35.00	-1.5		S.D. = 0.9	on 132 of 173 obs.				PAX	2.09	62 iP	19	04.76	-0.7	
NB2	140.03	352 PKP	27	33.00	-7.7X							BWN	2.13	0 eP	19	05.00	-1.0	
	0.7s	4.80nm					NOV	26, 1990	21h 03m 40.28±0.78s			LTl	2.17	158 eP	19	04.78	-1.7	
HFS	140.53	350 ePKP	27	33.40	-8.2X			12.722 S ± 7.4km	73.794 W ± 8.0km			NNL	2.19	204 iP	19	06.94	0.1	
	0.4s	2.90nm						DEPTH = 76.7 ± 9.9 km				REF	2.20	226 iP	19	06.56	-0.5	
Z	12s	0.04um		4.4MszX				4.2mb (2 obs.)				RDN	2.20	227 eP	19	06.33	-0.7	
LWI	143.65	233 iPKPc	27	48.80	0.2	PERU				(116)		THY	2.21	50 eP	19	07.05	0.0	
EDU	145.11	4 ePKP	27	49.50	0.0							NCT	2.22	229 eP	19	07.00	-0.4	
	0.7s	91.00nm				NNA	3.07	283 iPd	04	27.40	-0.1	RSO	2.23	226 eP	19	07.04	-0.6	
EAB	145.37	5 ePKP	27	50.20	0.3		0.8s	350.75nm				RS2	2.24	226 iP	19	07.07	-0.5	
EBH	145.38	4 ePKP	27	50.40	0.4			i	04	28.60		MTU	2.25	156 eP	19	05.53	-2.2	
	0.8s	68.00nm						eS	04	59.60		BRLK	2.39	197 eP	19	08.27	-1.4	
EDI	145.72	4 ePKP	27	51.00	0.5	ARE	4.33	149 eP	04	46.00	0.5	DDM	2.41	42 eP	19	10.63	0.6	
ESY	145.76	3 ePKP	27	50.60	0.0			iS	05	37.80		WRH	2.52	14 eP	19	09.69	-1.8	
EAU	145.78	4 ePKP	27	51.60	1.0	LPB	6.69	125 P	05	19.00	0.7	NEA	2.55	4 eP	19	10.07	-1.8	
	0.7s	61.00nm				CNCB	6.94	127 P	05	22.00	0.1	HOM	2.62	205 eP	19	12.24	-0.6	
EBL	145.88	4 ePKP	27	51.80	1.0	CCH	8.72	123 P	05	47.00	0.7	HDA	2.63	25 eP	19	11.58	-1.6	
KAS	145.97	313 ePKP	27	54.50	3.0X	TUNG	12.14	337 eP	06	31.20	-1.2	INE	2.64	223 eP	19	12.45	-0.9	
EKA	146.31	4 PKPc	27	54.10	2.6X	SIV	12.75	106 P	06	38.00	-2.1	DJE	2.64	40 eP	19	13.37	0.1	
	0.9s	27.10nm				RECU	12.90	338 eP	06	43.50	0.8	CNPM	2.67	199 eP	19	12.39	-1.3	
KRA	147.91	336 ePKP	27	58.20	4.0X	COTA	13.73	341 eP	06	59.00	5.5X	CCB	2.72	16 eP	19	12.45	-1.9	
		e	28	03.10		PEL	20.53	173 iPc	08	14.40	-0.3	GLB	2.78	100 iP	19	13.48	-1.7	
KSP	148.47	341 ePKP	27	54.20	-0.9		0.6s	23.33nm		4.7mb		XLV	2.82	204 eP	19	15.75	0.0	
		i	27	59.50		FCH	20.76	172 eP	08	17.80	0.4	FBA	2.97	14 iPd	19	16.00	-1.9	
		i	28	05.50		TACH	21.00	173 eP	08	19.50	0.0	DOT	2.97	55 eP	19	16.30	-1.7	
		e	30	18.00		LNV	21.25	175 eP	08	21.00	-0.9	MDM	2.98	11 iP	19	16.32	-1.8	
SPC	148.49	335 ePKP	28	00.70	5.3X	BAO	25.18	100 e(P)	09	01.00	0.6	OPT	3.02	219 eP	19	17.70	-0.9	
MLR	148.55	325 ePKPc	28	00.00	4.5X	LKO	71.26	75 P	14	53.88	0.0	MID	3.05	148 eP	19	17.66	-1.4	
WIT	148.62	353 ePKP	28	01.00	5.8X	YKA	81.43	342 eP	15	51.20	1.4	SVW	3.07	255 ePd	19	17.80	-1.7	
CLL	148.94	345 iPKP	28	00.20	4.5X		0.9s	1.10nm		3.8mb		GLM	3.10	17 eP	19	17.94	-1.9	
BRG	149.11	344 ePKP	27	56.00	0.0	WRA	137.33	221 PKP	22	57.00	-0.6	TTA	3.15	289 iPc	19	18.60	-1.9	
	1.5s	13.00nm					0.8s	2.40nm				PDB	3.22	227 eP	19	19.70	-1.8	
		i	28	01.00		GBA	151.98	85 PKPd	23	30.50	8.4X	TMW	3.26	64 eP	19	20.22	-1.9	
		i	28	07.90			0.6s	2.00nm				AUE	3.30	217 eP	19	21.79	-0.8	
		epPKP	30	25.00			S.D. = 1.0	on 16 of 18 obs.				AUP	3.31	217 eP	19	23.15	0.3	
WTS	149.41	353 ePKP	28	01.50	5.1X							AGU	3.31	217 eP	19	22.54	-0.4	
	0.9s	59.00nm					& NOV	26, 1990	21h 18m 32.14s			AUH	3.32	217 eP	19	23.21	0.3	
		e	28	08.50				62.047 N	149.506 W			AUI	3.33	217 eP	19	22.13	-0.9	
PRU	149.74	342 PKPd	28	02.00	5.0X			DEPTH = 45.0km				TGL	3.46	109 iP	19	22.54	-2.4	
	1.0s	21.70nm						4.9mb (42 obs.)	4.3Msz (3 obs.)			BALM	3.58	103 iP	19	24.10	-2.5	
		e	28	10.50				CENTRAL ALASKA	(1)			MCNL	3.73	222 eP	19	27.02	-1.6	
MOX	149.88	346 iPKP	28	03.00	5.8X			<AGS-P>. Felt (IV) at Anchorage,				SYI	3.73	204 eP	19	27.47	-1.2	
	1.1s	29.00nm						Chickaloon, Palmer, Talkeetna,				CDD	3.74	215 eP	19	27.35	-1.4	
		epPKP	30	26.50				Wasilla and Willow. Felt (III)				BGM	3.87	229 eP	19	30.67	0.0	
SRO	150.36	336 e(PKP)	28	03.50	5.5X			at Chugiak and Sutton.				IMA	4.43	337 iPc	19	36.40	-2.3	
ZST	150.49	337 ePKP	28	04.30	6.1X	GHO	0.39	135 P	18	41.44	-0.5	KDC	4.57	201 ePd	19	37.20	-3.2	
		e	28	14.10		PWA	0.44	204 iP	18	42.20	-0.1	DWY	5.01	62 Pc	19	44.00	-2.6	
ENN	150.72	353 ePKP	28	04.50	6.1X	PLRM	0.49	159 iP	18	42.17	-0.8	HYT	5.89	97 Pd	19	55.70	-3.5	
	1.0s	46.00nm				PMR	0.49	159 iPc	18	42.20	-0.8	ANM	7.57	296 eP	20	19.17	-3.5	
		e	28	13.50		CUT	0.51	315 iP	18	42.72	-0.5	SIT	8.76	118 eP	20	34.00	-5.0	
KHC	150.79	343 ePKP	28	05.40	6.7X	SML	0.60	113 eP	18	43.50	-1.1	SDN	8.82	225 eP	20	36.00	-3.8	
		e	28	15.60		PMS	0.81	182 eP	18	46.55	-0.7	INK	9.17	40 P	20	40.00	-4.7	
UCC	150.84	355 PKP	28	06.00	7.4X	KNK	0.81	141 iP	18	46.57	-0.8	BRW	9.72	346 eP	20	47.70	-4.5	
MEM	150.87	353 PKPc	28	05.10	6.5X			eS	18	58.37		YKA	16.13	73 eP	22	16.10	-0.9	
SOP	151.12	338 e(PKP)	28	05.00	5.9X	SUA	0.83	226 iP	18	47.32	-0.4		0.8s	15.80nm		4.2mb		
SNF	151.13	355 PKPc	28	05.70	6.7X	HUR	0.94	356 iP	18	48.39	-0.7	MBC	17.46	24 eP	22	31.00	-2.5	
DOU	151.51	355 PKPc	28	06.50	6.9X	SKT	0.96	267 iP	18	48.57	-0.8		0.8s	12.00nm		4.1mb		
	1.0s	52.00nm						eS	19	02.04		PNT	20.89	114 eP	23	14.00	1.5	
		e	28	17.00		SCM	1.05	101 iP	18	49.65	-1.1		0.9s	35.00nm		4.7mb		
CDF	152.85	350 ePKP	28	09.60	7.9X	RND	1.40	12 iP	18	54.67	-1.0	EDM	21.01	98 iPc	23	11.00	-2.7	
	0.8s	8.05nm				CGLM	1.40	239 eP	18	55.32	-0.4		0.9s	39.00nm		4.8mb		
FLN	153.00	2 ePKP	28	09.70	8.0X			eS	19	15.26		LON	21.98	121 eP	23	22.00	-1.6	
	0.8s	14.80nm				NGC	1.42	244 iP	18	55.14	-0.8	NEW	22.77	112 eP	23	30.00	-1.3	
LDF	153.18	1 ePKP	28	09.90	7.9X			eS	19	14.13			0.9s	32.89nm		4.8mb		
	0.8s	8.05nm				TRF	1.45	346 iP	18	55.75	-0.8	FFC	25.44	85 iPc	23	54.00	-2.9	
GRR	153.36	2 ePKP	28	10.60	8.4X	CRP	1.49	239 iP	18	56.49	-0.5		0.8s	18.00nm		4.7mb		
	0.8s	16.10nm																

	0.9s	6.36nm	4.4mb				0.8s	18.80nm	5.1mb			IZM	2.81	109	iPn	38	20.30	0.4
TNP	31.12	125 eP	24 53.30	55kmX		ZST	69.59	10 e(P)	29 33.70	-4.2		VLS	2.84	246 eP		38	20.20	0.0
	1.0s	18.33nm	4.8mb					e	29 56.90	90kmX		KGT	2.84	67 iPn		38	20.30	0.1
CLC	32.97	128 eP	25 02.00	-2.5		TCF	69.65	21 eP	29 33.70	-4.7		SMG	2.85	125 eP		38	20.00	-0.4
GSC	33.72	127 eP	25 09.00	-2.0			1.0s	13.00nm	4.9mb			OHR	2.93	307 iPn		38	24.60	3.1X
PV09	34.06	115 eP	25 11.20	-3.0		CD2	70.48	299 eP	29 38.90	-4.8		SRN	3.04	281 ePn		38	24.90	1.9
FRB	34.62	51 eP	25 14.00	-4.3		LFF	70.71	22 eP	29 40.60	-4.2		TPE	3.12	288 ePn		38	25.00	0.8
GOL	34.71	109 eP	25 17.50	-2.2			0.8s	26.85nm	5.3mb			KEK	3.17	277 eP		38	25.50	0.5
	1.0s	5.00nm	4.4mb			CAF	70.95	21 eP	29 41.90	-4.4		SKO	3.19	325 ePn		38	25.50	0.3
		eP	25 32.00	58kmX			0.8s	6.05nm	4.6mb			EDC	3.21	71 ePn		38	25.80	0.2
TPC	35.07	127 eP	25 20.00	-2.6		LPO	71.04	22 eP	29 42.40	-4.4		BNT	3.26	71 iPn		38	25.30	-0.9
ALO	38.21	115 eP	25 47.00	-2.2			0.8s	17.45nm	5.1mb			PHP	3.49	312 ePn		38	29.40	-0.1
	1.0s	4.25nm	4.3mb			GYA	73.15	295 P	29 55.40	-4.3		TIR	3.64	304 ePn		38	36.00	4.3X
SCH	41.08	61 eP	26 23.00	10.5				sP	30 16.00			DST	3.68	85 iPn		38	33.20	1.0
MDJ	47.89	288 eP	27 02.80	-4.4		LSA	76.48	309 P	30 16.40	-2.8		CIN	3.75	117 ePn		38	34.00	0.9
KEV	48.46	2 eP	27 19.00	7.7		TPT	76.79	178 iP	30 17.00	-3.3		DMK	3.83	49 iPn		38	34.00	-0.3
LHS	50.32	90 eP	27 20.00	-6.0			0.8s	20.00nm	5.2mb			CTT	3.90	62 ePn		38	34.80	-0.5
MAT	50.33	275 (P)	27 21.00	-5.1		RUV	77.00	178 iP	30 18.30	-3.1		VAM	3.97	176 eP		38	36.20	-0.1
	0.8s	15.67nm	5.1mb				0.8s	25.00nm	5.3mb			ITU	4.29	65 ePn		38	49.00	8.2X
CN2	50.37	291 iPd	27 20.50	-5.8		VAH	77.04	178 iP	30 18.60	-3.1				iSg	39 47.00			
	1.0s	100.00nm	5.8mb				0.8s	25.00nm	5.3mb			ISK	4.31	65 ePn		38	39.00	-2.1
SOD	50.85	2 iP	27 24.40	-5.2		IZI	77.96	1 eP	30 23.00	-3.7		NPS	4.33	161 eP		38	42.20	0.7
SNY	52.77	290 iPd	27 40.00	-4.4		BBTK	78.44	358 eP	30 26.00	-3.4		YLV	4.38	73 ePn		38	42.00	-0.2
	0.8s	20.00nm	5.2mb			MAIO	79.23	337 iPc	30 30.70	-3.0		IZI	4.41	76 ePn		38	42.00	-0.6
		pP	27 53.10	47kmX		SHL	79.94	306 iP	30 33.00	-4.8		GBZT	4.49	70 ePn		38	51.00	7.3X
KAF	56.12	2 eP	28 08.60	0.0		GUN	79.99	312 P	30 34.62	-3.7		KHL	4.53	102 ePn		38	46.00	1.7
NB2	56.36	11 P	28 04.30	-6.1			0.9s	46.00nm	5.4mb			HRT	4.67	70 ePn		38	47.80	1.6
	0.9s	3.60nm	4.4mb			KKN	80.31	313 P	30 36.14	-3.7		ALT	4.85	92 iPn		38	50.00	1.2
BJI	57.46	295 eP	28 13.50	-4.9		GKN	80.34	313 P	30 36.12	-3.8		GPA	5.03	78 ePn		38	52.00	0.6
	1.0s	14.00nm	5.0mb			PKI	80.47	313 P	30 36.64	-4.2		BUC1	5.22	17 eP		39	16.00	22.1X
HFS	57.46	10 eP	28 12.70	-5.5		DMN	80.54	313 P	30 37.52	-3.6		DRA	5.30	3 ePd		38	56.00	0.8
	0.4s	0.70nm	4.1mb				0.8s	31.00nm	5.3mb			MTUR	5.91	8 eP		39	04.00	0.2
Z	12s	0.08um	4.0MszX			CHG	83.18	297 eP	30 50.20	-4.4		CMP	5.95	8 ePd		39	03.00	-1.3
NUR	57.69	3 eP	28 14.00	-5.7		CHTO	83.18	297 iP	30 50.00	-4.6		COZ	5.95	3 ePd		39	03.50	-0.9
HHC	58.72	299 eP	28 22.80	-4.6			0.8s	5.49nm	4.7mb			BEO	6.01	336 e(Pn)		39	29.50	24.5X
BTO	59.57	300 eP	28 28.40	-4.8		QUE	83.50	329 eP	30 52.70	-3.7		ISR	6.09	18 eP		39	06.00	-0.2
EKA	60.02	21 Pd	28 32.00	-4.0		ZNT	85.98	356 eP	31 05.00	-3.5		TNR	6.28	3 ePc		39	08.00	-0.9
	0.9s	11.50nm	5.0mb			RMN	87.72	356 eP	31 13.50	-3.6		MLR	6.30	13 eP		39	09.00	-0.3
TIY	61.00	296 eP	28 38.60	-4.4		MBH	88.44	356 eP	31 17.00	-3.6		BZS	6.46	346 ePc		39	09.50	-1.9
NJ2	62.98	288 Pd	28 51.00	-5.1		SLR	143.67	3 iPKPc	38 00.10	-3.3		MGR	6.46	279 P		39	00.00	-11.5X
GTA	64.61	307 P	29 01.80	-5.1		SWZ	144.97	8 iPKPd	37 59.00	-6.5		DEV	6.54	354 ePc		39	21.00	8.4X
	0.8s	10.00nm	4.9mb				1.0s	21.00nm				CFR	6.61	27 eP		39	49.00	35.5X
		pP	29 17.20	56kmX			174 obs. associated				CVO	6.66	14 eP		39	14.00	-0.3	
		sP	29 23.00								VRI	6.82	17 ePc		39	17.00	0.5	
WMO	64.92	318 P	29 04.20	-4.6			NOV 26, 1990 21h 37m 35.33 ± 0.26s				BBTK	6.87	83 eP		39	23.00	5.6X	
XAN	65.61	297 P	29 08.20	-5.1			39.378 N ± 2.6km 23.882 E ± 2.3km				HFS	21.74	346 eP		42	28.00	1.2	
LZH	65.93	302 Pd	29 10.50	-5.0			DEPTH = 22.6 ± 2.7 km					0.4s	0.70nm			3.4mb		
	1.5s	28.00nm	5.1mb				3.8mb (3 obs.)				Z	12s	0.05um			3.1MszX		
		sP	29 32.00			AEGEAN SEA						23.07	344 P		42	37.60	-2.4	
		pP	29 43.50			ML 3.8 (ATH).						0.8s	2.00nm			3.7mb		
WHN	66.27	290 eP	29 13.00	-4.4		NEO	0.52	262 iP	37 44.00	-1.7		BCAO	35.12	189 ePd		44	30.50	1.3
MOX	66.65	13 iP	29 15.50	-4.2		PAIG	0.57	344 iPc	37 46.85	0.3			0.5s	3.00nm			4.5mb	
BRG	66.66	11 eP	29 15.00	-4.7				eS	37 56.76				S.D. = 1.0 on 62 of 72 obs.					
FLN	66.80	22 eP	29 16.00	-4.6		OUR	0.96	5 iPc	37 53.78	0.6			NOV 26, 1990 21h 43m 17.37 ± 0.83s					
	0.8s	10.75nm	4.9mb					eS	38 07.56				37.681 N ± 7.3km 23.086 E ± 10.1km					
Z	20s	0.20um	4.3Msz			PLG	1.05	341 iP	37 54.00	-0.7			DEPTH = 10.0km (geophysicist)					
KSP	66.89	10 eP	29 16.20	-5.0		AGG	1.26	254 ePd	37 56.88	-0.7			SOUTHERN GREECE					
LDF	67.02	22 eP	29 17.50	-4.5				eS	38 14.64				ML 2.6 (ATH).					
	0.8s	13.45nm	5.0mb			LIT	1.29	304 iPd	37 57.74	-0.4		ATH	0.58	60 ePg		43	28.70	-0.4
GRR	67.09	22 eP	29 18.30	-4.2				eS	38 15.12					eSg	43 36.80			
LPF	67.40	22 eP	29 20.50	-3.9		ATH	1.41	185 eP	37 59.00	-0.7		VLI	0.97	187 ePg		43	36.50	0.7
	0.8s	13.45nm	5.0mb			THE	1.44	331 eP	38 00.56	0.5		ITM	1.05	242 ePg		43	36.20	-1.0
PRU	67.59	11 eP	29 21.00	-4.6				iS	38 19.36			AGG	1.46	336 ePc		43	45.10	1.3
		e	29 36.50	56kmX		SOH	1.50	344 iPc	38 01.56	0.5		NEO	1.63	4 ePb		43	45.50	-0.7
KHC	68.35	12 eP	29 27.00	-3.4		EVR	1.68	255 eP	38 03.00	-0.7		VAM	2.44	158 ePb		44	02.50	4.6X
HAU	68.61	17 eP	29 27.30	-4.7		SRS	1.75	353 ePc	38 04.76	0.1		LIT	2.46	349 eP		43	58.20	0.0

NOV 26, 1990 22h 33m 52.56±0.75s
40.073 N ± 7.1km 27.482 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

EDC 0.40 47 ePg 34 00.30 -0.5
KGT 0.40 340 iPg 34 00.80 0.0
BNT 0.44 50 iPg 34 01.80 0.3
KCT 0.69 75 iPg 34 06.80 0.5
EZD 0.92 255 iPg 34 10.20 0.0
DST 1.00 117 iPg 34 11.40 -0.1
IZI 1.55 80 ePn 34 20.00 -0.3
S.D. = 0.4 on 7 of 7 obs.

NOV 26, 1990 22h 37m 58.34±1.84s
20.489 S ±18.0km 177.810 W ± 7.9km
DEPTH = 503.1 ± 23.6 km
4.8mb (18 obs.)
FIJI ISLANDS REGION (181)

AFI 8.72 42 eP 40 00.00 -3.6X
DZM 14.76 261 iPc 41 09.00 2.5
PMO 28.98 84 iP 43 18.40 0.2
VAH 29.17 85 iP 43 19.60 -0.2
TPT 29.24 84 iP 43 20.60 0.1
RUV 29.41 85 iP 43 22.00 0.1
CTA 33.67 264 iPd 43 58.30 0.2
PMG 35.52 283 eP 44 14.00 0.4
STK 37.96 244 iPd 44 34.90 1.4
ASPA 44.70 257 iPd 45 27.10 -0.5
WB5 44.76 262 iPd 45 27.10 -1.0
WRA 44.78 262 P 45 26.00 -2.2
FORR 49.43 247 iPc 46 03.00 -0.4
KNA 50.82 266 iPd 46 12.80 -1.0
WARB 51.00 252 eP 46 14.30 -0.8
KLB 58.22 245 eP 47 04.00 -1.9
MUN 59.49 244 eP 47 13.00 -1.5
MAT 70.31 324 (P) 48 21.00 -1.2
NJ2 80.01 310 Pd 49 16.20 0.2
MDJ 80.61 325 Pd 49 19.50 0.6
SNY 82.31 320 eP 49 24.80 -2.8
CN2 82.40 322 Pd 49 27.90 -0.1
WHN 82.58 306 ePc 49 30.00 0.8
TIA 83.40 312 eP 49 33.10 -0.1
TTA 84.90 10 eP 49 39.50 -0.6
PMR 84.97 13 P 49 40.00 -0.3
BJI 86.01 315 eP 49 46.00 0.2
TIY 87.40 312 eP 49 54.00 1.3
FBA 88.19 12 eP 49 54.00 -1.7
IMA 88.20 10 eP 49 54.70 -1.2
XAN 88.27 307 iPc 49 57.00 0.2
KMI 89.50 297 Pc 50 04.50 1.7
BTO 90.40 314 eP 50 07.00 0.5
CHG 90.41 290 iPd 50 08.00 1.2
CD2 90.93 303 eP 50 10.10 1.0
LZH 92.90 307 Pd 50 18.50 0.3
GTA 97.10 309 Pc 50 37.50 0.4
QUE 121.35 294 ePKP 55 55.50 -0.3
SOB1 128.36 121 ePKP 56 07.70 -1.8X

KAF 135.19 344 ePKP 56 21.10 0.1
NUR 136.98 344 ePKP 56 25.00 0.5X
NB2 138.99 353 PKP 56 17.80 -10.4X
HFS 139.56 351 ePKP 56 20.50 -8.7X
EKA 144.98 5 PKP 56 39.00 0.3
LWI 145.49 232 iPKPd 56 42.60 1.5
KAS 146.12 315 ePKP 56 43.50 2.3X
KRA 147.31 339 ePKPd 56 45.00 2.4
BBTK 147.52 313 ePKP 56 46.00 2.5X
WIT 147.55 355 ePKP 56 47.00 4.1X
VRI 147.65 327 ePKPd 56 46.00 2.6X
KSP 147.73 343 iPKPd 56 46.70 3.4X
GLH 147.83 299 ePKP 56 48.00 4.0X
CLL 148.09 347 iPKP 56 47.20 3.3X
BRG 148.29 346 iPKPd 56 47.80 3.6X
MLR 148.31 327 ePKPc 56 48.00 3.4X
WTS 148.35 355 ePKP 56 48.00 3.8X
ZNT 148.46 299 iPKPd 56 49.00 3.9X
PRU 148.97 344 PKPd 56 49.30 4.0X
MOX 149.00 348 iPKP 56 50.00 4.7X
MBH 149.08 294 iPKPd 56 50.50 4.5X
ENN 149.64 355 ePKP 56 51.50 5.3X
MEM 149.79 355 PKPc 56 51.70 5.3X
ZST 149.85 340 e(PKP) 56 51.80 5.2X
GRF 149.99 348 iPKPd 56 52.30 5.5X
KHC 150.00 345 PKP 56 53.00 -8.9X
DOU 150.40 357 PKPc 56 53.10 5.7X
FLN 151.71 4 ePKP 56 55.50 6.1X
CDF 151.84 353 ePKP 56 56.10 6.4X
LDF 151.90 3 ePKP 56 56.00 6.3X
GRR 152.06 4 ePKP 56 56.40 6.5X
HAU 152.34 354 ePKP 56 57.00 6.6X
LPF 152.40 5 ePKP 56 57.50 7.1X
S.D. = 1.2 on 41 of 72 obs.

NOV 26, 1990 22h 46m 12.64±0.79s
39.331 N ± 5.6km 23.882 E ± 6.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.9 (ATH). 2.5 (THE).

NEO 0.51 267 ePb 46 22.00 -1.0
PAIG 0.62 345 ePd 46 25.42 0.4
OUR 1.00 4 eP 46 32.00 0.4
PLG 1.09 342 ePg 46 32.50 -0.7
AGG 1.25 256 eP 46 35.26 -0.5
LIT 1.32 306 ePc 46 36.42 -0.6
ATH 1.36 186 ePb 46 37.40 -0.2
THE 1.48 332 eP 46 40.26 1.0
SOH 1.54 345 eP 46 39.94 -0.3
EVR 1.67 256 ePb 46 43.00 0.9
SRS 1.80 353 iP 46 43.58 -0.3
KZN 1.90 302 ePn 46 44.20 -1.2
KNT 1.98 338 eP 46 46.78 0.3
GRG 1.98 326 eP 46 46.78 0.2
VAY 2.23 334 ePn 46 55.30 5.2X
ALN 2.28 46 eP 46 50.54 -0.3

IGT 2.76 275 eP 46 59.78 2.1
S.D. = 0.9 on 16 of 17 obs.

NOV 27, 1990 00h 24m 41.72±1.89s
5.703 S ±10.3km 129.667 E ±11.9km
DEPTH = 97.8 ± 17.0 km
5.0mb (5 obs.)
BANDA SEA (280)

MTN 7.24 169 eP 26 27.40 0.7
KUPT 7.45 233 ePd 26 29.50 -0.1
KNA 10.02 185 eP 27 04.50 0.0
WB5 14.82 162 eP 28 03.70 -3.8X
QIS 17.64 148 iPd 28 42.00 -0.7
ASPA 18.32 168 iPd 28 50.00 -1.1
FORR 25.06 183 eP 29 58.00 -0.5
KLB 28.07 202 eP 30 26.00 0.0
MUN 29.01 204 eP 30 34.50 0.0
NWA0 29.46 202 eP 30 39.00 0.5
BWA 33.44 151 eP 31 14.60 1.3
CAN 34.44 151 eP 31 22.00 0.1
CHG 38.86 310 eP 32 00.10 0.8
GUN 53.86 311 P 33 58.56 1.1
PKI 54.04 310 P 33 57.78 -1.0
KKN 54.25 310 P 33 59.58 -0.7
DMN 54.29 310 P 34 00.74 0.1
GKN 54.85 310 P 34 03.98 -0.5
QUE 69.78 305 eP 35 49.40 5.5X
S.D. = 0.8 on 17 of 19 obs.

NOV 27, 1990 00h 28m 28.05±0.60s
3.322 N ± 4.3km 98.401 E ± 5.3km
DEPTH = 144.9 ± 5.5 km
5.1mb (41 obs.)
NORTHERN SUMATERA (706)

KLM 3.25 94 eP 29 19.50 0.5
PPI 4.25 152 eP 29 31.20 -1.0
SNG 4.42 30 eP 29 34.50 0.0
NNT 9.30 8 eP 30 40.60 0.5
NST 12.39 8 eP 31 23.00 2.4
BDT 13.85 2 eP 31 41.30 1.9
TRT 17.93 128 ePc 32 31.10 1.3
BKB2 19.04 104 iPd 32 44.80 3.3X
QIZ 19.21 35 eP 32 44.00 0.7
KOD 21.88 289 eP 33 11.10 0.5
KMI 22.07 11 Pc 33 14.00 1.7
SHL 22.99 345 iP 33 20.00 -1.1
HYB 23.99 307 iPd 33 31.00 0.3
GYA 24.33 18 P 33 33.80 -0.1
CD2 27.90 10 eP 34 04.90 -1.6
POO 28.39 304 eP 34 12.00 1.0
WHN 30.99 27 Pc 34 34.00 0.2
XAN 32.10 17 Pc 34 41.50 -2.0
NDI 32.29 324 iPd 34 43.00 -2.1
LZH 32.99 8 iPc 34 50.40 -1.0
LZH 32.99 8 iPc 34 50.40 -1.0

1.2s	1063.00nm	6.5mb	X	1.2s	21.00nm	4.9mb	KRA	0.52	96	iPg	24	57.10	0.1				
	pPP	35	25.00							iSg	25	04.80					
SSE	35.00	35	eP	35	05.20	-3.2X	HFS	0.61	267	eP	24	59.00	0.3				
KNA	35.52	123	eP	35	11.50	-1.4				eS	25	07.00					
GTA	35.94	2	P	35	15.40	-1.0	Z	12s	16.30nm	5.1mb	SPC	1.18	142	iPn	25	08.60	0.1
	0.8s	20.00nm	4.9mb				CLL	84.54	321	iP	40	46.40	0.5				
		PcP	37	41.00			NB2	85.75	331	P	40	51.10	-0.7				
		ScS	45	19.00				0.9s	18.80nm	4.9mb							
TIY	36.56	19	iPd	35	21.70	0.1	HAU	88.93	318	eP	41	07.60	0.2				
BAL	38.00	154	eP	35	34.00	0.4		0.8s	9.40nm	4.9mb							
MUN	38.97	156	iPd	35	43.00	1.3	MEM	88.98	320	P	41	08.20	0.7				
HHC	39.20	16	eP	35	42.80	-0.8	DOU	89.92	320	Pd	41	13.10	1.2				
KLB	39.31	153	eP	35	45.10	0.6		0.7s	13.30nm	5.1mb							
	0.4s	13.00nm	5.0mb				SNF	90.08	320	P	41	13.30	0.7				
BJI	39.94	21	Pc	35	50.50	1.0	LBF	90.62	317	eP	41	15.80	0.5				
	0.7s	140.00nm	5.8mb					1.0s	19.00nm	5.2mb							
NWAO	40.22	155	eP	35	52.70	0.8	LOR	90.67	317	eP	41	15.80	0.3				
COOL	40.34	149	eP	35	53.00	0.0		0.8s	14.80nm	5.1mb							
KSH	41.33	333	eP	36	06.00	4.9X	SMF	90.74	317	eP	41	16.20	0.4				
WMO	41.43	348	Pd	36	01.50	-0.3		1.0s	19.00nm	5.2mb							
WB5	42.18	125	iP	36	08.00	-0.2	SSF	90.93	317	eP	41	17.40	0.8				
		eScP	41	40.30				1.0s	10.00nm	4.9mb							
		eS	42	12.50			AVF	91.06	317	eP	41	17.80	0.6				
ASPA	43.76	130	iPd	36	20.30	-0.7		1.0s	20.00nm	5.2mb							
	0.5s	24.20nm	5.1mb				BGF	91.43	317	eP	41	19.90	0.9				
		iPcP	38	36.80				1.0s	22.00nm	5.3mb							
		iPcS	41	56.50			MAF	91.66	316	eP	41	20.80	0.7				
		iS	42	38.10				1.2s	20.85nm	5.2mb							
		iScS	46	05.20			TCF	91.90	316	eP	41	22.10	0.9				
SNY	44.48	27	Pc	36	26.00	-0.4		1.0s	9.00nm	4.9mb							
	1.0s	40.00nm	5.0mb				RJF	92.50	315	eP	41	25.10	1.2				
OIS	46.86	122	iPc	36	45.60	0.0		0.8s	5.35nm	4.8mb							
CN2	46.88	27	Pc	36	44.80	-0.6	LPO	92.81	315	eP	41	26.70	1.3				
	1.0s	50.00nm	5.1mb					1.0s	20.00nm	5.3mb							
		epP	37	15.50	134kmX		EKA	93.85	326	P	41	32.00	2.1				
MAIO	48.58	317	eP	36	58.00	-0.9		0.9s	15.50nm	5.3mb							
MAT	49.33	43	iPc	37	03.40	-1.1	MBC	97.64	9	ePd	41	47.10	0.3				
	1.0s	15.00nm	4.7mb					0.6s	6.00nm	5.3mb							
MDJ	49.44	29	eP	37	05.00	-0.1	INK	100.11	17	ePdiff	41	58.00	0.0X				
	0.8s	20.00nm	4.9mb				YKA	109.74	16	ePKP	46	42.20	-0.7				
PMG	50.20	105	iPc	37	13.00	1.6		0.6s	0.40nm								
SHI	50.70	306	eP	37	14.00	-1.2	YKA	109.74	16	ePdiff	42	41.90	1.0				
CTA	52.41	118	iPc	37	27.90	-0.1		0.9s	0.80nm								
	1.0s	48.00nm	5.2mb				TNP	127.24	35	ePKP	47	18.50	0.9				
RMQ	56.95	125	iPc	38	01.60	0.9		1.0s	5.00nm								
	1.1s	112.00nm	5.7mb				BW06	127.61	26	iPKP	47	18.30	0.1				
TOO	59.66	138	iPd	38	20.40	1.0		1.0s	7.00nm								
BWA	60.14	133	eP	38	23.80	1.1	SOB1	139.14	260	ePKP	47	36.90	-3.6X				
CAN	60.98	134	eP	38	26.20	-2.2	BAO	144.74	247	ePKPd	47	50.00	-0.3				
COO	61.11	128	iPc	38	28.00	-1.4	SIV	156.20	237	PKP	48	08.00	0.7				
	0.9s	56.00nm	5.5mb				CNCB	161.06	224	PKP	48	16.00	2.6X				
SVO	62.45	102	P	38	37.00	-1.4	LPB	161.33	224	ePKP	48	15.00	1.5				
HNR	62.62	102	P	38	37.00	-2.5		S.D. = 1.1	on 97 of 106 obs.								
MBH	65.45	301	eP	38	57.00	-0.7											
PRNI	65.46	302	eP	38	57.00	-0.9											
BBTK	69.28	311	eP	39	20.00	-1.7											
KRI	70.77	251	eP	39	18.00	-13.1X											
IZI	71.85	311	eP	39	36.00	-1.2											
YLV	71.97	312	iP	39	36.80	-1.1											
BUL	72.28	248	iPc	39	38.00	-2.1											
	1.0s	10.00nm	4.5mb														
SLR	73.66	242	iPc	39	51.00	3.0X											
		i	40	20.00			NEO	0.41	260	eP	44	32.70	-0.1				
VR1	74.90	317	ePc	39	54.50	-0.2											
MLR	75.37	316	ePc	39	57.00	-0.5	PAIG	0.55	355	ePc	44	35.72	0.2				
SWZ	76.54	241	iPc	40	01.00	-3.4X											
		i	41	29.50			OUR	0.97	11	ePc	44	42.76	-0.1				
LIT	77.09	310	ePc	40	05.40	-1.7											
KAF	78.75	333	iP	40	15.20	-0.4	PLG	1.02	347	eP	44	43.50	-0.2				
	0.6s	34.30nm	5.3mb				AGG	1.15	252	eP	44	46.08	0.0				
		esP	40	15.80													
NUR	79.15	331	iP	40	17.20	-0.6	LIT	1.20	307	ePd	44	47.17	0.3				
	0.7s	20.00nm	5.0mb														
BCAO	79.66	274	iPc	40	23.10	1.5											
	0.5s	18.00nm	5.1mb				ATH	1.41	181	eP	44	50.00	-0.1				
		i	40	52.90			SOH	1.47	348	ePc	44	50.16	-0.8				
		i	41	07.10													
SPC	79.75	319	eP	40	21.00	-0.6	SRS	1.74	356	eP	44	54.12	-0.7				
SOD	79.98	338	iP	40	22.10	-0.1	KZN	1.78	302	eP	44	59.00	3.5X				
KRA	80.05	320	ePd	40	23.00	0.1	KNT	1.89	340	eP	44	58.00	0.9				
	0.5s	27.00nm	5.2mb														
KEV	80.51	340	eP	40	24.00	-0.9											
ZST	81.73	318	eP	40	31.40	-0.3	ALN	2.33	49	eP	45	03.76	0.4				
KSP	82.45	321	iP	40	35.70	0.3		S.D. = 0.6	on 11 of 12 obs.								
UPP	82.50	330	iPc	40	35.10	-0.3											
PRU	83.52	320	eP	40	41.20	0.3											
BRG	83.94	321	iPd	40	43.60	0.7											
															</		

27d 01b

		Pg	54	58.30		ML 2.2 (GEN).	CEY	2.45	321	iPn	38	40.40	2.4X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Sg	55	36.80			IVA	2.58	111	iSn	38	42.00	2.2X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
HAU	3.09	357	Pn	54 49.40	-0.1	RRL	0.11	91	P	08 39.60	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		Pg	54	58.00					S	08 41.66		LJU	2.65	327	iPnd	38 43.00	2.3X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sg	55	38.20		BHB	0.46	100	P	08 45.84	-0.2				eSn	39 16.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
BGF	3.11	303	Pn	54 50.30	0.5				S	08 53.02		ULC	2.69	134	iPn	38 43.00	1.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Pg	54	59.20		RSP	0.50	63	P	08 46.87	0.0	ARV	2.70	264	Pd	38 42.30	0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sg	55	35.70					S	08 54.57		DUI	2.71	217	P	38 42.00	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
SLE	3.12	24	ePc	54 50.30	0.3	PZZ	0.54	141	P	08 47.29	-0.2	PVY	2.75	116	iPn	38 45.00	2.8X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
MAF	3.13	296	Pn	54 50.50	0.3				S	08 55.19					iSn	39 20.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Pg	54	59.60		LSD	0.65	35	P	08 49.76	-0.1	TRI	2.76	313	iPnc	38 44.20	2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sg	55	36.60					S	08 58.37					i(Sn)	39 18.50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
CAF	3.24	272	Pn	54 51.90	0.2	STV	0.84	143	P	08 53.74	0.2	SDA	2.79	130	iPgc	38 44.60	1.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sn	55	29.30			S.D.	= 0.3	on	6 of 6 obs.		AQU	2.80	239	P	38 44.06	1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sg	55	40.20								BEQ	2.91	69	iPn	38 44.50	0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
TCF	3.39	295	Pn	54 53.80	0.0	% NOV 27, 1990 04h 18m 59.96±1.52s									iPgc	38 52.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Sn	55	33.20		44.681 N ± 6.5km				6.824 E ±14.5km					iSn	39 19.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Sg	55	47.30		DEPTH = 10.0km (geophysicist)						BCI	2.92	119	iPnc	38 47.70	3.2X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CDF	3.52	7	Pn	54 54.90	-0.8	FRANCE (538)						VOY	2.92	319	iPn	38 46.50	1.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
RJF	3.64	278	Pn	54 57.90	0.5	ML 2.0 (GEN).						SDI	2.98	225	P	38 45.50	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sn	55	34.60								ASS	3.00	256	Pc	38 46.80	1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Sg	55	52.20		RRL	0.24	353	P	19 05.65	0.4	AZI	3.00	233	Pc	38 46.80	1.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
CTI	3.71	71	P	54 55.70	-2.8X				S	19 09.24		PUK	3.00	126	iPnc	38 50.10	4.5X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LSF	3.82	292	Pn	54 59.60	-0.3	PZZ	0.27	131	P	19 06.27	0.6	RSM	3.02	273	P	38 48.50	2.6X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Pg	55	10.70					S	19 10.17		LACI	3.17	133	iPnd	38 50.20	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LPO	3.88	268	Pn	55 01.30	0.5	BHB	0.35	63	P	19 07.60	0.4	RFI	3.21	218	P	38 50.90	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
SOTA	3.93	53	e(Pn)	55 05.00	3.4X				S	19 12.01		MNS	3.24	244	P	38 50.10	0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		iSn	56	01.00		RSP	0.56	33	P	19 10.68	-0.8	KKS	3.29	121	iPn	38 53.00	3.2X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LFF	4.18	272	Pn	55 05.10	0.1	STV	0.57	140	P	19 11.19	-0.3	CRE	3.40	268	Pd	38 53.40	2.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
EPF	4.92	250	Pn	55 13.70	-1.9	ENR	0.62	137	P	19 12.22	-0.4	SGO	3.44	197	P	38 56.80	5.0X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
MFF	5.03	292	Pn	55 16.90	-0.2		S.D.	= 0.7	on	6 of 6 obs.					eSn	39 30.90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
DOU	5.35	346	iP	55 21.10	-0.6							SFI	3.46	273	P	38 54.00	1.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	0.3s	6.90nm		4.8mb		NOV 27, 1990 04h 37m 58.59±0.10s						TIR	3.46	135	iPnd	38 53.50	1.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
MEM	5.70	356	Pc	55 25.50	-1.1	43.853 N ± 1.6km				16.633 E ± 1.2km		RMP	3.54	236	P	38 54.00	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
SNF	5.81	345	P	55 27.20	-0.8	DEPTH = 24.0km (7 depth phases)						PHP	3.54	126	iPnd	38 55.60	2.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LPF	6.14	303	Pn	55 32.00	-0.7	5.1mb (50 obs.)				5.6msz (9 obs.)		PGD	3.55	272	P	38 55.00	1.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
GRR	6.21	307	Pn	55 32.00	-1.7	YUGOSLAVIA (383)						RDP	3.56	235	P	38 54.20	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	S.D.	= 0.8	on	48 of 54 obs.		ML 5.6 (ZAG), 5.6 (KBA), 5.5 (TTG). Ten people injured and damage (VIII) in the Dinara Mountains. Felt (IV) at Titograd, Niksic, Budvo and Herceg Novi. Also felt at Belgrade. Landslides stopped rail traffic on main line between Split and centrol Yugoslavia. Felt (IV) at Trieste, Italy. Also felt at Pordenone and Trento, Italy. CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 23C Centroid Location: Origin Time 04:38: 1.0 0.6 Lat 43.42N 0.08 Lon 16.44E 0.07 Dep 15.0 BDY Half-duration 2.5 Moment Tensor: Scale 10**17 Nm Mrr= 1.75 0.07 Mtt=-1.48 0.12 Mtf=-0.27 0.08 Mrt= 1.74 0.22 Mrf=-0.48 0.20 Mtf= 0.89 0.06 Principal Axes: T Val= 2.52 Plg=67 Azm= 5 N 0.15 7 112 P -2.67 22 205 Best Double Couple:Mo=2.6*10**17 NP1:Strike=308 Dip=24 Slip= 108 NP2: 109 67 82																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</

GRI	5.03	182	P	iSn	40	16.00		STV	6.72	277	P	39	37.45	-0.9	APE	9.58	132	eP	40	15.50	-2.6X
VAY	5.06	118	iPnc	id	39	14.00	-0.5	AURF	6.73	274	P	39	38.10	-0.4	LOR	9.59	295	Pn	40	16.00	-2.2
SQTA	5.08	313	ePn	iSn	39	17.00	0.8	DIM	6.78	102	iPd	39	39.00	0.0				Sn	42	00.00	
				iS	39	17.70	1.7	TOUF	6.78	275	P	39	40.12	0.8	ISK	9.60	103	iP	40	16.20	-2.1
IGT	5.13	146	iPd	iS	40	15.80		BUC1	6.78	83	ePc	39	42.00	2.8X	LBL	9.66	283	P	40	18.03	-1.1
				iS	40	15.46	-0.4	BHB	6.79	282	P	39	36.22	-3.1X	IZM	9.69	121	iP	40	17.00	-2.6X
KKB	5.14	110	iP	iS	40	12.90		ZLA	6.82	305	ePd	39	40.20	0.5	PLH	9.76	321	ePnd	40	20.90	0.5
GRG	5.16	122	iPc	iS	40	12.90		CVT	6.82	207	P	39	41.60	1.9	SSF	9.77	294	Pn	40	18.00	-2.6X
KZN	5.21	131	eP	iS	40	12.90		RSP	6.83	284	P	39	36.32	-3.6X	GSH	9.79	318	ePnd	40	20.30	-0.6
BOB	5.24	283	P	iS	40	12.90		KDZ	6.83	106	iPc	39	39.00	-0.8				eSg	42	05.10	
MDI	5.29	294	P	iS	40	12.90		BUC	6.83	82	ePd	39	40.00	0.2	AVF	9.81	292	Pn	40	18.80	-2.3
KNT	5.35	118	ePc	iS	40	12.90		MLR	6.84	73	ePc	39	41.00	0.9	AGO	9.82	288	P	40	19.57	-1.9
OSS	5.39	304	ePc	iS	40	12.90		MEU	6.87	191	P	39	39.20	-1.2	PYM	9.87	286	P	40	20.58	-1.6
DRA	5.54	79	iPd	iS	40	12.90		PZZ	6.88	279	P	39	37.56	-3.2X	SMG	9.87	125	eP	40	20.20	-1.8
PGB	5.66	101	iP	iS	40	12.90		SLE	6.90	307	ePd	39	40.00	-0.9	MEM	9.89	317	iP	40	20.66	-1.6
KHC	5.68	339	iPd	iS	40	12.90		GRF	6.92	329	iPd	39	40.50	-0.6				i	40	22.79	
				e	39	30.00					e	40	14.80					iS	42	09.25	
MMB	5.69	111	iPc	e	39	30.00		PZI	6.94	191	P	39	40.20	-1.2	DST	9.92	111	iP	40	22.70	-0.1
THE	5.70	122	ePc	e	39	30.00		FAI	6.94	200	P	39	43.90	2.5X	GBZT	9.97	103	iPc	40	22.40	-1.0
				iS	40	29.50		LSO	6.95	287	P	39	38.89	-2.8X	YLV	10.01	105	iP	40	23.20	-0.8
COZ	5.70	72	ePc	iS	40	29.50		KSP	7.00	358	iPn	39	42.00	-0.1	ENN	10.03	317	eP	40	24.50	0.3
FUR	5.70	321	iPnc	iS	40	29.50		CALN	7.05	273	P	39	43.08	0.0		0.8s	346.00nm			6.7mb	X
MSI	5.70	189	P	iS	40	29.50		CVO	7.06	71	ePd	39	44.50	1.4	BGF	10.10	290	Pn	40	23.20	-2.0
VDL	5.71	300	ePd	iS	40	29.50					e	53	23.50		GRC	10.11	295	P	40	24.64	-0.7
PGF	5.73	259	Pn	iS	40	29.50		CGL	7.09	233	P	39	43.40	-0.2	HRT	10.12	103	iP	40	24.20	-1.3
TNR	5.73	69	iPc	iS	40	29.50		RDO	7.11	109	eP	39	43.50	-0.3	IZI	10.17	106	eP	40	25.70	-0.5
LIT	5.75	129	iPc	iS	40	29.50		STU	7.12	316	iPn	39	43.00	-0.9	MAF	10.24	288	Pn	40	25.00	-2.1
				eS	40	30.82		RRL	7.14	282	P	39	41.96	-2.4				Sn	42	15.60	
ATN	5.75	189	P	eS	40	30.82		ISR	7.20	76	ePc	39	46.00	0.9	VAM	10.25	143	eP	40	18.30	-9.0X
USI	5.76	208	P	eS	40	30.82		BNI	7.23	283	Pd	39	43.40	-2.1	DOU	10.32	311	iPc	40	29.60	1.4
SRS	5.83	116	ePc	eS	40	30.82		EMS	7.23	291	ePd	39	45.70	0.1				S	42	44.00	
SOH	5.83	119	ePc	eS	40	30.82		HOF	7.23	335	eP	39	44.60	-0.8	WTS	10.47	325	eP	40	29.50	-0.7
PCP	5.86	280	P	eS	40	30.82		FEL	7.24	307	P	39	45.42	-0.2		0.9s	326.00nm			6.6mb	X
SPC	5.89	24	ePn	eS	40	30.82		FRF	7.24	271	Pn	39	44.80	-0.8	CAF	10.49	281	Pn	40	28.20	-2.3
WET	5.89	335	iPnc	eS	40	30.82		BRG	7.26	346	iPnc	39	44.80	-1.0				Sn	42	24.00	
VAI	5.94	293	P	eS	40	30.82					e	41	44.00		TCF	10.49	288	Pn	40	28.60	-2.0
				eSn	40	32.90		BBS	7.34	303	P	39	46.95	-0.1				Sn	42	24.30	
TMA	5.95	295	ePd	eSn	40	32.90		LMR	7.37	269	Pn	39	46.20	-1.1	SNF	10.72	313	iPd	40	34.57	1.0
CKI	6.04	278	P	eSn	40	32.90					Sn	41	09.00		GPA	10.77	105	iP	40	34.80	0.4
FIN	6.08	276	P	eSn	40	32.90		JMB	7.41	97	iPc	39	47.00	-0.9	UCC	10.84	314	P	40	34.00	-1.2
MNO	6.09	195	P	eSn	40	32.90		VRI	7.45	71	ePc	39	48.50	0.0				S	42	49.00	
BMR	6.14	49	ePc	eSn	40	32.90		LRG	7.46	270	Pn	39	48.00	-0.6	RJF	10.88	283	Pn	40	35.20	-0.7
SAX	6.14	306	ePc	eSn	40	32.90					Sn	41	11.00		LSF	10.95	288	Pn	40	35.00	-1.9
PLG	6.14	122	eP	eSn	40	32.90		PTT	7.53	62	eP	39	53.00	3.4X				Sn	42	33.70	
LLS	6.17	302	ePc	eSn	40	32.90		ALN	7.57	110	ePc	39	50.34	0.2	NPS	11.02	138	eP	40	33.80	-4.0X
CMP	6.17	74	iPd	eSn	40	32.90		MOX	7.60	335	iPn	39	50.00	-0.6	LPO	11.11	280	Pn	40	38.20	-0.8
PLD	6.17	104	iPc	eSn	40	32.90					iSn	41	14.00		WIT	11.14	327	eP	40	41.00	1.7
GIB	6.18	199	Pd	eSn	40	32.90					iSg	42	09.00		KHL	11.18	115	iP	40	42.00	1.9
MTUR	6.18	74	ePc	eSn	40	32.90		LOMF	7.71	300	P	39	51.86	-0.4	ALT	11.19	111	iP	40	41.20	1.0
				e	53	02.50		MOF	7.74	304	P	39	52.64	-0.1	DBN	11.26	321	eP	40	42.00	1.0
EVR	6.28	140	eP	e	53	02.50		CLL	7.85	343	iPn	39	53.20	-0.9				e(S)	42	44.00	
PRU	6.30	348	Pc	e	53	02.50					eSn	41	18.00		BSD	11.32	355	iP	40	48.00	6.2X
	Z	12s	2.50um					PTS	7.88	208	P	39	56.10	1.6	LFF	11.43	281	Pn	40	43.00	-0.3
	N	13s	73.00um					WLS	7.89	309	P	39	53.74	-1.0	ARG	11.64	127	eP	40	47.00	0.8
	E	13s	1.50um					ECH	7.90	307	P	39	53.99	-0.9	EPF	11.88	272	Pn	40	50.00	0.5
IMI	6.32	274	P	S	40	48.00		CDF	7.94	308	Pn	39	54.20	-1.2	MFF	12.15	289	Pn	40	51.00	-2.0
RAC	6.32	9	ePn	S	40	48.00		BSF	7.94	304	Pn	39	54.50	-1.0	EBR	12.32	261	eP	41	07.00	11.7X
				i	39	47.80		ATH	7.95	135	eP	39	54.00	-1.5				(S)	43	08.00	
				i	40	49.00		GWf	8.06	313	P	39	56.13	-0.9	ELL	12.36	121	iP	40	59.20	3.1X
ROB	6.33	277	P	i	40	49.00		TLB	8.22	81	eP	39	58.50	-0.8	BCK	12.37	116	iP	40	57.00	1.0
RZN	6.33	107	iPc	i	40	49.00					e	53	38.00		LDF	12.53	298	Pn	40	57.30	-0.8
PVL	6.36	93	eP	i	40	49.00		EZN	8.28	116	iP	40	00.30	0.3	KSL	12.57	124	eP	41	01.00	2.3
VLS	6.41	151	eP	i	40	49.00		HAU	8.28	304	Pn	39	59.20	-1.0	BBTK	12.67	103	eP	41	01.00	0.8
AGG	6.45	136	ePd	i	40	49.00					Sn	41	29.30		FLN	12.80	299	Pn	41	01.00	-0.8
				eS	40	46.82		CFR	8.34	77	eP	39	59.50	-1.4	KAS	12.87	95	eP	41	03.00	0.3
OUR	6.50	120	eP	eS	40	46.82					e	53	40.00		GRR	12.95	297	Pn	41	03.00	-0.7
MMK	6.53	293	ePc	eS	40	46.82		PSN	8.36	87	eP	40	00.00	-1.2	LPF	12.99	295	Pn	41	02.60	-1.6
SAOF	6.56	274	P	eS	40	46.82		IAS	8.37	63	eP	40	11.00	9.7X	ECHE	13.82	258	eP	41	15.90	0.7
PAIG	6.56	124	ePd	eS	40	46.82		DMK	8.42	100	iP	40	03.00	0.9	ETOR	14.15	264	eP	41	20.40	0.7
ERC	6.57	209	P	eS	40	46.82		TNS	8.47	322	ePnc	40	02.30	-0.5	KVT	14.59	94	iP	41	26.90	1.5
KRA	6.61	19	ePc	eS	40	46.82					eSn	41	37.40		PPCY	15.08	121	eP	41	29.00	-2.6X
				e	53	02.50		PRK	8.57	119	eP	40	03.30	-0.7	CSS	15.64	119	eP	41	41.30	2.3
	Z	15s	361.00nm					VITF	8.60	304	P	40	04.38	-0.1	GUD	15.72	265	eP	41	41.20	1.1
	E	15s	58.90um								e	40	04.38	-0.1	ENIJ	15.90	251	eP	41	45.50	3.1X
				i	39	38.30		VLI	8.60	144	eP	40	01.50	-3.0X	TOL	15.90	263	eP	41	41.00	-1.4

27d 04h									
ECOG	16.68	254	eP	41	56.90	4.6X			
YRH	16.70	310	eP	41	52.50	0.2			
	1.0s	116.00nm			5.0mb				
EKA	17.15	319	P	42	01.00	3.0X			
	1.2s	90.90nm			4.8mb				
ESK	17.16	319	ePc	42	01.00	2.8X			
	0.5s	86.00nm			5.1mb				
ODD1	17.19	343	eP	42	04.00	5.4X			
ESY	17.24	321	eP	42	01.20	2.1			
	0.9s	104.00nm			5.0mb				
EPLA	17.30	265	eP	42	04.00	4.0X			
EBL	17.35	320	eP	42	01.90	1.4			
	0.9s	81.00nm			4.9mb				
NUR	17.37	13	eP	42	00.00	-0.7			
	0.7s	89.40nm			5.0mb				
		e		47	45.00				
ECP	17.44	307	eP	42	09.20	7.6X			
	1.0s	93.00nm			4.9mb				
EDI	17.50	321	eP	42	02.20	-0.1			
	1.0s	134.00nm			5.0mb				
NB2	17.52	351	P	42	00.80	-1.8			
	0.9s	91.30nm			4.9mb				
ETA	17.53	308	eP	42	06.50	3.8X			
	1.0s	81.00nm			4.8mb				
EHOR	17.60	257	eP	42	10.70	7.0X			
EDU	17.79	322	eP	42	06.90	0.9			
	1.0s	104.00nm			4.9mb				
BHL	17.80	118	P	42	05.00	-1.3			
		S		45	16.00				
BER	17.90	342	eP	42	09.50	2.2			
ADI	18.06	120	eP	42	10.00	0.5			
HLW	18.23	135	eP	42	11.00	-0.5			
		eS		45	34.00				
EJIF	18.41	254	eP	42	21.10	7.3X			
HYA	18.43	343	iPc	42	15.00	1.2			
SRO	18.44	254	eP	42	18.00	3.8X			
SUE	18.63	342	eP	42	17.00	0.7			
OJEN	18.64	253	eP	42	22.00	5.4X			
MOMI	18.65	254	eP	42	20.00	3.3X			
PLAT	18.78	253	eP	42	19.00	0.7			
PTO	18.79	270	eP	42	22.00	3.7X			
		eS		45	38.00				
JVI	18.92	123	eP	42	19.50	-0.6			
SALJ	19.07	122	Pc	42	20.94	-1.0			
JARJ	19.08	121	Pc	42	20.93	-1.1			
KAF	19.16	14	iP	42	21.40	-1.2			
	0.9s	97.50nm			5.1mb				
		eS		42	23.50				
DSI	19.19	123	eP	42	22.00	-1.3			
MASJ	19.29	122	Pc	42	23.01	-1.5			
LISJ	19.49	124	Pc	42	25.29	-1.4			
RGS	19.54	352	eP	42	26.20	-0.9			
VAL	19.67	304	eP	42	30.00	1.4			
		S		46	07.00				
MDSJ	19.68	122	Pc	42	27.11	-1.9			
QTRJ	19.76	123	Pc	42	27.99	-1.8			
IFR	19.82	246	iPd	42	31.00	0.5			
PRNI	19.85	127	iPc	42	29.30	-1.4			
LIS	20.01	264	iPd	42	33.30	1.1			
MBH	20.21	128	Pc	42	33.50	-1.0			
CSTJ	20.29	122	iP	42	33.34	-2.0			
GHZJ	20.46	124	Pd	42	36.00	-1.2			
HOL	20.69	129	iP+	42	39.00	-0.3			
BADA	21.23	130	iP+	42	44.30	-0.6			
AVE	21.48	249	iP	42	48.00	0.6			
		i		42	57.00	33km			
AYN	21.53	128	eP	42	48.00	0.1			
TIO	22.86	244	iP	43	03.50	2.2			
		i		43	25.50	103kmX			
TAB	23.08	94	iP+	43	04.00	0.5			
		e		43	11.00	25km			
AMAN	23.96	141	iPd	43	14.00	2.2			
AGMR	24.12	142	eP	43	16.50	3.1X			
SOD	24.18	9	iP	43	14.20	0.6			
AKSR	24.25	141	iPd	43	17.00	2.3			
AGAL	24.34	142	iPd	43	18.00	2.4			
KER	25.36	102	ePd	43	25.00	-0.4			
KEV	26.50	8	iP	43	32.00	-3.5X			
		e		48	32.00				
SHI	31.80	104	eP	44	23.00	-0.5			
MAIO	33.35	88	iPc	44	36.00	-0.9			
	0.8s	7.32nm			4.7mb				
		eS		49	44.00				
LKO	39.26	216	P	45	25.64	-1.4			
	0.9s	42.00nm			5.2mb				
BCAO	39.29	177	iPc	45	29.20	1.9			
	0.7s	27.00nm			5.1mb				
		i		47	04.70	532kmX			
KOGH	40.43	206	eP	45	37.00	0.3			
SHGH	40.52	206	eP	45	40.50	3.1X			
TEGH	40.78	206	eP	45	40.00	0.5			
LEGH	40.83	206	eP	45	41.00	1.1			
WEGH	40.92	206	eP	45	42.50	1.8			
TIC	41.64	213	P	45	46.50	-0.1			
	0.9s	13.00nm			4.7mb				
KIC	41.79	213	P	45	47.98	0.2			
	0.8s	29.00nm			5.0mb				
QUE	41.81	92	eP	45	48.00	-0.1			
		e		52	06.50				
		e		55	48.20				
LIC	42.03	213	P	45	49.94	0.2			
	0.8s	35.50nm			5.1mb				
Z	16s	4.00um			5.4MszX				
GDH	42.90	330	eP	45	56.00	-0.3			
		e		52	18.00				
		e		55	45.00				
KSH	43.74	74	P	46	04.00	0.3			
Z	16s	6.20um			5.6MszX				
E	12s	5.60um							
		eS		52	24.00				
LWI	47.17	163	iPd	46	30.80	-0.5			
NAI	48.42	153	eP	46	43.00	1.9			
WMO	49.74	64	P	46	49.50	-1.3			
		S		53	56.00				
FRB	49.81	325	ePc	46	50.60	-0.3			
NDI	50.07	86	iPc	46	52.00	-1.5			
		eS		54	02.00				
SCH	52.34	313	eP	47	09.00	-1.4			
DMN	56.37	82	P	47	38.86	-1.7			
KKN	56.39	82	P	47	38.54	-2.1X			
GUN	56.75	82	P	47	41.52	-1.8			
MBC	56.92	349	ePd	47	42.70	-0.8			
	0.9s	16.00nm			5.0mb				
HYB	57.96	96	eP	47	49.00	-2.5X			
LSA	59.45	77	P	48	01.40	-0.9			
GBA	59.70	101	P	48	01.10	-2.5X			
GTA	59.80	63	iPc	48	02.80	-1.4			
	0.8s	10.00nm			5.0mb				
Z	20s	6.30um			5.7Msz				
E	15s	3.00um							
		S		56	15.00				
KRI	61.54	166	eP	48	04.90	-11.3X			
PNJ	63.72	302	iP	48	30.70	0.4			
LZH	64.32	64	Pc	48	33.80	-0.8			
	4.0s	380.00nm			5.9mb X				
Z	19s	4.20um			5.6Msz				
N	19s	4.30um							
E	17s	2.70um							
		pP		48	40.00	20km			
		S		57	12.50				
		sS		57	23.50				
BUL	64.62	168	iPc	48	34.20	-2.2			
	0.9s	16.81nm			5.2mb				
BRW	65.06	358	ePc	48	38.30	-0.2			
BTO	65.48	57	eP	48	41.00	-0.9			
	N 18s	3.10um							
	E 18s	2.90um							
INK	65.95	348	ePc	48	43.10	-1.2			
	0.6s	25.00nm			5.5mb				
HHC	66.26	56	P	48	46.50	-0.4			
	N 11s	1.10um							
E	13s	2.30um							
		S		57	35.00				
YKA	67.04	338	eP	48	50.50	-0.9			
	0.8s	27.50nm			5.4mb				
CD2	67.41	68	P	48	53.40	-0.9			
	0.8s	20.00nm			5.3mb				
NA2	67.61	302	P	48	55.80	0.5			
CLE	67.76	307	iP	48	57.00	0.7			
TIY	68.74	58	eP	49	00.90	-1.6			
Z	20s	2.80um			5.5Msz				
E	13s	1.00um							
		S		58	04.00				
FFC	68.82	327	iPc	49	03.00	0.4			
	0.9s	85.00nm			5.9mb				
XAN	68.86	63	Pc	49	02.00	-1.2			
	0.8s	50.00nm			5.7mb				
BJI	69.49	54	eP	49	05.00	-1.9			
Z	20s	6.86um			5.9Msz				
N	10s	1.10um							
E	11s	2.13um							
		eS		58	14.00				
		eSS		02	44.00				
BLA	69.83	302	P	49	07.40	-1.7			
	0.7s	13.89nm			5.2mb				
BLA	69.83	302	P	49	09.20	0.1			
	0.7s	13.89nm			5.2mb				
NAV	69.99	303	P	49	09.90	-0.2			
SLR	70.07	169	eP	49	14.50	3.9X			
Z	20s	3.55um			5.6Msz				

OFUJ	83.67	40	eP	50	25.90	-0.5	VVI	3.65	306	Pc	52	35.50	1.3	LLS	6.15	302	ePd	53	11.80	2.1
MTMJ	83.78	44	P	50	26.70	-0.5	LCI	3.69	164	Pd	52	34.80	0.1	CMP	6.15	74	iPd	53	15.00	5.5X
MAT	84.02	44	eP	50	28.00	-0.3	SOP	3.79	359	iPn	52	37.00	0.9	PLG	6.16	122	eP	53	09.20	-0.5
	1.1s	25.32nm			5.4mb		ORI	3.83	182	Pc	52	36.50	-0.2	PLD	6.18	104	iP	53	10.00	0.2
Z	20s	3.90um			5.8msz		FVI	3.84	316	Pd	52	38.00	1.3	GIB	6.22	199	Pd	53	10.70	0.1
		eS	00	38.00			MGR	3.84	193	Pd	52	36.70	-0.1	PRU	6.26	347	Pc	53	11.00	-0.1
PV09	84.48	320	iP	50	31.50	0.6	KBA	3.94	325	iPnc	52	40.70	2.3		0.7s	98.30nm			5.8mb	
CHJJ	84.80	43	P	50	31.60	-0.5			iSn	53	36.60			Z	12s	29.50um			5.4mszX	
PPI	85.81	95	eP	50	37.00	-0.4	BZS	3.94	62	iPd	52	37.50	-0.7	N	10s	22.30um				
ALO	86.04	316	eP	50	39.00	0.4			e	00	47.00		E	10s	28.50um					
	0.9s	3.57nm			4.6mb										S			54	30.00	
TNP	88.37	325	P	50	50.80	0.9	BUD	3.96	24	iPn	52	38.50	0.1			e		15	05.00	
	0.8s	4.41nm			4.8mb		SKO	4.01	117	iPn	52	41.00	1.8			eSg		16	26.00	
VAO	88.39	236	eP	50	51.50	1.7			i	52	51.10		RAC	6.28	9	ePn	53	13.00	1.7	
		e	50	59.30	24km		BERA	4.02	141	ePn	52	37.80	-1.6			i		54	25.50	
WB5	123.38	86	ePKP	56	53.70	-1.6	VLO	4.03	147	iPn	52	40.50	1.1			i		55	21.00	
WRA	123.40	86	PKP	56	53.00	-2.4X	SRO	4.09	16	iPnc	52	41.20	0.9	EVR	6.31	140	eP	53	10.80	-1.1
	0.8s	3.30nm							i	14	31.70		IMI	6.32	273	P	53	12.08	0.0	
ASPA	125.41	90	ePKP	56	57.70	-1.5	CTI	4.14	303	Pc	52	41.70	0.5	ROB	6.33	277	P	53	10.65	-1.5
	0.8s	5.20nm					TDS	4.24	183	P	52	42.00	-0.5	RZN	6.34	108	iPc	53	13.00	0.7
TOO	141.24	99	ePKP	57	21.50	-7.1X	MME	4.29	276	P	52	45.90	2.4	PVL	6.35	93	iPd	53	11.00	-1.3
CAN	142.75	93	ePKP	57	30.00	-1.4	ZST	4.31	4	iPnc	52	43.80	0.3	VLS	6.44	151	eP	53	11.00	-2.7
DZM	146.93	59	iPKPd	57	41.20	2.4			i	53	05.50		AGG	6.48	137	iPc	53	13.12	-1.0	
	S.D. = 1.1	on 381 of 451 obs.							i(Sn)	53	30.80				eS		54	23.60		
	NOV 27, 1990	04h 51m	36.42±0.13s				VIE	4.36	358	iPn	52	46.00	1.9	OUR	6.51	121	eP	53	14.76	0.1
	43.895 N ± 2.0km	16.641 E ± 1.6km					BDI	4.37	274	P	52	45.40	1.0	MMK	6.52	292	ePc	53	13.20	-1.8
	DEPTH = ± 0.0km (geophysicist)						VKA	4.38	357	ePn	52	44.50	0.1	KRA	6.56	19	ePc	53	14.80	-0.5
	5.1mb (30 obs.)	5.1msz (4 obs.)							ic	52	45.40			0.9s	91.00nm			5.7mb		
	YUGOSLAVIA	(383)					TPE	4.38	144	ePn	52	48.40	3.9X	Z	14s	19.70um			6.1msz	
	ML 5.3 (TTG). Felt (III) at						PII	4.43	270	P	52	46.30	1.1	E	14s	12.10um				
	Titograd.						KBN	4.50	135	ePn	52	46.00	-0.2			i		53	22.00	
							KMR	4.51	338	iPn+	52	48.40	2.0	PAIG	6.58	125	iPd	53	14.60	-0.9
									iSn	53	43.00				eS		54	28.61		
HVAR	0.73	191	iPgd	51	50.30	-0.5	BHG	4.64	327	iPnc	52	50.80	2.6X	ENR	6.65	276	P	53	16.39	-0.3
BRY	1.71	125	iPnc	52	07.50	1.0	SAL	4.68	294	P	52	49.50	0.8	SBF	6.65	273	Pn	53	16.00	-0.7
		eSn	52	31.50			SCE	4.68	314	iPnc	52	50.50	1.5	MCT	6.66	201	P	53	17.80	0.9
VBY	1.89	329	iPnc	52	11.90	2.9X	FNA	4.69	130	iPc	52	49.76	0.8	STV	6.72	276	P	53	17.21	-0.4
ZAG	1.98	347	iPnc	52	12.50	2.2			iS	53	40.32		NEO	6.73	131	eP	53	15.50	-2.3	
		iPb	52	14.50			SRN	4.73	147	iPn	52	48.80	-0.7	BUC1	6.77	83	eP	53	52.00	33.8X
		iSn	52	39.40			LSK	4.76	140	iPnd	52	48.90	-1.1	DIM	6.78	103	eP	53	19.00	0.7
HCY	1.98	136	iPnd	52	12.10	1.7	SRE	4.78	78	ePc	53	51.00	60.9X	BHB	6.79	281	P	53	15.98	-2.5
		eSn	52	38.50			KEK	4.80	149	eP	52	49.50	-0.9	ZLA	6.80	305	ePd	53	18.70	0.0
NKY	2.03	121	iPnd	52	14.50	3.3X	DEV	4.87	64	iPd	52	52.50	1.0	MLR	6.82	73	ePc	53	20.00	0.9
		eSn	52	41.00			WATA	4.95	316	iPnc	52	54.60	2.0	RSP	6.83	284	P	53	15.98	-3.2
PTJ	2.06	347	iPnc	52	13.00	1.4	OGA	4.95	309	iPnc	52	54.30	1.6	KDZ	6.84	106	iPd	53	19.00	-0.2
PLE	2.08	105	ePn	52	14.00	2.1	VTs	4.97	103	ePc	52	54.00	1.0	SLE	6.88	307	ePc	53	19.40	-0.4
		eSn	52	42.50			SQTA	5.06	313	iPnc	52	56.50	2.3	PZZ	6.88	278	P	53	18.23	-1.8
RIY	2.17	313	iPnc	52	18.90	5.9X			iSn	53	55.90		GRF	6.89	329	ePc	53	19.40	-0.5	
BDV	2.27	134	ePn	52	16.30	1.7	VAY	5.07	118	iPn	52	55.30	1.0			e(S)		54	41.00	
		eSn	52	46.20			GRI	5.08	182	P	52	53.70	-0.7	MEU	6.91	191	P	53	19.90	-0.4
TTG	2.41	126	iPnd	52	18.70	2.2	KK8	5.15	111	iPc	52	56.00	0.6	LSD	6.94	286	P	53	18.34	-2.5X
		iSn	52	49.30			IGT	5.16	146	ePd	52	54.58	-0.9	KSP	6.96	358	iP	53	21.50	0.7
CEY	2.43	320	iPnc	52	19.90	3.1X			iS	53	49.69		PZI	6.98	191	P	53	20.70	-0.6	
IVA	2.58	112	ePn	52	21.60	2.5	GRG	5.18	123	ePd	52	56.33	0.5	FAI	6.99	200	P	53	19.80	-1.4
		eSn	52	56.00					eS	53	53.60		STU	7.09	316	iPn	53	22.00	-0.8	
LJU	2.62	326	ePnc	52	21.70	2.2	BOB	5.23	282	P	52	58.00	1.3		1.0s	1520.00nm			7.1mb X	
		e(Sn)	53	00.00			KZN	5.24	131	eP	52	56.00	-0.7	RDO	7.12	110	eP	53	22.50	-0.6
ARV	2.71	263	Pd	52	22.20	1.3	MDI	5.28	293	Pc	52	57.00	-0.1	CGI	7.12	233	P	53	23.20	-0.1
ULC	2.72	134	ePn	52	22.00	1.0	OSS	5.37	304	ePc	53	00.20	1.5	RRL	7.13	282	P	53	21.62	-1.9
		eSn	52	56.80			KNT	5.37	118	ePd	52	59.17	0.7	ISR	7.19	77	Pc	53	26.00	1.9
TRI	2.74	313	i(Pn)	52	23.60	2.5			eS	54	00.76		HOF	7.20	335	iPc	53	24.30	0.1	
DUI	2.75	216	P	52	23.00	1.5	DRA	5.52	79	eP	53	03.00	2.3	BRG	7.22	346	iPnc	53	23.00	-1.5
PVY	2.76	117	ePn	52	25.00	3.4X	FUR	5.67	321	iPnc	53	04.00	1.2			e		54	49.00	
		eSn	53	01.80			COZ	5.68	73	eP	54	05.00	61.9X			e		54	54.00	
AQU	2.83	238	P	52	24.07	1.6	VDL	5.69	300	ePd	53	05.00	1.7	EMS	7.22	291	ePc	53	25.50	0.8
BEO	2.89	70	iPn	52	23.00	-0.3	MMB	5.70	111	iPc	53	04.00	0.7	BN1	7.22	283	P	53	23.20	-1.5
		iSg	53	08.00			THE	5.71	123	ePd	53	03.82	0.5	FRF	7.25	271	Pn	53	24.60	-0.3
									iS	54	06.64				Sn		54	44.20		
VOY	2.89	319	iPnd	52	19.90	-3.6X			iS	54	06.64		LMR	7.38	269	Pn	53	26.50	-0.2	
BCI	2.94	120	iPn	52	27.70	3.8X	PGF	5.74	259	Pn	53	04.50	0.6			Sn		54	47.40	
ASS	3.01	255	Pc	52	26.70	1.6	MSI	5.74	189	P	53	02.60	-1.2	JMB	7.41	98	iPd	53	27.00	-0.1
SDI	3.02	225	Pd	52	25.50	0.3	LIT	5.77	129	ePd	53	03.32	-0.9	VR1	7.43	71	ePd	53	28.50	1.0
PUK	3.02	127	iPn	52	27.20	2.1			eS	54	07.04		LRG	7.47	270	Pn	53	28.00	0.0	
AZI	3.03	232	Pc	52	26.50	1.3	SRS	5.84	116	ePd	53	05.84	0.7			Sn		54	49.20	
LACI	3.19	134	iPn	52	29.50	1.9	SOH	5.84	119	ePc	53	05.77	0.6	MOX	7.57	335	iPn	53	29.40	0.0
RFI	3.25	218	P	52	30.50	2.1			iS	54	09.58			1.0s	308.00nm			6.5mb X		
MNS	3.27	244	Pc	52	30.30	1.5	SPC	5.85	24	iPn	53	07.20	1.8			iSn		54	55.00	
KKS	3.31	122	iPn	52	33.40	4.1X			i	53	11.40		ALN	7.58	110	ePn	53	29.44	-0.1	
RBL	3.35	321	P	52	29.00	-0.9			i	53	29.20		BRD	7.59	74	eP	53	33.00	3.3X	

27d 04h

ATH	7.98	135	eP	53	32.70	-2.4	EKA	17.12	319	P	55	38.00	0.9	IMA	70.12	356	iPc	02	50.50	0.0
HAU	8.27	303	Pn	53	38.60	-0.6		0.8s	28.40nm			4.5mb			0.6s	16.10nm			5.3mb	
			Sn	55	09.20		ESK	17.14	319	eP	55	39.00	1.7	KMI	70.35	74	eP	02	50.00	-2.6X
EZN	8.29	116	iP	53	39.80	0.3	ODD1	17.16	343	eP	55	42.00	4.4X	FBA	70.86	353	ePc	02	54.20	-0.7
DMK	8.42	100	iP	53	41.00	-0.4	NUR	17.33	13	iP	55	39.20	-0.4		0.8s	29.80nm			5.5mb	
TNS	8.44	321	ePnc	53	41.10	-0.6		0.9s	62.50nm			4.7mb		CHTO	71.75	81	iP	02	58.50	-2.4
			eSn	55	14.50		NB2	17.48	351	P	55	40.40	-1.2		1.0s	23.75nm			5.2mb	
PRK	8.58	119	eP	53	43.00	-0.5		0.8s	40.10nm			4.6mb		CN2	72.07	46	Pc	03	01.00	-1.5
VLI	8.63	144	eP	53	40.20	-4.0X	ETA	17.51	308	eP	55	47.50	5.5X		1.0s	40.00nm			5.5mb	
KGT	8.63	110	iP	53	44.20	0.0	ADI	18.08	120	eP	55	51.00	1.8	GYA	72.19	70	P	03	01.60	-2.0
KOE	8.91	320	ePnd	53	47.60	-0.5	HYA	18.39	344	eP	55	53.50	0.7	SNY	72.44	49	eP	03	03.20	-1.5
BGG	8.95	318	ePnc	53	48.30	-0.3	SRO	18.46	253	eP	55	56.00	2.1	TTA	73.36	356	eP	03	09.70	-0.1
EDC	9.06	109	iP	53	50.30	0.1	SUE	18.60	342	eP	55	56.50	1.2	TOA	73.45	352	eP	03	09.20	-1.1
BNT	9.10	109	iP	53	49.70	-1.0	OJEN	18.65	253	eP	55	58.00	1.7	RSCP	73.99	304	P	03	13.00	-0.9
CTT	9.13	103	iP	53	49.70	-1.4	MOMI	18.67	254	eP	55	58.00	1.6	EDM	74.18	331	iPc	03	14.00	-0.7
LBF	9.42	294	Pn	53	53.20	-2.0	PLAT	18.80	253	eP	55	58.00	0.0		0.8s	35.00nm			5.4mb	
			Sn	55	35.20		JVI	18.94	123	eP	56	00.00	0.2	PMR	74.24	353	ePc	03	13.90	-0.9
SMF	9.44	291	Pn	53	53.70	-1.7	KAF	19.11	14	eP	56	00.40	-1.3		0.7s	15.90nm			5.2mb	
			Sn	55	35.80			0.6s	18.20nm			4.5mb		SVW	75.16	356	ePc	03	20.30	0.1
STB	9.45	319	ePnc	53	55.90	0.4		esP		56	03.50		FVM	75.18	309	P	03	19.20	-1.5	
BNS	9.54	321	iPnd	53	56.30	-0.4	IFR	19.84	246	iPd	56	06.50	-4.0X		0.6s	14.30nm			5.2mb	
ITU	9.55	103	eP	54	00.00	3.0X		i		57	13.00		PDCR	75.63	236	eP	03	26.40	3.0X	
LOR	9.58	295	Pn	53	55.20	-2.1	PRNI	19.87	127	eP	56	08.00	-2.6X	NJ2	76.41	59	Pd	03	26.20	-1.5
			Sn	55	39.00		BADA	21.25	130	eP	56	23.50	-1.4		Z 21s	0.80um			5.0msz	
ISK	9.60	103	iP	53	53.20	-4.4X	AVE	21.50	249	iP	56	26.50	-0.9	OLY	77.52	307	P	03	34.00	0.2
APE	9.60	132	eP	53	55.30	-2.4		i		56	42.00		SSE	78.50	58	eP	03	38.00	-1.3	
I2M	9.71	121	iP	53	58.90	-0.2	AYN	21.55	128	eP	56	28.30	0.5	PNT	79.59	333	eP	03	45.00	0.0
SSF	9.76	294	Pn	53	58.00	-1.8	TIO	22.88	244	iP	56	43.50	2.2		0.9s	23.00nm			5.2mb	
			Sn	55	41.00		SOD	24.13	9	iP	56	54.20	1.3	NEW	79.64	331	P	03	44.50	-0.7
GSH	9.76	318	ePnd	53	59.50	-0.3	MAIO	33.35	88	eP	58	13.00	-3.7X	LRM	79.92	327	eP	03	47.40	0.3
AVF	9.80	292	Pn	53	58.90	-1.4	LKO	39.30	216	P	59	05.14	-2.1	BW06	81.19	323	P	03	51.80	-2.0
			Sn	55	45.10			0.7s	12.00nm			4.7mb			1.8s	31.83nm			5.1mb	
MEM	9.86	317	iP	54	01.20	0.0	BCAO	39.33	177	iPd	59	09.00	1.5	GLD	81.62	319	P	03	58.00	2.0
SMG	9.89	125	eP	54	00.20	-1.4		0.6s	39.00nm			5.3mb		GOL	81.73	319	P	03	57.50	0.8
DST	9.93	111	iP	54	02.20	0.0		i		00	18.50			1.3s	15.63nm			4.9mb		
GBZT	9.97	104	eP	54	02.00	-0.8	KOGH	40.47	206	eP	59	16.00	-0.9	BAO	83.49	241	eP	04	07.50	1.6
ENN	10.00	317	eP	54	03.00	-0.1	SHGH	40.56	206	eP	59	15.00	-2.6X	PV09	84.45	320	P	04	10.00	-0.8
	0.9s	232.00nm			6.6mb X		TEGH	40.82	206	eP	59	24.50	4.8X	ALO	86.01	316	eP	04	16.50	-2.0
YLV	10.01	105	iP	54	02.70	-0.6	LEGH	40.87	206	eP	59	21.50	1.4		1.2s	4.69nm			4.5mb	
BGF	10.09	290	Pn	54	03.00	-1.4	WEGH	40.96	206	eP	59	21.50	0.6		Z 19s	0.69um			5.1msz	
			Sg	55	51.00		KIC	41.83	213	P	59	27.58	-0.4	WRA	123.40	86	PKP	10	35.00	-0.4
I2I	10.17	106	eP	54	04.70	-0.9		0.7s	8.50nm			4.6mb			1.3s	1.50nm				
MAF	10.23	288	Pn	54	05.50	-0.8	LIC	42.07	213	P	59	29.56	-0.4	ASPA	125.41	90	ePKP	10	45.50	6.2X
			Sn	55	52.40			0.8s	13.00nm			4.7mb			0.8s	5.40nm				
VAM	10.28	143	eP	54	02.20	-4.8X	WMO	49.71	64	P	00	29.00	-1.5		S.D. = 1.3 on 274 of 319 obs.					
DOU	10.30	311	P	54	07.00	-0.2	FRB	49.78	325	eP	00	30.00	-0.6		* NOV 27, 1990 04h 59m 43.05± 0.78s					
			S	56	30.00		NDI	50.06	86	iPc	00	31.00	-2.3		43.877 N ±11.0km 16.278 E ± 7.9km					
WTS	10.44	324	eP	54	08.50	-0.6	SCH	52.31	313	eP	00	48.00	-2.1		DEPTH = 10.0km (geophysicist)					
	0.9s	135.00nm			6.4mb X		POO	53.86	99	iPd	01	02.00	0.1		YUGOSLAVIA (383)					
TCF	10.48	288	Pn	54	08.20	-1.6	GKN	55.79	82	P	01	13.28	-2.8X		ML 3.6 (ZAG). MD 3.5 (TTG).					
			Sn	55	58.40		DMN	56.36	83	P	01	17.36	-3.0	HVAR	0.71	170	iPg	59	56.90	-0.1
CAF	10.48	281	Pn	54	07.90	-1.9	KKN	56.38	82	P	01	16.90	-3.5X				iSg	00	07.20	
SNF	10.69	313	P	54	13.80	1.2	PKI	56.60	82	P	01	19.00	-3.2X	VBY	1.78	336	iPnc	00	19.50	5.4X
GPA	10.78	105	eP	54	13.80	0.0	GUN	56.74	82	P	01	20.14	-3.0X				i(Sg)	00	45.70	
UCC	10.81	314	P	54	16.00	1.8		0.9s	76.00nm			5.7mb		BRY	1.92	120	ePn	00	15.50	-0.7
RJF	10.88	283	Pn	54	14.20	-1.0	MBC	56.88	349	eP	01	22.00	-1.2				eSn	00	41.00	
LSF	10.95	288	Pn	54	14.20	-1.9		1.0s	6.00nm			4.6mb		ZAG	1.95	354	eP	00	21.00	4.5X
			Sn	56	10.20		GBA	59.70	101	P	01	40.00	-3.5X				iPg	00	23.00	
NPS	11.05	138	eP	54	13.00	-4.5X	GTA	59.77	63	Pc	01	42.00	-2.0				iSg	00	53.00	
LPO	11.11	279	Pn	54	18.30	0.0		4.0s	420.00nm			5.9mb X		RIY	1.99	318	iPn	00	24.00	7.7X
WIT	11.11	327	eP	54	20.00	1.8		Z 18s	2.70um			5.4msz					iSn	00	53.10	
KHL	11.19	115	iP	54	22.00	2.4		E 10s	0.90um					PTJ	2.04					

TDS 4.22 179 P 00 54.00 5.2
 SAL 4.45 295 P 00 52.00 0.0
 SOTA 4.88 315 iPnc 01 04.10 5.7X
 MDI 5.04 294 P 00 56.50 -4.0X
 VAY 5.30 117 ePn 01 03.00 -1.1
 S.D. = 1.9 on 16 of 27 obs.

? NOV 27, 1990 05h 11m 21.93±5.07s
 43.700 N ±12.0km 17.087 E ±45.1km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

HVAR 0.70 222 iPg 11 35.70 0.0
 i 11 43.90
 iSg 11 47.20
 VBY 2.23 325 iPn 11 58.60 -0.8
 iSg 12 25.20
 TRI 3.11 311 P 12 18.00 6.2X
 SDI 3.13 232 P 12 13.50 1.3
 ASS 3.29 260 P 12 14.00 -0.6
 MNS 3.49 249 P 12 15.60 -1.7
 CRE 3.73 271 P 12 21.50 0.6
 SFI 3.80 275 P 12 24.00 2.3X
 PGD 3.89 274 P 12 22.20 -1.0
 MDI 5.65 294 P 12 50.00 2.1
 S.D. = 1.5 on 8 of 10 obs.

* NOV 27, 1990 05h 13m 26.25±1.52s
 43.829 N ±7.1km 16.716 E ±14.3km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 3.7 (ZAG).

HVAR 0.68 197 iPg 13 38.70 -1.0
 iSg 13 48.70
 i 13 51.70
 VBY 1.97 329 iPn 13 59.90 -0.1
 iSg 14 27.30
 ZAG 2.06 346 iP 14 04.50 3.3X
 iSg 14 35.00
 PTJ 2.14 346 iPn 14 02.70 0.1
 iPg 14 06.50
 RIY 2.25 313 ePn 14 09.20 5.1X
 iSn 14 36.40
 TRI 2.82 313 e(Pn)c 14 13.50 1.3
 i(Sn) 14 48.00
 AQU 2.84 240 P 14 13.50 1.0
 BEO 2.86 68 ePn 14 22.00 9.3X
 1.5s 0.14nm
 VOY 2.98 319 Pn 14 16.70 2.2
 e(Sn) 14 58.00
 SDI 3.01 226 P 14 16.00 1.1
 ASS 3.05 257 P 14 15.60 0.2
 eSn 14 50.00
 MNS 3.29 245 P 14 19.70 0.8
 CRE 3.46 268 P 14 23.00 1.7
 SFI 3.52 273 P 14 24.00 2.0
 PGD 3.61 272 P 14 22.00 -1.6
 FVI 3.92 316 P 14 34.60 6.9X
 CTI 4.23 303 P 14 37.60 5.4X
 ZST 4.38 3 e(Pn) 14 33.90 -0.3
 KHC 5.73 339 ePn 14 47.50 -5.9X
 ePg 14 56.00
 eSg 15 55.60
 PGF 5.79 260 Pn 14 54.00 -0.3
 GBF 6.71 274 Pn 15 05.30 -2.0
 GRF 6.97 329 e(P) 15 11.00 0.1
 e(S) 16 55.00
 FRF 7.30 271 Pn 15 14.00 -1.5
 LRG 7.52 271 Pn 15 18.10 -0.5
 MOX 7.65 335 ePn 15 25.00 4.6X
 eSn 17 31.00
 CDF 8.00 308 Pn 15 24.20 -1.2
 BSF 8.00 303 Pn 15 32.46 7.0X
 Sn 16 48.00
 HAU 8.35 304 Pn 15 28.20 -2.0
 Sn 16 58.00
 LBF 9.50 294 Pn 15 43.00 -3.1X
 Sn 17 23.80
 SMF 9.51 292 Pn 15 43.40 -2.8X
 Sn 17 25.30
 LOR 9.65 295 Pn 15 44.80 -3.4X
 Sn 17 28.00
 BGF 10.16 290 Pn 15 52.00 -3.2X
 Sn 17 42.00
 S.D. = 1.4 on 20 of 32 obs.

NOV 27, 1990 05h 31m 28.83±0.25s
 43.880 N ±3.2km 16.665 E ±2.7km
 DEPTH = 10.0km (geophysicist)
 4.2mb (3 obs.)

YUGOSLAVIA (383)

ML 4.0 (ZAG), 4.0 (THE), 3.7 (ROM), 3.6 (TTG).

HVAR 0.72 193 iPg 31 41.10 -1.9
 i(Sg) 31 52.10
 BRY 1.68 125 ePg 31 59.50 0.9
 eSg 32 22.10
 VBY 1.91 329 iPn 32 02.90 1.2
 HCY 1.96 136 ePn 32 03.00 0.5
 eSn 32 28.50
 ZAG 2.00 346 iPn 32 03.70 0.8
 eSg 32 32.00
 NKY 2.01 121 ePn 32 04.80 1.5
 eSn 32 32.00
 PLE 2.06 105 ePn 32 06.30 2.3
 eSn 32 32.40
 RIY 2.19 313 ePn 32 07.30 1.6
 BDV 2.25 134 ePn 32 07.50 0.8
 eSn 32 39.00
 TTG 2.39 126 ePn 32 10.70 2.1
 eSn 32 38.70
 CEY 2.45 320 ePn 32 11.50 2.0
 eSn 32 42.80
 IVA 2.56 112 ePn 32 13.00 1.8
 eSn 32 44.20
 LJU 2.64 326 ePn 32 13.50 1.3
 eSn 32 46.50
 ULC 2.70 134 ePn 32 15.00 1.9
 eSn 32 47.20
 ARV 2.73 263 P 32 13.50 0.0
 TRI 2.76 313 i(Pn)c 32 15.60 1.7
 i(Sn) 32 50.30
 AQU 2.83 239 P 32 15.30 0.3
 BEO 2.88 70 ePn 32 20.50 5.0X
 1.5s 0.27nm
 BCI 2.91 120 iPnc 32 15.70 -0.3
 VOY 2.92 319 e(Pn) 32 17.50 1.3
 eSn 32 56.00
 SDI 3.02 225 Pc 32 16.90 -0.7
 ASS 3.02 256 P 32 17.50 -0.2
 AZI 3.03 233 P 32 19.00 1.3
 RFI 3.25 218 P 32 22.00 1.2
 MNS 3.28 244 P 32 21.20 -0.1
 KKS 3.29 122 ePn 32 23.70 2.3
 CRE 3.42 267 P 32 24.20 0.8
 TIR 3.46 136 ePn 32 24.20 0.4
 SFI 3.48 272 P 32 25.00 1.0
 RMP 3.57 236 P 32 25.40 0.0
 PGD 3.57 272 P 32 26.00 0.4
 RDP 3.60 235 P 32 24.00 -1.8
 VVI 3.67 306 P 32 27.00 0.1
 SOP 3.80 359 e(P) 32 28.00 -0.7
 ORI 3.82 182 P 32 28.00 -0.9
 MGR 3.83 193 P 32 28.80 -0.3
 FVI 3.86 316 Pc 32 30.20 0.8
 BZS 3.93 62 eP 32 28.50 -2.0
 BUD 3.97 24 iPn 32 29.00 -1.9
 SKO 3.99 117 ePn 32 32.00 0.6
 i 33 28.00
 i 33 33.00
 SRO 4.10 16 iPn 32 30.80 -2.0
 i 32 36.80
 i(Sn) 33 21.50
 i 33 41.40
 OHR 4.12 131 iPn 32 33.70 0.4
 CTI 4.17 303 P 32 33.50 -0.4
 TDS 4.22 183 P 32 33.00 -1.7
 MME 4.31 276 P 32 36.50 0.3
 ZST 4.33 4 iPn 32 33.80 -2.3
 i 32 40.70
 i 33 17.60
 i 33 25.80
 BDI 4.38 274 P 32 36.00 -1.0
 VKA 4.39 357 e(Pn) 32 36.00 -1.1
 PII 4.45 270 P 32 38.20 0.4
 BHG 4.67 327 iPnc 32 41.70 0.7
 FNA 4.67 130 ePd 32 40.92 -0.1
 eS 33 35.04
 SAL 4.70 294 P 32 41.00 -0.5
 DEV 4.87 64 iPc 33 18.00 34.2X
 VTS 4.95 103 eP 32 45.00 -0.1
 VAY 5.05 118 ePn 32 47.30 0.9

SOTA 5.08 313 iPnc 32 47.80 0.8
 KKB 5.13 111 iP 32 47.00 -0.5
 IGT 5.14 146 eP 32 44.84 -2.8
 BOB 5.25 282 P 32 49.10 -0.3
 MDI 5.30 293 P 32 48.00 -1.9
 KNT 5.35 118 eP 32 50.68 0.1
 KHC 5.67 339 ePg 32 54.50 -0.6
 eSg 33 08.50

MMB 5.68 111 eP 32 57.00 1.6
 LIT 5.75 129 ePd 32 55.46 -0.8
 PGF 5.76 259 Pn 32 56.40 -0.1
 SRS 5.82 116 ePc 32 56.80 -0.4
 SOH 5.82 119 ePc 32 57.04 -0.3
 WET 5.88 335 iPnc 32 58.90 0.9
 CKI 6.06 278 P 32 59.50 -1.1
 PRU 6.28 347 ePg 33 13.00 9.3X
 Sg 34 29.00
 RZN 6.32 108 iP 33 04.00 -0.4
 PVL 6.33 93 eP 33 02.00 -2.5
 AGG 6.45 137 ePd 33 04.80 -1.4
 PAIG 6.56 125 eP 33 05.88 -1.7
 SBF 6.67 273 Pn 33 07.80 -1.5
 Sn 34 20.40

GRF 6.91 329 eP 33 19.00 6.4X
 e(S) 34 36.00
 KSP 6.97 358 ePn 33 12.50 -0.9
 ePg 33 24.50
 eS 34 44.50
 e 35 15.00

BRG 7.24 346 e(P) 33 36.00 18.9X
 e 33 53.00
 e 34 23.00
 e 35 19.00

FRF 7.27 271 Pn 33 16.60 -1.0X
 LMR 7.39 269 Pn 33 18.40 -0.9X
 LRG 7.48 270 Pn 33 20.00 -0.6X
 ALN 7.56 110 eP 33 21.84 0.2X
 MOX 7.59 335 ePn 33 21.00 -1.1X
 eSn 35 32.00

CDF 7.94 308 Pn 33 25.00 -2.1X
 Sn 34 51.30

BSF 7.94 303 Pn 33 25.40 -1.8X
 Sn 34 51.60

HAU 8.29 303 Pn 33 30.00 -1.9X
 Sn 35 00.20

LBF 9.45 294 Pn 33 45.00 -2.9X
 Sn 35 27.40

SMF 9.46 291 Pn 33 45.30 -2.8X
 Sn 35 26.00

LOR 9.60 295 Pn 33 47.50 -2.5X
 Sn 35 31.40

BGF 10.11 290 Pn 33 55.40 -1.7X
 Sn 35 41.80

YKA 67.03 338 eP 42 20.30 -3.4X
 0.8s 1.00nm 4.1mb
 FBA 70.88 353 P 42 43.50 -3.9X
 0.5s 3.10nm 4.7mb

ALO 86.03 316 e(P) 44 06.00 -5.0X
 1.0s 1.75nm 4.2mb
 S.D. = 1.3 on 73 of 93 obs.

* NOV 27, 1990 05h 50m 21.60±1.06s

53.481 N ±14.0km 169.652 E ±13.5km
 DEPTH = 33.0km (normal)
 4.0mb (3 obs.)

KOMANDORSKY ISLANDS REGION (4)

SMY 2.79 104 eP 51 04.60 -0.2
 ANM 16.85 39 eP 54 17.20 1.1
 SVW 20.05 54 eP 54 56.20 1.8
 TTA 20.17 48 ePc 54 55.50 -0.1

KDC 21.60 63 eP 55 09.40 -0.8
 IMA 21.94 41 ePc 55 12.90 -0.9
 FBA 24.09 45 eP 55 34.90 0.4
 MBC 34.41 24 eP 57 05.50 -1.7
 YKA 38.88 46 eP 57 44.70 -0.4
 0.6s 1.70nm 4.0mb

NB2 64.54 349 P 00 57.60 0.5
 0.9s 2.90nm 4.4mb

WRA 79.22 214 P 02 25.00 0.3
 1.1s 1.40nm 3.9mb
 S.D. = 1.1 on 11 of 11 obs.

* NOV 27, 1990 05h 55m 13.42±0.88s
 53.686 N ±12.0km 169.500 E ±11.9km
 DEPTH = 33.0km (normal)
 4.1mb (3 obs.)

27d 05h

KOMANDORSKY ISLANDS REGION (4)

SMY	2.93	107	iPc	55	58.80	0.1
TTA	20.10	49	eP	59	46.70	-0.1
IMA	21.85	41	eP	00	04.30	-0.3
FBA	24.00	45	eP	00	24.70	-0.9
TOA	24.56	52	eP	00	32.10	1.0
MBC	34.26	24	eP	01	58.00	0.3
YKA	38.81	46	eP	02	35.90	-0.3
	0.4s		0.60nm		3.7mb	
N82	64.32	348	P	05	47.80	0.4
	0.7s		1.90nm		4.3mb	
WRA	79.34	213	P	07	17.00	-0.2
	1.1s		2.60nm		4.1mb	
S.D. = 0.6 on 9 of 9 obs.						

NOV 27, 1990 06h 15m 42.49±0.34s
 43.797 N ± 3.9km 16.491 E ± 3.5km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.6 (ZAG), 3.4 (TTG).

HVAR	0.62	183	iPg	15	52.90	-2.1
			iSg	16	04.00	
BRY	1.74	120	ePg	16	12.80	-0.3
			eSg	16	36.50	
VBY	1.92	333	ePnc	16	15.80	0.3
			iSn	16	42.20	
HCV	1.99	132	ePn	16	16.00	-0.6
			eSn	16	42.00	
ZAG	2.05	350	ePn	16	16.50	-0.9
			iSg	16	46.20	
NKY	2.08	117	ePn	16	17.00	-0.9
			eSn	16	45.00	
PTJ	2.14	350	iPn	16	17.90	-0.9
			iSg	16	48.70	
RIY	2.16	317	ePn	16	20.60	1.6
			iSg	16	52.00	
PLE	2.16	101	ePn	16	20.00	0.9
			eSn	16	47.50	
CEY	2.44	324	ePn	16	24.00	1.0
			eSn	16	57.50	
TTG	2.45	123	ePn	16	24.30	1.3
			eSn	16	52.60	
ARV	2.59	265	P	16	25.50	0.3
DUI	2.61	219	P	16	19.00	-6.5X
LJU	2.64	326	ePn	16	26.00	0.1
			eSn	17	03.00	
AOU	2.68	239	P	16	26.50	0.0
TRI	2.73	315	P	16	27.50	0.4
PVY	2.82	114	ePn	16	30.00	1.5
			eSn	17	05.00	
SDI	2.87	224	P	16	28.00	-1.2
AZI	2.88	232	P	16	30.00	0.7
ASS	2.88	257	P	16	30.00	0.6
VOY	2.90	321	ePn	16	29.80	0.2
			eSn	17	10.20	
BEO	3.02	69	eP	17	18.50	47.2X
MNS	3.13	244	P	16	33.00	0.2
CRE	3.30	269	P	16	37.10	1.8
SFI	3.36	274	P	16	37.30	1.3
PGD	3.45	273	P	16	37.00	-0.5
VVI	3.62	309	P	16	40.00	0.2
FVI	3.83	318	P	16	43.00	0.2
SKO	4.07	115	ePn	17	18.00	31.9X
CTI	4.11	305	P	16	45.50	-1.3
OHR	4.17	129	ePn	16	45.00	-2.5X
SRO	4.21	17	iP	16	47.90	-0.2
			i	44	47.50	
BDI	4.27	276	P	16	50.00	1.0
PII	4.32	271	P	16	50.00	0.3
ZST	4.42	5	eP	16	48.00	-3.1X
			e	27	10.80	
			e	44	52.40	
			e	45	01.50	
			i	45	29.70	
SAL	4.62	295	P	16	55.00	1.0
SQTA	5.05	315	i(Pn)	17	00.00	-0.1
MDI	5.22	295	P	17	01.30	-1.1
PGF	5.62	260	Pn	17	08.60	0.4X
KHC	5.70	340	Pg	17	14.00	4.7X
			Sg	18	11.00	
S8F	6.55	274	Pn	17	20.80	-0.5
			Sn	18	34.80	
FRF	7.14	272	Pn	17	29.40	-0.1
BSF	7.88	304	Pn	17	39.00	-1.0
			Sn	19	03.00	

CDF	7.89	309	Pn	17	38.50	-1.6
HAU	8.23	304	Pn	17	43.00	-1.8
			Sn	19	12.80	
LBF	9.36	294	Pn	17	56.80	-3.7X
			Sn	19	40.00	
LOR	9.52	296	Pn	17	59.00	-3.6X
			Sn	19	43.40	
S.D. = 1.0 on 38 of 47 obs.						

NOV 27, 1990 06h 43m 43.05±1.03s
 43.364 N ± 7.5km 17.170 E ± 9.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.6 (ZAG).

VBY	2.54	328	iPnc	44	25.50	0.5
			iSn	44	50.50	
ZAG	2.59	341	e(Pn)	44	24.50	-1.2
			iSg	44	53.50	
DUI	2.63	231	P	44	23.50	-2.9
PTJ	2.68	342	iPn	44	26.00	-1.1
			i(Sg)	44	55.80	
RIY	2.81	316	ePn	44	29.80	1.0
			iSn	44	58.00	
SDI	2.98	237	P	44	33.00	1.7
AZI	3.08	245	P	44	33.00	0.5
CEY	3.08	321	ePn	44	33.90	1.3
			eS	45	06.50	
ARV	3.08	274	P	44	31.00	-1.7
LJU	3.27	326	ePn	44	36.50	1.1
			eSn	45	13.00	
ASS	3.31	266	P	44	38.00	2.0
TRI	3.38	315	iPc	44	32.90	-4.0X
			i	45	17.90	
			i	45	46.20	
SKO	3.44	112	ePn	44	38.00	0.2
MNS	3.44	255	P	44	40.00	2.2
OHR	3.51	129	ePn	44	56.50	17.7X
VOY	3.55	320	e(Pn)	44	41.00	1.7
			eSn	45	24.00	
CRE	3.81	276	P	44	41.00	-2.1
SFI	3.90	280	P	44	44.50	0.2
PGD	3.99	279	P	44	45.00	-0.7
VVI	4.28	309	P	44	50.00	0.3
FVI	4.49	318	P	44	52.00	-0.5
CTI	4.76	306	P	44	56.00	-0.7
BDI	4.82	281	P	44	57.00	-0.4
SQTA	5.71	315	ePn	45	08.50	-1.5
			i	45	10.10	
S.D. = 1.5 on 22 of 24 obs.						

NOV 27, 1990 06h 43m 52.41±2.22s
 43.613 N ± 7.6km 16.574 E ± 21.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

HVAR	0.44	192	iPg	44	01.60	0.1
			i	44	12.40	
			iSg	44	14.10	
ARV	2.64	269	P	44	35.10	-0.7
SDI	2.79	228	P	44	37.50	-0.5
TRI	2.90	317	P	44	39.00	-0.4
ASS	2.91	261	P	44	40.00	0.4
BEO	3.04	65	ePn	45	21.00	39.6X
CRE	3.36	272	P	44	46.80	0.7
FVI	4.01	319	P	44	55.50	0.3
S.D. = 0.7 on 7 of 8 obs.						

NOV 27, 1990 06h 46m 20.70s
 40.265 N 124.573 W
 DEPTH = 5.0km
 NEAR COAST OF NORTHERN CALIF. (35)
 <BRK>. ML 2.7 (BRK).

FHC	0.70	40	iPc	46	34.60	-0.1
			iS	46	44.10	
WDC	1.58	78	eP	46	47.30	-2.2
			eS	47	07.80	
LTCM	1.88	91	eP	46	52.00	-1.7
MIN	2.27	87	eP	46	57.00	-2.6
LBFM	2.31	61	eP	46	58.50	-1.7
ORV	2.47	106	eP	47	00.50	-1.7
			iS	47	29.60	
PCC	3.25	148	eP	47	10.70	-2.6
ARN	3.76	140	eP	47	18.50	-2.1
8 obs. associated						

NOV 27, 1990 06h 50m 11.26±2.46s
 43.746 N ± 8.6km 16.969 E ± 22.7km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

HVAR	0.68	214	iPg	50	25.60	0.8
			iSg	50	36.80	
VBY	2.14	326	ePn	50	47.70	0.2
			eSn	51	12.10	
PTJ	2.27	342	ePn	50	48.80	-0.7
			iSg	51	17.90	
RIY	2.44	312	e(Pn)	50	53.00	1.2
			iSg	51	24.00	
DUI	2.79	222	P	51	04.00	7.2X
ARV	2.93	267	P	50	58.50	-0.3
ASS	3.21	259	P	51	03.00	0.2
MNS	3.42	248	P	51	04.00	-1.8
CRE	3.64	270	P	51	09.00	0.1
SFI	3.71	274	P	51	10.30	0.5
FVI	4.11	315	P	51	15.00	-0.4
S.D. = 1.0 on 10 of 11 obs.						

NOV 27, 1990 07h 27m 40.41±0.30s
 43.841 N ± 3.9km 16.557 E ± 3.3km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.7 (ZAG), 3.5 (TTG).

HVAR	0.67	187	iPg	27	52.20	-1.5
			iSg	28	02.20	
BRY	1.73	122	ePg	28	09.50	-1.3
			eSg	28	33.00	
VBY	1.90	331	iPnc	28	14.30	1.1
			iSn	28	41.30	
HCV	1.99	134	ePn	28	13.80	-0.7
			eSn	28	39.00	
ZAG	2.02	349	iPn	28	14.50	-0.3
			iSg	28	44.50	
NKY	2.06	119	ePn	28	15.20	-0.3
			eSn	28	43.00	
PTJ	2.10	349	iPn	28	15.30	-0.9
			iSg	28	46.30	
PLE	2.12	103	ePn	28	17.40	0.9
			eSn	28	43.00	
RIY	2.16	315	ePn	28	18.20	1.3
			iSg	28	50.30	
BDV	2.28	132	ePn	28	18.50	-0.2
			eSn	28	47.00	
CEY	2.43	322	ePn	28	22.60	1.8
			eSn	28	55.50	
TTG	2.43	125	ePn	28	20.30	-0.4
			eSn	28	50.00	
LJU	2.63	328	ePn	28	24.50	0.9
			eSn	29	00.00	
ARV	2.65	264	P	28	24.00	0.1
			eSn	28	55.80	
DUI	2.67	216	P	28	26.50	2.2
TRI	2.73	314	e(Pn)d	28	25.50	0.5
			i(Sn)	29	01.00	
			i(Sg)	29	14.30	
PVY	2.79	115	ePn	28	27.00	1.0
VOY	2.89	320	ePn	28	28.50	1.0
			eSn	29	06.50	
SDI	2.94	224	P	28	27.70	-0.3
ASS	2.94	256	P	28	28.60	0.5
AZI	2.95	232	P	28	29.00	0.9
BEO	2.96	69	ePn	28	33.00	4.7X
	1.5s		0.14nm			
MNS	3.19	244	P	28	32.50	0.9
CRE	3.34	268	P	28	35.50	1.6
SFI	3.40	273	P	28	35.20	0.6
PGD	3.50	272	P	28	39.00	2.9X
RDP	3.51	235	P	28	37.00	0.8
VVI	3.63	308	P	28	39.00	1.1
MGR	3.78	192	P	28	40.00	0.1
ORI	3.78	181	P	28	38.00	-1.9
FVI	3.83	317	P	28	41.40	0.7
SKO	4.04	116	ePn	28	43.00	-0.7
			iSn	29	38.50	
CTI	4.12	304	P	28	44.80	-0.1
OHR	4.16	130	ePn	28	47.50	2.2
SRO	4.16	17	eP	28	42.80	-2.5
MME	4.24	277	P	28	47.20	0.5
BDI	4.31	275	P	28	48.10	0.5
PII	4.37	271	P	28	49.00	0.7
ZST	4.37	5	iPn	28	46.90	-1.4
			i	29	38.80	

VKA	4.43	358	eP	28	53.00	3.9X	BEO	2.92	69	iPn	50	37.50	5.8X	RZN	6.34	107	iP	51	24.50	
SAL	4.65	294	eP	28	52.00	-0.2	SDI	2.97	225	P	50	33.00	0.5	PVL	6.37	93	eP	51	19.00	-0.3
BHG	4.66	328	ePn	28	53.50	1.1	ASS	2.98	256	P	50	33.00	0.3	VLS	6.41	151	eP	51	17.00	-4.1X
FNA	4.70	129	eP	28	55.42	2.3	AZI	2.98	233	P	50	34.50	1.9	AGG	6.45	136	ePc	51	20.28	-1.5
SOTA	5.05	314	iPnd	28	59.00	0.9	RSM	3.01	273	P	50	34.80	1.8	MMK	6.52	293	ePd	51	22.60	-0.4
			iSn	29	57.50		MNS	3.23	245	Pc	50	37.50	1.3	PAIG	6.56	124	eP	51	21.08	-2.2
VAY	5.10	118	ePn	28	58.80	0.1	CRE	3.39	268	P	50	40.40	1.9				eS	52	35.40	
GRG	5.20	122	eP	28	59.42	-0.7	SFI	3.45	273	P	50	40.50	1.3	SBF	6.64	273	Pn	51	23.80	-0.7
MDI	5.24	294	P	28	59.60	-1.0	RMP	3.52	236	P	50	40.00	-0.3				Sn	52	38.20	
PGF	5.67	259	Pn	29	04.80	-2.1	PGD	3.54	272	P	50	41.50	0.8	MLR	6.85	73	eP	51	30.00	2.5
KHC	5.68	340	Pn	29	06.00	-0.8	PHP	3.54	126	ePn	50	40.50	-0.1	SLE	6.90	307	ePd	51	27.00	-1.1
			Sg	30	12.00		RDP	3.55	235	P	50	41.50	0.8	GRF	6.92	330	eP	51	28.00	-0.4
LIT	5.79	128	iP	29	06.42	-2.0	LCI	3.65	164	P	50	41.00	-1.0				e(S)	52	43.00	
SOH	5.87	119	eP	29	09.22	-0.4	VVI	3.67	307	P	50	42.50	0.1	KSP	7.01	358	eP	51	35.00	5.5X
CKI	5.99	278	P	29	11.00	-0.2	ORI	3.78	182	P	50	43.00	-1.0	BNI	7.22	283	P	51	31.80	-0.8
PRU	6.30	348	ePn	29	14.00	-1.6	MGR	3.79	192	P	50	43.00	-1.1	EMS	7.22	291	ePc	51	32.20	-0.6
			eSg	30	43.00		SOP	3.84	359	e(P)	50	43.00	-1.8	FRF	7.23	271	Pn	51	32.20	-0.5
AGG	6.48	136	eP	29	16.90	-1.3	FVI	3.86	317	P	50	44.50	-0.6				Sn	52	51.80	
SBF	6.60	273	Pn	29	17.60	-2.3	BERA	4.00	141	ePn	50	52.10	5.2X	BRG	7.26	346	ePn	51	33.00	-0.1
			Sn	30	30.60		SKO	4.01	116	ePn	50	48.00	0.9				i	52	58.00	
PAIG	6.60	124	iP	29	22.01	2.2				i(Pg)	50	59.70					e	53	04.00	
FRF	7.19	271	Pn	29	26.20	-1.9				iSn	51	36.00					e	53	15.00	
			Sn	30	46.50					i	51	44.50					e	53	29.00	
LMR	7.31	269	Pn	29	28.20	-1.6				i	51	51.50		ALN	7.58	110	eP	51	37.40	-0.1
LRG	7.41	271	Pn	29	29.00	-2.1				iSg	51	57.50		MOX	7.61	335	iPn	51	37.00	-0.9
ALN	7.62	109	eP	29	36.30	2.3	BUD	4.01	24	iPn	50	45.00	-2.2				iSn	53	43.00	
BSF	7.90	304	Pn	29	35.40	-2.7X	OHR	4.13	130	iPn	50	49.40	0.5	CLL	7.86	343	(Pn)	51	48.00	6.6X
			Sn	31	00.80					iSn	51	36.50					eSn	53	05.00	
CDF	7.90	309	Pn	29	35.30	-2.8X	SRO	4.14	16	iPn	50	48.60	-0.4				eSg	53	55.00	
HAU	8.24	304	Pn	29	40.00	-2.9X	CTI	4.16	304	P	50	49.20	-0.2	CDF	7.93	308	Pn	51	40.60	-2.0
			Sn	31	10.50		TDS	4.19	183	P	50	48.50	-1.2	BSF	7.93	304	Pn	51	41.00	-1.6
LBF	9.39	294	Pn	29	54.60	-4.2X	MME	4.28	277	P	50	53.00	1.7				Sn	53	06.50	
			Sn	31	38.40		BDI	4.35	275	P	50	54.00	1.8	HAU	8.28	304	Pn	51	45.40	-2.0
SMF	9.40	292	Pn	29	56.20	-2.6X	TPE	4.35	143	ePn	50	52.50	0.4				Sn	53	15.30	
			Sn	31	38.20		ZST	4.37	4	iPn	50	51.30	-1.0	LBF	9.43	294	Pn	52	00.20	-3.1X
LOR	9.54	295	Pn	29	57.30	-3.6X				i	50	56.60					Sn	53	41.70	
			Sn	31	42.00					i	51	43.80		SMF	9.44	292	Pn	52	01.00	-2.4
	S.D. = 1.3	on 57 of 66 obs.								i	52	08.10					Sn	53	42.20	
	NOV 27, 1990 07h 49m 44.41±0.21s						VKA	4.43	357	iPnc	50	52.20	-0.9	LOR	9.58	295	Pn	52	02.40	-3.0X
	43.843 N ± 2.8km 16.617 E ± 2.4km									iSn	51	45.10					Sn	53	45.30	
	DEPTH = 10.0km (geophysicist)					KBN	4.48	134	ePn	50	45.30	-8.5X	AVF	9.80	292	Pn	52	05.80	-2.5	
	3.8mb (2 obs.)					KMR	4.56	339	ePn	50	56.00	1.1	BGF	10.09	290	Pn	52	10.10	-2.3	
	YUGOSLAVIA (383)									iSn	51	50.60					Sn	53	56.00	
	ML 4.3 (ZAG), 4.1 (THE), 4.0					FNA	4.67	129	ePc	50	56.66	0.0	NB2	17.53	351	P	53	49.30	-0.9	
	(TTG), 3.9 (ROM).									iS	51	49.88			0.9s	3.60nm			3.5mb	
HVAR	0.68	191	iPg	49	57.00	-0.8	BHG	4.68	327	iPnd	50	58.30	1.6	GBA	59.71	101	P	00	00.00	8.4X
			iSg	50	07.20		SAL	4.69	294	P	50	56.50	-0.3	YKA	67.05	338	eP	00	36.50	-2.9X
BRY	1.69	123	ePg	50	15.00	0.7	SRN	4.70	146	ePn	51	51.02	54.1X		0.7s	1.00nm			4.1mb	
			eSg	50	38.00		LSK	4.74	140	ePn	50	55.80	-1.8		S.D. = 1.3	on 102 of 117 obs.				
VBY	1.92	330	iPnc	50	19.20	1.7	KEK	4.76	149	eP	51	03.00	5.1X		NOV 27, 1990 08h 16m 32.96±0.53s					
			iSn	50	44.60		OGA	4.97	309	iPnd	51	01.70	0.7		43.904 N ± 5.5km 16.646 E ± 5.7km					
HCY	1.96	135	ePn	50	19.00	1.0	VTS	4.98	102	ePc	51	01.00	-0.1		DEPTH = 8.2 ± 4.3 km					
			eSn	50	43.50		VAY	5.07	118	eP	51	01.40	-0.8		YUGOSLAVIA (383)					
NKY	2.02	120	ePn	50	20.20	1.2	SOTA	5.08	314	iPnc	51	03.60	1.1		ML 3.6 (ZAG), 3.5 (TTG).					
			eSn	50	47.20					iSn	52	03.20		HVAR	0.74	191	iPg	40	45.20	-2.5
ZAG	2.02	347	iPn	50	19.40	0.5	IGT	5.13	146	ePd	51	01.60	-1.4				iSg	40	59.60	
			iSg	50	49.00					eS	51	58.72		BRY	1.71	125	ePn	41	03.70	0.4
PLE	2.08	103	ePn	50	22.00	2.1	KKB	5.15	110	iP	51	04.00	0.7				eSn	41	28.00	
			eSn	50	50.00		GRG	5.16	122	ePc	51	02.96	-0.6				iPn	41	07.00	1.3
PTJ	2.11	347	iPn	50	20.30	0.0				eS	52	02.84		VBY	1.88	329	iPn	41	32.80	
			iSn	50	46.00		MDI	5.28	294	Pd	51	04.00	-1.2				iSn	41	32.80	3.9X
RIY	2.19	314	iPnc	50	23.10	1.8	KNT	5.36	118	eP	51	07.36	1.0	ZAG	1.97	346	i(Pg)	41	10.80	
			iSg	50	49.70		OSS	5.38	304	ePd	51	07.30	0.5				iSg	41	35.00	
BDV	2.25	133	ePn	50	22.50	0.3	PGB	5.67	101	iP	51	11.00	0.2	NKY	2.03	122	ePn	41	09.00	1.0
			eSn	50	52.00		KHC	5.69	339	ePn	51	10.50	-0.5				eSn	41	37.50	
TTG	2.40	125	ePn	50	25.70	1.4				ePg	51	17.70		PTJ	2.06	346	iPn	41	08.00	-0.3
			eSn	50	54.00		THE	5.70	122	eP	51	11.28	0.2				iSg	41	37.10	
CEY	2.45	321	ePn	50	27.40	2.3	MMB	5.70	111	eP	51	12.00	0.8	PLE	2.08	105	ePn	41	10.30	1.7
			eSn	51	00.90		VDL	5.70	300	ePd	51	12.20	0.8				eSn	41	37.00	
IVA	2.58	111	ePn	50	29.20	2.2	PGF	5.72	260	Pn	51	09.30	-2.2	RIY	2.16	313	ePn	41	12.10	2.4
			eSn	51	02.50		ATN	5.74	189	P	51	10.00	-1.8				iSn	41	41.10	
LJU	2.65	327	ePn	50	29.50	1.6	LIT	5.76	129	ePc	51	10.12	-1.8	BDV	2.28	135	ePn	41	12.00	0.6
			eSn	51	06.50		SRS	5.83	115	eP	51	12.85	-0.1				eSn	41	43.00	
ARV	2.69	264	P	50	29.50	1.0	SOH	5.83	119	ePd	51	12.80	-0.3	TTG	2.41	127	ePn	41	16.70	3.4X
DUI	2.70	217	P	50	28.00	-0.7	WET	5.90	335	iPnc	51	18.20	4.3X				eSn	41	48.00	
PVY	2.75	116	ePn	50	32.00	2.5	SPC	5.90	24	eP	51	13.30	-0.8	CEY	2.42	320	e(Pn)	41	15.00	1.5
			eSn	51	05.50					i	51	26.80					eSn	41	49.00	
TRI	2.76	314	ePnd	50	30.50	1.1	TMA	5.94	295	ePd	51	14.10	-0.6	IVA	2.59	112	ePn	41	17.50	1.7
			iSn	51	05.10		CKI	6.03	278	P	51	16.00	0.2				eSn	41	50.20	
			iSg	51	18.50		SAX	6.14	306	ePc	51	18.30	0.7	LJU	2.61	326	e(Pn)	41	16.00	-0.2
AQU	2.79	239	P	50	31.30	1.4	BMR	6.15	49	ePc	51	45.00	27.6X				eSn	41	52.00	
VOY	2.92	319	iPn	50	33.20	1.4	LLS	6.16	302	ePc	51	19.00	1.2	ARV	2.					

27d 08h

VOY 2.89 318 ePn 41 20.93 0.8
 ASS 3.02 255 P 41 22.40 0.5
 MNS 3.28 244 P 41 25.70 0.1
 CRE 3.41 267 P 41 29.00 1.4
 SFI 3.46 272 P 41 25.00 -3.2X
 PGD 3.56 271 P 41 28.00 -1.8
 VVI 3.65 306 P 41 30.00 -0.9
 FVI 3.83 316 P 41 35.20 1.8
 ORI 3.84 182 P 41 55.00 21.4X
 BZS 3.93 62 eP 41 33.50 -1.4X
 BUD 3.95 24 e(P) 41 45.20 10.1X
 SKO 4.01 117 ePn 41 45.00 9.0X
 SRO 4.08 16 iP 41 35.60 -1.3
 CTI 4.14 303 P 41 34.00 -3.9X
 OHR 4.15 131 ePn 41 49.50 11.5X
 ZST 4.31 4 eP 41 38.70 -1.5
 VKA 4.37 357 ePn 41 40.00 -1.1
 BDI 4.37 274 P 41 35.00 -6.2X
 SOTA 5.06 313 iPnc 41 52.20 1.3
 KHC 5.64 339 ePg 41 58.50 -0.6
 Sg 42 08.80
 43 03.50
 S.D. = 1.4 on 25 of 36 obs.

% NOV 27, 1990 09h 26m 41.00 ± 0.99s
 39.111 N ± 8.2km 27.683 E ± 10.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).
 IZM 0.78 205 iPg 26 56.00 -0.3
 DST 0.88 56 ePn 27 08.00 0.7
 BNT 1.26 8 ePn 27 03.60 -0.8
 EZN 1.27 305 ePn 27 05.40 0.8
 KGT 1.37 348 iPn 27 05.60 -0.5
 S.D. = 1.0 on 5 of 5 obs.

? NOV 27, 1990 09h 34m 52.25 ± 2.78s
 7.552 N ± 14.1km 126.867 E ± 26.7km
 DEPTH = 63.5 ± 25.8 km
 4.6mb (4 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)
 DAV 1.36 250 iPd 35 15.50 0.0
 MTN 20.70 168 iPd 39 39.20 0.5
 0.3s 5.00nm 4.3mb
 WRA 28.30 165 P 40 53.00 11.0X
 0.4s 2.10nm
 QIS 30.61 156 iPd 41 02.80 0.1
 ASPA 31.78 168 eP 41 11.90 -1.0
 0.3s 4.30nm 4.7mb
 WARB 33.53 180 eP 41 28.80 0.7
 FORR 38.20 178 eP 42 07.00 -0.5
 0.4s 26.00nm 5.5mb
 KLB 39.88 192 eP 42 22.00 0.4
 MUN 40.60 194 eP 42 27.00 -0.5
 NNAO 41.28 192 eP 42 33.30 0.2
 YKA 95.98 24 eP 48 13.50 0.1
 0.8s 1.00nm 4.4mb
 S.D. = 0.6 on 10 of 11 obs.

NOV 27, 1990 09h 38m 49.42 ± 0.39s
 43.675 N ± 6.0km 16.362 E ± 4.6km
 DEPTH = 10.6 ± 3.1 km
 YUGOSLAVIA (383)
 ML 3.0 (TTG).
 HVAR 0.50 173 iPg 39 00.20 0.6
 BRY 1.77 115 ePg 39 19.20 -1.2
 HCY 1.99 127 ePn 39 23.20 -0.2
 VBY 1.99 337 ePn 39 48.50 -0.4
 NKY 2.11 113 ePn 39 25.00 -0.3
 RIY 2.19 320 iPn 39 28.30 2.1
 PLE 2.23 98 ePn 39 27.00 0.0
 PTJ 2.24 353 iPg 39 31.00 3.8X
 iSg 39 54.80

BDV 2.28 127 ePn 39 28.00 0.3
 TTG 2.46 119 ePn 39 30.60 0.5
 CEY 2.48 327 e(Pn) 39 32.00 1.5
 ARV 2.49 267 P 39 31.00 0.4
 LJU 2.70 332 ePn 39 37.80 4.2X
 SDI 2.72 225 P 39 37.00 3.1X
 TRI 2.75 319 P 39 35.00 0.7
 ASS 2.77 259 P 39 34.20 -0.4
 PVY 2.86 111 ePn 39 37.50 1.6
 MNS 2.99 246 P 39 39.20 1.5
 CRE 3.20 271 P 39 39.70 -1.1
 SFI 3.27 276 P 39 41.00 -0.7
 VVI 3.63 311 P 39 46.00 -0.8
 FVI 3.86 320 P 39 49.00 -1.0
 CTI 4.10 307 P 39 52.30 -1.3
 OHR 4.17 126 e(Pn) 39 53.50 -0.9
 BDI 4.19 277 P 39 50.00 -4.7X
 ZST 4.55 6 eP 39 50.40 -9.4X
 SOTA 5.07 316 i(Pn) 40 07.60 0.3
 S.D. = 1.1 on 22 of 27 obs.

NOV 27, 1990 10h 01m 55.71 ± 0.67s
 40.661 N ± 6.7km 24.198 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.6 (THE).
 OUR 0.37 207 ePd 02 02.88 -0.4
 SRS 0.65 315 ePd 02 07.72 -1.0
 SOH 0.66 284 ePd 02 09.05 0.1
 PAIG 0.83 209 ePd 02 11.16 -0.6
 THE 0.94 269 eP 02 13.60 0.0
 KNT 1.11 297 ePc 02 16.46 0.0
 GRG 1.40 283 eP 02 21.92 0.7
 VAY 1.40 299 ePn 02 22.00 0.8
 ALN 1.42 80 eP 02 20.37 -1.2
 EZN 1.83 116 ePn 02 28.90 1.5
 S.D. = 0.9 on 10 of 10 obs.

& NOV 27, 1990 10h 12m 08.58s
 60.030 N 153.325 W
 DEPTH = 128.6km
 SOUTHERN ALASKA (2)
 <AGS-P>.
 INE 0.14 77 iP 12 25.72 0.8
 OPT 0.38 173 eP 12 26.51 -0.7
 PDB 0.50 241 iP 12 26.56 -1.2
 RS2 0.52 33 iP 12 27.34 -0.8
 RSO 0.52 33 iP 12 27.29 -0.8
 REF 0.56 34 iP 12 27.51 -0.8
 RDN 0.56 30 iP 12 27.55 -0.7
 NCT 0.57 20 eP 12 27.54 -0.7
 AUP 0.67 184 eP 12 28.30 -0.7
 AUE 0.67 182 eP 12 27.95 -0.9
 AUI 0.70 184 eP 12 27.89 -1.2
 RDT 0.71 40 iP 12 28.43 -0.8
 HOM 0.93 113 eP 12 30.38 -0.6
 MCNL 0.99 212 eP 12 30.22 -1.4
 XLV 1.00 125 eP 12 30.60 -1.0
 NNL 1.02 88 eP 12 32.16 0.3
 CDD 1.12 189 iP 12 31.57 -1.2
 CNPM 1.17 115 iP 12 32.38 -1.0
 BRK 1.26 101 eP 12 33.42 -0.9

NKA 1.26 54 eP 12 35.90 1.7
 CKL 1.27 22 iP 12 33.89 -0.6
 SPU 1.31 28 iP 12 34.13 -0.8
 BGL 1.32 20 iP 12 34.61 -0.4
 CRP 1.37 24 eP 12 35.14 -0.5
 CGLM 1.44 26 eP 12 35.54 -0.8
 NCG 1.49 22 eP 12 36.19 -0.8
 SLKM 1.62 71 eP 12 37.40 -1.0
 SUA 1.92 40 eP 12 41.14 -0.9
 SEW 1.94 86 eP 12 40.95 -1.2
 SKT 2.14 23 eP 12 43.47 -1.3
 PMS 2.22 55 eP 12 44.52 -1.2
 PWA 2.34 45 eP 12 45.60 -1.6
 KNK 2.77 58 eP 12 51.53 -1.2
 GHO 2.77 49 eP 12 50.28 -2.6
 CUT 2.80 30 eP 12 51.98 -1.2
 KNIM 2.81 81 eP 12 50.77 -2.5
 MTU 2.85 88 eP 12 52.77 -1.0
 37 obs. associated

NOV 27, 1990 10h 38m 12.07 ± 0.37s
 43.821 N ± 4.5km 16.604 E ± 3.6km
 DEPTH = 19.1 ± 4.2 km
 YUGOSLAVIA (383)
 ML 3.4 (TTG).
 HVAR 0.65 190 iPg 38 23.10 -1.5
 BRY 1.69 122 ePn 38 41.00 0.1
 VBY 1.94 331 iPn 38 45.50 1.1
 HCY 1.95 134 ePn 38 45.00 0.4
 NKY 2.02 119 ePn 38 46.50 0.8
 PLE 2.09 103 ePn 38 48.90 2.2
 PTJ 2.13 348 iPn 38 46.50 -0.8
 RIY 2.20 315 iPnc 38 49.30 1.1
 BDV 2.24 133 ePn 38 49.00 0.2
 TTG 2.39 125 ePn 38 52.30 1.4
 CEY 2.47 322 ePn 38 53.50 1.5
 IVA 2.58 110 ePn 38 56.00 2.2
 LJU 2.67 327 ePn 38 55.50 0.7
 DUI 2.68 217 P 38 54.00 -1.1
 ARV 2.68 264 P 38 55.50 0.5
 PVY 2.75 115 ePn 38 58.80 2.6
 TRI 2.77 314 e(Pn)d 38 57.50 1.3
 VOY 2.93 320 ePn 38 59.50 0.9
 BEO 2.94 69 ePn 39 04.00 5.4X
 SDI 2.95 225 P 38 57.20 -1.6
 ASS 2.97 257 P 38 59.50 0.4
 MNS 3.21 245 Pc 39 03.30 0.7
 CRE 3.38 268 P 39 07.00 2.0
 SFI 3.44 273 P 39 08.00 2.3
 VVI 3.67 308 P 39 08.50 -0.7
 MGR 3.76 192 P 38 59.00 -11.4X
 FVI 3.87 317 P 39 10.00 -1.9
 BZS 4.00 62 eP 39 11.50 -2.2
 SKO 4.00 116 ePn 39 18.00 4.2X
 OHR 4.12 130 ePn 39 15.80 0.3
 CTI 4.16 304 Pd 39 15.50 -0.7
 SRO 4.17 16 e(Pn) 39 12.60 -3.5X
 MME 4.28 277 P 39 19.40 1.5
 BDI 4.35 275 P 39 20.00 1.3
 ZST 4.39 4 iPn 39 17.80 -1.4
 PII 4.41 271 P 39 20.00 0.5
 VKA 4.45 358 ePn 39 19.00 -1.1
 FNA 4.66 129 eP 39 23.80 0.6

BHG 4.69 328 ePn 39 24.70 1.1
 VAY 5.06 118 ePn 39 27.40 -1.4
 SQTa 5.09 314 iPnc 39 30.30 1.0
 MDI 5.28 294 P 39 31.00 -0.9
 PGF 5.70 260 Pn 39 37.40 -0.6
 KHC 5.71 340 ePn 39 36.50 -1.4
 ePg 39 57.50
 eSg 40 47.00
 VAI 5.93 293 P 39 40.00 -1.0
 PRU 6.33 348 eP 39 52.00 5.3X
 eSg 40 50.00
 AGG 6.44 136 eP 39 46.20 -2.1
 SBF 6.63 274 Pn 39 50.20 -0.8
 Sn 41 03.00
 FRF 7.22 271 Pn 39 58.60 -0.6
 Sn 41 17.00
 BSF 7.94 304 Pn 40 09.00 -0.4
 Sn 41 32.00
 CDF 7.94 309 Pn 40 08.40 -1.0
 HAU 8.28 304 Pn 40 14.20 0.1
 Sn 41 42.60
 LBF 9.43 294 Pn 40 29.80 -0.1
 Sn 42 09.30
 LOR 9.58 296 Pn 40 31.80 -0.2
 Sn 42 12.40
 S.D. = 1.3 on 49 of 54 obs.

? NOV 27, 1990 11h 10m 42.24 ± 0.98s
 39.087 N ± 8.4km 27.604 E ± 10.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

IZM 0.74 201 ePg 10 56.60 -0.2
 eSg 11 09.10
 DST 0.95 57 ePn 11 00.70 0.4
 EZN 1.24 307 ePn 11 05.50 0.3
 BNT 1.29 11 iPn 11 05.60 -0.6
 S.D. = 0.8 on 4 of 4 obs.

% NOV 27, 1990 11h 42m 23.18 ± 3.35s
 45.870 N ± 12.0km 26.728 E ± 13.8km
 DEPTH = 96.7 ± 32.7 km
 ROMANIA (358)

VR1 0.00 278 iPc 42 36.50 0.3
 CVO 0.39 263 iPc 42 38.00 -0.1
 BRD 0.42 147 eP 42 38.00 -0.3
 MLR 0.67 236 iPc 42 40.00 -0.4
 ISR 0.74 190 ePc 42 41.50 0.5
 CLI 0.78 29 iPc 42 41.50 0.2
 CFR 1.21 124 iPc 42 45.50 -0.6
 TLB 1.58 144 ePc 42 51.00 0.4
 S.D. = 0.5 on 8 of 8 obs.

NOV 27, 1990 12h 30m 21.13 ± 0.43s
 43.800 N ± 5.2km 16.423 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

ML 3.1 (TTG).
 HVAR 0.62 178 iPg 30 32.20 -1.4
 iSg 30 42.80
 BRY 1.79 119 ePg 30 51.60 -0.8
 eSg 31 14.00
 VBY 1.90 334 iPnd 30 55.40 1.6
 iSn 31 20.60
 HCY 2.03 131 ePn 30 54.80 -1.0
 eSn 31 20.50
 RIY 2.12 317 iPnc 31 00.50 3.4X
 iSg 31 31.70
 NKY 2.12 117 ePn 30 57.00 -0.2
 eSn 31 24.00
 PTJ 2.13 351 iPnc 30 56.50 -0.7
 iSg 31 27.10
 PLE 2.21 101 ePn 30 59.50 1.0
 eSn 31 27.00
 BDV 2.32 130 ePn 31 01.00 1.0
 eSn 31 29.00
 CEY 2.40 324 ePnd 31 04.50 3.3X
 eSn 31 37.50
 TTG 2.49 122 ePn 31 03.30 1.0
 eSn 31 33.00
 ARV 2.54 264 P 31 04.10 1.0
 DUI 2.58 215 P 31 03.00 -0.7
 LJU 2.61 330 e(Pn) 31 08.50 4.4X
 eSn 31 38.00

TRI 2.69 316 P 31 07.50 2.3
 IVA 2.70 109 ePn 31 06.50 1.0
 eSn 31 40.00
 ASS 2.84 256 P 31 09.00 1.7
 SDI 2.84 223 P 31 08.50 1.1
 AZI 2.85 232 P 31 06.00 -1.4
 PVY 2.86 114 ePn 31 09.00 1.2
 eSn 31 44.50
 VOY 2.87 322 ePn 31 09.50 1.7
 eSn 31 48.50
 MNS 3.08 244 P 31 12.00 1.2
 CRE 3.25 269 P 31 11.50 -1.7
 SFI 3.31 274 P 31 12.00 -2.0
 VVI 3.58 309 P 31 18.50 0.6
 MGR 3.72 190 P 31 19.00 -0.8
 FVI 3.80 319 P 31 20.00 -0.9
 CTI 4.07 305 P 31 25.00 0.2
 SKO 4.11 115 ePn 31 32.00 6.6X
 BZS 4.12 62 eP 30 33.50 -52.0X
 OHR 4.21 128 e(Pn) 31 15.00 -11.8X
 SRO 4.23 18 iP 31 24.70 -2.3
 ZST 4.42 6 eP 31 27.40 -2.4
 SQTa 5.01 315 iPnc 31 41.60 3.3X
 MDI 5.17 295 P 31 40.00 -0.3
 S.D. = 1.4 on 28 of 35 obs.

* NOV 27, 1990 12h 37m 18.44 ± 0.96s
 31.379 N ± 15.7km 68.682 E ± 8.4km
 DEPTH = 33.0km (normol)
 4.6mb (7 obs.)
 PAKISTAN (710)

QUE 1.91 232 eP 37 50.30 0.9
 NDI 7.87 108 iPd 39 17.60 4.1X
 0.5s 14.08nm 5.3mb
 eS 41 05.00
 GKN 14.27 100 P 40 41.40 1.1
 0.6s 18.00nm 4.9mb
 DMN 14.79 101 P 40 46.92 -0.3
 0.7s 30.00nm 4.8mb
 KKN 14.88 100 P 40 48.68 0.3
 0.6s 12.00nm 4.4mb
 PKI 15.05 100 P 40 49.96 -0.8
 0.6s 11.00nm 4.3mb
 GUN 15.35 99 P 40 55.66 1.1
 0.6s 37.00nm 4.8mb
 HYB 16.54 145 eP 41 08.00 -1.6
 HFS 46.04 325 eP 45 39.60 -0.8
 0.4s 0.90nm 4.1mb
 Z 13s 0.04um 3.5mszX
 S.D. = 1.2 on 8 of 9 obs.

NOV 27, 1990 12h 48m 10.73 ± 0.52s
 43.736 N ± 6.9km 16.430 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

ML 2.7 (TTG).
 HVAR 0.56 179 iPg 48 22.60 0.5
 iSg 48 33.20
 BRY 1.75 118 ePg 48 40.30 -1.2
 eSg 49 03.50
 VBY 1.96 335 iPn 48 45.00 0.7
 iSn 49 11.50
 HCY 1.99 130 ePn 48 44.00 -0.8
 eSn 49 10.00
 NKY 2.09 115 ePn 48 46.10 -0.2
 eSn 49 13.50
 RIY 2.17 318 ePn 48 49.50 2.1
 iSn 49 19.20
 PTJ 2.19 351 ePn 48 45.50 -2.3
 iSg 49 15.70
 PLE 2.19 100 ePn 48 47.50 -0.4
 eSn 49 15.00
 TTG 2.45 121 ePn 48 51.60 0.3
 eSn 49 22.60
 ARV 2.54 266 P 48 49.00 -3.7X
 TRI 2.74 317 P 48 56.00 0.5
 SDI 2.80 224 P 48 58.00 1.6
 ASS 2.83 258 P 48 55.10 -1.7
 PVY 2.83 113 ePn 48 59.00 2.0
 eSn 49 33.00
 MNS 3.06 245 P 48 58.50 -1.6
 CRE 3.25 270 P 49 01.50 -1.4
 SFI 3.32 275 P 49 05.50 1.8
 FVI 3.85 319 P 49 12.20 1.0
 CTI 4.11 306 P 49 14.50 -0.5

SQTa 5.06 315 iPnd 49 27.90 -0.7
 S.D. = 1.4 on 19 of 20 obs.

NOV 27, 1990 14h 02m 50.72 ± 0.85s
 43.621 N ± 7.5km 16.063 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

HVAR 0.52 148 iPg 03 01.50 0.2
 iSg 03 13.00
 VBY 1.97 343 ePn 03 24.40 -0.1
 iSn 03 49.40
 ARV 2.27 268 P 03 30.00 1.1
 PTJ 2.28 350 iPg 03 28.90 -0.2
 iSg 03 54.50
 MNS 2.77 245 P 03 35.00 -1.0
 CRE 2.99 272 P 03 43.00 3.9X
 SFI 3.07 277 P 03 40.00 0.0
 FVI 3.77 323 P 03 41.00 -9.1X
 S.D. = 0.9 on 6 of 8 obs.

% NOV 27, 1990 14h 20m 49.49 ± 0.60s
 44.373 N ± 5.1km 7.358 E ± 5.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (GEN).

STV 0.13 191 P 20 53.04 0.3
 S 20 55.81
 ENR 0.15 163 P 20 52.87 -0.3
 S 20 55.54
 PZZ 0.23 306 P 20 54.61 0.2
 S 20 58.48
 ROB 0.38 102 P 20 57.15 -0.1
 S 21 02.78
 BHB 0.47 352 P 20 58.71 -0.4
 S 21 05.38
 IMI 0.60 140 P 21 01.59 -0.1
 FIN 0.63 105 P 21 01.76 -0.5
 S 21 10.27
 PCP 0.87 78 P 21 06.99 0.8
 S 21 17.99
 S.D. = 0.5 on 8 of 8 obs.

? NOV 27, 1990 14h 37m 16.87 ± 1.10s
 44.497 N ± 6.7km 7.341 E ± 12.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.7 (GEN).

PZZ 0.17 273 P 37 20.87 0.0
 S 37 23.16
 STV 0.25 183 P 37 22.23 0.0
 S 37 25.40
 ENR 0.28 168 P 37 22.77 0.1
 S 37 26.27
 BHB 0.35 351 P 37 24.08 0.0
 S.D. = 0.1 on 4 of 4 obs.

NOV 27, 1990 15h 03m 26.61 ± 0.35s
 43.805 N ± 4.2km 16.561 E ± 3.8km
 DEPTH = 13.4 ± 2.8 km
 YUGOSLAVIA (383)
 ML 3.4 (TTG).

HVAR 0.63 188 iPg 03 36.70 -2.3
 iSg 03 47.50
 BRY 1.71 121 ePg 03 56.00 -0.2
 eSg 04 19.00
 VBY 1.94 332 ePn 04 00.20 0.7
 iSn 04 26.20
 HCY 1.96 133 ePn 04 00.00 0.2
 eSn 04 25.00
 NKY 2.04 118 iPnd 04 01.60 0.6
 eSn 04 29.00
 ZAG 2.05 349 i(Pn) 04 00.00 -1.1
 iSg 04 29.50
 PLE 2.11 102 ePn 04 02.40 0.3
 eSn 04 30.00
 PTJ 2.14 349 iPn 04 01.20 -1.3
 iSg 04 31.20
 RIY 2.19 315 iPn 04 05.30 2.2
 iSg 04 37.10
 BDV 2.25 132 ePn 04 04.50 0.4
 eSn 04 32.20
 TTG 2.41 124 ePn 04 07.00 0.8
 eSn 04 36.60

CEY	2.46	323	ePn	04 08.50	1.5	40.682 N ± 2.9km	23.821 E ± 2.6km	PVC	2.79	153	iP	33 18.00	0.5	
			eSn	04 41.90		DEPTH = 13.4 ± 2.2 km					iS	33 48.80		
IVA	2.61	110	ePn	04 10.50	1.3	3.6mb (1 obs.)		DZM	6.81	184	iPc	34 10.40	-0.6	
			eSn	04 45.00		GREECE	(364)				iS	35 23.90		
ARV	2.64	265	P	04 09.50	-0.1	ML 3.7 (THE).		HNR	8.98	309	eP	34 40.00	0.1	
LJU	2.66	328	ePn	04 11.40	1.5						eS	36 25.00		
			eSn	04 43.70		OUR	0.37 160 iPc	29 13.52	-0.3	SVO	9.26	310	eP	34 42.00 -1.6
TRI	2.76	315	eP	04 12.00	0.8	SOH	0.38 292 iPd	29 12.73	-1.4			eS	36 30.00	
			i	04 47.70			iS	29 17.72		VSG	9.27	309	eP	34 45.00 1.2
PVY	2.77	115	ePn	04 13.00	1.4	PLG	0.42 223 iPc	29 21.70	6.9X			eS	36 31.00	
			eSn	04 48.50		SRS	0.47 338 iPc	29 14.73	-0.9	PMG	20.22	284	eP	36 44.00 -13.4X
SDI	2.91	225	P	04 13.00	-0.5		iS	29 21.60		WB5	31.41	257	eP	38 42.00 0.7
VOY	2.92	321	ePn	04 14.10	0.5	THE	0.65 266 ePd	29 17.33	-1.5			e	39 49.60	
			eSn	04 50.50			iS	29 25.96		WRA	31.44	257 P	38 52.00 10.4X	
AZI	2.93	233	P	04 13.00	-0.6	PAIG	0.76 188 ePc	29 20.08	-0.6		0.9s	1.10nm		
ASS	2.93	257	P	04 13.50	-0.3		eS	29 30.20		ASPA	32.25	250 iPc	38 48.70 0.1	
BEO	2.97	69	ePn	04 20.00	5.8X	KNT	0.85 305 iPd	29 21.17	-1.0		1.0s	9.80nm	4.6mb	
MNS	3.18	245	P	04 17.00	-0.2		iS	29 32.40		SPA	74.86	180 iPc	43 57.40 -0.4	
CRE	3.35	269	P	04 20.00	0.3	MMB	0.91 356 iPgc	29 22.00	-1.2		1.0s	12.50nm	4.6mb	
SFI	3.41	274	P	04 21.00	0.6	GRG	1.11 285 iPd	29 25.82	-0.9	BCAO	147.17	254 iPKPd	52 02.50 4.8X	
PGD	3.50	273	P	04 25.00	3.1		eS	29 40.89			1.0s	15.00nm		
VVI	3.66	308	P	04 24.00	-0.1	VAY	1.14 304 iPg	29 27.30	0.1			i	52 38.00	
MGR	3.74	192	P	04 23.00	-2.2		i	29 41.40						
FVI	3.86	318	P	04 27.00	0.2		iSg	29 44.00						
SKO	4.03	115	ePn	04 29.50	0.3	LIT	1.17 241 ePc	29 27.24	-0.4					
BZS	4.03	62	ePc	04 28.50	-0.8		eS	29 42.88						
OHR	4.13	129	ePn	04 32.00	1.3	RZN	1.21 34 iPg	29 29.00	0.5					
CTI	4.15	304	P	04 30.20	-0.8	KKB	1.31 335 iPg	29 30.00	0.0					
TDS	4.15	182	P	04 29.70	-1.2	RDO	1.38 70 eP	29 30.50	-0.4					
SRO	4.19	16	i(Pn)	04 30.10	-1.4	NEO	1.45 199 eP	29 31.70	-0.2					
BDI	4.32	275	P	04 35.00	1.6	KDZ	1.54 51 iPc	29 33.00	-0.3	YYYY	1.43	175 eP	43 01.00 0.0	
PII	4.37	271	P	04 34.00	-0.1	PLD	1.57 25 iP	29 35.00	1.4	LAT	2.17	148 eP	43 11.00 -0.4	
ZST	4.41	5	eP	04 31.80	-2.8	KZN	1.61 257 iPd	29 35.00	0.7			eS	43 37.00	
VKA	4.46	358	ePn	04 34.00	-1.4	ALN	1.70 82 ePd	29 35.72	0.2	PMG	4.76	164 eP	43 36.00 -12.2X	
SOTA	5.08	314	iPnd	04 44.00	-0.3	FNA	1.86 274 ePc	29 38.60	0.7	HNR	14.73	109 eP	46 04.00 -0.8	
			iSn	05 43.10			eS	30 02.64		CTA	15.20	179 eP	46 14.00 3.1X	
MDI	5.26	294	P	04 45.00	-1.7	DIM	1.88 43 iP	29 40.60	1.9	WB5	18.69	216 eP	46 54.10 -0.8	
VAI	5.91	293	P	04 55.00	-0.8	PGB	1.88 8 iP	29 39.00	0.7	RMO	21.74	173 eP	47 28.50 0.9	
						VTS	1.96 347 iPc	29 40.00	0.5	ASPA	22.00	210 eP	47 29.90 -0.3	
						AGG	2.02 215 ePd	29 40.60	0.4		1.7s	7.60nm	3.9mb	
							eS	30 08.00			Z	19s	0.30um	3.7Msz
% NOV 27, 1990 15h 13m 41.79± 0.44s						EZN	2.10 113 iPn	29 41.50	0.2			eS	51 18.60	
44.499 N ± 3.9km						SKO	2.21 306 ePn	29 43.50	0.6	BJI	52.30	331 eP	51 48.00 0.4	
DEPTH = 10.0km (geophysicist)						OHR	2.33 282 ePn	29 46.00	1.3	CD2	53.62	314 eP	51 56.40 -1.2	
NORTHERN ITALY (545)							iSg	30 22.50		LZH	56.56	319 eP	52 18.30 -0.7	
ML 2.4 (GEN).											1.4s	16.00nm	4.9mb	
PZZ	0.15	273	P	13 45.86	0.5	EVR	2.35 222 eP	29 46.00	1.0			pP	52 29.50	38kmX
			S	13 48.21		PRK	2.37 126 iPc	29 45.00	-0.1	GUN	66.25	303 P	53 26.90 2.1	
STV	0.25	177	P	13 47.29	0.1	KGT	2.66 94 iPn	29 49.00	-0.4	PKI	66.53	303 P	53 28.20 1.6	
			S	13 50.41		IGT	2.91 248 eP	29 56.36	3.5X	KKN	66.71	303 P	53 26.30 -1.3	
ENR	0.28	163	P	13 47.64	-0.2		eS	30 30.72		DMN	66.80	303 P	53 29.46 1.3	
			S	13 51.12		EDC	3.10 95 ePn	29 55.30	-0.2	GKN	67.32	303 P	53 29.94 -1.4	
BHB	0.34	355	P	13 49.18	0.3	BNT	3.14 95 iPn	29 55.00	-1.1	WMO	71.14	319 eP	53 52.70 -1.8	
			S	13 53.89		DMK	3.18 68 ePn	30 04.00	7.3X	YKA	98.66	28 eP	56 19.70 5.9X	
ROB	0.45	116	P	13 51.29	0.2	IZM	3.50 129 ePn	30 01.00	-0.3		0.9s	0.70nm	4.2mb	
			S	13 58.06		CTT	3.52 81 iPn	30 01.50	-0.1	SIV	146.29	128 ePKP	02 18.00 2.3	
RRL	0.56	319	P	13 53.14	-0.2	DST	3.84 105 iPn	30 06.20	0.1					
			S	14 00.62		ISK	3.99 83 ePn	30 20.00	11.8X					
RSP	0.65	357	P	13 54.26	-0.7	YLV	4.23 90 eP	30 26.00	14.3X					
			S	14 02.61		GBZT	4.27 87 ePn	30 32.00	19.7X					
CKI	0.70	96	P	13 55.90	0.2	IZI	4.32 93 ePn	30 12.00	-1.0					
FIN	0.71	114	P	13 55.70	-0.1	HRT	4.44 86 ePn	30 22.00	7.3X					
			S	14 05.34		ISR	4.88 23 eP	30 22.00	1.1					
IMI	0.72	144	P	13 55.49	-0.6	MLR	5.05 17 ePd	30 24.00	0.6					
			S	14 04.62		BZS	5.19 343 ePc	30 23.50	-1.6					
PCP	0.89	87	P	13 59.19	0.3	CFR	5.51 34 eP	30 38.00	8.3X	KAKJ	1.17	258 iPd	10 20.90 -0.3	
			S	14 11.84		VR1	5.60 21 ePd	30 32.00	1.0			S	10 32.30	
						NB2	21.81 343 P	33 57.60	-1.9	YAMJ	2.11	325 P	10 34.50 -0.4	
												eS	10 57.20	

[illegible]

27d 20h

SDI	2.94	224	P	53	28.00	-0.5
AZI	2.95	232	P	53	30.00	1.5
BEO	2.96	69	ePn	53	33.00	4.3X
	1.0s					
BCI	2.97	119	ePn	53	31.70	3.0X
MNS	3.19	244	P	53	32.50	0.4
KKS	3.34	121	ePn	53	35.90	1.9
CRE	3.34	268	P	53	35.60	1.3
SFI	3.40	273	P	53	35.00	0.1
RMP	3.49	236	P	53	37.60	1.4
TIR	3.49	134	ePn	53	38.00	1.7
PGD	3.50	272	P	53	37.00	0.5
RDP	3.51	235	P	53	37.00	0.4
PHP	3.58	126	ePn	53	36.60	-0.9
VVI	3.63	307	P	53	38.60	0.3
MGR	3.78	192	P	53	38.00	-2.4X
ORI	3.78	181	P	53	39.50	-0.9
FVI	3.83	317	P	53	42.20	1.2
SOP	3.84	0	e(P)	53	40.00	-1.1
KBA	3.94	326	iPnd	53	43.40	0.6
			iSn	54	32.10	
BZS	4.02	62	eP	53	39.50	-4.2X
SKO	4.05	116	ePn	53	39.50	-4.6X
CTI	4.12	304	Pd	53	45.00	-0.3
SRO	4.15	17	iPn	53	43.60	-2.0
			i	53	48.40	
			i	54	35.90	
OHR	4.16	130	iPn	53	47.00	1.2
			iSn	54	34.20	
TDS	4.19	182	P	53	45.20	-1.0
MME	4.24	277	P	53	48.00	0.9
BDI	4.31	275	P	53	47.00	-0.9
ZST	4.37	5	iPn	53	46.80	-1.8
			i	54	35.80	
PII	4.37	270	P	53	49.50	0.8
TPE	4.38	143	ePn	53	51.00	2.1
VKA	4.42	358	e(Pn)	53	46.00	-3.4X
			i	54	39.80	
KBN	4.51	134	ePn	53	50.50	-0.2
SAL	4.64	294	P	53	53.00	0.4
BHG	4.65	328	iPnd	53	53.80	1.0
PSZ	4.69	29	eP	53	50.00	-3.4X
GZR	4.70	69	ePd	53	50.00	-3.5X
FNA	4.70	129	eP	53	52.50	-1.1
OGA	4.93	310	iPnc	53	59.10	2.2
SOTA	5.05	314	iPnd	53	59.30	0.9
			i	54	53.40	
			iSn	55	00.80	
VAY	5.11	118	ePn	53	59.40	0.3
MDI	5.24	294	P	54	00.00	-1.0
OSS	5.34	304	ePd	54	03.00	0.3
KNT	5.40	118	eP	54	04.90	1.6
VDL	5.66	300	ePc	54	08.90	1.7
KHC	5.67	340	ePn	54	06.20	-1.0
			ePg	54	19.50	
			eSg	55	09.00	
PGF	5.67	259	Pn	54	07.70	0.4
LIT	5.79	128	eP	54	08.70	-0.1
SRS	5.87	115	eP	54	08.60	-1.4
WET	5.88	336	ePn	54	09.50	-0.5
VAI	5.89	293	P	54	08.50	-1.7
TMA	5.90	295	ePc	54	11.20	0.7
SPC	5.92	24	eP	54	15.00	4.3X
CKI	5.98	278	P	54	12.40	0.9
SAX	6.10	306	ePc	54	14.10	0.7
LLS	6.12	302	ePd	54	14.80	1.1
PRU	6.30	348	ePg	54	32.00	16.1X
			eSg	55	42.00	
AGG	6.48	136	eP	54	18.80	0.2
SBF	6.60	273	Pn	54	20.00	-0.2
			Sn	55	32.00	
SLE	6.86	308	ePd	54	22.70	-1.2
MLR	6.89	73	eP	54	50.00	25.5X
GRF	6.90	330	e(P)	54	25.00	0.6
			e(S)	55	51.00	
KSP	7.00	359	eP	54	27.50	1.7
			eS	55	40.50	
			e	56	06.20	
			e	56	41.50	
BNI	7.17	283	P	54	26.00	-2.4X
LPG	7.18	287	Pn	54	27.10	-1.6
			Sn	55	40.40	
FRF	7.19	271	Pn	54	27.80	-0.7
			Sn	55	46.00	
LPL	7.20	287	Pn	54	27.40	-1.4
			Sn	55	39.80	
BRG	7.25	347	ePn	54	33.00	3.7X

LMR	7.31	269	Pn	54	29.10	-1.1
LRG	7.41	270	Pn	54	31.90	0.4
MOX	7.59	335	ePn	54	34.00	0.0
			iSn	56	40.00	
BSF	7.90	304	Pn	54	37.00	-1.5
			Sn	56	02.60	
CDF	7.90	309	Pn	54	36.60	-1.9
HAU	8.24	304	Pn	54	41.70	-1.5
			Sn	56	11.10	
LBF	9.39	294	Pn	54	56.60	-2.5X
			Sn	56	38.60	
SMF	9.40	292	Pn	54	57.00	-2.2X
			Sn	56	38.00	
LOR	9.54	295	Pn	54	58.60	-2.6X
			Sn	56	41.20	
BGF	10.05	290	Pn	55	06.50	-1.7
			Sn	56	54.60	
NB2	17.52	351	P	56	45.20	-1.1
	0.9s					
YKA	67.03	338	eP	03	35.80	0.6
	0.8s					
S.D. = 1.1 on 83 of 99 obs.						

NOV 27, 1990 20h 55m 12.10±0.42s
 43.767 N ± 5.5km 16.545 E ± 4.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.2 (ZAG), 3.0 (TTG).

HVAR	0.59	187	iPg	55	22.20	-1.9
			iSg	55	33.50	
BRY	1.70	120	ePn	55	41.60	-0.4
			eSn	56	05.50	
HCV	1.95	132	ePn	55	45.50	0.0
			eSn	56	11.00	
VBY	1.97	333	iPnd	55	44.20	-1.6
			iSn	56	10.00	
NKY	2.03	117	ePn	55	47.00	0.2
			eSn	56	15.00	
ZAG	2.09	349	e(Pn)	55	46.00	-1.5
			iSg	56	15.50	
PLE	2.12	101	ePn	55	49.00	0.9
			eSn	56	18.00	
PTJ	2.17	349	iPn	55	46.00	-2.9X
			iSg	56	16.00	
RIY	2.21	316	ePn	55	49.80	0.5
			iS	56	20.20	
BDV	2.24	131	ePn	55	50.00	0.3
			eSn	56	20.00	
DUI	2.61	217	P	56	00.00	4.9X
ARV	2.63	265	P	55	54.50	-0.8
TRI	2.77	315	iP	56	26.90	29.5X
SDI	2.88	225	P	55	58.00	-0.9
ASS	2.91	258	P	56	00.00	0.6
VOY	2.95	321	e(Pn)	56	00.50	0.6
			eSn	56	36.00	
MNS	3.15	245	P	56	02.50	-0.2
CRE	3.33	269	P	56	06.50	1.1
SFI	3.40	274	P	56	07.50	1.3
FVI	3.88	318	P	56	28.00	15.0X
OHR	4.12	129	e(Pn)	56	17.50	1.1
CTI	4.16	305	P	56	25.00	7.9X
BDI	4.31	276	P	56	20.00	0.8
SAL	4.67	295	P	56	29.00	4.7X
SOTA	5.10	314	iPnd	56	29.80	-0.6
MDI	5.26	295	P	56	36.50	3.8X
VAI	5.92	293	P	56	42.50	0.7
S.D. = 1.0 on 20 of 27 obs.						

? NOV 27, 1990 20h 59m 37.14±7.41s
 36.398 N ± 70.1km 29.218 E ± 14.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.4 (ISK).

ELL	0.66	58	iPg	59	49.60	-0.7
			iSg	59	58.60	
CIN	1.50	323	eP	00	04.00	-0.1
BCK	1.53	46	iPn	00	05.50	1.0
KHL	1.94	7	iPn	00	06.00	-4.5X
ALT	2.75	15	ePn	00	22.00	-0.1
S.D. = 1.2 on 4 of 5 obs.						

* NOV 27, 1990 21h 15m 50.41±1.28s
 43.685 N ± 6.8km 16.284 E ± 14.1km

DEPTH = 10.0km (geophysicist)						
YUGOSLAVIA (383)						
HVAR	0.52	167	iPg	16	01.50	0.5
			iSg	16	13.00	
VBY	1.96	338	iPnc	16	24.20	0.2
			iSn	16	50.40	
RIY	2.14	321	eP	16	28.00	1.4
			iSg	16	58.30	
DUI	2.43	214	P	16	26.00	-4.9X
ARV	2.43	267	P	16	32.00	1.1
CEY	2.44	328	ePn	16	31.50	0.5
			eSn	17	04.00	
SDI	2.69	223	P	16	32.00	-2.5
TRI	2.71	319	P	16	32.40	-2.3
ASS	2.71	258	P	16	36.10	1.2
VOY	2.90	325	ePn	16	37.50	0.0
			eSn	17	14.00	
MNS	2.94	245	P	16	39.00	0.9
SFI	3.22	276	P	16	41.50	-0.4
FVI	3.82	321	P	16	44.00	-6.5X
CTI	4.05	307	P	16	53.00	-0.9
SOTA	5.02	316	ePn	17	08.00	0.3
			eSn	18	09.00	
S.D. = 1.4 on 13 of 15 obs.						

NOV 27, 1990 21h 16m 27.93±0.39s
 20.098 S ± 6.1km 133.644 E ± 5.6km
 DEPTH = 5.0km (geophysicist)
 4.8mb (7 obs.)
 NORTHERN TERRITORY, AUSTRALIA (591)
 Felt at Tennant Creek.

WB5	0.71	72	iPc	16	40.10	-2.1
ASPA	3.56	176	iPc	17	31.90	6.9X
	0.5s	637.40nm				
			iPg	17	42.20	
			S	18	11.10	
QIS	5.61	96	iPc	17	52.60	-1.6
			eS	19	12.00	
KNA	6.34	312	eP	18	02.70	-1.8
			eS	19	13.00	
MTN	7.60	341	eP	18	17.50	-4.6X
			eS	19	35.00	
WARB	8.84	225	eP	18	42.80	3.4X
			eS	20	22.00	
QLP	11.67	126	iPd	19	16.60	-1.6
			eS	21	19.00	
FORR	11.82	204	eP	19	21.30	1.2
	0.3s	94.00nm				6.6mb X
			eS	21	32.00	
CTA	11.85	92	eP	19	17.00	-3.7X
			eS	22	24.00	
MBL	12.98	263	eP	19	33.80	-2.0
			eS	21	55.00	
RMQ	15.26	117	eP	20	02.00	-3.9X
			i	22	45.80	
MEKA	15.31	242	eP	20	06.00	-0.5
			eS	22	49.00	
COOL	15.56	224	eP	20	09.00	-0.8
	0.2s	10.00nm				4.8mb
			eS	22	55.00	
CMS	15.76	138	eP	20	09.00	-3.3X
KLB	18.29	228	iPc	20	42.60	-1.6
	0.4s	15.00nm				4.5mb
			eS	23	53.00	
BAL	18.52	232	eP	20	45.00	-2.0
			eS	24	03.00	
BFD	18.71	157	eP	20	51.50	2.3
			e	25	12.00	
BWA	19.36	141	eP	20	59.80	2.4
			eS	24	30.50	
NWAO	19.43	226	eP	20	58.20	0.0
	0.3s	7.00nm				4.4mb
			eS	24	19.00	
COO	19.49	126	iPd	20	57.10	-1.8
			eS	24	23.40	
MUN	19.60	229	eP	20	59.00	-1.1
			eS	24	28.00	
TOO	20.24	152	iPc	21	09.00	2.2
			eS	24	39.00	
RKG	20.28	223	eP	21	13.70	6.4X
			eS	24	55.00	
CAN	20.32	141	eP	21	08.60	0.8
CNB	20.54	141	eP	21	13.00	3.0X
			eS	25	10.00	
CHG	51.51	316	eP	25	38.20	1.2

CHTO 51.51 316 iP 25 37.30 0.3
0.8s 2.75nm 4.2mb
WHN 53.66 339 eP 25 53.80 1.0
CD2 58.28 330 eP 26 26.00 -0.1
0.8s 20.00nm 5.2mb
TIY 60.87 341 eP 26 43.50 -0.4
LZH 62.59 333 eP 26 55.80 0.2
1.4s 19.00nm 5.1mb
CN2 64.03 353 eP 27 03.70 -1.0
LSA 64.24 319 P 27 08.20 1.2
GBA 64.63 297 P 27 10.00 0.8
GUN 66.42 314 P 27 21.60 0.7
PKI 66.52 314 P 27 22.24 0.7
KKK 66.75 314 P 27 23.48 0.6
DMN 66.75 314 P 27 24.00 1.1
GTA 67.12 332 iPc 27 25.80 0.9
0.8s 20.00nm 5.4mb
GKN 67.32 314 P 27 27.10 0.7
WMO 76.27 328 iPc 28 20.50 1.0
YKA 117.66 29 ePKP 35 15.60 -0.7
0.6s 0.60nm
YKA 117.66 29 ePdiff31 13.10 -20.6X
0.4s 0.20nm
PDCR 146.80 193 e(PKP)36 14.70 2.9X
SOB1 150.39 191 ePKP 36 24.10 6.6X
S.D. = 1.4 on 34 of 45 obs.

* NOV 27, 1990 21h 44m 12.26 ± 1.83s
43.733 N ± 7.1km 16.652 E ± 18.4km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

HVAR 0.57 195 iPg 44 24.10 0.2
iSg 44 35.40
VBY 2.03 331 iPnc 44 47.30 0.4
iSn 45 13.40
PTJ 2.22 347 e(Pn) 44 47.70 -2.1
iSg 45 17.20
RIY 2.28 316 ePn 44 51.30 0.7
iSg 45 22.50
CEY 2.56 322 ePn 44 55.40 0.9
eSn 45 27.00
ARV 2.70 266 P 44 57.20 0.6
LJU 2.76 328 e(Pn) 45 04.50 7.2X
eSn 45 39.50
TRI 2.85 315 P 44 58.00 -0.6
SDI 2.91 227 P 45 01.00 1.5
ASS 2.98 259 P 45 00.00 -0.5
VOY 3.02 321 ePn 45 02.80 1.7
eSn 45 39.00
MNS 3.21 247 P 45 02.00 -1.7
CRE 3.41 270 P 45 05.00 -1.7
SFI 3.48 275 P 45 08.00 0.5
FVI 3.96 318 P 45 09.50 -4.8X
CTI 4.24 305 P 45 15.50 -3.0X
S.D. = 1.3 on 13 of 16 obs.

? NOV 27, 1990 22h 03m 19.55 ± 1.93s
43.785 N ± 9.2km 16.560 E ± 39.3km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

HVAR 0.61 188 iPg 03 31.90 0.0
iSg 03 43.20
VBY 1.96 332 iPnd 03 53.80 0.7
iSn 04 19.40
PTJ 2.16 349 e(Pn) 03 55.80 -0.3
iSg 04 23.50
FVI 3.88 318 P 04 20.00 -0.4
CTI 4.16 305 P 05 10.00 45.5X
S.D. = 0.9 on 4 of 5 obs.

% NOV 27, 1990 22h 18m 43.36 ± 1.13s
39.036 N ± 9.9km 27.969 E ± 10.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.9 (ISK).

DST 0.76 42 ePg 18 56.70 -1.6
IZM 0.84 221 ePg 18 59.00 -0.7
iSg 19 11.80
KCT 1.25 14 iPn 19 06.40 -0.1
EDC 1.31 356 ePn 19 06.80 -0.8
BNT 1.32 358 ePn 19 07.20 -0.5
EZN 1.50 302 iPn 19 11.60 1.4
KGT 1.50 340 iPn 19 09.90 -0.4
IZI 1.74 41 ePn 19 15.10 1.2

YLV 1.87 35 ePn 19 17.40 1.6
S.D. = 1.3 on 9 of 9 obs.

% NOV 27, 1990 22h 36m 54.34 ± 0.84s
42.979 N ± 7.1km 12.890 E ± 11.7km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS 0.19 299 P 36 58.10 -0.5
eSg 37 02.30
ARV 0.52 4 P 37 04.00 -0.9
eSg 37 13.10
MNS 0.61 195 P 37 05.50 -1.2
iSg 37 15.00
CRE 0.94 314 P 37 13.00 0.6
AZI 1.07 158 P 37 16.50 2.1
SFI 1.21 322 P 37 17.20 0.4
eSg 37 36.50
PGD 1.24 317 P 37 18.00 0.6
eSg 37 36.00
SDI 1.45 151 P 37 19.50 -1.1
eSn 37 39.50
S.D. = 1.3 on 8 of 8 obs.

NOV 27, 1990 22h 45m 50.54 ± 0.61s
40.656 N ± 5.3km 23.716 E ± 5.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.0 (THE).

SOH 0.32 301 iPd 45 56.89 -0.3
iS 46 02.14
OUR 0.38 148 ePd 45 58.02 -0.3
eS 46 03.17
SRS 0.47 349 iPc 45 58.92 -1.2
eS 46 06.04
THE 0.57 268 eP 46 01.72 -0.4
PAIG 0.73 182 ePd 46 04.21 -0.6
eS 46 14.40
KNT 0.80 309 ePd 46 06.25 0.2
eS 46 17.68
GRG 1.04 287 eP 46 10.12 -0.1
iS 46 25.16
LIT 1.09 240 eP 46 11.72 0.7
VAY 1.09 308 ePn 46 12.20 1.2
ALN 1.79 82 eP 46 22.52 0.9
S.D. = 0.8 on 10 of 10 obs.

NOV 27, 1990 22h 49m 34.01 ± 0.73s
17.103 N ± 4.3km 120.091 E ± 5.8km
DEPTH = 65.3 ± 7.3 km
4.7mb (15 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BAG 0.83 146 iPd 49 50.90 0.3
OCP 2.63 159 eP 50 16.50 1.6
MKC 7.60 314 iP 51 17.20 -7.3X
MCO 7.93 310 iP 51 21.50 -7.5X
GZH 8.69 314 P 51 32.40 -7.2X
QIZ 9.93 283 P 51 49.50 -7.1X
E 15s 3.60um
eS 53 36.20
SSE 13.97 4 eP 52 52.00 1.8X
Z 16s 0.79um
NJ2 14.93 356 eP 53 01.50 -1.2
Z 20s 0.50um
GYA 15.55 309 P 53 09.60 -1.3
LOE 17.54 274 eP 53 36.60 0.9
KMI 18.04 299 P 53 42.00 -0.1
3.0s 110.00nm 4.5mb
Z 18s 1.60um 4.4msz
sP 53 56.00

XAN 19.62 331 P 53 58.00 -2.0
CHG 20.19 278 eP 54 05.20 -0.8
CHTO 20.19 278 eP 54 05.20 -0.8
1.0s 7.50nm 4.0mb
CD2 20.25 316 eP 54 05.10 -1.5
0.9s 30.00nm 4.6mb
TIY 21.61 343 eP 54 21.80 1.5
N 16s 0.80um
BJI 23.11 352 eP 54 35.50 0.6
0.8s 20.00nm 4.6mb
Z 16s 0.70um 4.2mszX
LZH 23.78 326 eP 54 43.00 1.3
1.5s 42.00nm 4.7mb
Z 20s 1.46um 4.4msz
N 15s 1.00um

pP 54 50.00 25kmX
sP 55 00.00

HHC 24.78 344 eP 54 52.40 1.1
SNY 24.82 6 P 54 51.10 -0.4
0.8s 10.00nm 4.3mb
Z 14s 0.60um 4.2mszX
N 16s 0.60um

BTO 24.98 342 eP 54 54.00 0.8
MAT 25.14 36 eP 54 54.00 -0.6
CN2 27.00 9 eP 55 10.00 -1.6
Z 14s 0.70um 4.4mszX
epP 55 21.00 41kmX
GTA 28.38 326 eP 55 25.20 0.9
1.2s 1010.00nm 6.3mb X
Z 18s 1.20um 4.5msz
E 14s 0.60um

MDJ 28.57 14 eP 55 25.20 -0.6
LSA 29.28 301 eP 55 27.20 -5.7X
GUN 33.28 295 P 56 07.72 -0.2
PKI 33.63 294 P 56 10.20 -0.7
0.6s 7.00nm 4.7mb
KKK 33.78 295 P 56 11.78 -0.3
DMN 33.90 294 P 56 09.80 -3.4X
GKN 34.38 295 P 56 16.40 -0.8
MBL 38.03 180 eP 56 47.60 -0.1
WMO 38.17 321 P 56 50.50 1.6
WB5 39.34 159 eP 56 57.00 -1.7
HYB 39.61 277 eP 57 01.50 0.3
GBA 41.22 271 P 57 15.40 1.1
QIS 42.04 152 iPd 57 20.10 -0.8
ASPA 42.71 161 iPc 57 25.80 -0.6
0.6s 12.50nm 4.9mb

WARB 43.50 171 eP 57 32.80 0.1
FORR 48.29 171 eP 58 09.00 -1.6
0.5s 22.00nm 5.4mb
KLB 48.47 183 iPd 58 12.00 0.0
NWA0 49.82 183 eP 58 22.00 -0.4
QUE 49.99 295 eP 58 24.30 0.2
MAIO 56.53 302 eP 59 13.00 0.8
eS 07 08.00
TOO 59.41 157 eP 59 32.80 0.7
SOD 75.69 337 iP 01 13.90 0.2
KAF 76.80 331 eP 01 19.80 -0.2
0.6s 8.40nm 4.9mb
esP 01 20.30

NUR 77.93 330 iP 01 26.20 0.0
e 01 37.00

INK 80.15 21 eP 01 38.50 0.3
MBC 80.36 12 eP 01 40.00 0.8
1.0s 9.00nm 4.7mb
DAG 83.19 351 iPd 01 53.70 -0.2
0.7s 15.07nm 5.1mb

HFS 83.23 331 eP 01 54.20 -0.2
0.5s 7.00nm 4.9mb
Z 16s 0.20um 4.6mszX

LR 40 34.00
NB2 83.99 332 P 01 58.10 -0.2
0.6s 8.10nm 4.9mb
KSP 85.33 322 iP 02 06.00 0.8
ic 02 16.70

ZST 85.79 319 eP 02 18.90 11.4X
e 23 29.00
e 23 42.40

BRG 86.70 322 e(P) 02 12.90 1.0
YKA 89.87 22 eP 02 27.20 0.4
0.7s 2.60nm 4.6mb

KIC 120.71 288 PKP 08 21.00 -0.1
LPB 172.14 87 ePKP 09 46.00 8.7X
CNBC 172.27 89 PKP 09 41.00 3.4X
SIV 178.43 45 ePKP 09 40.00 1.6

S.D. = 0.9 on 51 of 61 obs.

NOV 27, 1990 22h 51m 23.73 ± 0.53s
49.879 N ± 4.6km 7.133 E ± 8.2km
DEPTH = 10.0km (geophysicist)

GERMANY (543)

ML 2.7 (LDG), 2.4 (BNS). Felt in the Traben-Trarbach region.

BGG 0.35 22 iPg 51 30.60 -0.4
0.1s 250.00nm
iSg 51 34.80
KOE 0.67 35 iPg 51 35.90 -1.1
0.1s *****nm

iSg 51 44.40
STB 0.74 345 iPg 51 38.40 0.1
TNS 0.92 67 ePg 51 41.10 -0.2

27d 22h

GSH	0.99	331	iPg	51	51.80	1.0
			eSg	51	56.50	
BNS	1.09	1	Pgc	51	44.90	0.8
	0.3s	90.00nm				
CDF	1.47	176	Pg	51	51.90	1.5
			Sg	52	10.80	
HAU	1.95	196	Pn	51	57.80	0.6
			Pg	52	00.10	
			Sg	52	24.30	
BSF	2.06	186	Pn	51	59.60	0.7
			Pg	52	02.70	
			Sg	52	28.80	
LOR	3.40	221	Pn	52	17.80	-0.1
			Pg	52	28.20	
			Sn	52	55.30	
			Sg	53	12.30	
SSF	3.71	222	Pn	52	20.90	-1.4
SMF	3.91	215	Pn	52	23.60	-1.5
S.D. = 1.1 on 12 of 12 obs.						

& NOV 28, 1990 00h 19m 28.30s
34.017 N 117.583 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.5 (PAS). Felt in
the epicentral area.

PEC	0.37	109	iPc	19	35.40	-0.4
PLM	0.89	138	eP	19	44.50	-1.4
ABL	1.59	302	eP	19	56.70	-0.5
3 obs. associated						

% NOV 28, 1990 01h 37m 58.22±1.22s
17.429 N ±10.9km 96.545 W ±11.8km
DEPTH = 33.0km (normol)
OAXACA, MEXICO (60)

OXX	0.39	206	iP	38	07.00	-0.3
			iS	38	25.50	
EVV	1.53	48	(P)	38	24.00	0.5
IISM	1.74	333	iP	38	24.50	-2.1
			(S)	38	50.00	
IIT	2.31	314	iP	38	35.50	0.6
			(S)	39	05.00	
PPM	2.56	310	(P)	38	40.00	1.2
III	2.94	289	iP	38	44.00	0.1
S.D. = 1.5 on 6 of 6 obs.						

NOV 28, 1990 01h 38m 10.48±0.48s
47.558 N ±5.5km 7.831 E ±4.3km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.6 (LDG).

ZLA	0.39	101	iPc	38	18.40	0.0
SLE	0.49	65	iPc	38	20.50	0.0
BSF	0.75	292	Pg	38	25.30	0.0
			Sg	38	35.10	
CDF	0.93	337	Pg	38	28.50	0.2
			Sg	38	41.00	
LLS	1.05	130	eP	38	29.90	-0.6
SAX	1.07	106	eP	38	30.90	0.0
HAU	1.10	295	Pg	38	30.60	-0.5
			Sg	38	45.40	
MMK	1.51	176	eP	38	38.00	0.2
VDL	1.55	133	eP	38	37.40	-1.0
EMS	1.61	203	eP	38	40.00	0.8
TMA	1.62	153	eP	38	38.60	-0.7
OSS	1.80	118	eP	38	43.60	1.6
LOR	2.71	265	Pg	39	01.10	6.2X
			Sg	39	34.60	
SMF	2.87	253	Pg	39	03.40	6.2X
SSF	2.98	262	Pg	39	05.40	6.7X
S.D. = 0.8 on 12 of 15 obs.						

& NOV 28, 1990 01h 41m 41.50s
33.000 N 117.717 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.7 (PAS).

PLM	0.80	64	iPd	41	56.30	-1.2
PEC	1.00	27	ePd	41	59.50	-1.4
ABL	2.23	326	eP	42	21.00	1.3
BCH	2.93	319	eP	42	27.20	-2.4

4 obs. associated

& NOV 28, 1990 02h 09m 52.50s
36.067 N 117.950 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.5 (PAS).

ABL	1.60	221	eP	10	20.50	-1.0
BCH	1.95	244	eP	10	26.00	-0.6
TNP	2.09	16	eP	10	30.50	1.7
3 obs. associated						

* NOV 28, 1990 02h 22m 27.15±1.47s
24.240 S ±14.6km 66.706 W ±12.0km
DEPTH = 183.0 ±15.5 km
4.1mb (1 obs.)

SALTA PROVINCE, ARGENTINA (129)

ANT	3.43	278	iPc	23	21.60	-0.2
			iS	23	58.80	
CCH	6.84	5	P	24	05.50	-0.9
CNCB	7.49	351	Pc	24	16.50	1.3
			S	25	39.00	
LPB	7.78	350	P	24	19.00	0.1
SIV	9.76	34	P	24	44.00	-0.5
VAO	18.13	90	eP	26	28.70	0.5
			e	26	33.00	
YKA	94.44	340	eP	35	26.60	-0.2
	0.6s	0.80nm			4.1mb	
WRA	131.53	207	PKP	41	20.00	-0.1
	1.3s	1.30nm				
S.D. = 0.9 on 8 of 8 obs.						

NOV 28, 1990 02h 48m 22.21±0.48s
38.673 N ±4.8km 116.457 W ±4.8km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)

NEVADA (37)
ML 3.9 (NEIS), 4.3 (BRK).

HCR	0.44	178	P	48	31.00	-0.2
TNP	0.84	226	iPd	48	38.40	-0.2
WRN	0.97	135	P	48	40.60	-0.2
QCS	1.00	155	P	48	41.50	0.2
MZP	1.21	217	P	48	45.00	0.0
KVN	1.34	287	ePc	48	46.50	-0.5
BMTN	1.39	186	P	48	48.20	0.4
FRI	3.07	238	eP	49	12.30	0.6
			iS	49	58.30	
CMB	3.15	260	eP	49	19.20	6.3X
			iS	49	59.40	
DUG	3.21	61	eP	49	13.00	-0.7
LLA	4.11	241	eP	49	36.20	9.8X
PRI	4.20	234	eP	49	34.50	6.7X
ARN	4.22	253	P	49	39.00	10.9X
MHC	4.30	254	eP	49	41.30	11.9X
MIN	4.32	294	eP	49	28.80	-0.8
DAU	4.38	65	e(P)	49	30.00	-0.6
ABL	4.41	211	eP	49	41.80	10.8X
BKS	4.62	262	iPd	49	49.10	15.5X
PEC	4.80	187	e(P)	49	40.00	3.6X
LBFM	4.95	304	eP	49	38.00	-0.6
WDC	5.07	294	eP	49	47.30	7.3X
BW06	6.65	50	e(P)	50	02.50	-0.2
LRM	7.74	21	eP	50	36.80	19.0X
ALO	8.84	112	e(P)	50	51.30	18.1X
YKA	23.88	2	eP	53	39.10	2.8
	0.7s	0.50nm			3.2mb	
S.D. = 1.0 on 14 of 25 obs.						

% NOV 28, 1990 03h 33m 51.80±0.78s
40.204 N ±9.1km 28.904 E ±6.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.0 (ISK).

KCT	0.42	276	iPg	34	00.30	-0.1
IZI	0.45	73	ePg	34	00.80	-0.3
			eSg	34	07.80	
YLV	0.51	45	iPg	34	02.30	0.2
DST	0.63	200	ePg	34	04.70	0.1
HRT	0.85	43	ePn	34	08.30	0.1
S.D. = 0.3 on 5 of 5 obs.						

* NOV 28, 1990 03h 41m 24.35±2.18s
32.857 S ±15.6km 70.016 W ±14.7km

DEPTH = 131.2 ±26.3 km
CHILE-ARGENTINA BORDER REGION (127)

JACH	0.52	290	iPc	41	44.00	0.0
			iS	41	57.50	
FCH	0.52	206	iPd	41	44.20	-0.1
			iS	51	57.60	
SAN	0.80	222	iP	41	46.20	0.2
			iS	42	01.10	
ROCH	0.84	262	iPc	41	46.50	0.0
			iS	42	02.00	
PCH	0.87	209	iP	41	46.60	0.0
			iS	42	03.00	
LCCH	1.44	244	iPd	41	52.60	0.4
			iS	42	13.00	
LNV	1.60	226	iPd	41	53.50	-0.5
			iS	42	15.00	
ZON	1.73	41	eP	41	55.00	-0.6
CFA	1.95	51	eP	41	58.90	0.6
			S	42	23.90	
S.D. = 0.5 on 9 of 9 obs.						

NOV 28, 1990 05h 18m 30.43±0.63s
44.053 N ±5.1km 7.141 E ±6.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN), 1.9 (LDG).

STV	0.23	35	P	18	35.57	0.1
			S	18	39.05	
ENR	0.27	49	P	18	36.08	0.0
			S	18	39.98	
SBF	0.29	132	Pg	18	36.60	0.2
			Sg	18	40.10	
PZZ	0.45	356	P	18	39.77	0.1
			S	18	46.13	
ROB	0.58	65	P	18	41.92	-0.3
			S	18	49.31	
FRF	0.61	216	Pg	18	42.20	-0.5
			Sg	18	49.40	
LMR	0.85	213	Pg	18	47.30	0.4
			Sg	18	57.80	
S.D. = 0.4 on 7 of 7 obs.						

? NOV 28, 1990 05h 28m 36.55±1.32s
43.776 N ±8.6km 16.388 E ±19.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

HVAR	0.60	176	iPg	28	48.80	0.1
			iSg	28	59.80	
VBY	1.91	335	Pn	29	10.50	1.1
			iSn	29	36.20	
RIY	2.12	318	ePn	29	17.20	4.7X
			iSg	29	47.30	
PTJ	2.15	352	e(Pn)	29	12.00	-0.9
			iSg	29	42.00	
TRI	2.69	317	iPd	29	28.40	7.8X
			i	30	03.40	
ASS	2.81	257	P	29	22.00	-0.3
SDI	2.81	223	P	29	25.90	3.6X
CRE	3.22	269	P	29	35.50	7.3X
SFI	3.28	274	P	29	40.50	11.5X
FVI	3.80	319	P	29	30.00	-6.3X
S.D. = 1.5 on 4 of 10 obs.						

? NOV 28, 1990 06h 02m 18.84±3.14s
6.884 S ±18.2km 129.242 E ±17.9km
DEPTH = 129.4 ±34.7 km
4.7mb (2 obs.)

BANDA SEA (280)

MTN	6.21	163	eP	03	50.40	1.0
KNA	8.82	183	eP	04	23.90	-0.9
			eS	05	54.00	
WB5	13.84	159	eP	05	29.10	-1.7
			e	05	36.00	
			eS	07	57.00	
MBL	16.86	212	eP	06	09.20	0.7
			eS	09	04.00	
QIS	16.90	145	eP	06	10.00	1.0
			eS	09	07.00	
ASPA	17.28	165	eP	06	13.60	-0.1
	0.4s	8.20nm			4.4mb	
			eS	09	13.40	
WARB	19.35	187	eP	06	37.10	0.3
			eS	10	37.00	

GUN 54.31 312 P 11 34.60 0.0
PKI 54.48 311 P 11 35.60 -0.2
GKN 55.29 311 P 11 41.50 0.1
0.4s 9.00nm 5.1mb
S.D. = 1.0 on 10 of 10 obs.

* NOV 28, 1990 06h 09m 02.85±2.57s
43.784 N ± 9.5km 16.833 E ± 25.8km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

HVAR 0.67 205 iPg 09 16.00 -0.1
iSg 09 27.10
VBY 2.06 327 ePn 09 38.90 1.1
iSn 10 04.40
PTJ 2.20 344 e(Pn) 09 38.30 -1.8
iSg 10 08.50
RIY 2.34 313 ePn 09 44.00 2.0
iSg 10 13.80
ARV 2.84 266 P 09 49.00 -0.1
TRI 2.91 312 iP 09 53.10 3.1X
i 10 29.30
SDI 3.04 228 P 09 53.50 1.6
ASS 3.12 258 P 09 53.00 -0.1
MNS 3.35 247 P 09 55.50 -0.8
CRE 3.54 269 P 09 57.30 -1.8
FVI 4.01 316 P 10 13.00 7.4X
S.D. = 1.6 on 9 of 11 obs.

NOV 28, 1990 06h 16m 38.93±0.50s
43.816 N ± 5.3km 16.537 E ± 5.6km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 3.0 (TTG).

HVAR 0.64 186 iPg 16 50.30 -1.5
iSg 17 01.30
BRY 1.73 121 ePn 17 09.50 0.2
eSn 17 33.00
VBY 1.92 332 ePn 17 11.40 -0.5
iSn 17 36.60
HCY 1.98 133 ePn 17 13.50 0.6
eSn 17 40.00
NKY 2.06 118 ePn 17 15.00 0.9
eSn 17 42.00
PTJ 2.12 349 ePn 17 12.90 -2.1
iSg 17 42.90
PLE 2.13 102 ePn 17 16.50 1.3
eSn 17 46.00
RIY 2.17 316 ePn 17 17.00 1.5
iSn 17 44.40
CEY 2.44 323 ePn 17 19.50 0.0
eSn 17 52.90
ARV 2.63 264 P 17 23.50 1.4
eSn 17 55.00
LJU 2.64 328 e(Pn) 17 28.00 5.7X
eSn 18 00.50
TRI 2.74 315 P 17 23.00 -0.6
VOY 2.90 321 ePn 17 26.10 0.0
eSn 18 04.00
SDI 2.91 224 P 17 26.80 0.6
ASS 2.92 257 P 17 26.50 0.2
MNS 3.17 244 P 17 29.50 -0.3
eSn 18 08.20
CRE 3.33 268 P 17 33.00 0.8
SFI 3.39 273 P 17 35.00 2.1
MGR 3.75 192 P 17 37.00 -1.1
FVI 3.84 318 P 17 39.00 -0.3
eSn 18 22.00
CTI 4.13 304 P 17 42.00 -1.4
eSn 18 28.00
TDS 4.16 182 P 17 42.00 -1.8
SOTA 5.06 314 iPnd 17 52.80 -3.9X
i 17 59.50
iSn 18 52.10
S.D. = 1.2 on 21 of 23 obs.

* NOV 28, 1990 06h 53m 46.81±0.74s
44.929 N ± 11.3km 27.206 E ± 7.1km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

ISR 0.51 294 iPd 53 57.00 -0.2
TLB 0.68 120 ePd 54 00.00 -0.3
CFR 0.72 69 iPc 54 01.00 0.1
MLR 1.06 303 iPd 54 07.00 0.2
PSN 1.43 150 eP 54 13.00 0.2

PVL 2.18 219 eP 54 28 00 4.4X
S.D. = 0.3 on 5 of 6 obs.

% NOV 28, 1990 07h 27m 17.80±1.00s
17.164 N ± 14.9km 94.942 W ± 8.7km
DEPTH = 33.0km (normal)

CHIAPAS, MEXICO (61)

EVV 1.34 343 eP 27 40.00 -0.4
OXX 1.71 267 iP 27 45.50 -0.4
iS 28 07.00
SCX 2.25 101 iP 27 53.50 0.1
iS 28 19.00
IISM 2.94 308 eP 28 03.50 0.2
iS 28 31.00
PPM 3.98 299 iP 28 19.00 0.4
iS 28 52.00
S.D. = 0.5 on 5 of 5 obs.

* NOV 28, 1990 07h 47m 15.89±1.47s
44.234 N ± 7.3km 16.307 E ± 17.5km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

HVAR 1.06 174 iPg 47 19.20 -16.7X
iSg 47 30.30
VBY 1.47 330 ePn 47 43.50 1.0
iSn 48 07.40
PTJ 1.68 352 e(Pn) 47 44.30 -1.3
iSg 48 13.60
RIY 1.76 310 ePn 47 47.30 0.7
iSg 48 19.40
TRI 2.33 310 eP 48 03.70 8.9X
i 48 36.70
ARV 2.54 254 P 47 58.00 0.1
ASS 2.89 248 P 48 02.00 -0.9
SDI 3.12 217 P 48 05.50 -0.6
eSn 48 31.00
SFI 3.23 266 P 48 12.00 4.5X
FVI 3.43 315 P 48 19.00 8.7X
CTI 3.76 300 P 48 21.00 5.7X
MGR 4.13 188 P 48 21.20 0.8
S.D. = 1.1 on 7 of 12 obs.

% NOV 28, 1990 08h 55m 34.31±1.50s
17.126 N ± 16.6km 95.119 W ± 9.3km
DEPTH = 87.7 ± 42.3 km

OAXACA, MEXICO (60)

EVV 1.34 351 iP 55 58.50 0.2
iS 56 15.00
OXX 1.53 269 iP 56 01.00 0.0
iS 56 22.00
SCX 2.41 99 iP 56 12.50 0.0
iS 56 40.00
IISM 2.84 311 eP 56 17.50 -0.9
iS 56 44.00
IIT 3.57 302 eP 56 29.00 0.2
iS 57 10.00
PPM 3.85 301 iP 56 33.50 0.5
ACX 4.54 267 (P) 57 28.00 45.9X
S.D. = 0.7 on 6 of 7 obs.

? NOV 28, 1990 09h 00m 28.61±10.84s
41.370 N ± 56.9km 30.990 E ± 57.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

HRT 1.14 242 iPg 00 49.70 -0.3
GPA 1.20 206 ePg 00 51.00 0.0
GBZT 1.30 244 ePg 00 53.00 0.3
iSg 01 04.50
YLV 1.46 237 iPg 00 55.20 0.1
IZI 1.55 229 iPg 00 56.20 -0.1
S.D. = 0.3 on 5 of 5 obs.

NOV 28, 1990 09h 10m 56.58±0.59s
35.199 N ± 6.2km 27.801 E ± 5.6km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

MD 3.7 (ATH).

ARG 1.05 15 ePn 11 16.00 -0.3
KSL 1.72 57 ePn 11 27.50 0.8
NPS 1.79 273 ePn 11 29.50 1.7
ELL 2.30 47 iPn 11 36.10 0.8
CIN 2.41 5 eP 11 36.00 -0.6

APE 2.62 316 ePn 11 39.00 -0.7
SMG 2.62 343 ePn 11 38.00 -1.6
VAM 2.95 275 ePn 11 45.00 0.6
BCK 3.19 44 ePn 11 49.00 1.2
IZM 3.22 352 ePn 11 47.50 -0.7
KHL 3.41 23 iPn 11 51.30 0.3
VLI 4.23 292 ePn 12 02.50 0.0
ALT 4.27 25 eP 12 14.00 10.8X
KOT 6.26 146 ePn 12 30.00 -1.2
JVI 7.09 115 eP 12 44.00 1.1
MKT 7.48 122 eP 12 42.00 -6.5X
MBH 8.06 130 eP 12 55.00 -1.5
S.D. = 1.1 on 15 of 17 obs.

NOV 28, 1990 09h 21m 30.44±0.53s
40.156 N ± 5.1km 20.421 E ± 4.9km
DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)
MD 3.4 (ATH).

LSK 0.14 93 iPg 21 31.80 -2.0
TPE 0.34 294 iPg 21 35.50 -2.0
SRN 0.43 230 iPg 21 39.60 0.5
KBN 0.55 33 ePg 21 41.50 -0.2
IGT 0.63 186 ePc 21 43.46 0.4
eS 21 54.50
KEK 0.65 227 ePb 21 43.00 -0.5
BERA 0.65 327 ePg 21 41.70 -1.8
FNA 0.96 49 ePc 21 47.38 -1.4
eS 22 01.18
OHR 1.00 17 iPg 21 49.50 0.1
iSg 22 04.20
KZN 1.04 81 ePb 21 48.00 -2.2
TIR 1.26 341 ePn 21 56.20 2.3
PHP 1.53 1 ePn 22 00.00 2.2
LIT 1.59 91 iPd 21 59.21 0.5
eS 22 23.34
EVR 1.64 139 ePn 22 00.00 0.5
GRG 1.71 61 iPc 22 00.94 0.5
iS 22 24.26
AGG 1.86 127 ePc 22 04.14 1.5
eS 22 32.58
SKO 1.97 23 ePn 22 05.00 0.8
i 22 07.00
iSg 22 32.70
VAY 2.00 54 ePn 22 04.70 0.0
KNT 2.14 61 eP 22 06.98 0.4
eS 22 36.82
SOH 2.33 73 eP 22 09.66 0.1
PAIG 2.51 94 ePd 22 11.98 0.0
eS 22 45.62
S.D. = 1.3 on 21 of 21 obs.

* NOV 28, 1990 09h 49m 04.27±0.77s
37.586 N ± 12.3km 71.171 E ± 10.4km
DEPTH = 33.0km (normal)

3.9mb (2 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

QUE 8.17 207 eP 51 03.70 0.1
eS 52 24.20
GKN 14.80 126 P 52 32.20 -0.9
KKN 15.36 125 P 52 40.00 -0.5
DMN 15.37 126 P 52 40.80 0.1
PKI 15.59 126 P 52 43.00 -0.6
GUN 15.67 124 P 52 46.40 1.8
NUR 37.03 323 iP 56 17.00 4.6X
0.6s 35.20nm 5.4mb X
HFS 42.30 321 eP 56 56.20 0.1
0.5s 1.70nm 4.0mb
NB2 43.60 322 P 57 06.60 -0.1
0.6s 1.10nm 3.8mb
S.D. = 1.0 on 8 of 9 obs.

? NOV 28, 1990 10h 21m 43.28±0.99s
39.106 N ± 8.9km 27.605 E ± 16.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

IZM 0.76 201 iPg 21 58.10 0.0
iSg 22 10.10
DST 0.94 57 ePn 22 01.20 0.0
EDC 1.26 9 ePn 22 06.80 0.2
BNT 1.27 11 ePn 22 06.70 -0.2
S.D. = 0.3 on 4 of 4 obs.

28d 10h

? NOV 28, 1990 10h 29m 20.04±1.08s
63.373 N ±10.5km 11.002 E ±16.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.9 (BER).

RGS 0.44 216 iPg 29 28.00 -0.9
eS 29 33.60
NSS 1.24 20 eP 29 42.76 -0.2
eS 29 59.94
MDL 1.77 244 eP 29 51.68 0.8
eS 30 14.84
NRA0 2.66 174 Pn 30 04.10 0.4
Lg 30 49.10
S.D. = 1.3 on 4 of 4 obs.

& NOV 28, 1990 10h 43m 59.75s
63.089 N 150.834 W
DEPTH = 127.6km
CENTRAL ALASKA (1)
<AGS-P>.

TRF 0.44 34 eP 44 18.29 -0.4
eS 44 32.35
HUR 0.56 101 eP 44 18.85 -0.3
eS 44 32.96
CUT 0.73 159 iP 44 20.15 -0.2
eS 44 36.20
RND 0.95 70 eP 44 21.84 -0.5
eS 44 38.47
MCK 1.07 52 eP 44 23.00 -0.5
eS 44 39.97
SKT 1.16 196 iP 44 23.79 -0.5
eS 44 42.40
BWN 1.25 29 eP 44 24.93 -0.3
eS 44 45.42
PWA 1.51 162 eP 44 28.02 -0.1
eS 44 50.07
GHO 1.59 145 eP 44 28.86 -0.3
eS 44 51.22
SUA 1.63 178 eP 44 29.90 0.2
eS 44 52.18
PLRM 1.70 151 eP 44 29.53 -0.8
eS 44 53.13
NCG 1.80 201 eP 44 31.10 -0.6
eS 44 56.68
CGLM 1.87 198 eP 44 32.07 -0.5
eS 44 56.32
PMS 1.95 162 eP 44 33.03 -0.4
eS 44 58.28
BGL 1.97 202 eP 44 33.55 -0.2
SPU 2.00 197 eP 44 33.47 -0.6
KNK 2.02 145 eP 44 33.49 -0.8
CKL 2.03 201 eP 44 33.98 -0.5
CCB 2.06 39 eP 44 33.29 -1.5
SCM 2.06 126 eP 44 34.66 -0.2
TOA 2.37 113 eP 44 37.87 -0.9
PAX 2.45 90 eP 44 39.33 -0.5
SDG 2.49 101 eP 44 39.72 -0.6
SLKM 2.61 173 eP 44 41.01 -0.8
RDT 2.63 197 eP 44 41.61 -0.6
KLU 2.80 123 eP 44 42.69 -1.7
GLI 2.83 140 eP 44 43.22 -1.5
SEW 3.07 167 eP 44 45.99 -1.8
KNIM 3.12 150 eP 44 45.89 -2.6
CLNM 3.58 183 eP 44 53.37 -1.3
GLB 3.68 114 eP 44 54.74 -1.2

31 obs. associated

* NOV 28, 1990 10h 46m 25.04±1.20s
40.869 N ±8.8km 29.560 E ±8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.1 (ISK).

HRT 0.09 120 iPg 46 27.70 0.0
GBZT 0.12 227 ePg 46 28.30 0.3
iSg 46 31.00
YLV 0.33 205 iPg 46 31.60 -0.4
iSg 46 37.10
ISK 0.43 297 ePg 46 33.70 -0.1
IZI 0.54 187 ePg 46 36.10 0.2
iSg 48 58.10
S.D. = 0.4 on 5 of 5 obs.

? NOV 28, 1990 10h 48m 33.95±8.18s
39.567 N ±47.4km 29.542 E ±44.7km

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.3 (ISK).

DST 0.71 273 ePg 48 48.00 0.1
eSg 48 59.70
IZI 0.77 356 iPg 48 48.10 -0.9
YLV 1.01 353 iPg 48 54.10 1.0
iSg 49 08.10
KCT 1.14 307 ePn 48 55.10 -0.2
S.D. = 1.4 on 4 of 4 obs.

? NOV 28, 1990 11h 12m 24.38±1.90s
43.367 N ±7.8km 12.999 E ±19.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV 0.14 343 P 12 28.00 0.3
iSg 12 34.00
ASS 0.39 220 P 12 33.00 0.7
eSg 12 40.50
CRE 0.81 289 P 12 39.60 -0.5
MNS 1.01 194 P 12 43.00 -0.5
eSg 12 58.00
S.D. = 1.0 on 4 of 4 obs.

* NOV 28, 1990 11h 32m 57.41±1.89s
23.027 N ±14.2km 121.548 E ±15.4km
DEPTH = 99.4 ±18.3 km
4.0mb (6 obs.)

TAIWAN (244)

ANP 2.15 359 eP 33 32.70 0.2
SSE 8.04 358 eP 35 04.20 11.0X
E 16s 0.90um
LZH 20.12 314 eP 37 24.00 -1.8
1.5s 20.00nm 4.2mb
Lg 43 30.00
CHTO 21.52 263 eP 37 41.00 1.2
0.9s 2.56nm 3.6mb
GUN 32.49 286 P 39 20.80 -0.3
KKN 33.02 286 P 39 24.80 -0.7
GKN 33.59 286 P 39 32.00 1.6
ASPA 47.94 165 eP 41 27.90 0.1
0.7s 3.70nm 4.3mb
WARB 49.17 174 eP 41 36.20 -1.0
0.2s 6.00nm 5.2mb X
HFS 78.73 331 eP 44 49.60 -0.5
0.4s 1.20nm 4.1mb
Z 19s 0.09um 4.1Msz
LR 18 43.00
NB2 79.40 332 P 44 53.60 -0.1
0.7s 2.20nm 4.1mb
YKA 83.90 23 eP 45 18.40 1.3
0.9s 0.80nm 3.7mb
S.D. = 1.2 on 11 of 12 obs.

NOV 28, 1990 12h 33m 51.63±0.33s
43.819 N ±3.8km 16.583 E ±3.4km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
ML 3.8 (ZAG). MD 3.8 (TRI).

HVAR 0.65 189 iPg 34 02.40 -2.2
i 34 09.40
iSg 34 13.80
BRY 1.70 122 ePg 34 21.50 -0.1
eSg 34 43.20
VBY 1.93 331 iPnc 34 24.90 0.1
iSn 34 50.70
HCY 1.96 134 ePn 34 25.30 0.0
eSn 34 51.00
NKY 2.03 119 ePn 34 26.50 0.1
eSn 34 55.00
ZAG 2.04 348 iPn 34 25.50 -0.9
iSg 34 55.00
PLE 2.10 102 ePn 34 28.50 1.1
eSn 34 55.00
PTJ 2.13 348 iPnc 34 26.00 -1.8
iSg 34 58.00
RIY 2.19 315 iPnc 34 30.40 1.9
iSg 35 01.10
BDV 2.25 132 ePn 34 31.00 1.5
eSn 35 00.00
CEY 2.46 322 ePn 34 32.90 0.5
eSn 35 06.50
LJU 2.66 328 ePn 34 35.50 0.2

ARV 2.66 264 P 35 09.00 eSn 35 09.00
eSn 34 35.00 -0.3
DUI 2.66 217 P 34 36.50 1.1
AQU 2.75 239 P 34 37.30 0.6
TRI 2.76 314 ePnc 34 36.50 -0.2
iSn 35 10.90
iSg 35 24.30
VOY 2.92 320 ePn 34 38.80 -0.3
eSn 35 19.40
SDI 2.93 225 Pc 34 39.20 0.0
eSn 35 14.00
AZI 2.95 233 P 34 40.20 0.9
eSn 35 15.00
ASS 2.95 257 P 34 39.50 0.0
eSn 35 15.50
BEO 2.95 69 ePn 34 40.00 0.6
1.0s 0.10nm
MNS 3.20 245 P 34 43.00 0.1
eSn 35 20.00
CRE 3.36 268 P 34 47.00 1.6
SFI 3.42 273 P 34 46.60 0.5
PGD 3.52 273 P 34 49.00 1.4
VVI 3.66 308 P 34 49.00 -0.6
ORI 3.75 182 P 34 52.00 1.1
MGR 3.76 192 P 34 49.50 -1.4
eSn 35 35.00
FVI 3.86 317 P 34 51.50 -0.8
BZS 4.01 62 eP 34 53.50 -0.9
SKO 4.02 116 ePn 34 57.00 2.5
iSn 36 00.70
OHR 4.13 130 ePn 34 57.00 0.9
CTI 4.15 304 P 34 55.00 -1.5
TDS 4.16 183 P 34 55.50 -1.1
MME 4.26 277 P 34 59.50 1.3
BDI 4.33 275 P 35 01.00 1.9
PII 4.39 271 P 35 00.50 0.7
VKA 4.45 358 e(Pn) 34 56.00 -4.7X
FNA 4.67 129 eP 35 09.78 5.9X
SAL 4.67 295 P 35 04.00 0.2
BHG 4.68 328 iPnd 35 04.10 0.1
OGA 4.96 310 ePn 35 09.20 1.1
VAY 5.08 117 ePn 35 04.60 -4.9X
SQTA 5.08 314 iPnd 35 10.40 0.7
iSn 36 10.30
IGT 5.12 145 eP 35 07.50 -2.7
GRG 5.17 122 eP 35 09.54 -1.4
BOB 5.21 283 P 35 11.30 -0.2
MDI 5.27 294 P 35 10.50 -1.7
PGF 5.69 260 Pn 35 17.00 -1.3
AGG 6.45 136 eP 35 32.60 3.6X
SBF 6.62 274 Pn 35 29.80 -1.6
Sn 36 42.40
FRF 7.21 271 Pn 35 38.00 -1.6
Sn 36 56.00
LPG 7.21 287 Pn 35 37.00 -2.9X
Sn 36 55.20
LPL 7.23 287 Pn 35 37.30 -2.8X
Sn 36 56.20
BRG 7.28 347 e(P) 36 12.00 31.4X
e 37 21.00
e 37 55.00
MOX 7.62 335 eP 35 43.00 -2.3X
BSF 7.93 304 Pn 35 46.20 -3.6X
Sn 37 10.40
CDF 7.93 309 Pn 35 45.00 -4.8X
HAU 8.27 304 Pn 35 50.00 -4.5X
Sn 37 19.10
LBF 9.42 294 Pn 36 07.40 -2.9X
Sn 37 48.60
LOR 9.57 296 Pn 36 09.90 -2.5X
Sn 37 51.00
DST 9.94 111 ePn 35 30.70 -46.9X
BGF 10.08 291 Pn 36 16.00 -3.4X
Sn 38 04.00
S.D. = 1.2 on 48 of 63 obs.

* NOV 28, 1990 13h 46m 26.60±1.00s
42.620 N ±7.7km 24.222 E ±10.8km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
ML 2.8 (THE).

SRS 1.57 198 ePd 46 54.30 -0.3
iS 47 15.66
KNT 1.76 215 ePd 46 57.21 -0.1
eS 47 20.22

VAY 1.79 224 ePn 46 58.00 0.3
 SOH 1.91 200 ePd 46 59.06 -0.5
 IS 47 26.66
 GRG 2.15 220 eP 47 03.54 0.6
 ES 47 33.14
 ALN 2.20 141 eP 47 03.86 0.2
 BZS 3.53 329 eP 47 22.50 -0.1
 S.D. = 0.4 on 7 of 7 obs.

% NOV 28, 1990 14h 02m 20.26 ± 0.97s
 39.130 N ± 8.3km 27.540 E ± 16.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

IZM 0.76 197 iPg 02 35.20 0.0
 ISg 02 48.20
 DST 0.97 60 iPn 02 38.70 0.0
 EDC 1.24 11 iPn 02 43.80 0.5
 BNT 1.26 13 iPn 02 43.10 -0.5
 KCT 1.28 29 iPn 02 44.10 0.1
 S.D. = 0.5 on 5 of 5 obs.

? NOV 28, 1990 14h 14m 24.89 ± 3.66s
 39.589 N ± 28.8km 28.445 E ± 17.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.14 83 iPg 14 28.00 -0.3
 ESg 14 31.20
 KCT 0.66 354 iPg 14 37.30 -0.8
 BNT 0.87 332 ePg 14 42.00 0.5
 IZI 1.09 46 ePn 14 46.00 0.6
 S.D. = 1.1 on 4 of 4 obs.

* NOV 28, 1990 14h 37m 12.40 ± 0.95s
 24.715 N ± 16.5km 92.138 E ± 13.2km
 DEPTH = 33.0km (normal)
 INDIA-BANGLADESH BORDER REGION (315)

SHL 0.88 345 iP 37 28.50 0.0
 IS 47 55.50
 GUN 6.46 301 P 38 48.42 0.4
 PKI 6.68 297 P 38 52.58 1.4
 KKN 6.88 298 P 38 53.74 0.0
 DMN 6.94 296 P 38 53.60 -1.1
 GKN 7.48 298 P 39 01.50 -0.7
 CHTO 8.63 132 eP 39 18.00 0.0
 S.D. = 1.0 on 7 of 7 obs.

? NOV 28, 1990 15h 10m 27.70 ± 0.95s
 13.800 N ± 11.5km 145.101 E ± 23.1km
 DEPTH = 33.0km (normal)
 4.9mb (2 obs.)
 MARIANA ISLANDS (216)

WB5 35.10 198 eP 17 20.00 -0.1
 ASPA 38.81 197 eP 17 51.30 -0.1
 0.7s 7.80nm 4.6mb
 MBL 42.69 216 iPc 18 22.50 -0.9
 0.4s 17.00nm 5.1mb
 WARB 43.61 204 iPc 18 31.90 1.1
 FORR 47.31 200 iPc 19 00.10 0.0
 GUN 56.61 294 P 20 10.80 0.2
 GKN 57.71 294 P 20 18.00 -0.1
 YKA 82.57 27 eP 22 48.40 -0.1
 0.5s 0.20nm 3.4mb X
 S.D. = 0.6 on 8 of 8 obs.

% NOV 28, 1990 15h 14m 31.36 ± 0.70s
 44.526 N ± 5.8km 7.418 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.9 (GEN).

PZZ 0.23 265 P 14 36.57 0.2
 S 14 40.06
 STV 0.29 193 P 14 37.60 0.1
 S 14 41.63
 ENR 0.30 180 P 14 37.57 -0.1
 S 14 41.79
 BHB 0.33 341 P 14 38.06 -0.2
 S 14 42.86
 ROB 0.40 125 P 14 39.52 0.0
 S 14 45.12
 FIN 0.65 119 P 14 44.99 0.6
 IMI 0.70 151 P 14 44.58 -0.7

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

& NOV 28, 1990 16h 19m 44.10s
 32.650 N 118.067 W
 DEPTH = 6.0km (geophysicist)
 OFF COAST OF CALIFORNIA (38)
 <PAS>. ML 2.6 (PAS).

PLM 1.23 55 eP 20 06.40 -1.1
 PEC 1.45 31 eP 20 08.90 -2.0
 2 obs. associated

* NOV 28, 1990 18h 47m 38.64 ± 1.10s
 28.737 N ± 7.3km 139.536 E ± 10.2km
 DEPTH = 464.4 ± 12.7 km
 4.2mb (9 obs.)
 BONIN ISLANDS REGION (212)

MAT 7.86 352 eP 49 34.00 -0.1
 0.6s 33.33nm 4.8mb
 ES 51 04.00

CHTO 38.28 264 eP 54 18.90 -0.2
 0.9s 2.13nm 3.6mb

GUN 46.90 283 P 55 28.40 0.5
 PKI 47.39 282 P 55 31.50 -0.1

KKN 47.44 283 P 55 32.00 0.1
 DMN 47.64 282 P 55 33.40 0.0

0.4s 11.00nm 4.6mb
 GKN 47.94 283 P 55 35.70 0.1

WB5 48.59 186 iPd 55 40.70 0.5
 WRA 48.65 187 P 55 40.00 -0.7

0.5s 5.50nm 4.2mb
 ASPA 52.38 187 eP 56 08.50 0.2

0.6s 4.40nm 4.0mb
 GBA 59.25 269 P 56 56.20 -0.2

YKA 71.81 28 eP 58 14.60 0.5
 0.7s 1.40nm 3.7mb

KAF 74.97 333 iP 58 32.20 0.0
 0.3s 3.70nm 4.5mb

esP 58 32.60
 NUR 76.54 333 iP 58 41.00 0.2

HFS 80.98 336 eP 59 04.00 -0.4
 0.3s 2.30nm 4.3mb

NB2 81.21 337 P 59 05.00 -0.6
 0.5s 1.50nm 3.8mb

S.D. = 0.4 on 16 of 16 obs.

* NOV 28, 1990 19h 21m 21.72 ± 2.16s
 28.631 N ± 19.6km 66.683 E ± 14.5km
 DEPTH = 68.6 ± 20.2 km
 4.2mb (3 obs.)
 PAKISTAN (710)

QUE 1.57 8 iPc 21 49.20 1.0
 e(S) 22 23.70

NDI 9.25 87 iPd 23 36.00 1.2
 0.6s 13.33nm 5.0mb

MAIO 9.76 323 eP 23 41.00 -0.8
 ES 25 23.00

HYB 15.61 133 eP 24 58.50 -0.5
 ES 25 43.00

GKN 15.83 88 P 25 01.16 -0.7
 DMN 16.29 89 P 25 08.22 0.4

KKN 16.42 88 P 25 08.74 -0.7
 PKI 16.56 89 P 25 10.36 -0.9

GUN 16.93 88 P 25 15.42 -0.5
 SHL 22.63 92 eP 26 28.50 10.5X

WRA 81.21 118 P 33 34.00 2.2
 0.5s 1.20nm 4.1mb

YKA 89.19 1 eP 34 10.10 -0.7
 0.5s 0.30nm 3.8mb

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

* NOV 28, 1990 19h 30m 33.58 ± 0.98s
 3.051 S ± 9.5km 139.526 E ± 21.7km
 DEPTH = 33.0km (normal)
 4.8mb (2 obs.)
 WEST IRIAN (201)

MTN 12.79 220 eP 33 35.00 -1.0
 0.3s 19.00nm 5.7mb X

KNA 16.48 219 eP 34 25.00 1.1
 OIS 17.40 180 eP 34 35.00 -0.6

es 37 44.00
 WB5 17.47 196 eP 34 36.00 -0.4

i 34 40.00
 es 37 48.50

ASPA 21.20 194 eP 35 18.90 0.0
 0.5s 20.60nm 4.8mb
 ES 39 13.80

WARB 26.11 207 iPd 36 06.80 0.3
 GUN 60.05 305 P 40 42.10 1.7

KKN 60.50 304 P 40 42.80 -0.5
 GKN 61.11 304 P 40 47.00 -0.4

GBA 63.76 287 Pc 41 18.10 13.1X
 0.7s 1.60nm

SPA 86.97 180 eP 43 19.00 2.4
 0.8s 4.17nm 4.7mb

KIC 144.24 277 PKP 50 08.20 -0.7
 TIC 144.50 277 PKP 50 08.50 -0.9

LIC 144.54 276 PKP 50 08.60 -0.8
 S.D. = 1.2 on 13 of 14 obs.

NOV 28, 1990 21h 32m 16.62 ± 0.61s
 39.525 N ± 6.0km 21.009 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.9 (THE).

IGT 0.52 271 ePc 32 25.78 -1.4
 ES 32 34.76

EVR 0.87 134 ePb 32 31.50 -1.9
 KEK 0.95 282 ePb 32 35.50 0.7

AGG 1.14 116 ePc 32 37.92 -0.1
 ES 32 53.96

LIT 1.28 63 iPc 32 39.74 -0.6
 ES 32 58.00

FNA 1.29 13 eP 32 39.20 -1.3
 ES 32 58.40

VLS 1.38 194 ePg 32 43.60 1.6
 OHR 1.59 354 iPn 32 46.50 1.5

ISg 33 09.80
 GRG 1.78 36 eP 32 48.68 1.0

THE 1.86 53 eP 32 49.76 0.9
 PAIG 2.10 78 eP 32 52.96 0.7

VAY 2.15 33 ePn 32 52.40 -0.6
 KNT 2.18 41 eP 32 54.00 0.5

ES 33 22.80
 SOH 2.22 53 eP 32 54.16 0.2

ES 33 23.70
 SKO 2.47 7 ePn 32 56.00 -1.5

SRS 2.54 50 eP 32 58.72 0.2
 S.D. = 1.2 on 16 of 16 obs.

NOV 28, 1990 22h 37m 53.22 ± 0.41s
 43.820 N ± 5.2km 16.598 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.5 (TTG).

HVAR 0.65 190 iPg 38 04.60 -1.6
 ISg 38 16.10

BRY 1.69 122 ePg 38 23.00 -0.1
 ESg 38 45.50

VBY 1.94 331 e(Pn) 38 30.20 3.7X
 ISn 38 52.10

HCY 1.95 134 ePn 38 28.00 1.3
 ESn 38 53.00

NKY 2.02 119 ePn 38 27.50 -0.3
 ESn 38 54.00

PTJ 2.13 348 ePn 38 27.50 -1.9
 ISg 38 58.00

RIY 2.20 315 ePn 38 31.80 1.6
 ISg 39 04.10

BDV 2.24 132 ePn 38 32.00 1.1
 ESn 39 00.00

TTG 2.39 125 ePn 38 33.60 0.6
 ESn 39 04.00

CEY 2.46 322 e(Pn) 38 35.00 0.9
 ESn 39 08.50

LJU 2.66 327 eP 38 40.50 3.6X
 e(Sn) 39 08.50

ARV 2.67 264 P 38 37.00 -0.1
 ESn 39 11.00

TRI 2.76 314 P 38 38.00 -0.3
 VOY 2.93 320 iPn 38 41.40 0.6

ESn 39 18.40
 SDI 2.94 225 P 38 40.50 -0.4

ASS 2.96 257 P 38 41.50 0.3
 ESn 39 19.00

MNS 3.21 245 P 38 45.00 0.3
 CRE 3.37 268 P 38 48.00 0.9

SFI 3.43 273 P 38 48.00 0.2
 FVI 3.87 317 P 38 53.00 -1.0

28d 22h

SKO 4.01 116 ePn 39 29.00 33.0X
 OHR 4.12 130 e(Pn) 38 56.50 -1.1
 CTI 4.16 304 P 38 57.20 -1.0
 SOTA 5.09 314 iPnd 39 11.60 0.2
 iSn 40 10.60
 S.D. = 1.0 on 21 of 24 obs.

& NOV 28, 1990 23h 33m 11.81s
 60.094 N 153.130 W
 DEPTH = 123.7km
 SOUTHERN ALASKA (2)
 <AGS-P>

INE 0.05 134 iP 33 28.22 0.7
 eS 33 42.03
 RED 0.37 29 eP 33 29.00 -0.9
 RS2 0.41 26 iP 33 29.46 -0.8
 RSO 0.41 27 iP 33 29.32 -0.9
 OPT 0.45 187 iP 33 29.49 -0.7
 eS 33 43.56
 REF 0.45 28 iP 33 29.60 -0.8
 RDN 0.46 23 iP 33 29.66 -0.7
 NCT 0.48 12 iP 33 29.71 -0.7
 RDT 0.60 36 iP 33 30.36 -0.8
 eS 33 45.15
 PDB 0.62 241 iP 33 30.10 -1.1
 eS 33 44.46
 AUE 0.75 190 eP 33 31.18 -1.0
 AUH 0.75 192 eP 33 31.55 -0.7
 AUP 0.75 191 eP 33 31.48 -0.8
 AGU 0.75 192 eP 33 31.57 -0.8
 AUI 0.78 191 eP 33 31.51 -0.9
 >NNL 0.92 92 iP 33 34.08 0.4
 MCNL 1.10 214 eP 33 34.00 -1.4
 CNPM 1.11 120 iP 33 34.80 -0.8
 eS 33 53.01
 NKA 1.14 54 iP 33 36.92 1.1
 CKL 1.17 19 iP 33 35.75 -0.6
 eS 33 54.08
 CDD 1.20 193 iP 33 35.21 -1.3
 SPU 1.21 25 iP 33 35.90 -0.8
 eS 33 54.18
 BGL 1.23 17 eP 33 36.50 -0.4
 CGLM 1.34 24 eP 33 37.36 -0.7
 NCG 1.40 20 eP 33 37.87 -0.9
 SLKM 1.51 73 eP 33 38.60 -1.4
 eS 33 59.19
 SVW 1.60 311 eP 33 39.22 -1.8
 SEW 1.84 88 eP 33 42.66 -1.3
 SKT 2.05 22 eP 33 45.99 -0.5
 PMS 2.10 55 eP 33 46.64 -0.6
 LTI 2.65 89 eP 33 52.48 -1.7
 KNK 2.65 58 eP 33 53.61 -0.7
 GHO 2.66 49 eP 33 52.40 -2.0
 GUT 2.70 30 eP 33 53.78 -1.1
 NIM 2.70 82 eP 33 52.76 -2.2
 TU 2.75 90 eP 33 53.97 -1.6
 36 obs. associated

NOV 28, 1990 23h 59m 21.09±0.55s
 44.766 N ± 4.1km 7.840 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.6 (LDG), 2.5 (GEN).

BHB 0.42 281 P 59 31.04 1.4
 S 59 38.17
 CKI 0.46 137 P 59 31.30 0.8
 eSg 59 38.00
 ROB 0.47 177 P 59 32.15 1.4
 S 59 39.55
 PCP 0.55 114 P 59 32.29 0.0
 S 59 39.07
 RSP 0.57 313 P 59 32.70 0.1
 S 59 39.62
 PZZ 0.59 244 P 59 32.91 -0.2
 S 59 40.18
 FIN 0.62 155 P 59 33.19 -0.3
 ENR 0.62 209 P 59 33.60 0.0
 S 59 42.39
 STV 0.64 215 P 59 33.53 -0.4
 S 59 41.90
 RRL 0.77 282 P 59 36.51 0.3
 S 59 47.16
 LSD 0.84 325 P 59 36.92 -0.6
 S 59 48.06
 IMI 0.86 178 P 59 36.85 -0.8

BNI 0.88 289 P 59 37.40 -0.6
 eSg 59 50.10
 SBF 0.95 198 P 59 37.20 -2.0
 Sg 59 49.60
 LPG 1.06 314 P 59 41.10 -0.2
 Sg 59 54.60
 LPL 1.09 314 P 59 41.80 0.2
 Sg 59 55.30
 FRF 1.48 216 P 59 47.60 -0.2
 Sg 00 03.80
 LRG 1.69 220 P 59 51.60 0.8
 Sg 00 10.10
 LMR 1.72 214 P 59 51.80 0.5
 Sg 00 12.50
 S.D. = 0.9 on 19 of 19 obs.

NOV 29, 1990 00h 40m 31.80±0.13s
 21.088 S ± 4.1km 178.867 W ± 4.3km
 DEPTH = 620.2km (3 depth phases)
 5.2mb (32 obs.)

FIJI ISLANDS REGION (181)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 24C
 Centroid Location:
 Origin Time 00:40:40.3 0.8
 Lat 20.64S 0.08 Lon 179.27W 0.05
 Dep 634.0 3.4 Half-duration 2.3
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.77 0.09 Mtt=-0.27 0.12
 Mff=1.04 0.13 Mrt=-2.26 0.11
 Mrf=-1.70 0.12 Mtf=0.38 0.12
 Principal Axes:
 T Vol= 2.93 Plg=36 Azm=128
 N 0.15 14 228
 P -3.08 50 336
 Best Double Couple: Mo=3.0*10**17
 NP1: Strike=167 Dip=16 Slip=-153
 NP2: 50 83 -76

NDF 4.80 313 eP 42 05.50 0.7
 PVC 12.55 283 iPc 43 18.00 2.3
 DZM 13.70 263 iPd 43 28.80 1.8
 iS 45 52.90
 PUZ 17.11 188 eP 43 59.80 0.3
 WLZ 17.37 195 eP 44 05.60 3.7X
 NOZ 17.67 188 eP 44 06.30 1.6
 PGZ 19.90 191 eP 44 24.90 -0.4
 MNG 20.05 193 P 44 26.80 0.1
 KIW 20.41 194 eP 44 30.10 0.2
 CAW 20.61 193 eP 44 31.30 -0.4
 WDW 20.78 193 P 44 33.30 0.1
 MRW 20.81 194 eP 44 32.90 -0.5
 MOW 20.87 192 eP 44 34.10 0.0
 TCW 20.89 195 eP 44 33.20 -1.0
 THZ 21.75 197 eP 44 41.60 -0.5
 S 47 59.60
 KHZ 22.21 195 eP 44 45.00 -1.0
 LTZ 22.87 197 eP 44 50.80 -1.3
 MMCZ 25.83 200 eP 45 18.00 -0.2
 MHZ 25.83 200 eP 45 17.50 -0.7
 TLC 26.01 200 eP 45 20.40 0.6
 TBI 27.30 100 iP 45 31.30 0.3
 AFR 27.66 88 iP 45 33.80 -0.4
 1.0s 145.00nm 5.6mb
 COO 27.90 244 iPc 45 33.70 -2.5X
 0.7s 31.00nm 5.0mb
 PMO 30.03 84 iP 45 54.00 -0.4
 1.0s 70.00nm 5.2mb
 RMO 30.06 253 eP 45 55.50 0.8
 TPT 30.29 84 iP 45 56.10 -0.5
 1.0s 95.00nm 5.4mb
 RUV 30.45 84 iP 45 57.50 -0.5
 1.0s 105.00nm 5.4mb
 CAN 31.51 236 eP 46 08.80 2.0
 e 51 28.80
 BWA 31.70 238 eP 46 08.30 -0.2
 e 51 28.30
 PMG 34.70 284 eP 46 33.00 -0.5
 TOO 34.90 234 eP 46 37.00 2.0
 0.7s 26.00nm 4.9mb
 QIS 38.74 263 eP 47 06.00 -0.5
 RKT 40.61 101 eP 47 14.00 -7.4X
 1.6s 175.00nm 5.3mb
 ASPA 43.60 257 iPd 47 44.50 -0.5
 0.7s 137.30nm 5.6mb

Z 20s 0.20um 4.0Msz
 iPcP 48 46.30
 eP 49 15.20 481kmX
 eScP 52 14.30
 iS 53 29.50
 iScS 56 37.60
 WB5 43.70 263 eP 47 44.20 -1.6
 FORR 48.28 247 iPc 48 18.60 -1.8
 0.3s 47.00nm 5.5mb
 MTN 48.36 271 eP 48 20.00 -1.2
 0.4s 45.00nm 5.3mb
 KNA 49.79 267 eP 48 30.50 -1.2
 WARB 49.88 253 iPc 48 31.80 -0.5
 AAI 54.23 281 e(P) 49 02.50 -1.0
 MBL 56.84 258 eP 49 20.20 -1.2
 0.3s 35.00nm 5.1mb
 SBA 57.24 184 iPd 49 27.70 4.4X
 SPA 69.04 180 iPd 50 40.30 1.8
 0.5s 13.89nm 4.7mb
 MAT 70.21 324 eP 50 44.00 -1.5
 1.5s 105.56nm 5.1mb
 eS 59 24.00
 SDN 77.72 11 eP 51 24.80 -2.1
 SYP 78.66 46 eP 51 34.00 1.4
 PRS 78.80 44 eP 51 34.00 0.9
 GCC 78.82 43 eP 51 33.80 0.7
 PCC 78.86 43 ePd 51 34.00 0.7
 SAO 79.01 44 eP 51 34.20 0.0
 PRI 79.15 44 eP 51 36.10 1.0
 BRK 79.16 42 eP 51 35.80 0.9
 BKS 79.18 42 iPd 51 35.90 0.9
 0.6s 51.00nm 5.2mb
 e 51 39.40 11kmX
 MHC 79.23 43 ePd 51 36.10 0.6
 LLA 79.25 44 eP 51 36.30 0.9
 NJ2 79.63 310 Pc 51 38.00 0.5
 MWC 79.80 47 eP 51 38.00 -0.6
 FHC 79.92 39 ePd 51 39.80 0.9
 RVR 80.14 48 eP 51 41.00 0.9
 PLM 80.15 49 eP 51 40.00 -0.4
 SBB 80.22 47 eP 51 41.00 0.4
 FRI 80.27 44 ePd 51 41.00 0.3
 ISA 80.32 46 eP 51 42.00 0.9
 CMB 80.44 43 iPd 51 42.00 0.3
 WDC 80.64 40 iPd 51 43.20 0.7
 ORV 80.65 41 eP 51 42.80 0.2
 AIA 80.75 157 eP 51 45.30 2.6X
 CLC 81.00 46 eP 51 45.00 0.4
 MIN 81.06 41 ePd 51 45.00 0.1
 TPC 81.12 48 eP 51 46.00 0.8
 GSC 81.25 47 eP 51 46.00 0.1
 GLA 81.42 50 eP 51 48.00 1.3
 KDC 81.56 14 eP 51 47.00 0.2
 WHN 82.14 307 Pc 51 51.50 1.2
 1.5s 100.00nm 5.1mb
 CN2 82.27 323 Pd 51 50.20 -0.4
 4.0s 700.00nm 5.6mb X
 eP 54 00.00 614km
 eS 01 20.00
 TNP 82.52 44 P 51 52.50 0.2
 0.9s 37.11nm 4.9mb
 SVW 84.03 11 ePc 51 57.40 -1.7
 GMW 84.84 34 P 52 03.10 -0.2
 LON 84.87 35 P 52 02.20 -1.3
 TTA 85.66 10 ePc 52 06.70 -0.2
 1.2s 61.90nm 5.2mb
 PMR 85.78 14 ePc 52 05.80 -1.6
 1.6s 224.70nm 5.6mb
 ANM 86.01 6 eP 52 08.20 -0.3
 GYA 86.24 300 P 52 11.20 0.6
 TOA 86.91 15 eP 52 12.10 -0.8
 TIY 87.07 312 eP 52 15.00 0.8
 1.6s 430.00nm 5.9mb
 Z 22s 0.50um 4.9Msz
 DPW 87.50 36 P 52 15.60 -0.4
 PNT 87.59 34 ePc 52 17.00 0.7
 1.0s 84.00nm 5.5mb
 DAU 87.67 45 P 52 17.20 -0.1
 XAN 87.84 308 P 52 18.20 0.3
 PTI 88.20 42 P 52 19.80 0.3
 NEW 88.32 36 P 52 19.70 0.0
 0.9s 16.45nm 4.9mb
 ALO 88.40 52 eP 52 21.00 0.4
 1.0s 13.75nm 4.7mb
 ANMO 88.40 52 P 52 21.00 0.4
 1.0s 30.50nm 5.1mb
 pP 54 34.70 624km

KMI	88.89	297 Pd	52	24.50	1.4			1.6s	24.00nm							e	59	19.50		
	2.0s	170.00nm			5.6mb	CSS	148.55	303	ePKP	59	10.50	3.5X				e	59	35.30		
IMA	88.96	10 eP	52	21.40	-1.0	BRG	148.61	344	iPKP	59	06.90	0.3		VBY	153.02	338	ePKP	59	14.50	1.3
	1.3s	57.90nm			5.3mb			1.6s	30.00nm							i	59	21.10		
FBA	88.99	13 eP	52	20.50	-1.9				i	59	11.70					e	59	35.50		
	0.9s	138.60nm			5.8mb				i	59	17.10					e	59	36.30		
BDT	89.04	289 eP	52	25.80	2.3X				epPKP	01	34.00			SKO	153.05	325	iPKP	59	12.50	-0.9
	1.0s	40.00nm			5.3mb	WTS	148.84	353	ePKP	59	07.50			CEY	153.10	339	ePKP	59	12.60	-0.8
HHC	89.18	315 eP	52	24.50	0.6	TNR	149.01	328	ePKPc	59	12.00	4.6X				e	59	20.50		
CHG	89.68	290 eP	52	28.00	1.5	IZI	149.19	315	ePKP	59	11.00	3.1X		CTI	153.66	343	PKP	59	20.00	5.8X
	0.9s	31.09nm			5.2mb	COZ	149.21	327	ePKPd	59	07.50	-0.4		LOR	153.79	356	ePKP	59	15.40	1.2
BW06	89.95	44 P	52	26.20	-1.4	PSZ	149.26	335	iPKP	59	13.00	5.2X			1.4s	19.60nm				
	1.1s	25.79nm			5.1mb	PRU	149.27	343	ePKP	59	11.60	4.0X		FNA	153.90	323	ePKP	59	22.02	7.4X
		pP	54	40.00	623km				i	59	13.00			OHR	154.00	325	ePKP	59	14.20	-0.5
CD2	90.42	303 eP	52	30.30	0.5				epP	01	37.00			SSF	154.02	356	ePKP	59	15.60	1.1
GOL	91.31	48 P	52	33.90	-0.1	MOX	149.37	347	ePKPc	59	07.50	-0.2			1.0s	6.00nm				
	1.0s	11.25nm			4.8mb				epPKP	01	37.00			LBF	154.06	356	ePKP	59	15.50	0.9
SES	92.82	36 eP	52	41.00	0.6	BNS	149.81	352	iPKPc	59	14.60	6.2X		AVF	154.30	356	ePKP	59	15.50	0.7
BRW	93.42	7 eP	52	41.40	-1.2	JMB	149.83	321	iPKP	59	15.00	6.3X		SMF	154.41	356	ePKP	59	16.40	1.4
INK	95.05	15 eP	52	48.00	-2.0	GZR	149.93	329	ePKPd	59	06.00	-2.8X		AGG	154.49	319	ePKP	59	23.62	8.2X
GTA	96.72	310 Pc	52	58.60	0.2	ZST	150.06	338	ePKP	59	09.30	0.5		VAI	154.50	348	PKP	59	10.00	-5.1X
	1.4s	20.00nm			5.2mb				i	59	15.50			BGF	154.56	357	ePKP	59	16.40	1.2
YKA	97.38	25 eP	52	58.70	-2.0				e	59	23.60			TCF	154.85	358	ePKP	59	16.40	0.7
	0.9s	2.80nm			4.6mb				e	01	45.80			ARV	155.58	339	PKP	59	16.00	-0.8
MAIO	127.34	300 iPKPc	58	29.00	-0.1	PVL	150.08	323	iPKPc	59	16.00	7.0X		PGD	155.63	341	PKP	59	27.00	10.0X
		e	00	36.00		DST	150.12	314	iPKP	59	14.20	4.9X		BNI	155.67	350	PKP	59	25.50	8.5X
KEV	128.89	349 iPKP	58	13.90	-16.9X	ENN	150.14	354	ePKP	59	14.50	5.7X		RJF	155.85	359	ePKP	59	17.70	0.7
SOB1	128.90	122 ePKP	58	30.70	-1.8		0.9s	53.00nm							1.3s	21.65nm				
		e	00	55.70				e	59	22.50				LFF	156.21	1	ePKP	59	18.60	1.1
SOD	131.00	347 ePKP	58	25.00	-9.9X	BNT	150.20	316	ePKP	59	13.40	4.1X		BCAO	156.34	228	iPKPc	59	21.50	2.9X
		e	58	35.00		VKA	150.26	339	ePKP	59	12.00	2.8X			0.9s	14.00nm				
KAF	135.49	343 ePKP	58	43.10	-0.5				i	59	15.70			MNS	156.65	338	PKP	59	32.50	14.3X
	0.7s	18.60nm							i	59	25.00			KIC	164.29	158	PKP	59	26.80	-0.1
NUR	137.27	343 iPKP	58	43.70	-3.2X	KHC	150.31	343	PKP	59	09.50	0.2		TIC	164.46	157	PKP	59	27.00	0.0
	0.6s	27.40nm							e	59	16.00			S.D. = 1.0 on 160 of 220 obs.						
NB2	139.46	352 PKP	58	41.10	-9.9X	GRF	150.35	347	ePKP	59	08.50	-0.8		& NOV	29, 1990	00h 55m	59.40s			
	0.7s	7.20nm				Z	19s	0.10um			4.6msz			61.600 N		148.128 W				
HFS	139.98	350 ePKP	58	43.20	-8.7X			ed	59	15.30				DEPTH = 86.2km						
	0.3s	8.80nm				TNS	150.35	350	ePKPd	59	14.90	5.6X		SOUTHERN ALASKA						
EDR	144.11	3 ePKP	58	57.10	-2.0	WET	150.48	344	iPKPc	59	09.80	0.3		<AGS-P>.						
	1.2s	140.00nm						i	59	16.00			GLI	0.88	145	eP	56	18.00	0.3	
MUD	144.18	352 iPKPc	58	58.40	-0.8			i	59	25.00			KLK	1.06	95	iP	56	20.00	0.1	
	1.0s	100.00nm				KDZ	151.02	321	iPKPd	59	16.00	5.5X		HIN	1.44	146	iP	56	23.52	-1.2
LWI	144.35	233 iPKPc	59	02.90	1.8	ALN	151.08	319	ePKP	59	15.58	5.0X				eS	56	42.64		
KVT	144.39	312 iPKP	59	00.00	-0.2	KMR	151.13	342	iPKP+	59	18.00	7.5X		CVA	1.57	131	eP	56	24.76	-1.4
COP	144.43	349 iPKPc	59	00.10	0.5			i	59	28.70					eS	56	45.06			
	1.0s	136.00nm				PLD	151.15	322	iPKP	59	17.00	6.3X		SGAM	1.80	127	eP	56	27.45	-1.9
BSD	144.48	346 iPKP	58	58.20	-1.6	PGB	151.17	323	iPKPc	59	18.00	7.2X				eS	56	49.45		
	1.3s	150.00nm				RZN	151.41	321	iPKPc	59	17.00	5.7X		RAGM	2.08	124	eP	56	32.32	-0.8
EAB	144.71	5 ePKP	58	59.30	-0.9	BEO	151.45	330	ePKP	59	16.00	5.0X		HMT	2.27	122	eP	56	33.17	-2.6
EDI	145.07	4 ePKP	59	00.20	-0.5	STU	151.63	349	e(PKP)	59	11.00	-0.2		7 obs. associated						
ESY	145.11	4 ePKP	58	59.20	-1.6		1.0s	20.00nm						NOV 29, 1990 01h 18m 03.92± 1.20s						
EAU	145.12	5 ePKP	59	00.80	-0.1	VTS	151.67	324	iPKPd	59	19.00	7.4X		22.581 S ± 8.9km 179.773 W ± 7.8km						
	0.9s	111.00nm				MMB	152.04	322	iPKPc	59	18.00	6.0X		DEPTH = 663.5 ± 19.5 km						
EKA	145.65	4 PKPc	59	01.80	0.1	KKB	152.22	323	iPKPc	59	19.00	6.8X		4.4mb (8 obs.)						
	0.8s	40.00nm				KBA	152.24	342	iPKPc	59	11.50	-0.8		SOUTH OF FIJI ISLANDS (171)						
KAS	145.83	314 ePKP	59	04.50	1.9		0.6s	11.60nm					DZM	12.77	270	iPc	20	49.90	-0.2	
IAS	146.30	327 ePKP	59	07.00	4.0X				i	59	18.60		HBZ	15.06	186	eP	21	11.80	0.3	
CSTJ	146.68	295 PKPc	59	06.54	2.3				i	59	19.60		PUZ	15.53	186	eP	21	15.50	-0.5	
CLI	146.86	326 ePKP	59	02.00	-2.0				i	59	32.90		WLZ	15.73	194	P	21	21.20	3.5X	
MDSJ	146.96	296 PKPc	59	07.21	2.5X				i	59	33.50		NOZ	16.10	186	eP	21	22.50	1.4	
JARJ	147.10	297 PKPc	59	07.45	2.5X	CDF	152.29	351	ePKP	59	12.50	0.3	PGZ	18.29	190	eP	21	41.70	0.3	
BBTK	147.19	312 iPKPc	59	05.00	0.1		1.2s	5.95nm					MNG	18.43	191	eP	21	41.90	-0.7	
		i	59	08.00		FLN	152.36	2	ePKP	59	14.80	2.6X	CAW	18.98	192	eP	21	47.00	-0.7	
QTRJ	147.21	295 PKPc	59	07.69	2.6X	SRS	152.42	321	ePKP	59	19.14	6.6X	WDW	19.15	192	eP	21	49.30	0.1	
SALJ	147.36	297 PKPc	59	08.20	2.9X				i	59	33.50		BLW	19.16	191	eP	21	49.30	0.0	
MASJ	147.39	296 PKPc	59	08.11	2.7X	PTJ	152.43	337	ePKP	59	11.50	-1.0	MRW	19.17	193	eP	21	49.50	0.2	
JVI	147.66	297 ePKP	59	09.00	3.2X	WATA	152.48	345	iPKPc	59	12.40	-0.2	TCW	19.24	194	eP	21	50.20	0.2	
LISJ	147.67	295 PKPc	59	09.18	3.5X				i	59	19.20		THZ	20.09	196	eP	21	57.50	-0.3	
BMR	147.92	331 ePKPc	59	10.00	4.4X				i	59	33.30		KHZ	20.56	194	P	22	01.80	-0.1	
ETA	147.94	8 ePKP	59	04.50	-1.0	LDF	152.54	2	ePKP	59	15.10	2.7X	LTZ	21.21	196	P	22	07.30	-0.6	
KSP	148.00	342 ePKP	59	05.80	0.1	SQTA	152.68	345	iPKPc	59	12.80	-0.1	MMCZ	24.15	199	P	22	34.10	0.2	
	1.0s	93.00nm					0.7s	18.90nm					MHZ	24.15	199	P	22	34.00	0.1	
		ic	59	09.20					i	59	19.80		TLC	24.33	199	eP	22	35.30	-0.3	
		i	59	14.50					i	59	20.60		TOO	33.35	235	iPc	23	56.00	3.7X	
		e	01	31.50					i	59	34.00		PMG	34.29	287	eP	24	00.00	-0.1	
WIT	148.04	354 ePKP	59	10.00	4.4X				ipPKP	01	43.00			1.0s	70.00nm			5.2mb		
SPC	148.09	336 ePKP	59	06.20	0.1	LJU	152.80	339	ePKP	59	13.00	0.1	ASPA	42.47	259	eP	25	05.80	-0.1	
		e	59	10.40		HAU	152.82	352	ePKP	59	13.40	0.5		0.9s	12.60nm			4.4mb		
		i	01	31.60			1.2s	11.90nm							iS	30	46.80			
PSN	148.16	321 iPKPc	59	10.00	3.9X	FVI	152.84	342	PKP	59	19.80	6.9X			iScS	34	02.20			
ISR	148.18	325 ePKPc	59	06.00	-0.2X	VAY	152.87	323	ePKP	59	11.50	-1.6	WB5	42.71	265	eP	25	08.		

29d 01h

	0.4 s	19.40 nm	4.9 mb
PRS	80.45	44 e(P)	29 10.40 0.1
PCC	80.52	43 e(P)	29 13.00 2.5X
PRI	80.80	45 e(P)	29 12.40 0.2
MHC	80.89	43 e(P)	29 12.60 0.0
FRI	81.92	44 ePd	29 17.10 -0.5
CMB	82.10	43 ePd	29 18.30 -0.3
WDC	82.32	40 ePd	29 19.60 0.1
MIN	82.74	41 e(P)	29 22.20 0.4
TNP	84.16	45 eP	29 29.40 0.4

	1.0s	3.75nm	4.0mb
DAU	89.32	45 eP	29 54.20 0.9
	1.0s	1.20nm	3.7mb
CHG	89.41	291 eP	29 57.50 3.8X
ANMO	89.98	52 eP	29 56.10 -0.2
	1.0s	2.50nm	4.0mb
FBA	90.62	13 eP	29 57.20 -1.1
	1.0s	7.50nm	4.5mb
BW06	91.61	44 eP	30 03.50 -0.2
	1.0s	10.00nm	4.7mb

NB2	140.81	352	PKP	36	15.40	-6.0X
	0.7s		1.20nm			
HFS	141.30	349	ePKP	36	15.70	-6.5X
	0.4s		2.70nm			
EKA	147.19	4	PKP	36	37.00	4.8X
	1.0s		8.20nm			
KSP	149.13	340	iPKPc	36	42.50	7.1X
CLL	149.65	344	iPKP	36	43.40	7.3X
	0.8s		19.00nm			
		i		36	49.80	

BRG	149.80	343	iPKPc	36	43.60	7.2X
	0.8s	18.00nm	i	36	50.90	
WTS	150.20	352	e(PKP)	36	44.00	7.1X
	0.9s	18.00nm				
PRU	150.42	341	PKP	36	44.50	7.2X
			e	36	54.00	
KHC	151.47	341	ePKP	36	47.00	8.0X
	S.D. = 0.5	on	33 of	46	obs.	

• NOV 29, 1990 01h 38m 28.25 ± 1.50s
 40.507 N ± 12.4 km 21.507 E ± 9.8 km
 DEPTH = 10.0 km (geophysicist)
 GREECE (364)

FNA	0.29	340	iPc	38 34.30	-0.1
OHR	0.81	319	ePg	38 44.00	0.0
			eSg	38 57.00	
LIT	0.85	118	eP	38 44.80	0.1
VAY	1.14	44	ePn	38 50.40	0.7
VAT	1.21	52		38 50.40	0.7

KNT 1.24 58 eP 38 50.60 -0.7
SKO 1.46 358 ePn 38 51.00 -3.7X
S.D. = 0.7 on 5 of 6 obs.

* NOV 29, 1990 04h 03m 52.98 ± 0.78s
7.241 S ± 8.2km 128.858 E ± 16.1km
DEPTH = 102.3 ± 9.0 km
4.8mb (1 obs.)
BANDA SEA (280)

MIN 6.00 158 eP 05 22.10 1.2

MTN	6.00	158	eP	05 22.10	1.2
KNA	8.46	181	eP	05 54.00	-0.5
			eS	06 21.00	
WB5	13.65	157	eP	07 01.20	-2.4
			eS	09 23.50	
MBL	16.36	211	iPc	07 37.50	-0.4
			eS	10 31.00	
OIS	16.84	143	eP	07 45.00	1.1
			eS	10 42.00	
ASPA	17.03	164	iPc	07 46.00	-0.3
	0.3s	17.20nm			4.8mb

	6.35	17.20nm	4.0nm
WARB	18.96 186	eS eP	10 43.30 08 09.40 0.4
MEKA	21.63 206	eS eP	11 33.00 08 37.00 0.8
FORR	23.50 182	eS eP	12 38.00 08 54.80 0.4
CHG	39.25 312	eP	11 14.90 1.6
LZH	49.09 333 (P)		12 31.50 -0.6
GUN	54.26 312 P		13 11.20 -0.1
PKI	54.43 311 P		13 11.80 -0.7

KKN	54.64	312	P	13	13.60	-0.3
GKN	55.23	311	P	13	17.80	-0.3
YKA	108.46	26	ePKP	22	10.10	-0.6
	0.4 s		0.10 nm			
CNCB	150.87	145	PKPc	23	38.00	7.3X
LPB	151.03	145	PKP	23	35.00	4.2X

CCH 151.39 149 (PKP) 23 39.00 7.8X
S.D. = 1.1 on 16 of 19 obs.

NOV 29, 1990 04h 29m 06.78 ± 0.26s
15.127 N ± 4.9km 147.478 E ± 5.0km
DEPTH = 31.8km (7 depth phases)
4.9mb (12 obs.) 4.8MsZ (11 obs.)
MARIANA ISLANDS REGION (215)
CENTROID, MOMENT TENSOR (HRV)

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CENTROID: MOMENT TENSOR      (MAY)
Data Used: GDSN
L.P.B.:   8S, 23C
Centroid Location:
Origin Time          04:29: 7.5 0.7
Lat 15.04N 0.10 Lon 147.99E 0.04
Dep 15.0 FIX Half-duration 1.5
Moment Tensor:       Scale 10**16 Nm
  Mrr=-4.89 0.39    Mtt=-0.57 0.58
  Mff= 5.46 0.40    Mrt= 0.00 0.00
  Mrf= 0.00 0.00    Mtf= 1.41 0.40

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Principal Axes:
T Val= 5.77 Plg= 0 Azm=103
N -0.88 0 13
P -4.89 90 180
Best Double Couple: Mo=5.3*10**16
NP1: Strike=193 Dip=45 Slip= -90
NP2: 13 45 -90

GUA 2.95 238 eP 29 52.00 -0.5
     eS 30 38.20

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PJG	2.96	239	eP	29	52.80	0.2
KAKJ	21.98	344	P	33	59.50	-0.3
LDJ	22.01	339	P	34	00.50	0.3
CHJJ	22.17	342	P	34	00.90	-0.9
MAT	22.87	341	(P)	34	06.00	-2.7
	1.0s	42.00nm				4.9mb
			eS	38	06.00	
DAV	22.91	252	eP	34	09.00	-0.2
NIJ	23.28	343	P	34	12.10	-0.4
YAMJ	23.88	345	eP	34	19.60	1.2

PMG	24.38	181	eP	34	25.00	1.6
OFUJ	24.40	349	P	34	25.40	1.9
BAG	25.91	276	eP	34	38.90	0.7
SSE	28.83	308	P	35	03.50	-0.9
	0.8s				20.00nm	4.9mb
Z	20s				1.40um	4.6MsZ
			pP	35	10.50	24km
NJ2	31.04	308	Pd	35	27.80	3.8X
Z	14s				0.60um	4.4MsZX
MDJ	33.08	336	eP	35	41.00	-0.7
				35	11.00	

SNY	33.67	327	eP	35	42.00	-4.9X
Z	21s		2.00um			4.8MsZ
WHN	34.01	303	eP	35	50.00	0.0
			pP	35	55.00	17kmX
CN2	34.20	331	eP	35	51.40	0.0
Z	18s		2.10um			4.9MsZ
N	14s		0.70um			
E	14s		0.40um			
			epP	36	00.00	29km
QIS	36.29	193	eP	36	08.00	-1.5
WPS	37.10	203	eP	36	15.50	-0.9

WB5	37.10	201	eP	36	15.50	-0.8
TIY	38.28	313	eP	36	26.00	-0.1
Z	24s		0.80um			4.5Mszx
GYA	39.63	293	P	36	39.80	2.2
HHC	40.33	317	P	36	44.00	0.8
Z	20s		1.30um			4.8Msz
ASPA	40.78	199	iPc	36	45.70	-1.2
	0.5s		9.60nm			4.8mb
Z	18s		0.30um			4.2Msz
			iS	42	13.80	
RTQ	41.25	315	eP	36	51.00	0.3

BTO	41.25	315	eP	36	51.00	0.5
DZM	41.38	153	iPc	36	51.80	-0.1
CD2	42.91	299	eP	37	04.60	0.2
	1.5s	90.00nm				5.3mb
KMI	43.00	291	eP	37	09.00	3.6X
Z	20s	1.20um				4.8Msz
LZH	44.09	307	Pd	37	14.50	0.5
	6.0s	570.00nm				5.6mb X
Z	18s	1.01um				4.8Msz
		pP	37	24.00		32km
WARR	45.79	206	eP	37	08.70	-18.8X

NRNG	46.46	282	eP	37	34.50	1.6	1.6X
CHG	0.9s	11.97nm				4.9mb	
BDT	46.51	280	eP	37	35.00	1.7	1.7
	0.9s	39.40nm				5.4mb	
GTA	48.10	310	eP	37	45.80	0.0	0.0
	4.0s	1170.00nm				6.3mb	X
Z	18s	1.60um				5.0msz	

	E	16s	1.30um			
BSI	52.11	265	ePc	37	56.80	-19.8X
LSA	53.58	296	P	38	28.60	0.8
WMO	57.94	312	iPc	38	59.00	0.4
Z	20s		0.60um			4.7MsZ
			sP	39	14.50	
GUN	58.18	294	P	39	00.70	-0.1
PKI	58.60	293	P	39	02.08	-1.7
	0.9s	25	00nm			5.3mb
KKN	58.71	293	P	39	03.84	-0.6

DMN	58.87	293	P	39	04.98	-0.6
GKN	59.27	294	P	39	07.64	-0.6
IMA	63.86	23	eP	39	37.90	-0.5
FBA	65.77	25	eP	39	48.90	-1.7
HYB	65.88	283	eP	39	50.50	-1.6
GBA	67.60	279	P	40	03.00	0.0
POO	70.11	285	eP	40	18.50	-0.1
INK	71.99	23	ePc	40	28.30	-0.7
MBC	76.17	14	eP	40	53.00	-0.1
	1.0s	25.00nm			5.2mb	

MAIO	79.61	305	eP	41	14.00	1.1
WDC	80.31	51	ePc	41	16.70	0.3
YKA	80.33	28	eP	41	14.90	-1.1
	0.9 s		4.60 nm			4.5 mb
PNT	80.56	41	eP	41	17.00	-0.6
MHC	81.67	54	eP	41	23.90	0.1
			e	41	34.70	35 km
PRS	82.11	55	ePc	41	25.90	0.0
NEW	82.40	42	eP	41	28.00	0.7
	1.2 s		14.39 nm			4.9 mb

CMB	82.49	53	ePc	41	28.30	0.4
			e	41	38.80	33km
PRI	82.71	55	ePc	41	30.80	1.6
FRI	83.26	54	ePc	41	32.00	0.2
			e	41	42.80	34km
TNP	84.90	52	eP	41	40.50	0.1
	1.0s	3.75nm				4.5mb
SES	85.63	39	eP	41	44.00	0.4
			pP	41	55.00	35km
DAU	88.66	49	eP	41	59.00	0.2

	1.0s	1.20nm		4.2mb
SOTA	106.62	331 iPKPc	47 39.00	8.5X
	0.6s	7.70nm		
CDF	107.52	333 ePKP	47 37.50	5.4X
	0.5s	2.90nm		
BSF	108.17	333 ePKP	47 38.70	5.3X
	0.5s	2.90nm		
HAU	108.23	334 ePKP	47 38.50	5.1X
Z	21s	0.20um		4.7Msz
LOR	109.86	335 ePKP	47 40.90	4.4X
	0.7s	4.40nm		

	Z	21s		4.40nm		0.32um		4.9MsZ
LBF	110.03	334	ePKP	47	40.90		4.0X	
	0.8s				4.70nm			
SSF	110.17	335	ePKP	47	41.60		4.5X	
	0.8s				4.70nm			
FLN	110.32	338	ePKP	47	37.00		-0.3	
	0.5s				7.30nm			
LDF	110.33	338	iPKPd	47	37.30		0.0	
	0.5s				4.35nm			
GRB	110.77	338	iPKPd	47	37.70		-0.4	

GRR	110.77	338	iPKPd	47	37.70	-0.4
	0.5s		7.30nm			
LPF	111.14	338	iPKPd	47	38.80	0.0
	0.5s		12.40nm			
LSF	111.63	335	ePKP	47	42.80	2.9X
MFF	112.00	337	ePKP	47	41.90	1.4
	0.5s		2.90nm			
KIC	145.16	306	PKP	48	42.68	-1.1
	0.4s		4.50nm			
TIC	145.20	307	PKP	48	42.74	-1.1
LIC	145.47	306	PKP	48	43.66	-0.6

LTC	145.47	98	PKP	48	45.00	0.0
LPB	145.77	97	PKP	48	46.50	1.3
CNCB	145.89	98	PKP	48	47.00	1.4
CCH	147.67	99	PKP	48	51.00	2.9X
SIV	152.49	96	PKP	48	55.40	0.3

S.D. = 1.0 on 67 of 81 obs.

• NOV 29, 1990 05h 30m 25.90 \pm 1.03s
 18.280 N \pm 9.9km 100.583 W \pm 10.3km
 DEPTH = 84.6 \pm 6.8 km
 4.4mb (17 obs.)

GUERRERO, MEXICO			(59)	
III	1.06	85 (P)	31 02.53	16.1X
		(S)	31 20.36	
CRX	1.41	37 iP	30 50.02	-0.9
MRX	1.53	338 (P)	30 55.00	2.9

ACX	1.56	154	iP	30	51.00	-1.7	DMN	58.95	293	P	03	37.58	-1.7	NCG	1.76	280	eP	57	59.90	-0.1
			iS	31	14.19		GKN	59.36	294	P	03	41.04	-0.9				eS	58	22.95	
UNM	1.69	52	iP	30	53.50	-1.1	GBA	67.68	279	P	04	38.00	1.3	BRLK	1.81	221	iP	57	59.88	-0.8
			iS	31	17.00			0.4s		1.20nm		4.4mb		CKL	1.84	273	eP	58	00.70	-0.4
PPM	2.01	67	iPd	30	58.88	-0.3	INK	71.97	23	eP	05	01.00	-1.0	BGL	1.87	275	eP	58	01.18	-0.3
			iS	31	26.30		MBC	76.17	14	eP	05	26.00	-0.2	HUR	1.91	345	eP	58	02.32	0.3
IIA	2.02	64	(P)	31	02.47	3.8X		1.0s		22.00nm		5.1mb					eS	58	26.61	
			(S)	31	30.01		WDC	80.26	51	ePd	05	49.70	0.4	RDT	1.98	255	iP	58	02.33	-0.8
IIT	2.28	71	iP	31	02.30	-0.3	YKA	80.31	28	eP	05	47.90	-1.2	SDG	1.98	45	eP	58	03.11	-0.1
			(S)	31	30.38			0.9s		5.90nm		4.6mb					eS	58	28.19	
IISM	3.12	76	iP	31	14.99	1.1	PNT	80.52	42	ePc	05	51.00	0.5	MID	2.05	147	eP	58	06.10	2.1
			(S)	31	51.00		MIN	81.01	51	ePd	05	52.80	-0.7	RAGM	2.05	110	eP	58	03.17	-0.9
OXX	3.87	107	eP	31	26.00	1.6	PCC	81.01	54	eP	05	53.20	-0.1	CNPM	2.11	221	eP	58	03.96	-1.0
ALO	17.40	344	eP	34	24.00	-0.8	BRK	81.03	53	e(P)	05	53.60	0.2				eS	58	30.92	
	1.0s		4.25nm			3.6mb	ORV	81.25	51	e(P)	05	54.70	0.1	REF	2.14	254	eP	58	04.76	-0.8
OLY	18.96	23	eP	34	42.00	-1.3	GCC	81.41	54	ePd	05	55.30	-0.1				eS	58	32.21	
GOL	21.74	350	eP	35	11.00	-1.1	MHC	81.62	54	ePd	05	56.90	0.2	RDN	2.16	255	iP	58	04.74	-1.0
	0.8s		8.93nm			4.2mb	PRS	82.05	55	ePd	05	59.10	0.3				eS	58	31.53	
DAU	23.90	340	eP	35	35.00	1.9	CMB	82.44	53	ePd	06	01.00	0.2	RSO	2.18	253	eP	58	05.26	-0.8
	0.9s		1.50nm			3.4mb	PRI	82.65	55	ePd	06	02.80	0.7				eS	58	32.54	
TNP	24.51	327	eP	35	38.00	-0.9	FRI	83.20	54	ePd	06	04.80	0.1	RS2	2.18	253	eP	58	05.30	-0.7
	1.0s		2.00nm			3.5mb	TNP	84.85	52	iP	06	14.00	0.7				eS	58	31.48	
BW06	25.58	345	eP	35	47.00	-1.9		1.0s		7.00nm		4.8mb		NCT	2.23	257	eP	58	05.85	-0.8
	1.0s		3.00nm			3.7mb	SES	85.59	39	ePd	06	16.70	0.2				eS	58	34.21	
YKA	45.24	351	eP	38	32.00	-4.2X	PEC	85.99	56	eP	06	16.60	-2.3	HMT	2.26	109	eP	58	05.55	-1.4
	0.5s		0.50nm			3.6mb	DAU	88.61	49	eP	06	32.50	0.7	RND	2.27	356	eP	58	07.34	0.1
NB2	84.22	27	P	42	49.40	0.3		1.0s		1.20nm		4.2mb					eS	58	35.20	
	1.0s		5.50nm			4.5mb	PV09	90.79	50	eP	06	42.00	0.0	GLB	2.30	81	eP	58	06.58	-1.1
RJF	85.39	44	eP	42	55.70	0.5	TIC	145.28	307	PKP	13	16.48	-0.7	PAX	2.33	37	eP	58	08.09	-0.1
	1.0s		12.00nm			4.9mb		1.0s		25.50nm							eS	58	36.86	
TCF	85.48	43	eP	42	56.00	0.3	LIC	145.54	306	PKP	13	17.46	-0.2	KAIM	2.38	119	eP	58	09.09	0.3
	0.8s		6.70nm			4.7mb		1.0s		28.00nm				TRF	2.45	341	eP	58	09.62	-0.3
HFS	85.73	27	eP	42	55.60	-1.0	LPB	145.69	97	PKP	13	19.00	0.7	INE	2.48	246	eP	58	09.26	-1.1
	0.7s		1.00nm			3.9mb	CNCB	145.81	98	PKP	13	20.00	1.3	MCK	2.60	356	eP	58	12.07	0.2
MAF	85.74	43	eP	42	57.30	0.4	SIV	152.41	96	PKP	13	28.70	0.5	TGL	2.82	96	eP	58	14.40	-0.6
	0.8s		5.35nm			4.6mb							WAX	2.88	102	eP	58	14.55	-1.3	
BGF	85.79	42	eP	42	57.70	0.5		S.D. = 0.8 on 47 of 48 obs.					DDM	2.93	24	eP	58	15.78	-0.8	
	0.8s		6.05nm			4.7mb							BALM	3.01	89	eP	58	16.55	-1.3	
SSF	86.02	42	eP	42	58.80	0.5		& NOV 29, 1990 05h 57m 31.11s					BWN	3.06	352	eP	58	18.83	0.4	
	0.6s		4.50nm			4.7mb		61.149 N 148.543 W				PDB	3.11	246	eP	58	17.45	-1.7		
AVF	86.03	42	eP	42	58.40	0.1		DEPTH = 31.5km				DOT	3.26	38	eP	58	20.50	-0.8		
	0.6s		2.25nm			4.4mb		SOUTHERN ALASKA				WRH	3.34	3	eP	58	21.82	-0.6		
LOR	86.16	41	eP	42	59.70	0.7		<AGS-P>. ML 3.1 (PMR).	(2)			HDA	3.35	12	eP	58	22.46	-0.1		
	0.6s		11.70nm			5.1mb	KNK	0.27	9	iP	57	37.89	-0.5	CDD	3.39	231	eP	58	21.52	-1.6
LBF	86.35	42	eP	43	00.50	0.6				eS	57	43.26		TMW	3.39	48	eP	58	23.21	0.1
	0.8s		8.75nm			4.9mb	PMS	0.50	281	iP	57	41.07	-0.6	SVW	3.43	272	eP	58	21.60	-2.2
SMF	86.39	42	eP	43	00.10	0.0	PLRM	0.53	328	iP	57	41.00	-1.0	CCB	3.53	5	eP	58	24.24	-0.8
	0.8s		6.70nm			4.7mb				eS	57	48.66		FBA	3.78	5	eP	58	27.50	-1.1
BSF	87.75	40	eP	43	06.40	-0.4	PMR	0.53	328	iPc	57	41.00	-1.0	MDM	3.83	2	eP	58	28.52	-0.7
CDF	87.80	39	eP	43	07.00	0.0	GHO	0.65	344	iP	57	43.04	-1.0	TTA	3.94	300	eP	58	28.20	-2.8
										iS	57	52.63		KDC	3.96	212	eP	58	28.30	-2.8
	S.D. = 1.2 on 27 of 30 obs.						SML	0.67	9	eP	57	43.12	-1.2	HYT	5.39	89	P	58	50.60	-0.8
	NOV 29, 1990 05h 53m 38.70 ± 0.82s						GLI	0.76	110	iP	57	44.14	-1.3	IMA	5.44	337	ePd	58	49.90	-2.4
	15.110 N ± 7.8km 147.563 E ± 5.3km									eS	57	54.72			72 obs. associated					
	DEPTH = 23.3 ± 6.2 km						PWA	0.82	309	iP	57	45.49	-0.8		? NOV 29, 1990 07h 58m 12.53 ± 2.87s					
	4.8mb (10 obs.)									eS	57	57.40			0.959 S ± 14.0km 79.920 W ± 28.8km					
	MARIANA ISLANDS REGION (215)						KNIM	0.90	153	iP	57	46.14	-1.3		DEPTH = 32.5 ± 10.3 km					
GUA	3.01	239	eP	54	26.00	0.1				eS	57	59.23		ECUADOR (107)						
			eS	55	01.20		SCM	0.98	40	iP	57	46.66	-0.9							
PJG	3.02	240	eP	54	26.30	0.2	VZW	0.97	94	eP	57	47.70	-0.9	GGP	1.54	60	P+	58	38.50	0.0
MAT	22.92	340	eP	58	42.00	-0.1	SLKM	1.04	233	eP	57	48.97	-0.7				iS	58	54.80	
	0.7s		9.59nm			4.4mb				eS	58	04.07		TUNG	1.54	107	iP	58	38.20	-0.2
			(S)	02	40.00		VLZ	1.07	90	eP	57	49.18	-0.8	VC1	1.55	78	iPd	58	38.10	-0.6
PMG	24.36	181	eP	58	56.00	-0.2				eS	58	02.69					eS	58	55.80	
	1.0s		60.00nm			5.1mb	SUA	1.11	288	eP	57	49.87	-0.7	OUR	1.60	61	iP+	58	39.40	0.2
SSE	28.90	308	eP	59	37.00	-1.1	SEW	1.14	203	eP	57	50.25	-0.7				iS	58	56.00	
WHN	34.09	303	eP	00	24.50	0.8				eS	58	05.90		COTA	2.04	51	iPd	58	45.50	-0.2
GYA	39.71	293	P	01	12.60	1.2	LTI	1.16	163	eP	57	50.43	-0.8				eS	59	09.60	
HHC	40.40	317	eP	01	17.40	0.6				eS	58	06.81		ANGL	2.44	77	eP	58	52.30	0.9
ASPA	40.79	199	iPc	01	19.30	-0.7	MTU	1.25	159	eP	57	51.84	-0.6	NNA	11.37	165	eP	00	56.00	0.0
	0.5s		10.60nm			4.8mb	HIN	1.25	126	iP	57	52.73	0.2		0.6s		3.33nm		4.7mb	
BTO	41.32	315	eP	01	25.00	0.6	KLU	1.31	74	iP	57	52.56	-0.9				e	03	01.00	
CD2	42.99	299	eP	01	37.40	-0.7				eS	58	09.46		GBA	154.31	60	PKP	17	58.00	-5.4X
LZH	44.16	307	eP	01	48.50	0.8	NKA	1.38	254	eP	57	55.50	1.2		0.4s		2.50nm			
	1.5s		57.00nm			5.2mb	TOA	1.48	49	iPd	57	56.10	0.2							
			pP	01	57.50	30kmX	CVA	1.50	113	iP	57	55.67	-0.3		S.D. = 0.7 on 7 of 8 obs.					
CHG	46.54	282	eP	02	07.00	0.3	CUT	1.50	328	iP	57	55.82	-0.3							
BDT	46.59	280	eP	02	08.00	1.0	SKT	1.66	302	iP	57	58.04	-0.3							
GTA	48.17	310	P	02	20.00	0.6				eS	58	19.40								
	1.2s		1010.00nm			6.7mb X	CGLM	1.68	277	eP	57	58.82	0.0							
BS1	52.19	265	ePc	02	30.50	-19.8X	SPU	1												

29d 08h

REF	0.35	40	eP	01 04.43	0.8
RDN	0.36	34	iP	01 04.30	0.7
NCT	0.36	18	iP	01 04.40	0.8
			eS	01 19.84	
RDT	0.52	46	iP	01 05.00	-0.9
OPT	0.57	184	iP	01 05.35	-0.7
			eS	01 21.25	
PDB	0.68	231	iP	01 05.41	-1.3
			eS	01 22.11	
AUE	0.87	187	eP	01 07.12	-1.0
AUP	0.87	189	eP	01 06.90	-1.3
AUH	0.87	190	eP	01 07.31	-0.9
AGU	0.87	189	eP	01 06.69	-1.6
AUI	0.90	189	eP	01 07.35	-1.0
HOM	0.95	126	eP	01 07.28	-1.5
			eS	01 26.57	
NNL	0.95	100	iP	01 08.92	0.1
CKL	1.06	22	iP	01 09.23	-0.7
NKA	1.09	60	iP	01 10.64	0.7
SPU	1.11	29	iP	01 09.35	-0.9
BGL	1.11	20	iP	01 09.92	-0.4
CNPM	1.19	125	iP	01 10.48	-0.5
MCNL	1.20	210	eP	01 09.23	-1.8
BRK	1.23	111	eP	01 10.73	-0.7
			eS	01 30.91	
CGLM	1.23	27	eP	01 10.55	-0.9
NGC	1.29	22	iP	01 11.41	-0.6
CDD	1.32	191	iP	01 10.80	-1.4
SLKM	1.49	78	iP	01 12.63	-1.4
			eS	01 34.81	
SUA	1.72	42	eP	01 15.62	-1.1
			eS	01 40.80	
SEW	1.86	92	eP	01 16.98	-1.1
			eS	01 41.36	
SKT	1.94	23	eP	01 18.01	-1.1
PMS	2.05	58	iP	01 18.88	-1.5
			eS	01 46.05	
PWA	2.15	47	eP	01 19.86	-1.7
PLRM	2.40	53	eP	01 22.04	-2.6
GHO	2.59	51	eP	01 24.70	-2.4
KNK	2.60	61	eP	01 24.69	-2.5
KNIM	2.71	85	eP	01 25.78	-2.7
GLI	3.07	75	eP	01 29.98	-3.2
SCM	3.27	58	eP	01 33.44	-2.4
VZW	3.36	73	eP	01 34.70	-2.3
VLZ	3.48	72	eP	01 36.24	-2.2
KLU	3.77	67	eP	01 39.78	-2.5
RND	3.80	31	eP	01 40.81	-1.9
TZL	4.17	61	eP	01 45.88	-1.8

43 obs. associated

• NOV 29, 1990 08h 02m 32.13 ± 2.08s
 5.674 N ± 10.6km 126.781 E ± 20.3km
 DEPTH = 217.6 ± 20.1 km
 4.6mb (5 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

MNI	4.63	205	eP	03 43.00	0.1
KNA	21.38	175	eP	07 04.00	0.6
WB5	26.47	164	eP	07 49.70	-1.5
WHN	27.36	336	eP	08 00.70	1.5
ASPA	29.98	167	eP	08 21.20	-1.3
	0.3s	3.30nm			4.5mb
WARB	31.67	180	eP	08 39.00	1.8
XAN	32.72	332	P	08 44.00	-2.3
CD2	33.13	322	eP	08 48.70	-1.2
TIY	34.47	340	eP	09 02.00	0.8
FORR	36.34	178	iPd	09 17.00	0.2
	0.4s	11.00nm			4.8mb
LZH	36.87	328	eP	09 21.00	-0.6
	1.5s	28.00nm			4.6mb
HHC	37.58	341	eP	09 29.00	1.6
GTA	41.48	328	iPc	09 59.40	-0.1
	1.2s	1020.00nm			6.2mb X
PKI	44.91	304	P	10 26.92	-0.6
KKN	45.10	304	P	10 28.38	-0.5
DMN	45.18	304	P	10 29.26	-0.3
GKN	45.71	304	P	10 33.08	-0.5
GBA	49.21	283	P	11 01.00	0.4
		S		13 03.00	
WMO	51.18	324	P	11 15.50	0.2
QUE	61.17	301	eP	12 27.40	0.9
MAIO	68.39	307	eP	13 14.00	1.5
PRNI	88.71	300	eP	15 06.00	3.5X
HFS	96.33	332	eP	15 35.70	-1.2
	0.4s	1.20nm			4.6mb
YKA	97.72	24	eP	15 43.70	0.6

0.8s 0.40nm 3.8mb
 S.D. = 1.2 on 23 of 24 obs.

% NOV 29, 1990 08h 11m 36.49 ± 0.95s
 39.133 N ± 8.2km 27.542 E ± 15.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MD 2.2 (ISK).

IZM 0.77 197 iPg 11 51.50 0.0

DST 0.97 60 ePn 11 54.70 -0.2

EDC 1.24 11 ePn 11 59.30 -0.2

BNT 1.26 13 iPn 11 59.70 -0.1

KCT 1.28 29 ePn 12 00.70 0.5

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

NOV 29, 1990 08h 30m 09.90 ± 0.28s
 39.961 N ± 3.5km 15.749 E ± 2.3km
 DEPTH = 280.4 ± 3.8 km
 4.2mb (23 obs.)

SOUTHERN ITALY (390)

MGR 0.23 320 Pc 30 45.30 -0.4

TDS 0.55 123 P 30 46.50 0.1

ORI 0.55 79 Pc 30 46.00 -0.4

MSI 1.76 185 P 31 24.90 31.6X

ATN 1.81 187 Pd 30 52.50 -1.3

DUI 1.96 330 P 30 56.00 1.0

MNO 2.19 202 P 30 58.50 1.4

SDI 2.28 321 P 30 58.50 0.8

GIB 2.38 215 Pd 30 59.20 0.4

MEU 2.93 193 P 31 02.30 -1.8

KEK 3.13 93 ePb 31 05.50 -0.5

HCY 3.24 39 iPd 31 06.50 -0.6

HVAR 3.26 9 iPd 31 06.10 -1.3

SRN 3.27 90 eP 31 04.40 -3.1X

BDV 3.29 44 iPd 31 07.20 -0.5

TPE 3.28 83 iPc 31 06.60 -1.1

BERA 3.30 76 iPc 31 07.10 -0.7

ULC 3.32 52 iPd 31 07.60 -0.5

MNS 3.35 317 Pd 31 09.00 0.6

TIR 3.42 65 iPd 31 09.50 0.3

SDA 3.50 53 iPd 31 10.60 0.6

IGT 3.56 95 iPd 31 10.50 -0.2

BRY 3.61 35 iPd 31 10.80 -0.6

TTG 3.62 46 iPd 31 11.00 -0.3

NKY 3.75 40 iPd 31 12.50 -0.4

ASS 3.88 324 Pd 31 14.50 0.3

KBN 3.93 79 iP 31 16.00 1.3

PHP 3.96 63 eP 31 14.50 -0.5

OHR 4.02 72 iPd 31 16.40 0.6

0.9s 300.00nm

ARV 4.11 330 Pc 31 17.00 0.2

KKS 4.11 58 iP 31 17.50 0.7

PVY 4.13 49 iPd 31 17.80 0.6

IVA 4.26 46 iPd 31 19.70 1.0

PLE 4.33 38 iPd 31 20.50 1.0

FNA 4.38 77 iPd 31 19.77 -0.2

KZN 4.63 84 ePn 31 23.00 0.1

CRE 4.63 323 P 31 22.50 -0.5

SKO 4.75 63 iPd 31 24.00 -0.3

0.5s 95.00nm

SFI 4.91 325 P 31 27.00 1.0

GRG 5.17 77 iPd 31 28.85 -0.4

AGG 5.18 98 iPd 31 30.17 0.8

LIT 5.18 86 iPd 31 28.90 -0.4

VAY 5.36 73 iPd 31 31.40 -0.2

0.7s 89.00nm 4.8mb X

PII 5.42 316 P 31 33.50 1.4

RIY 5.47 350 iPc 31 32.70 -0.1

VBY 5.55 356 ePnc 31 34.40 0.6

THE 5.56 81 iPd 31 33.41 -0.5

KNT 5.58 75 iPd 31 33.84 -0.3

ITM 5.58 118 ePn 31 34.50 0.3

BDI 5.61 319 P 31 35.00 0.4

CEY 5.86 351 ePc 31 35.40 -2.1

e(S) 32 47.00

SOH 5.87 79 iPd 31 37.40 -0.4

KKB 5.87 69 eP 31 38.00 0.2

TRI 5.93 346 iPc 31 38.30 0.0

PTJ 5.94 1 ePn 31 37.30 -1.3

BEO 5.98 34 eP 31 37.50 -1.4

SRS 6.09 77 iPd 31 39.88 -0.5

LJU 6.14 352 Pc 31 41.50 0.5

eS 32 53.00

VTS	6.20	63	iPg	31 43.00	1.1
VOY	6.22	348	iP	31 41.80	-0.2
			e(S)	32 53.60	
MMB	6.27	72	ePd	31 44.00	1.3
BOB	6.69	318	P	31 48.00	0.1
FVI	6.97	343	P	31 51.50	0.3
RZN	7.02	73	eP	31 52.00	0.0
BZS	7.11	35	eP	31 53.50	0.6
CKI	7.12	311	P	31 56.50	3.5X
ROB	7.28	309	P	31 56.28	1.1
KBA	7.33	347	iPc	31 56.00	0.2
	0.8s	56.40nm			4.6mb X
		i		32 07.10	
ENR	7.52	307	P	31 59.36	1.3
STV	7.58	307	P	32 00.49	1.6
PZZ	7.86	308	P	32 02.92	0.5
OSS	7.86	331	ePd	32 03.40	0.9
TMA	7.94	323	iPc	32 02.00	-1.4
BHB	7.95	311	P	32 03.41	0.0
VDL	7.97	327	ePd	32 03.40	-0.4
BHG	8.03	346	iPc	32 05.60	1.3
RSP	8.13	312	P	32 07.10	1.3
MMK	8.34	319	ePc	32 07.00	-1.4
LSD	8.38	314	P	32 08.69	-0.2
BNI	8.41	310	P	32 12.00	2.7X
LLS	8.47	327	ePd	32 09.90	-0.1
LPG	8.63	313	eP	32 14.20	2.1
	0.8s	26.85nm			4.3mb
SAX	8.64	330	ePc	32 13.00	0.8
LPL	8.65	313	eP	32 14.30	2.0
	0.6s	21.65nm			4.4mb
FUR	8.81	340	iPc	32 14.70	0.6
	0.7s	115.00nm			5.0mb
EMS	8.88	316	ePd	32 15.40	0.2
ZLA	9.21	327	ePd	32 18.80	-0.4
KHC	9.30	351	P	32 20.20	-0.1
	1.0s	8.50nm			3.8mb
MLR	9.31	50	ePc	32 17.00	-3.6X
SLE	9.39	329	ePd	32 21.00	-0.4
PRU	10.06	356	eP	32 30.00	0.2
BSF	10.18	324	eP	32 30.30	-1.0
	0.8s	32.25nm			4.5mb
GRF	10.24	343	ePc	32 31.90	-0.1
	0.9s	45.00nm			4.6mb
CDF	10.40	327	eP	32 34.00	-0.1
	0.6s	27.05nm			4.6mb
HAU	10.51	323	eP	32 34.40	-0.9
	0.8s	18.80nm			4.3mb
KSP	10.89	2	iPc	32 40.60	0.6
		i		32 46.00	
SMF	10.94	312	eP	32 38.90	-1.9
	0.6s	9.00nm			4.1mb
BRG	10.99	354	iPc	32 41.60	0.4
	0.8s	27.00nm			4.5mb
		i		32 46.30	
LBF	11.06	313	eP	32 40.50	-1.7
	0.8s	5.35nm			3.8mb
LOR	11.29	314	eP	32 43.30	-1.7
	0.8s	12.10nm			4.2mb
AVF	11.30	311	eP	32 43.40	-1.8
	0.6s	6.30nm			4.0mb
SSF	11.37	313	eP	32 44.30	-1.7
	0.8s	7.40nm			3.9mb
BGF	11.48	309	eP	32 46.90	-0.5
	0.7s	7.70nm			4.0mb
MAF	11.48	307	eP	32 47.30	-0.2
	0.6s	11.70nm			4.3mb
CLL	11.51	351	iP	32 48.90	1.2
	1.5s	30.00nm			4.3mb
		i		32 52.40	
TCF	11.73	307	eP	32 50.70	0.1

0.5s 0.40nm 3.4mb
S.D. = 0.9 on 110 of 115 obs.

* NOV 29, 1990 08h 56m 23.71±2.03s
21.310 S ±11.7km 33.011 E ±27.4km
DEPTH = 10.0km (geophysicist)
4.5mb (1 obs.)

MOZAMBIQUE (581)
mbLg 4.2 (BUL).

BUL 4.28 285 iPn 57 30.00 -0.5

iPg 57 42.30

iSn 58 19.00

iSg 58 36.80

SONG 5.68 358 ePn 57 49.10 -1.2

eSn 58 50.00

eSg 59 18.70

JOZ 6.17 188 eP 57 21.50 -35.5X

S 58 40.50

SLR 6.18 224 iPc 57 57.50 0.1

S 58 08.00

PRY 7.54 221 iPd 58 16.20 -0.3

S 59 40.00

BLF 9.92 217 iPc 58 46.00 -3.5X

S 00 26.50

CER 17.08 222 eP 00 24.00 -0.2

1.0s 160.00nm 5.1mb X

S 03 41.00

BCAO 29.26 329 iPc 02 30.20 1.9

1.0s 8.00nm 4.5mb

i 09 11.00

i 11 14.50

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

% NOV 29, 1990 09h 21m 09.11±0.76s

45.869 N ±13.9km 25.984 E ±6.5km

DEPTH = 14.5 ± 9.6 km

ROMANIA (358)

CVO 0.14 109 iPc 21 12.50 -0.5

MLR 0.38 184 iPc 21 06.50 -10.6X

VR1 0.52 90 iPc 21 19.00 -0.4

ISR 0.83 151 ePc 21 29.50 4.7X

CMP 0.90 228 iPd 21 30.00 4.1X

MTUR 0.91 226 eP 21 26.00 -0.2

TNR 1.22 260 ePc 21 31.00 -0.4

COZ 1.28 245 iPc 21 28.50 -4.0X

DRA 1.70 226 ePd 21 45.00 6.5X

TLB 1.93 131 eP 21 42.50 0.8

GZR 2.30 259 iPd 21 50.00 2.8X

BMR 2.49 317 ePd 21 50.00 0.3

BZS 3.07 267 ePc 21 58.00 0.1

S.D. = 0.6 on 7 of 13 obs.

NOV 29, 1990 09h 24m 59.09±0.64s

37.107 N ±7.0km 135.060 E ±5.8km

DEPTH = 380.1 ± 6.7 km

4.5mb (23 obs.)

SEA OF JAPAN (660)

MAT 2.59 102 iPd 25 57.20 -0.6

iS 26 43.20

MDJ 8.57 333 Pc 27 01.40 0.4

CN2 9.91 315 P 27 17.40 0.5

0.8s 20.00nm 4.5mb

SNY 10.05 302 iPd 27 19.80 1.3

1.0s 20.00nm 4.5mb

DL2 10.75 284 eP 27 27.00 0.1

1.0s 100.00nm 5.2mb

SSE 12.96 247 Pc 27 52.50 -0.3

0.9s 55.00nm 5.0mb

NJ2 14.27 254 Pc 28 07.00 0.2

1.0s 100.00nm 5.2mb

TIA 14.43 272 eP 28 07.20 -1.3

1.6s 70.00nm 4.8mb

TIY 17.98 279 eP 28 44.00 -1.3

WHN 18.39 255 eP 28 50.00 0.7

HHC 18.63 289 eP 28 50.80 -1.0

LZH 25.03 277 Pc 29 51.50 -0.7

1.5s 30.00nm 4.5mb

GTA 27.67 286 P 30 14.60 -1.1

0.7s 100.00nm 5.3mb

CHG 36.46 250 eP 31 33.70 2.8

0.8s 12.50nm 4.3mb

GUN 42.08 272 P 32 17.50 0.2

PKI 42.60 272 P 32 21.32 -0.1

0.5s 17.00nm 4.6mb

KKN 42.61 272 P 32 22.04 0.7

0.5s 43.00nm 5.0mb

DMN 42.83 272 P 32 23.90 0.8

0.6s 16.00nm 4.5mb

GKN 43.03 273 P 32 24.90 0.3

0.6s 106.00nm 5.3mb

FBA 51.74 32 eP 33 31.00 0.4

1.0s 9.00nm 4.1mb

GBA 56.18 261 P 34 03.00 0.0

INX 56.61 26 eP 34 05.00 -0.4

WB5 56.68 181 iPc 34 06.00 -0.3

WRA 56.75 181 P 34 06.00 -0.8

0.6s 9.00nm 4.4mb

MBC 57.87 16 ePc 34 13.50 -0.5

0.5s 7.00nm 4.3mb

ASPA 60.46 181 iPc 34 31.90 -0.1

0.4s 7.20nm 4.5mb

KEV 61.52 338 eP 34 38.00 -0.6

SOD 62.86 336 iP 34 46.80 -0.6

YKA 66.23 28 eP 35 08.10 -0.8

0.7s 1.10nm 3.7mb

NUR 67.41 330 eP 35 15.60 -0.6

HFS 71.83 333 eP 35 41.70 -1.0

0.4s 6.80nm 4.7mb

NB2 72.06 335 P 35 44.00 -0.1

0.7s 4.40nm 4.2mb

FFC 76.29 30 iPc 36 08.90 0.9

0.5s 8.00nm 4.7mb

TNP 79.81 50 iP 36 29.50 1.9

0.9s 2.54nm 4.0mb

BW06 81.13 42 iP 36 35.20 0.8

1.0s 2.75nm 4.0mb

CNCB 151.32 51 PKP 44 12.90 8.9X

SOB1 151.99 351 ePKP 44 11.30 6.9X

S.D. = 0.9 on 35 of 37 obs.

% NOV 29, 1990 09h 57m 55.74±1.40s

40.599 N ±16.4km 28.927 E ±6.2km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

YLV 0.34 95 iPg 58 03.20 0.4

IZI 0.49 122 ePg 58 04.70 -1.0

KCT 0.56 231 iPg 58 06.20 -0.9

EDC 0.85 253 ePg 58 12.30 0.2

EYL 0.94 92 iPn 58 13.90 0.2

DST 1.02 193 ePn 58 16.20 1.2

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

NOV 29, 1990 10h 20m 32.79±0.61s

24.308 N ±5.2km 94.488 E ±4.7km

DEPTH = 90.5 ± 7.4 km

5.0mb (12 obs.)

BURMA-INDIA BORDER REGION (294)

LSA 6.14 332 P 22 04.00 0.9

S 23 10.80

CHG 6.86 142 ePn 22 12.00 -0.6

eSg 24 07.00

CHTO 6.86 142 iPn 22 13.00 0.4

eSn 23 36.00

KMI 7.55 82 Pc 22 24.00 1.7

1.0s 60.00nm 5.2mb

S 23 48.50

BDT 8.20 148 eP 22 32.00 1.1

GUN 8.53 297 P 22 36.00 0.2

PKI 8.79 294 P 22 39.60 0.2

KKN 8.98 295 P 22 41.00 -0.8

DMN 9.06 293 P 22 42.60 -0.4

GKN 9.58 295 P 22 49.20 -0.8

NST 10.10 147 eP 23 01.50 4.8X

CD2 10.52 49 eP 23 01.80 -0.7

GYA 11.22 76 P 23 15.60 3.7X

LZH 14.25 32 eP 23 51.00 -0.6

2.5s 80.00nm 4.5mb

pP 24 06.50

GTA 15.72 15 eP 24 09.80 -0.5

1.2s 1030.00nm 5.9mb

XAN 15.89 49 P 24 10.10 -2.3

NDI 16.06 289 eP 24 20.00 5.4X

eS 27 03.80

HYB 16.39 248 eP 24 26.00 7.3X

WHN 18.68 66 eP 24 48.00 1.4

GBA 19.30 240 P 24 57.40 4.1X

S 28 17.40

POO 20.04 257 eP 25 05.50 4.4X

WMO 20.25 346 iPc 25 04.00 0.9

TIY 20.33 45 eP 24 59.50 -4.4X

KOD 21.41 232 eP 25 20.50 5.2X

NJ2 22.79 65 eP 25 28.50 0.1

QUE 25.14 290 eP 26 11.70 20.5X

e(S) 30 03.00

MBL 51.48 149 eP 29 31.50 0.3

KNA 52.01 137 eP 29 34.50 -0.7

0.3s 22.00nm 5.7mb

WB5 58.63 135 iPc 30 22.10 -0.8

WRA 58.66 135 P 30 22.00 -1.1

0.6s 38.60nm 5.7mb

WARB 59.04 146 eP 30 26.00 0.3

0.3s 6.00nm 5.2mb

NUR 59.25 327 eP 30 45.00 18.3X

SOD 59.30 335 eP 30 29.00 2.0

ASPA 61.12 138 iPc 30 39.40 -0.6

0.4s 21.00nm 5.6mb

HFS 64.69 327 eP 31 03.70 0.7

0.5s 3.40nm 4.5mb

NB2 65.82 328 P 31 10.00 -0.3

0.8s 4.30nm 4.4mb

BCAO 75.39 268 iPc 32 13.30 4.5X

0.8s 7.00nm 4.6mb

MBC 77.52 8 eP 32 20.00 0.4

0.5s 2.00nm 4.2mb

BUL 77.86 241 iPd 32 22.50 0.0

1.0s 17.00nm 4.9mb

INK 81.20 16 eP 32 39.00 -0.4

YKA 90.44 13 eP 33 25.00 -0.1

0.5s 0.20nm 3.6mb X

S.D. = 1.0 on 30 of 41 obs.

? NOV 29, 1990 10h 41m 17.91±3.98s

39.517 N ±28.2km 29.534 E ±18.3km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.3 (ISK).

DST 0.71 277 ePg 41 31.20 -0.7

eSg 41 43.70

IZI 0.82 357 iPg 41 32.90 -0.9

YLV 1.06 353 iPn 41 38.20 0.3

EYL 1.15 24 ePn 41 39.70 0.2

KCT 1.16 309 ePn 41 39.70 0.0

BNT 1.50 305 ePn 41 45.90 1.1

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

& NOV 29, 1990 11h 08m 51.30s

78.499 N 107.651 W

DEPTH = 10.0km (geophysicist)

4.5mb (10 obs.)

QUEEN ELIZABETH ISLANDS (678)

<PGC-P>.

MBC 3.42 234 iPd 09 45.50 -0.2

KBT 12.38

29d 11h

MIN	38.69	197	eP	16	18.20	1.7
GOL	38.92	177	P	16	19.50	0.8
TNP	40.72	192	P	16	34.00	0.5
	1.1s	7.25nm			4.3mb	
ANMO	43.66	179	P	17	00.00	2.5
ALO	43.66	179	eP	16	59.00	1.5
	0.9s	3.36nm			4.1mb	
MEQ	43.99	169	eP	17	00.00	0.0
CLL	45.70	49	e(P)	17	17.00	3.5x
CN2	53.95	314	eP	18	16.60	-0.1
WMO	57.60	347	iPc	18	44.70	1.5
BJI	58.90	322	P	18	52.00	-0.2
GTA	61.22	336	eP	19	09.80	1.5
	1.0s	10.00nm			4.9mb	
LZH	64.16	332	eP	19	29.50	1.6
	37 obs.	associated				

? NOV 29, 1990 11h 17m 31.02±1.05s
 39.175 N ± 9.1km 27.618 E ± 16.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

Izm	0.82	200	ePg	17	47.00	0.0
			eSg	18	00.10	
DST	0.89	61	ePn	17	48.20	0.0
EDC	1.19	9	ePn	17	53.80	0.7
BNT	1.20	11	ePn	17	52.70	-0.7
	S.D. = 1.0	on	4 of	4 obs.		

NOV 29, 1990 12h 00m 51.72±1.11s
 35.712 N ± 8.0km 140.814 E ± 8.5km
 DEPTH = 59.0 ± 8.4 km
 4.7mb (15 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	0.72	314	iPd	01	05.40	-0.8
			S	01	14.80	
CHJJ	1.52	283	iPd	01	16.50	-0.4
NIJJ	2.11	317	iPd	01	26.10	0.9
MAT	2.27	292	iPd	01	28.00	0.6
			(S)	01	51.00	
IIDJ	2.38	265	iPd	01	29.60	0.6
YAMJ	2.53	346	iP+	01	32.80	1.6
OFUJ	3.43	11	P	01	44.80	0.9
			S	02	24.70	
TSRJ	3.94	269	P	01	52.90	1.9
WKYJ	4.54	252	P	02	00.60	1.1
AOMJ	4.85	356	eP	02	05.20	1.3
TKSJ	5.82	255	eP	02	18.20	0.7
YONJ	6.02	267	eP	02	20.90	0.6
MRRJ	6.71	2	eP	02	27.90	-1.9
HOOJ	6.93	15	P	02	32.50	-0.4
			eS	03	43.60	
KUSJ	7.97	21	P	02	44.40	-2.9
			S	04	07.60	
ASAJ	8.51	9	P	02	51.90	-2.9
MDJ	12.35	319	eP	03	50.50	3.7x
SNY	14.76	300	eP	04	19.00	0.6
	1.0s	20.00nm			4.4mb	
BJI	19.90	290	eP	05	18.50	-2.4
	1.0s	12.00nm			4.2mb	
TIY	22.81	283	eP	05	54.00	3.7x
	17s	0.50um			4.0mszx	
HHC	23.47	291	eP	05	53.50	-3.2x
XAN	26.16	276	P	06	21.00	-1.3
LZH	29.84	282	P	06	53.00	-2.6
GYA	30.54	262	P	06	59.60	-2.2
CD2	31.21	272	eP	07	05.90	-1.7
GTA	32.51	289	eP	07	13.60	-5.4x
	0.5s	10.00nm			4.9mb	
CHG	40.51	257	eP	08	25.90	-0.7
CHTO	40.51	257	eP	08	26.50	-0.1
	1.0s	2.25nm			3.9mb	
WMO	41.02	298	P	08	31.00	0.4
GUN	46.82	277	P	09	17.78	-0.1
	0.6s	19.00nm			5.2mb	
PKI	47.33	276	P	09	21.78	-0.2
	0.6s	8.00nm			4.9mb	
KKN	47.35	277	P	09	21.62	-0.3
DMN	47.56	277	P	09	22.92	-0.7
GKN	47.78	277	P	09	24.38	-0.8
	0.7s	40.00nm			5.5mb	
MTN	49.15	193	eP	09	36.00	0.4
WBS	55.62	187	eP	10	23.00	-0.8
WRA	55.69	187	P	10	23.00	-1.3
	0.4s	4.90nm			4.9mb	

INK	55.78	27	eP	10	26.00	1.6
HYB	57.69	269	eP	10	38.00	-0.7
ASPA	59.42	187	eP	10	50.60	0.1
	0.5s	7.00nm			5.0mb	
MBL	59.95	203	eP	10	54.00	-0.1
	0.4s	3.00nm			4.8mb	
GBA	60.63	266	P	10	59.00	0.0
KOD	62.49	263	eP	11	12.00	0.1
WARB	63.00	194	eP	11	15.40	0.8
KEV	64.51	339	eP	11	14.00	-10.0x
YKA	65.19	30	eP	11	22.50	-6.0x
	0.9s	1.60nm			4.0mb	
SOD	66.00	337	iP	11	34.60	1.0
NUR	70.89	332	eP	12	04.00	0.0
FFC	75.08	32	iPc	12	30.60	1.9
	0.6s	8.00nm			4.8mb	
HFS	75.09	336	eP	12	28.70	0.0
	0.4s	2.30nm			4.5mb	
Z	17s	0.07um			4.0mszx	
		LR		44	06.00	
NB2	75.22	337	P	12	30.30	0.9
	0.6s	4.60nm			4.6mb	
CLL	82.00	330	iP	13	07.70	1.4
	1.1s	11.00nm			4.8mb	
PRU	82.35	328	eP	13	10.50	2.2
		e		13	24.30	
KHC	83.41	328	eP	13	16.00	2.2
VAY	84.71	318	eP	13	22.00	1.6
LPB	147.96	61	PKP	20	34.00	4.3x
CNCB	148.22	61	PKPc	20	36.80	6.5x
SIV	152.30	50	PKP	20	44.60	8.8x
	S.D. = 1.4	on	49 of	58 obs.		

& NOV 29, 1990 12h 32m 13.32s
 62.078 N 150.303 W
 DEPTH = 52.3km
 2.8mb (1 obs.)
 CENTRAL ALASKA (1)
 <AGS-P>. Felt (IV) at Skwentno.

CUT	0.33	3	iP	32	22.49	-0.5
			eS	32	30.25	
PWA	0.47	155	iP	32	24.25	-0.2
			eS	32	33.87	
SKT	0.59	261	iP	32	25.46	-0.4
			eS	32	35.44	
SUA	0.65	199	eP	32	26.63	-0.1
			eS	32	37.53	
GHO	0.72	115	iP	32	27.01	-0.6
			eS	32	38.08	
PLRM	0.74	131	iP	32	26.94	-0.8
			eS	32	38.14	
PMR	0.74	131	iPc	32	26.90	-0.9
PMS	0.91	157	iP	32	29.60	-0.5
HUR	0.95	19	eP	32	29.77	-0.9
			eS	32	43.21	
SML	0.97	105	eP	32	30.30	-0.6
KNK	1.10	126	iP	32	32.04	-0.7
			eS	32	47.58	
NCG	1.11	233	eP	32	31.80	-1.1
CGLM	1.12	227	eP	32	32.42	-0.6
			eS	32	48.12	
CRP	1.20	228	eP	32	34.19	0.0
SPU	1.23	224	eP	32	33.80	-0.7
			eS	32	50.33	
BGL	1.29	232	eP	32	34.98	-0.4
CKL	1.31	229	eP	32	35.58	-0.2
TRF	1.38	0	eP	32	35.50	-1.2
NKA	1.41	199	eP	32	39.46	2.5
SCM	1.43	99	iP	32	36.46	-0.8
			eS	32	52.65	
RND	1.49	26	eP	32	36.91	-1.3
SLKM	1.58	179	eP	32	38.33	-1.0
MCK	1.77	20	eP	32	41.20	-0.9
RDT	1.82	215	eP	32	42.41	-0.4
			eS	33	05.44	
TOA	1.94	87	ePc	32	44.00	-0.5
GLI	1.95	127	iP	32	43.14	-1.5
			eS	33	08.57	
RDN	1.97	218	iP	32	44.88	-0.1
REF	1.97	217	eP	32	45.00	0.0
NCT	1.98	221	eP	32	44.66	-0.4
RS2	2.01	217	eP	32	45.88	0.3
RSO	2.01	217	iP	32	45.76	0.2
SEW	2.02	168	eP	32	44.38	-1.2
VZW	2.06	118	eP	32	45.07	-1.2
NNL	2.10	194	eP	32	49.12	2.4

VLZ	2.12	115	eP	32	45.16	-1.8
			eS	33	09.71	
KNIM	2.13	143	eP	32	44.59	-2.6
BWN	2.14	10	eP	32	46.48	-0.7
KLU	2.16	104	iP	32	45.92	-1.7
			eS	33	12.74	
SDG	2.27	76	eP	32	48.64	-0.5
TZL	2.30	89	eP	32	49.02	-0.4
BRK	2.34	187	eP	32	50.05	0.0
LT1	2.37	149	eP	32	47.72	-2.7
PAX	2.41	66	eP	32	49.95	-1.3
			eS	33	19.23	
INE	2.43	215	eP	32	50.48	-1.0
MTU	2.46	147	eP	32	50.62	-1.2
NEA	2.57	12	eP	32	50.80	-2.5
CNPM	2.60	191	eP	32	54.23	0.4
WRH	2.60	22	eP	32	51.93	-1.8
DDM	2.66	48	eP	32	54.52	-0.1
CVA	2.68	123	ePc	32	52.93	-1.9
SVW	2.72	251	iPc	32	53.80	-1.7
TTA	2.78	290	ePc	32	54.20	-2.3
HDA	2.78	31	eP	32	54.73	-1.7
CCB	2.81	22	eP	32	54.57	-2.2
SGAM	2.92	120	eP	32	56.28	-2.1
PDB	2.98	221	eP	32	58.76	-0.5
MDM	3.04	17	eP	32	57.95	-2.1
FBA	3.05	21	ePc	32	58.20	-2.0
GLB	3.15	99	iP	32	59.44	-2.3
GLM	3.20	23	eP	33	00.19	-2.2
RAGM	3.21	119	eP	33	01.03	-1.4
DOT	3.27	58	eP	33	03.60	0.3
HMT	3.41	118	eP	33	02.93	-2.3
CDD	3.56	209	eP	33	07.35	-0.1
KAIM	3.59	124	eP	33	07.35	-0.4
TGL	3.83	107	eP	33	07.66	-3.6
BALM	3.95	102	eP	33	09.89	-3.1
IMA	4.27	341	eP	33	14.90	-2.6
KDC	4.48	195	eP	33	20.00	-0.3
DWY	5.32	63	P	33	31.90	-0.3
HYT	6.26	96	P	33	43.00	-2.5
ANM	7.22	297	eP	33	56.20	-2.6
YKA	16.48	73	eP	36	02.00	-0.1
	0.6s	0.50nm			2.8mb	
	73 obs.	associated				

& NOV 29, 1990 12h 36m 59.51s
 60.442 N 152.298 W
 DEPTH = 82.7km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RDT	0.14	338	iP	37	11.13	1.1
			eS	37	20.58	
REF	0.21	283	iP	37	11.64	1.2
			eS	37	21.24	
RSO	0.23	275	iP	37	11.73	-0.4
			eS	37	21.78	
RS2	0.23	275	eP	37	11.62	-0.6
			eS	37	21.38	
R						

SUA	1.28	36	eS	37 35.07	
			eP	37 22.30	-0.2
			eS	37 39.80	
SEW	1.46	102	eP	37 23.39	-1.4
PMS	1.56	58	eP	37 25.25	-1.0
			eS	37 44.33	
SKT	1.59	13	eP	37 25.23	-1.3
CDD	1.66	205	eP	37 25.93	-1.6
PWA	1.69	43	eP	37 27.95	0.1
			eS	37 47.91	
KNK	2.11	61	eP	37 31.87	-1.7
CUT	2.20	25	eP	37 34.09	-0.6
LTJ	2.25	98	eP	37 32.98	-2.5
KNIM	2.27	90	eP	37 32.66	-3.0
MTU	2.36	99	eP	37 34.62	-2.4
GLI	2.60	78	eP	37 39.83	-0.4
TRF	3.17	17	eP	37 47.14	-1.1
KLU	3.28	69	eP	37 46.98	-2.8

34 obs. associated

NOV 29, 1990 12h 46m 59.72±0.90s
 39.128 N ± 6.9km 27.536 E ±13.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

Izm	0.76	196	iPg	47 14.60	0.0
			iSg	47 26.10	
DST	0.97	60	iPn	47 18.20	0.0
EDC	1.24	12	iPn	47 23.30	0.5
BNT	1.26	13	iPn	47 22.80	-0.4
KGT	1.33	352	iPn	47 24.20	-0.1
IZI	1.92	50	ePn	47 36.00	3.2X

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

? NOV 29, 1990 12h 58m 42.18±22.23s
 42.223 N ±184. km 21.974 E ±33.0km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 1.5 (SKO).

SKO	0.47	238	ePg	58 51.50	-0.2
			iSg	58 55.00	
VAY	1.01	153	ePg	59 00.50	-0.7
KNT	1.27	147	eP	59 05.80	0.1
OHR	1.42	219	ePg	59 03.50	-4.5X
			iSg	59 18.50	
LIT	2.16	169	eP	59 35.00	16.3X
AGG	3.21	175	eP	59 34.40	0.8

S.D. = 1.1 on 4 of 6 obs.

* NOV 29, 1990 13h 28m 52.54±0.66s
 18.190 S ±10.0km 69.261 W ± 7.9km
 DEPTH = 168.6 ± 7.0 km
 4.4mb (3 obs.)

NORTHERN CHILE (123)

CNCB	1.84	42	iPd	29 28.00	0.0
LPB	1.99	34	iPd	29 29.70	0.2
ARE	2.74	309	iPc	29 39.00	0.8
			iS	30 12.00	
CCH	3.08	75	Pd	29 42.50	0.0
ANT	5.59	191	iP	30 14.80	0.0
SIV	8.13	76	iPc	30 44.80	-3.9X
NNA	9.57	309	iPd	31 06.20	-1.5

0.5s 5.63nm 4.3mb

			eS	32 48.00	
SOB1	28.93	76	iPd	34 37.50	-0.7
PDCR	29.58	83	eP	34 44.50	0.7
LIC	67.83	75	P	39 34.30	-0.5
TIC	67.99	75	P	39 35.40	-0.5
KIC	68.14	75	P	39 36.60	-0.2
			0.5s	12.00nm	4.9mb
YKA	87.97	341	eP	41 25.70	1.7
			0.5s	0.70nm	3.9mb
HYB	149.37	86	ePKP	48 30.50	11.5X

S.D. = 0.9 on 12 of 14 obs.

% NOV 29, 1990 13h 35m 06.26±0.96s
 39.176 N ± 7.4km 27.574 E ±13.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.6 (ISK).

Izm	0.81	197	ePg	35 22.00	-0.1
			eSg	35 34.00	
DST	0.92	62	ePn	35 24.20	0.3

EDC	1.19	11	ePn	35 28.80	0.3
BNT	1.21	13	ePn	35 27.70	-1.1
KGT	1.29	351	iPn	35 30.70	0.5

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

NOV 29, 1990 14h 50m 06.26±0.58s
 12.996 N ± 3.0km 143.833 E ± 4.5km
 DEPTH = 126.6 ± 5.5 km
 5.1mb (17 obs.)

SOUTH OF MARIANA ISLANDS (210)

PJG	1.17	60	eP	50 30.50	-0.3
GUA	1.18	63	eP	50 30.70	-0.3
			eS	50 46.20	
MNDI	19.03	181	eP	54 23.00	1.7
YYYY	19.23	174	eP	54 25.00	1.6
PMG	22.50	171	eP	54 56.00	0.0
IIDJ	23.02	348	eP	55 00.80	-0.1
KAKJ	23.34	353	P	55 03.90	-0.1
CHJJ	23.36	350	P	55 04.00	-0.2
MAT	23.98	349	iPd	55 09.00	-1.3

1.0s 47.00nm 4.9mb

			(S)	59 10.00	
NIJJ	24.53	351	P	55 14.60	-0.8
YAMJ	25.30	353	P	55 24.20	1.6
OFUJ	26.05	356	eP	55 30.70	1.3
QIS	33.60	187	iPd	56 36.30	-0.2
			0.1s	55.00nm	6.3mb X
WB5	33.97	196	iPd	56 39.60	-0.1
			eS	02 48.80	
BJI	36.29	323	eP	56 59.00	-0.2
			1.0s	27.00nm	5.0mb
TIY	37.26	317	Pc	57 08.20	0.8
GVA	37.32	297	P	57 10.00	1.9
ASPA	37.71	195	iPd	57 08.90	-2.4

0.6s 161.60nm 6.0mb

Z	23s	0.10um	3.6MsZ		
			eS	02 52.20	
XAN	37.98	309	P	57 13.30	-0.2
QLP	39.34	179	ePd	57 25.00	0.3
RMO	39.54	173	iPd	57 26.20	-0.2
HHC	39.57	321	eP	57 28.00	1.3
BTO	40.40	319	eP	57 34.00	0.5
BRS	41.07	168	iPc	57 39.80	0.8
			i	58 07.10	
MBL	41.33	215	iPd	57 41.50	0.4
			0.4s	34.00nm	5.4mb
WARB	42.38	203	iPd	57 51.10	1.4
LZH	42.61	310	eP	57 52.00	0.3
			1.5s	42.00nm	4.9mb
SNG	42.90	267	eP	58 20.20	26.1X
COO	44.01	170	eP	57 59.00	-3.9X
FORR	46.14	199	iPc	58 20.10	0.4
GTA	46.82	312	P	58 25.40	0.2

0.6s 10.00nm 4.7mb

			pP	58 50.60	107kmX
BWA	47.36	175	iPd	58 30.00	0.7
ADE	47.94	186	iPd	58 33.90	0.1
			0.6s	84.00nm	5.7mb
CAN	48.30	174	iPd	58 37.10	0.5
CNB	48.33	174	iPc	58 38.00	1.2
BFD	49.92	181	ePd	58 48.50	-0.3
TOO	50.32	178	iPd	58 53.60	1.6
			0.7s	129.00nm	5.9mb
BAL	50.60	211	iPd	58 54.00	-0.2
KLB	50.90	209	iPd	58 55.90	-0.6
			0.7s	71.00nm	5.6mb
LSA	51.37	298	P	59 01.40	0.7
MUN	51.96	210	iPd	59 03.90	-0.6
NWAO	52.26	208	eP	59 06.00	-0.6
RKG	53.31	208	eP	59 17.70	3.4X

0.5s 50.00nm 5.7mb

GUN	55.82	295	P	59 32.56	-0.7
PKI	56.22	295	P	59 34.84	-1.3
KKN	56.35	295	P	59 36.02	-0.9
DMN	56.49	295	P	59 37.38	-0.6
WMO	56.82	314	P	59 40.20	0.4
GKN	56.93	295	P	59 39.68	-1.2
TCW	60.83	154	P	00 06.80	-0.5
MNG	60.87	153	P	00 06.70	-0.9
CAW	61.09	153	P	00 08.10	-1.0
WDW	61.19	154	P	00 08.60	-1.1
MTW	61.32	153	P	00 09.30	-1.3
LTZ	61.33	156	P	00 10.10	-0.6
BLW	61.48	153	P	00 10.70	-1.0
KHZ	61.53	155	P	00 10.40	-1.6
HYB	62.89	283	eP	00 21.00	-0.6

GBA	64.43	279	Pd	00 36.40	4.9X
			0.2s	0.80nm	4.3mb
PMR	67.78	28	P	00 50.00	-2.1
			0.7s	7.99nm	4.7mb
BRW	68.20	17	P	00 53.40	-1.1
FBA	69.19	25	P	00 59.70	-1.0
			0.4s	2.59nm	4.4mb
INK	75.30	22	eP	01 36.00	-0.7
MAIO	77.91	305	eP	02 06.00	14.0X
MBC	79.09	14	eP	01 57.00	-0.5

			0.5s	5.00nm	4.5mb
YKA	83.85	27	eP	02 21.70	-0.8
			0.4s	3.00nm	4.5mb
WDC	84.39	50	eP	02 26.30	0.6
LBFM	84.70	49	P	02 27.80	0.2
MIN	85.13	50	eP	02 29.40	-0.3
BKS	85.20	52	ePd	02 30.20	0.4
			1.0s	30.00nm	5.1mb
ORV	85.39	51	eP	02 31.00	0.2
MHC	85.78	53	eP	02 33.50	0.6
ARN	85.86	53	P	02 33.50	0.3
PRS	86.22	54	eP	02 35.50	0.6
LLA	86.49	53	eP	02 37.00	0.8
CMB	86.59	52	eP	02 37.00	0.3
PRJ	86.82	54	eP	02 39.20	1.2
FRI	87.36	53	eP	02 41.00	0.6
BCH	87.50	55	P	02 41.80	0.5
ABL	88.27	55	P	02 45.30	0.2
TNP	88.99	51	P	02 48.20	-0.3

0.9s 18.23nm 5.2mb

PAS	89.29	55	eP	02 49.00	-0.7
CLC	89.31	53	eP	02 50.00	0.2
MWC	89.36	55	eP	02 50.00	-0.3
SBB	89.42	55	eP	02 51.00	0.6
RVR	89.97	55	eP	02 53.00	0.2
GSC	90.07	54	eP	02 54.00	0.6
PEC	90.17	55	P	02 53.60	-0.2
PLM	90.55	56	eP	02 57.00	1.2
BAR	90.89	56	eP	02 57.00	-0.1
TPC	91.00	55	eP	02 57.00	-0.6
GLA	92.27	55	eP	03 05.00	1.5
BW06	93.09	45	eP	03 07.30	-0.1
LIC	143.64	300	PKP	09 26.00	-2.7X
LPB	148.94	100	PKP	09 57.00	19.1X
CNCB	149.04	101	PKP	09 44.00	5.8X

S.D. = 0.9 on 88 of 96 obs.

NOV 29, 1990 15h 51m 15.16±0.93s
 40.620 N ± 8.4km 21.537 E ± 7.6km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.2 (THE).

FNA	0.20	323	iPc	51 19.96	0.3
			eS	51 24.12	
GRG	0.74	63	ePd	51 29.48	-0.2
			iS	51 39.42	
OHR	0.74	311	iPg	51 29.00	-0.8
			iSg	51 42.70	
LIT	0.89	125	iPc	51 30.68	-1.6
			eS	51 44.44	
VAY	1.05	48	ePn	51 35.70	0.8
KNT	1.17	62	eP	51 37.04	0.1
			iS	51 53.72	
AGG	1.71	159	ePd	51 46.64	1.5

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

29d 16b

				eSn		
SDI	2.82	224	P	50	33.50	
ASS	2.84	257	P	50	07.00	1.1
				50	05.50	-0.6
				eSn	50	38.00
VOY	2.90	322	ePn	50	05.80	-1.1
				eSn	50	43.00
MNS	3.08	245	P	50	08.60	-0.9
CRE	3.26	269	P	50	14.00	1.9
SFI	3.32	274	P	50	14.20	1.3
				eSn	50	48.50
PGD	3.42	273	P	50	16.00	1.6
FVI	3.83	319	P	50	19.50	-0.6
CTI	4.10	306	P	50	22.50	-1.4
OHR	4.18	128	ePn	50	26.70	1.6

S.D. = 1.4 on 16 of 18 obs.

S.D. = 1.4 on 16 of 18 obs.

% NOV 29, 1990 17h 13m 18.59± 0.87s
31.672 S ± 8.9km 117.116 E ± 8.0km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

WESTERN AUSTRALIA (590)

KLB	0.56	82	iPd	13	31.40	1.5
MUN	0.83	248	iPd	13	34.30	-0.3
			iS	13	44.10	
BAL	1.12	342	iPc	13	40.30	0.7
			iS	13	54.30	
NWAO	1.25	175	iPc	13	42.20	0.3
			iS	13	58.60	
RKG	2.39	182	eP	14	10.00	11.6X
			iS	14	45.50	
COOL	3.54	78	iPc	14	14.00	-0.7
			iS	14	44.70	
WARB	9.98	59	eP	15	43.50	-1.5
			eS	17	27.00	
S.D.	= 1.4	on	6 of	7 obs.		

S.D. = 1.4 on 6 of 7 obs.

NOV 29, 1990 17h 46m 01.61±0.64s
46.888 N ± 5.0km 8.990 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.5 (VIE).

ML 2.5 (VIE).

LLS	0.02	166	iPd	46	02.50	-1.2
SAX	0.44	34	ePd	46	10.10	-0.5
VDL	0.52	140	iPc	46	11.50	-0.7
ZLA	0.72	326	ePd	46	15.60	-0.3
TMA	0.79	186	ePd	46	17.30	0.3
OSS	0.82	104	iPc	46	16.50	-1.1
SLE	0.94	339	ePc	46	19.50	-0.1
VAI	1.03	189	P	46	22.30	1.2
			eSg	46	35.50	
MMK	1.10	221	ePc	46	22.50	0.1
MDI	1.22	156	P	46	28.00	3.8X
			eSg	46	47.00	
SQTA	1.55	77	iPg d	46	31.60	2.2
			iSg	46	53.60	
EMS	1.64	241	ePd	46	34.20	3.4X

S. D. = 1.2 on 10 of 12 obs.

S.D. = 1.2 on 10 of 12 obs.

• NOV 29, 1990 18h 47m 47.52± 2.30s
43.798 N ± 7.5km 17.033 E ± 21.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.1 (ZAG).

ML 3.1 (ZAG).

HVAR	0.75	215	iPgc	48	02.40	0.2
			iSg	48	13.80	
VBY	2.13	324	iPn	48	25.50	2.0
			iSn	48	50.90	
ZAG	2.15	340	ePn	48	23.80	-0.1
			iSg	48	54.00	
PTJ	2.24	340	ePn	48	25.00	-0.2
			iSg	48	55.00	
RIY	2.44	310	e(Pn)	48	29.30	1.3
			iSg	49	00.40	
CEY	2.69	317	ePn	48	32.90	1.3
			eSn	49	05.50	
LJU	2.86	323	e(Pn)	48	34.50	0.5
			eSn	49	08.50	
ARV	2.98	266	P	48	35.00	-0.8
			eSn	49	10.00	
TRI	3.01	310	eP	48	35.10	-1.0
			i	49	11.00	
VOY	3.16	316	ePn	48	37.80	-0.5
			eSn	49	14.80	
SDI	3.16	230	P	48	38.00	-0.3
ASS	3.27	259	P	48	38.70	-1.1

MNS	3.49	248	eSn	49	16.00		
			P	48	43.00	0.1	
			eSn	49	22.00		
CRE	3.69	269	P	48	47.50	1.6	
SFI	3.75	274	P	48	47.00	0.4	
			eSn	49	30.00		
PGD	3.84	273	P	48	49.20	1.0	
OHR	3.87	133	e(Pn)	49	02.00	13.6X	
FVI	4.10	314	P	48	49.00	-2.6	
			eSn	49	36.00		
CTI	4.44	302	P	48	55.50	-1.0	
			eSn	49	43.00		
SQTA	5.33	312	iPnd	49	08.50	-0.7	
			iSn	50	07.90		
S.D. = 1.2 on 19 of 20 obs.							

S.D. = 1.2 on 19 of 20 obs.

% NOV 29. 1990 19h 00m 41.08± 3.21s
33.147 S ±13.5km 70.276 W ±20.5km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHILE-ARGENTINA BORDER REGION (127)

FCH	0.18	184	iPc	00 45.30	0.0
			iS	00 47.50	
SAN	0.44	227	eP	00 50.10	0.0
PCH	0.51	203	iPc	00 51.50	0.0
			iS	00 59.40	
ROCH	0.64	286	iPd	00 54.10	0.0
TACH	0.75	227	eP	00 56.00	0.2
CHCH	0.84	202	eP	01 00.70	3.3X
			iS	01 15.00	
LNV	1.24	229	iPd	01 04.00	-0.2
			eS	01 20.50	

S.D. = 0.2 6 of 7 obs

NOV 29, 1990 19h 12m 40.61 \pm 1.77s
17.064 N \pm 7.1km 147.236 E \pm 11.3km
DEPTH = 69.2 \pm 15.9 km
4.6mb (10 obs.)
MARIANA ISLANDS REGION (215)

MARIANA ISLANDS REGION (215)

PJG	4.14	214	eP	13	42.70	-0.2
			eS	14	31.00	
IIDJ	20.14	337	P	17	11.90	0.3
CHJJ	20.28	340	P	17	15.20	2.2X
MAT	20.98	339	iPd	17	18.90	-1.4
	0.8s	14.18nm				4.3mb
NIJJ	21.37	342	P	17	25.40	1.3
PMG	26.30	180	eP	18	11.00	-0.7
WB5	38.83	200	eP	20	00.70	0.0
ASPA	42.53	198	eP	20	30.90	-0.2
	0.6s	5.70nm				4.6mb
CHG	45.87	280	eP	20	58.80	0.7
NNT	46.05	271	eP	21	01.70	2.1
WARB	47.42	205	iPc	21	11.20	1.0
GUN	57.21	292	P	22	23.24	-0.4
PKI	57.64	292	P	22	25.56	-1.1
	0.5s	5.00nm				4.9mb
KKN	57.75	292	P	22	26.60	-0.7
	0.7s	6.00nm				4.8mb
DMN	57.91	292	P	22	29.00	0.5
GKN	58.30	293	P	22	30.44	-0.6
FBA	64.13	25	eP	23	09.70	0.2
	1.0s	5.00nm				4.4mb
GBA	67.09	278	Pd	23	28.70	-0.6
	0.5s	1.10nm				4.1mb
INK	70.30	23	ePd	23	47.70	-0.5
MBC	74.36	14	ePc	24	12.80	0.6
	1.0s	8.00nm				4.6mb
YKA	78.74	28	eP	24	36.60	-0.2
	0.6s	4.10nm				4.5mb
FFC	87.67	33	eP	25	24.00	1.4
	0.9s	15.00nm				5.1mb
HFS	94.43	339	eP	25	53.00	-1.0
	0.5s	1.30nm				4.6mb
KIC	143.82	308	PKP	32	10.00	-0.5
LPB	146.20	94	ePKP	32	25.00	10.1X
CNCB	146.34	95	PKP	32	19.00	3.7X
SIV	152.85	92	PKP	32	33.00	8.4X

S.D. = 1.0 on 23 of 27 obs.

S.D. = 1.0 on 23 of 27 obs.

& NOV 29, 1990 19h 33m 36.20s
37.507 N 118.893 W

37.507 N 118.893 W

CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.9 (BRK).

FRI 0.83 232 iP 33 51.60 -1.2

			iS	34	02.40	
CMB	1.29	294	iPc	33	59.70	-1.3
			iS	34	16.30	
TNP	1.45	66	eP	34	02.00	-1.6
KVN	1.66	22	eP	34	06.80	0.1
PKEM	1.74	214	eP	34	07.80	0.2
LLA	1.87	242	iPc	34	09.70	0.2
			eS	34	33.30	
PRI	1.97	227	eP	34	11.40	0.3
			iS	34	34.70	
ARN	2.11	267	eP	34	13.50	0.5
SAO	2.17	251	iP	34	14.00	0.1
MHC	2.19	267	eP	34	15.00	0.7
PRS	2.31	240	eP	34	16.00	0.2
BCH	2.51	203	eP	34	18.30	-0.5
ABL	2.66	186	e(P)	34	21.50	0.4

13 obs. associated

13 obs. associated

& NOV 29, 1990 19h 52m 43.60s
37.518 N 118.882 W
DEPTH = 11.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.7 (BRK).

<BRK>. ML 2.7 (BRK).

FRI	0.84	232	iPd	52	59.10	-0.7
			eS	53	09.80	
CMB	1.30	294	ePd	53	07.30	-0.3
			iS	53	23.80	
TNP	1.43	66	eP	53	09.90	0.2
LLA	1.88	242	iPd	53	17.30	1.4
PRI	1.98	227	eP	53	19.20	1.7
			iS	53	46.80	
ARN	2.12	266	eP	53	20.60	1.2
SAO	2.18	251	iP	53	21.50	1.2
MHC	2.20	266	eP	53	22.50	1.7
PRS	2.32	240	eP	53	23.70	1.4
	9	abs.	associated			

9 obs. associated

% NOV 29, 1990 20h 47m 28.19± 0.84s
39.860 N ± 6.5km 28.797 E ± 6.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
- MD 2.3 (ISK).

- MD 2.3 (ISK).

DST	0.29	207	iPg	47	34.20	0.0
			iSg	47	38.70	
KCT	0.52	319	iPg	47	38.50	-0.1
IZI	0.70	47	iPg	47	42.00	-0.1
			iSg	47	52.00	
YLV	0.83	32	iPg	47	44.50	0.2
			iSg	47	57.50	
BNT	0.84	307	ePg	47	44.50	0.2
			eSg	47	58.50	
EDC	0.87	304	ePg	47	44.80	0.0
			eSg	47	58.80	
EYL	1.26	55	ePn	48	01.00	9.4X
S.D.	= 0.2	on	6 of	7 obs.		

S.D. = 0.2 on 6 of 7 obs

NOV 29, 1990 20h 58m 11.08 \pm 0.18s
28.041 S \pm 4.5km 179.707 W \pm 4.7km
DEPTH = 415.0km (2 depth phases)
5.1mb (26 obs.)

5.1mb (26 ops.)

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REMARKS: 2000 ISLANDS REGION (1977)
Felt on Rookl Island.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 20:58:18.7 0.3
Lat 27.66S 0.03 Lon 179.79W 0.02
Dep 425.7 1.3 Half-duration 3.0
Moment Tensor: Scale 10**18 Nm
Mrr= 0.16 0.01 Mtt=-1.16 0.03
Mff= 1.00 0.03 Mrt=-0.34 0.03
Mrf=-0.76 0.02 Mtf=-0.27 0.02
Principal Axes:
T Val= 1.45 Plg=30 Azm= 88
N -0.11 53 230
P -1.33 19 347
Best Double Couple: Mo=1.4*10**18
NP1: Strike=125 Dip=55 Slip= 171
NP2: 220 82 36

RAO 1.98 128 P 59 10.00 1.3
S 59 55.00
HBZ 9.68 189 eP 00 24.90 -1.4
SVA 10.02 350 iPc 00 28.10 -2.2

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VUN	10.13	350	eP	00	28.20	-3.4X	WB5	42.55	271	eP	05	27.80	-2.1	CD2	93.56	303	eP	10	44.00	1.7
PUZ	10.15	189	eP	00	28.00	-3.8X			eScP	10	26.60			MCMT	94.67	41	eP	10	48.00	0.7
WLZ	10.54	201	P	00	38.20	1.9			eS	11	24.00			BW06	95.48	44	eP	10	50.50	-0.5
			S	02	44.00		WRA	42.55	271	P	05	27.00	-2.9X		1.1s	40.18nm			5.5mb	
NDF	10.56	345	eP	00	35.70	-0.9		0.4s	44.10nm			5.2mb		NNA	95.51	107	e(P)	10	52.00	0.4
SGE	10.63	348	eP	00	35.30	-2.2	FORR	45.20	253	eP	05	48.70	-2.0		0.7s	6.85nm			4.9mb	
TAZ	10.65	196	eP	00	36.70	-0.8	WARB	47.47	259	eP	06	07.00	-1.2	FBA	95.91	13	eP	10	51.70	-0.4
UTU	10.68	198	eP	00	39.00	1.1	MTN	48.16	278	eP	06	12.00	-1.5		1.0s	6.00nm			4.7mb	
NOZ	10.72	190	eP	00	34.40	-3.9X		0.3s	11.00nm			4.7mb		LZH	96.11	308	P	10	55.00	1.1
WHH	11.27	195	P	00	43.30	-1.3	SBA	50.28	184	iPd	06	32.90	4.2X	GOL	96.51	48	eP	10	56.00	0.2
HITZ	11.29	198	eP	00	45.10	0.3	MBL	54.93	263	eP	07	12.00	8.8X		1.1s	7.69nm			4.8mb	
KETZ	11.69	198	eP	00	48.90	-0.5	SPA	62.12	180	iPc	07	55.20	3.5X	CNCB	100.31	115	Pdiff	11	16.00	2.1
NGZ	11.77	198	P	00	49.30	-1.1		1.0s	80.00nm			5.2mb			i			15	24.00	
CNZ	11.81	198	eP	00	49.20	-1.6	Z	20s	4.50um			5.6msz		LPB	100.37	115	Pdiff	11	16.00	2.1
TTH	11.83	193	eP	00	48.50	-2.3X		i			09	23.90	416km		eLR			39	26.00	
PGZ	12.98	194	eP	01	00.20	-3.1X	AIA	74.67	157	eP	09	08.50	1.0	WMO	110.59	309	ePdiff	11	53.50	-4.8X
MNG	13.16	196	P	01	01.00	-4.3X	CHJJ	74.68	326	P	09	06.40	-1.6	QUE	122.49	290	ePKP	16	21.00	1.2
KIW	13.54	198	eP	01	05.30	-4.0X	IDJ	74.77	325	P	09	07.90	-0.6	PDCR	124.47	131	ePKP	16	22.70	-1.1
MTW	13.66	195	eP	01	06.70	-4.0X	MAT	75.46	326	eP	09	10.00	-2.3		e			16	24.60	
BLW	13.87	195	eP	01	10.20	-2.7X			eS	18	18.00			BUL	124.82	213	ePKP	16	20.80	-3.8X
WDW	13.89	197	eP	01	09.20	-3.9X	ADK	79.62	2	eP	09	32.00	-2.4	SCH	125.49	41	ePKP	16	24.00	-0.7
MRW	13.94	198	eP	01	09.20	-4.4X		1.0s	112.00nm			5.5mb		SOB1	125.62	127	ePKP	16	23.60	-2.5X
			S	03	40.00		SYR	84.03	46	eP	09	59.00	1.5		e			16	25.60	
MOW	13.97	196	eP	01	10.60	-3.4X	PRS	84.33	44	eP	09	59.80	1.0	DAG	130.35	6	iPKPc	16	32.00	-1.3
SNZO	14.01	198	P	01	12.80	-1.6	BCH	84.38	45	eP	10	00.30	1.1		1.1s	8.86nm				
			sP	02	44.00		GCC	84.41	43	eP	10	00.10	1.0		i			19	15.80	
			S	03	39.00		PCC	84.49	42	eP	10	00.20	0.7	KAF	141.83	341	ePKP	16	46.00	-9.0X
TCW	14.04	199	eP	01	10.50	-4.2X	SAO	84.57	43	eP	10	00.80	0.8	NUR	143.59	340	ePKP	16	54.00	-4.0X
THZ	14.96	202	eP	01	22.30	-2.3X	PRJ	84.64	44	eP	10	01.30	0.8		0.9s	33.80nm				
KHZ	15.36	199	eP	01	25.70	-2.9X	LLA	84.77	44	eP	10	01.70	0.7	UPP	146.05	344	iPKP	16	59.70	-2.5X
			eS	04	05.70		BRK	84.81	42	eP	10	02.50	1.4	NB2	146.19	350	PKP	17	00.40	-2.1
LTZ	16.08	202	eP	01	33.00	-3.1X	MHC	84.83	43	eP	10	02.30	0.9		0.7s	21.20nm				
MHZ	19.12	204	eP	02	05.00	-1.4	PAS	84.95	47	eP	10	00.00	-1.9	HFS	146.64	348	ePKP	17	01.50	-1.6
MMCZ	19.13	205	eP	02	04.70	-1.7	BAR	85.02	49	eP	10	03.00	0.7		0.6s	42.20nm				
TLC	19.31	205	eP	02	07.30	-0.9	MWC	85.07	47	eP	10	03.00	0.3	DSI	149.43	285	ePKP	17	13.00	4.6X
BRS	24.35	265	iPc	02	56.70	1.2	PLM	85.31	48	eP	10	04.00	0.1	KAS	149.64	305	ePKP	17	16.00	7.5X
			iS	04	13.00		RVR	85.37	48	eP	10	04.00	0.1	MBH	149.74	282	ePKP	17	14.00	5.0X
COO	24.87	257	eP	02	56.00	-4.2X	PEC	85.44	48	eP	10	04.50	0.1	ZNT	149.75	287	ePKP	17	14.00	5.1X
			e	03	02.00	21kmX	SBB	85.51	47	eP	10	04.00	-0.7	BBTK	150.76	302	ePKP	17	17.00	6.7X
CNB	27.23	247	eP	03	24.00	2.8X	ISA	85.70	46	eP	10	06.00	0.4	BCAO	150.80	220	iPKPc	17	14.00	3.0X
			i	04	46.00		WHN	85.73	308	eP	10	07.10	1.4		1.0s	50.00nm				
			i	09	32.90		FRJ	85.77	44	eP	10	06.00	0.2		i			17	20.00	
CAN	27.52	247	eP	03	24.80	1.0	FHC	85.78	39	eP	10	07.00	1.2		i			19	08.00	
			i	03	28.30	12kmX	MDJ	85.84	326	eP	10	06.00	0.0	SPC	153.90	329	ePKP	17	03.40	-11.2X
			ePP	04	40.50		CMB	86.03	43	eP	10	07.30	0.2		e			17	36.90	
			eScP	09	27.20		TPC	86.31	48	eP	10	09.00	0.5	KSP	154.20	336	ePKPc	17	14.60	-0.1
TBI	27.61	87	iP	03	23.40	-1.2	CLC	86.35	46	eP	10	09.00	0.3		i			17	24.20	
	0.8s	155.00nm			5.4mb		ORV	86.36	41	eP	10	09.00	0.4		i			17	39.00	
BWA	27.91	249	eP	03	25.90	-1.4	WDC	86.44	40	eP	10	09.50	0.5		e			19	08.30	
			i	03	29.80	14kmX	GLA	86.49	50	eP	10	10.00	0.6	CLL	154.86	341	ePKP	17	13.00	-2.5X
			ePP	04	47.00		GSC	86.54	47	eP	10	10.00	0.3		1.5s	31.00nm				
			eScP	09	33.30		SNY	87.03	321	iPc	10	12.00	0.3		i			17	41.20	
RMO	28.04	266	eP	03	30.00	1.6		1.2s	100.00nm			5.5mb		BRG	154.96	339	ePKP	17	15.50	-0.1
			e	04	46.50		TIA	87.27	314	eP	10	13.60	0.6		1.2s	12.00nm				
AFR	29.43	76	iP	03	39.30	-1.3	CN2	87.36	324	iPc	10	14.00	0.7		i			17	26.30	
	1.1s	165.00nm			5.3mb			1.2s	100.00nm			5.5mb			i			17	42.10	
PAE	29.55	76	iP	03	40.30	-1.3			eS	20	15.00				e			19	56.00	
	1.1s	210.00nm			5.4mb				SS	26	13.00		ZST	156.02	332	ePKP	17	17.00	-0.2	
PPN	29.73	76	iP	03	41.00	-2.2	TNP	88.00	44	iP	10	17.00	0.3		e			17	47.40	
	1.1s	90.00nm			5.0mb			1.0s	62.75nm			5.4mb		KHC	156.59	338	ePKP	17	18.90	0.9
TVO	29.78	77	iP	03	41.40	-2.3	KVN	88.06	43	eP	10	17.20	0.2		i			17	50.00	
	1.1s	260.00nm			5.5mb		LNV	88.32	128	ePc	10	19.00	0.8	LIC	157.72	166	PKP	17	21.60	1.3
CMS	30.04	255	eP	03	45.00	-0.8	TACH	88.81	128	eP	10	22.00	1.4		1.0s	18.50nm				
			e	05	09.00		CHCH	88.86	128	eP	10	22.50	1.7	Z	20s	0.45um			5.3msz	
TOO	30.61	243	eP	03	51.00	0.3	PCH	89.13	128	eP	10	23.00	0.9	KIC	157.92	167	PKP	17	21.70	1.2
			i	03	55.00	14kmX	ROCH	89.13	127	eP	10	23.70	1.4		1.3s	45.50nm				
PMO	32.20	73	iP	04	02.60	-1.9	FCH	89.44	128	eP	10	25.60	1.7	TIC	158.13	166	PKP	17	21.10	0.3
	1.1s	80.00nm			5.0mb		BJI	90.20	316	eP	10	27.50	1.0		1.1s	29.50nm				
VAH	32.31	74	iP	04	03.50	-1.9		1.2s	1024.00nm			6.6mb X		SOTA	159.03	339	ePKP	17	19.00	-1.9
	1.1s	165.00nm			5.3mb				eSKS	20	12.00			1.2s	24.30nm					
TPT	32.45	73	iP	04	04.90	-1.6			eS	20	44.00				i			18	00.20	
	1.1s	125.00nm			5.2mb		TIY	91.18	313	Pc	10	32.70	1.5	LPF	160.01	3	ePKP	17	21.90	0.1
RUV	32.55	74	iP	04	05.60	-1.8			SKS	20	26.50			LOR	160.60	353	ePKP	17	22.80	0.4
	1.1s	135.00nm			5.2mb				SS	27	09.00		Z	21s	0.30um					
BFD	32.90	244	eP	04	11.50	1.3	CHG	91.37	290	eP	10	34.30	1.9	LKO	160.78	162	PKP	17	24.14	0.6
ADE	35.92	248	e(P)	04	34.70	-1.0	CHTO	91.37	290	eP	10	34.00	1.6		1.0s	21.50nm				
	0.8s	50.75nm			4.9mb			1.0s	2.25nm			4.1mb X		SSF	160.85	353	ePKP	17	23.10	0.5
QIS	37.69	272	eP	04	51.00	0.6			eP	12	10.00	415km			1.1s	8.55nm				
RKT	40.48																			

29d 21h

? NOV 29, 1990 21h 25m 58.43±3.52s
40.256 N ±14.7km 20.609 E ±34.6km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

OHR 0.87 10 ePg 26 14.80 -0.3
eSg 26 27.00
LIT 1.45 96 eP 26 23.80 -0.9
AGG 1.81 132 eP 26 30.30 0.4
SKO 1.83 20 ePn 26 33.00 2.9X
VAY 1.83 54 ePn 26 31.00 0.9
S.D. = 1.3 on 4 of 5 obs.

* NOV 29, 1990 21h 26m 19.98±0.56s
41.853 S ±11.2km 88.417 E ±13.6km
DEPTH = 10.0km (geophysicist)
4.9mb (6 obs.)

SOUTHEAST INDIAN RISE (435)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 21:26:31.1 0.7
Lat 41.57S 0.05 Lon 88.82E 0.13
Dep 15.0 Fix Half-duration 2.0
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-0.29 0.07 Mtt=1.25 0.09
Mff=-0.95 0.09 Mrt=0.00 0.00
Mrf=0.00 0.00 Mtf=0.15 0.11
Principal Axes:
T Vol= 1.26 Plg= 0 Azm=176
N -0.29 90 180
P -0.97 0 86
Best Double Couple: Mo=1.1×10¹⁷
NP1: Strike=221 Dip=90 Slip=-180
NP2: 311 90 0

MAW 29.28 200 iP 32 24.80 0.8
Z 15s 4.00um 5.2MsZx

ASPA 41.79 79 iPc 34 10.90 -0.4
0.7s 23.10nm 5.0mb
Z 23s 6.60um 5.4MsZx

WRA 44.41 75 P 34 39.00 6.3X
1.0s 38.10nm 5.2mb

WB5 44.47 75 eP 34 33.00 -0.1
i 34 39.20

BSI 47.54 9 ePc 34 42.60 -14.8X
BRS 53.73 96 iPd 35 45.60 1.1
i 44 28.00

BUL 54.51 274 eP 35 47.00 -3.4X
1.0s 7.50nm 4.7mb

GBA 56.10 347 Pc 36 00.80 -0.8
0.8s 1.70nm 4.1mb

HYB 59.67 349 eP 36 27.00 0.2
POO 61.57 344 eP 36 44.50 4.7X

KMI 67.94 14 Pd 37 35.00 13.8X
2.0s 80.00nm

Z 23s 2.20um 5.3MsZx
sP 37 53.00
eS 46 30.00

PKI 69.13 357 PKP 37 29.20 0.5
DMN 69.18 357 PKP 37 29.16 0.3

KKN 69.35 357 PKP 37 29.90 0.0
GUN 69.45 358 PKP 37 29.26 -1.4

GKN 69.59 356 PKP 37 31.22 0.0
GYA 70.03 17 P 37 41.00 7.0X

LSA 71.24 3 P 37 42.20 0.6
Z 18s 3.80um 5.7MsZx

CD2 73.77 14 eP 37 56.00 0.0
OUE 74.37 341 eP 38 01.70 2.0

XAN 77.84 17 Pc 38 19.40 0.4
BCAO 78.16 287 iPd 38 26.00 4.8X

0.8s 7.00nm 4.8mb
GTA 81.54 9 eP 38 38.80 -0.1

0.8s 10.00nm 4.9mb
Z 23s 1.10um 5.2MsZx

MAIO 82.16 337 eP 38 46.00 3.9X
TIY 82.17 19 eP 38 45.80 3.7X

Z 34s 1.00um 4.9MsZx
BTO 84.37 16 eP 38 53.30 -0.1

WMO 85.29 359 P 39 02.00 4.2X
Z 28s 0.90um 5.0MsZx

INK 145.46 26 ePKP 45 57.50 -1.0
0.9s 39.00nm

UPA 145.58 201 ePKPc 45 58.50 -1.9

YKA 155.23 26 ePKP 46 28.00 14.6X
1.1s 2.00nm
S.D. = 0.9 on 19 of 30 obs.

* NOV 29, 1990 21h 35m 00.63±0.94s
41.978 S ±19.8km 88.263 E ±12.0km
DEPTH = 10.0km (geophysicist)
4.8mb (4 obs.) 5.3MsZ (2 obs.)
SOUTHEAST INDIAN RISE (435)

ASPA 41.93 79 iPd 42 52.10 -1.0
0.9s 18.70nm 4.8mb
Z 23s 3.40um 5.2MsZx

WRA 44.56 75 P 43 36.00 21.5X
1.3s 6.60nm

WB5 44.62 75 eP 43 14.00 -1.0
i 43 19.70

BSI 47.68 9 eP 43 23.00 -16.1X
OLP 47.91 90 eP 43 42.00 1.0

BUL 54.40 274 iPc 44 28.90 -1.4
1.0s 11.00nm 4.8mb

GBA 56.20 347 P 44 42.80 -0.2
CHG 61.28 12 eP 45 17.40 -1.0

POO 61.66 344 eP 45 20.50 -0.5
PKI 69.25 357 P 46 09.12 -0.9

DMN 69.30 357 P 46 09.54 -0.7
KKN 69.47 357 P 46 10.74 -0.5

GUN 69.57 358 P 46 11.70 -0.3
GKN 69.71 357 P 46 12.02 -0.6

LSA 71.37 3 eP 46 23.20 0.2
CD2 73.92 14 eP 46 37.60 0.1

Z 22s 2.70um 5.5MsZx
OUE 74.45 341 eP 46 42.20 1.4

XAN 77.99 17 P 47 00.70 0.2
BCAO 78.09 287 iPd 47 07.00 5.5X

1.0s 5.00nm 4.6mb
LZH 78.99 13 eP 47 07.00 0.9

GTA 81.69 9 P 47 20.60 0.3
1.0s 10.00nm 4.8mb

Z 20s 0.90um 5.1MsZx
MAIO 82.23 337 eP 47 25.00 1.9

TIY 82.32 19 eP 47 23.90 0.3
BTO 84.53 16 eP 47 35.00 0.2

WMO 85.42 360 P 47 40.30 1.2
INK 145.62 26 ePKP 54 40.00 0.5

YKA 155.39 26 ePKP 55 11.00 16.8X
1.1s 1.20nm

S.D. = 0.9 on 23 of 27 obs.

NOV 29, 1990 23h 36m 16.85±0.56s
40.671 N ±4.6km 23.717 E ±5.1km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.4 (THE).

SOH 0.31 299 iPd 36 23.36 0.0
eS 36 28.57

OUR 0.39 149 ePc 36 24.25 -0.6
eS 36 29.36

SRS 0.46 348 iPc 36 25.44 -0.7
iS 36 32.36

THE 0.57 266 eP 36 27.96 -0.5
eS 36 36.48

PAIG 0.74 182 iPc 36 30.60 -0.8
iS 36 40.72

KNT 0.79 309 ePc 36 32.32 0.1
eS 36 44.20

GRG 1.04 286 iPc 36 36.50 0.0
iS 36 51.57

VAY 1.08 307 ePn 36 37.40 0.2
LIT 1.10 239 ePd 36 37.96 0.5

ALN 1.78 82 eP 36 48.76 0.9
eS 37 12.92

AGG 1.96 213 eP 36 51.52 1.0
S.D. = 0.7 on 11 of 11 obs.

% NOV 30, 1990 01h 03m 10.96±1.19s
40.036 N ±8.4km 28.077 E ±8.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.0 (ISK).

KCT 0.30 45 iPg 03 17.40 0.1
BNT 0.34 339 iPg 03 17.90 -0.1

iSg 03 23.20

EDC 0.35 332 ePg 03 18.30 0.1
iSg 03 23.80

DST 0.60 135 iPg 03 23.20 0.0
eSg 03 31.70

IZI 1.11 74 ePn 03 31.90 0.0
YLV 1.12 61 ePn 03 31.90 -0.2

S.D. = 0.2 on 6 of 6 obs.

% NOV 30, 1990 01h 13m 41.98±2.62s
39.423 N ±16.4km 23.709 E ±19.1km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
ML 2.3 (THE).

PAIG 0.50 357 ePc 13 52.22 0.0
eS 14 01.92

OUR 0.93 13 eP 13 59.60 -0.2
AGG 1.14 250 ePc 14 03.40 0.0

LIT 1.16 306 eP 14 03.54 -0.1
eS 14 19.96

SOH 1.42 349 eP 14 08.16 0.2
eS 14 26.20

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

? NOV 30, 1990 02h 45m 46.20±4.59s
38.127 N ±34.8km 27.328 E ±28.5km
DEPTH = 33.0km (normal)

TURKEY (366)
MD 3.4 (ISK).

IZM 0.28 349 iPg 45 53.40 -0.3
iSg 45 59.90

KHL 1.74 83 ePn 46 14.80 0.2
DST 1.79 34 ePn 46 14.70 -0.6

EDC 2.26 10 ePn 46 23.00 1.1
BNT 2.27 11 ePn 46 21.90 -0.3

IZI 2.76 36 ePn 46 34.00 4.8X
S.D. = 0.9 on 5 of 6 obs.

% NOV 30, 1990 03h 25m 34.70±1.78s
61.444 N ±8.9km 4.849 E ±18.8km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.6 (BER).

FOO 0.18 31 ePg 25 38.67 -0.1
eSg 25 41.34

SUE 0.39 186 iP 25 41.86 -0.8
eSg 25 47.87

HYA 0.70 113 iPc 25 47.76 -0.8
eSg 25 57.92

ASK 0.98 170 eP 25 53.01 -0.2
eSg 26 06.51

ODD1 1.77 150 eP 26 05.80 0.2
eSg 26 28.68

BLS1 2.28 154 eP 26 14.79 1.7
eSg 26 44.93

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

% NOV 30, 1990 03h 26m 11.50s
37.523 N 118.958 W
DEPTH = 8.0km

CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.6 (BRK).

FRI 0.80 229 iPc 26 26.00 -1.2
iS 26 36.80

CMB 1.24 295 eP 26 34.20 -0.6
iS 26 50.20

TNP 1.49 67 eP 26 36.80 -1.9
LLA 1.83 241 eP 26 44.00 0.5

PRI 1.94 225 eP 26 46.00 0.8
iS 27 13.50

ARN 2.06 266 eP 26 48.50 1.7
SAO 2.13 250 iP 26 49.50 1.7

MHC 2.14 266 eP 26 49.70 1.5
PRS 2.27 239 eP 26 50.50 0.6

9 obs. associated

? NOV 30, 1990 04h 00m 40.62±9.52s
40.698 N ±138.km 73.321 E ±35.5km
DEPTH = 33.0km (normal)

KIRGHIZ SSR (716)
Felt (V) at Dzholalabad, (IV)

at Uzun and (III) at Mayli-Say
and Osh.

MAIO 11.69 252 eP 03 28.00 -0.2
eS 05 21.00
GKN 15.72 140 P 04 20.22 -1.1
KKN 16.21 139 P 04 27.62 -0.1
DMN 16.28 140 P 04 28.60 0.0
GUN 16.42 137 P 04 31.42 0.9
PKI 16.46 139 P 04 30.82 -0.1
GBA 27.23 171 P 06 24.00 0.5
S.D. = 0.8 on 7 of 7 obs.

% NOV 30, 1990 04h 08m 01.82± 0.78s
44.504 N ± 6.2km 7.268 E ± 8.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

PZZ 0.12 270 P 08 05.09 0.2
S 08 06.94
STV 0.26 171 P 08 07.24 -0.2
S 08 10.83
ENR 0.30 158 P 08 08.07 0.0
S 08 12.17
BHB 0.34 359 P 08 08.68 -0.1
S 08 13.19
ROB 0.48 116 P 08 11.76 0.2
S.D. = 0.2 on 5 of 5 obs.

% NOV 30, 1990 04h 25m 51.91± 1.39s
44.085 N ± 21.1km 11.273 E ± 7.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD 0.39 123 P 25 59.00 -0.9
eSg 26 04.00
MME 0.43 285 P 26 01.20 0.5
eSg 26 08.30
SFI 0.45 111 P 26 00.20 -0.8
eSg 26 07.00
BDI 0.49 268 P 26 01.50 -0.3
eSg 26 10.00
PII 0.65 236 P 26 04.10 -0.8
eSg 26 13.50
CRE 0.67 133 P 26 07.00 1.7
eSg 26 15.50
S.D. = 1.3 on 6 of 6 obs.

& NOV 30, 1990 04h 26m 00.00s
35.928 N 120.530 W
DEPTH = 9.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

PRJ 0.24 333 iP 26 05.10 0.0
eS 26 15.41
PKEM 0.37 69 iPc 26 08.20 0.7
LLA 0.76 334 iPc 26 14.40 -0.6
iS 26 27.10
PRS 0.79 301 iPc 26 14.43 -1.0
iS 26 26.24
BCH 0.83 154 iPd 26 15.20 -0.9
SAO 1.12 319 iP 26 19.50 -1.5
FRI 1.25 32 eP 26 21.00 -2.3
iS 26 35.80
BLP 1.37 176 eP 26 26.00 0.8
GCC 1.61 313 eP 26 28.50 -0.2
ARN 1.63 331 eP 26 27.30 -1.7
MHC 1.67 328 eP 26 28.70 -1.0
CMB 2.11 3 eP 26 34.20 -1.7
eS 27 01.00
BKS 2.38 325 ePd 26 49.50 9.7
TNP 3.41 50 e(P) 27 00.00 5.3
PLM 3.97 129 eP 27 03.00 0.5
15 obs. associated

& NOV 30, 1990 05h 04m 48.20s
32.950 N 117.650 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 2.5 (PAS).

PLM 0.77 58 iPd 05 02.50 -1.3
PEC 1.02 23 eP 05 06.50 -1.5
2 obs. associated

& NOV 30, 1990 06h 04m 23.82s
60.154 N 153.317 W
DEPTH = 133.8km

3.2mb (1 obs.)
SOUTHERN ALASKA
<AGS-P>.

INE 0.16 126 iP 04 41.50 0.6
eS 04 56.27
RS2 0.42 42 iP 04 42.58 -0.8
RSO 0.42 42 iP 04 42.58 -0.8
NCT 0.45 25 iP 04 42.71 -0.7
eS 04 58.15
RDN 0.45 37 iP 04 42.72 -0.8
eS 04 57.61
REF 0.45 42 iP 04 42.77 -0.8
OPT 0.50 175 iP 04 42.83 -0.8
eS 04 57.51
PDB 0.57 231 iP 04 42.91 -1.1
RDT 0.62 47 iP 04 43.45 -0.9
eS 04 58.93
AUH 0.80 185 eP 04 44.81 -0.9
eS 05 00.96
AUP 0.80 184 eP 04 44.86 -0.8
eS 05 01.56
AUE 0.80 182 eP 04 44.51 -1.1
eS 05 00.22
AGU 0.80 184 eP 04 44.91 -0.8
eS 05 00.16
AUI 0.82 184 eP 04 44.88 -0.9
HOM 0.98 120 eP 04 46.16 -1.0
eS 05 03.43
NNL 1.02 95 eP 04 46.98 -0.5
CKL 1.15 24 iP 04 48.32 -0.6
eS 05 07.56
NKA 1.19 59 eP 04 49.58 0.4
BGL 1.20 22 eP 04 48.95 -0.5
SPU 1.20 31 iP 04 48.40 -1.0
eS 05 08.04
CNPM 1.23 120 iP 04 48.27 -1.3
eS 05 07.46
CDD 1.24 188 iP 04 48.43 -1.3
eS 05 08.47
BRLK 1.28 107 eP 04 48.85 -1.4
eS 05 08.13
CGLM 1.32 29 eP 04 49.78 -0.9
NCG 1.38 24 eP 04 50.73 -0.6
SLKM 1.58 76 eP 04 51.59 -1.9
eS 05 13.37
SKT 2.03 25 iP 04 57.57 -1.2
PMS 2.15 58 eP 04 58.16 -2.1
eS 05 25.55
PWA 2.25 47 eP 04 59.48 -2.0
eS 05 28.90
PLRM 2.50 53 eP 05 01.68 -3.0
eS 05 32.48
GHO 2.69 51 eP 05 04.20 -3.0
eS 05 36.89
CUT 2.70 32 eP 05 05.53 -1.6
eS 05 37.34
KNK 2.70 60 eP 05 04.06 -3.2
eS 05 36.82
KNIM 2.79 84 eP 05 04.98 -3.4
eS 05 38.04
GLI 3.16 74 eP 05 09.25 -4.0
SCM 3.37 57 eP 05 13.04 -3.1
VZW 3.46 72 eP 05 13.92 -3.3
VLZ 3.58 71 eP 05 16.21 -2.5
TRF 3.61 22 eP 05 17.41 -2.0
KLU 3.86 66 eP 05 19.06 -3.6
RND 3.89 31 eP 05 20.75 -2.3
TOA 3.98 57 eP 05 21.61 -2.6
TZL 4.27 60 eP 05 25.14 -3.0
SDG 4.44 54 eP 05 27.97 -2.3
PAX 4.70 50 eP 05 31.09 -2.8
GLB 4.83 70 eP 05 32.35 -3.3
NEA 4.86 22 eP 05 33.69 -2.3
WRH 4.97 27 eP 05 34.72 -2.8
CCB 5.19 27 eP 05 37.26 -3.1
HDA 5.20 32 eP 05 37.57 -3.0
DJE 5.29 39 eP 05 37.51 -4.2
MDM 5.36 24 eP 05 40.01 -2.8
FBA 5.40 26 eP 05 40.55 -2.8
BALM 5.48 76 eP 05 42.16 -2.3
GLM 5.57 27 eP 05 42.82 -2.8
YKA 18.53 66 eP 08 29.00 -3.2
0.5s 0.60nm 3.2mb
56 obs. associated

NOV 30, 1990 06h 09m 32.93± 0.65s

43.778 N ± 9.1km 16.500 E ± 11.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.4 (TTG).

HVAR 0.60 184 iPg 09 44.70 -0.4
iSg 09 57.20
BRY 1.73 120 ePn 10 03.60 0.3
eSn 10 25.00
VBY 1.94 333 ePn 10 08.10 1.8
iSn 10 33.60
HCY 1.98 132 ePn 10 06.50 -0.3
eSn 10 32.00
PTJ 2.16 350 ePn 10 07.50 -2.0
iSg 10 36.70
BDV 2.27 130 ePn 10 11.50 0.5
eSn 10 41.00
TTG 2.43 123 ePn 10 13.30 0.0
eSn 10 44.60
VOY 2.92 321 ePn 10 20.80 0.5
eSn 11 00.10
CTI 4.13 305 P 10 37.00 -0.4
S.D. = 1.2 on 9 of 9 obs.

& NOV 30, 1990 08h 39m 11.03s
61.041 N 152.330 W
SOUTHERN ALASKA (2)
<AGS-P>.

CKL 0.16 359 iP 39 28.01 1.0
eS 39 41.96
SPU 0.19 43 iP 39 27.89 0.8
eS 39 42.06
BGL 0.23 353 iP 39 28.16 1.0
CRP 0.24 20 eP 39 28.31 1.0
CGLM 0.31 30 iP 39 28.20 0.7
NCG 0.37 13 iP 39 28.57 -0.8
RDT 0.47 185 iP 39 28.91 -0.9
eS 39 43.20
NCT 0.56 212 iP 39 29.61 -0.8
eS 39 44.30
RDN 0.57 202 eP 39 29.48 -1.1
eS 39 44.19
REF 0.58 198 iP 39 29.98 -0.7
eS 39 45.12
NKA 0.61 119 eP 39 31.76 1.2
RS2 0.62 200 eP 39 30.29 -0.7
eS 39 46.19
RSO 0.62 200 iP 39 30.25 -0.7
eS 39 45.29
SKT 1.02 22 iP 39 33.22 -0.9
INE 1.05 201 iP 39 33.39 -1.2
NNL 1.12 153 iP 39 35.53 0.4
SLKM 1.17 116 eP 39 35.21 -0.4
eS 39 54.00
PWA 1.33 62 eP 39 36.54 -0.7
eS 39 58.46
PMS 1.36 80 eP 39 37.25 -0.4
eS 39 58.06
HOM 1.43 166 eP 39 37.95 -0.4
eS 39 59.26
OPT 1.46 198 eP 39 38.05 -0.8
BRLK 1.47 150 eP 39 38.08 -0.8
eS 39 59.30
PDB 1.56 217 iP 39 38.47 -1.5
CNPM 1.62 160 eP 39 39.62 -1.0
eS 40 01.79
PLRM 1.64 69 eP 39 39.26 -1.6
CUT 1.68 35 eP 39 40.65 -0.7
AUE 1.77 198 eP 39 41.33 -1.0
AUP 1.77 198 eP 39 41.40 -1.1
GHO 1.80 64 iP 39 41.61 -1.2
KNK 1.91 77 iP 39 42.95 -1.2
CDD 2.22 198 eP 39 46.01 -2.0
KNIM 2.36 105 eP 39 47.30 -2.6
SCM 2.53 70 eP 39 50.59 -1.5
GLI 2.56 91 eP 39 50.10 -2.3
TRF 2.60 21 eP 39 51.19 -1.9
VZW 2.81 87 eP 39 53.96 -1.7
VLZ 2.92 86 eP 39 55.41 -1.6
KLU 3.13 79 iP 39 58.30 -1.6
TOA 3.13 67 eP 39 59.40 -0.6

39 obs. associated
* NOV 30, 1990 10h 10m 51.40± 0.52s
15.077 N ± 10.1km 146.816 E ± 11.2km

30d 10h

DEPTH = 33.0km (normol)				TIR				LIT			
4.4mb (3 obs.)				SFI				5.75 129 ePd			
MARIANA ISLANDS (216)				PHP				eS			
GUA	2.40	231 eP	11 29.00 -0.2	RMP				5.75 259 Pn			
		eS	12 00.00	PGD				16 23.40			
PJG	2.40	232 eP	11 29.00 -0.2	RDP				16 21.00			
WB5	36.83	200 eP	17 58.00 -0.5	LCI				5.82 116 ePc			
ASPA	40.52	198 eP	18 30.40 1.1	VVI				16 23.96			
	1.0s	7.10nm	4.4mb	TIM				eS			
GUN	57.61	294 P	20 41.80 0.5	ORI				17 29.44			
PKI	58.03	293 P	20 44.24 0.0	MGR				SPC 5.86 24 i (Pn)			
KKN	58.14	294 P	20 44.90 0.0	FVI				e 16 34.50			
DMN	58.30	293 P	20 47.32 1.3	FVI				16 50.90			
GKN	58.71	294 P	20 48.92 0.2	BZS				5.87 279 P			
GBA	66.97	279 P	21 43.00 -0.5	KBA				16 24.09			
INK	72.28	23 eP	22 16.00 0.9					5.88 335 ePn			
MBC	76.38	14 eP	22 37.00 -1.7	BUD				16 23.90			
	0.5s	9.00nm	5.0mb	SKO				16 24.50			
YKA	80.68	28 eP	23 02.30 0.0					5.95 292 P			
	0.7s	1.10nm	4.0mb					16 25.40			
SES	86.07	39 eP	23 31.00 0.8					5.96 295 ePc			
KIC	144.67	305 PKP	30 26.00 -1.4					6.06 278 P			
LIC	144.98	305 PKP	30 27.00 -0.9					6.10 49 ePd			
	0.6s	7.50nm						16 27.00			
LPB	146.40	97 ePKP	30 27.00 -3.7X					6.14 122 eP			
SIV	153.12	96 ePKP	30 41.00 0.6					16 28.00			
S.D. = 0.9 on 17 of 18 obs.								6.14 74 ePd			
								16 28.00			
								6.15 306 ePc			
								16 29.70			
								6.17 302 ePd			
								16 30.30			
								6.21 200 P			
								16 28.00			
								6.28 140 eP			
								16 29.20			
								6.29 347 ePn			
								16 30.00			
								16 44.50			
								eSn			
								17 48.50			

Sn 18 55.00
BNS 9.57 321 iPc 17 15.70 -0.2
LOR 9.60 295 Pn 17 14.10 -2.4
Sn 18 57.80
SSF 9.78 294 Pn 17 16.50 -2.4
Sn 19 00.40
YLV 9.99 105 ePg 17 29.30 7.4X
eSg 17 43.30
ENN 10.03 317 ePn 17 21.50 -0.8
0.7s 19.00nm 5.7mb X
BGF 10.11 290 Pn 17 21.80 -1.7
Sn 19 00.40
IZI 10.15 106 ePg 17 23.00 -1.2
eSg 17 34.80
MAF 10.25 288 Pn 17 23.00 -2.4
HFS 16.38 355 eP 18 46.20 -0.4
0.5s 1.90nm 3.5mb
EKA 17.15 319 P 19 00.00 3.7X
1.1s 10.90nm 3.9mb
NUR 17.34 13 eP 18 53.00 -5.7X
NB2 17.50 351 P 18 59.80 -0.9
0.6s 1.60nm 3.3mb
LKO 39.29 216 P 22 26.20 0.2
INK 65.93 348 eP 25 40.00 -3.0X
YKA 67.03 338 eP 25 47.50 -2.6X
0.5s 2.70nm 4.7mb
FFC 68.81 327 eP 26 00.00 -1.3
0.5s 9.00nm 5.2mb
S.D. = 1.3 on 137 of 170 obs.

NOV 30, 1990 11h 05m 52.79±0.68s
35.298 N ± 9.9km 26.648 E ± 6.0km
DEPTH = 33.0km (normal)

CRETE (370)

MD 3.9 (ATH).

NPS 0.85 268 iPbd 06 09.40 1.1
APE 1.98 333 ePn 06 23.00 -1.7
VAM 2.00 274 ePg 06 30.00 5.0X
eSn 06 52.00
KSL 2.53 70 ePn 06 33.50 1.1
ELL 3.01 60 ePn 06 40.00 0.6
VLI 3.33 296 ePn 06 44.00 0.3
BCK 3.84 55 ePn 06 51.00 -0.1
DST 4.58 20 ePn 06 54.00 -7.6X
CSS 5.49 92 eP 07 15.00 0.6
JVI 8.00 112 eP 07 49.00 -0.6
RMN 8.24 123 eP 07 52.50 -0.5
PRNI 8.59 123 eP 07 57.00 -0.8
S.D. = 1.0 on 10 of 12 obs.

NOV 30, 1990 11h 30m 48.37±0.48s
47.766 N ± 4.6km 113.157 W ± 4.2km
DEPTH = 5.0km (geophysicist)

3.2mb (1 obs.)

MONTANA (456)

ML 3.5 (NEIS), 4.0 (BUT).

MSO 1.08 210 iPd 31 09.50 0.3
NCM 1.12 239 iPd 31 11.10 1.2
HRY 1.39 139 iPnd 31 14.10 -0.4
BUT 1.80 167 ePnd 31 20.70 0.2
ePg 31 22.20
iSn 31 43.50
iSg 31 46.30
LRM 2.00 166 iPnd 31 24.00 0.5
HBMT 2.01 169 iPnd 31 23.40 -0.2
SXM 2.10 140 P 31 24.90 0.1
LCCM 2.12 155 ePn 31 25.20 0.1
EBI 2.22 246 iPnd 31 26.50 0.0
MEMT 2.63 144 ePn 31 32.00 -0.5
BGMT 2.65 163 ePn 31 32.20 -0.5
NEW 2.71 282 eP 31 33.30 -0.1
MCMT 2.95 176 ePn 31 36.40 -0.6
SES 2.98 27 P 31 38.00 0.8
LTMT 3.32 167 ePn 31 42.10 -0.2
DPW 3.40 274 eP 31 42.50 -0.7
PNT 4.56 292 P 31 59.00 -0.7
PTI 4.93 173 eP 32 05.70 0.7
FFC 9.87 41 eP 33 10.00 -3.9X
YKA 14.78 357 eP 34 16.30 -3.4X
0.3s 0.20nm 3.2mb
S.D. = 0.6 on 18 of 20 obs.

NOV 30, 1990 11h 39m 09.76±0.87s
27.720 N ± 14.3km 64.000 E ± 11.0km
DEPTH = 33.0km (normal)

4.5mb (7 obs.)
PAKISTAN (354)

MAIO 9.37 337 iPc 41 27.30 1.7
1.0s 9.50nm 5.0mb
eS 43 32.00
NDI 11.70 82 eP 41 56.00 -1.4
HYB 16.89 124 eP 43 07.50 2.2
1.0s 20.00nm 4.2mb
GKN 18.25 84 P 43 22.28 -0.1
DMN 18.70 85 P 43 29.54 1.6
GBA 18.82 136 P 43 30.00 0.7
KKN 18.84 85 P 43 30.50 0.9
PKI 18.97 85 P 43 30.92 -0.4
GUN 19.36 84 P 43 35.02 -0.9
CHTO 33.21 98 iP 45 44.80 -1.1
0.9s 4.26nm 4.4mb
NUR 42.16 332 iP 47 00.50 0.1
KAF 42.42 335 iP 47 03.00 0.4
0.7s 6.50nm 4.5mb
esP 47 04.00
HFS 46.85 328 eP 47 37.50 -0.6
0.4s 3.80nm 4.7mb
NB2 48.31 329 P 47 49.00 -0.6
0.5s 3.10nm 4.6mb
WB5 82.88 117 eP 51 32.00 -0.7
WRA 82.90 117 P 51 31.00 -1.8
0.9s 3.60nm 4.5mb
YKA 90.10 359 eP 52 18.50 11.1X
0.8s 2.70nm
S.D. = 1.3 on 16 of 17 obs.

& NOV 30, 1990 12h 08m 26.35s
60.321 N 153.072 W

DEPTH = 136.8km

SOUTHERN ALASKA (2)

<AGS-P>.

RS2 0.21 48 eP 08 44.72 0.8
eS 09 00.21
RSO 0.21 48 iP 08 44.73 0.8
RDN 0.25 38 iP 08 44.70 0.8
REF 0.25 47 eP 08 44.64 0.6
NCT 0.25 16 eP 08 44.50 0.6
INE 0.26 179 iP 08 44.68 0.7
eS 08 59.54
RDT 0.42 52 iP 08 45.23 -0.9
eS 09 00.71
OPT 0.68 187 iP 08 46.89 -0.7
eS 09 03.23
PDB 0.78 227 eP 08 46.91 -1.3
NNL 0.93 107 iP 08 49.45 -0.1
CKL 0.95 22 iP 08 49.13 -0.7
eS 09 07.48
AUP 0.98 191 eP 08 49.12 -0.9
HOM 0.98 132 iP 08 49.58 -0.4
eS 09 07.99
SPU 1.00 30 iP 08 49.24 -1.0
NKA 1.00 64 eP 08 50.64 0.5
BGL 1.00 19 iP 08 49.77 -0.5
AUI 1.01 190 eP 08 49.72 -0.5
CGLM 1.12 27 iP 08 50.46 -0.9
NCG 1.18 22 iP 08 51.21 -0.8
CNPM 1.22 130 eP 08 51.43 -0.9
eS 09 10.94
BRLK 1.23 116 eP 08 51.45 -1.0
eS 09 11.23
SLKM 1.43 81 eP 08 52.89 -1.6
eS 09 14.40
SVW 1.48 303 iP 08 53.00 -2.1
eS 09 14.10
SKT 1.83 24 eP 08 57.74 -1.3
eS 09 22.25
PMS 1.96 60 eP 08 58.98 -1.6
eS 09 24.43
PWA 2.05 48 eP 08 59.75 -1.9
eS 09 28.13
PLRM 2.31 55 eP 09 03.84 -1.0
eS 09 30.99
GHO 2.49 52 eP 09 04.60 -2.7
eS 09 35.70
CUT 2.49 32 eP 09 05.92 -1.2
eS 09 36.42
KNK 2.51 62 eP 09 06.00 -1.5
eS 09 36.29
KNIM 2.65 87 eP 09 06.03 -3.3
eS 09 38.15

TRF 3.41 22 eP 09 17.31 -2.0
VLZ 3.41 73 eP 09 17.71 -1.4
RND 3.68 31 eP 09 20.61 -2.3
KLU 3.69 68 eP 09 19.97 -2.9
TOA 3.79 59 eP 09 22.16 -2.1
SDG 4.24 55 eP 09 28.19 -2.1
PAX 4.50 50 eP 09 31.37 -2.4
NEA 4.66 22 eP 09 33.10 -2.7
GLB 4.66 72 eP 09 34.21 -1.8
WRH 4.77 27 eP 09 34.29 -3.0
CCB 4.98 27 eP 09 37.15 -3.0
HDA 4.99 32 eP 09 37.35 -3.0
DJE 5.08 40 eP 09 37.43 -4.1
MDM 5.16 24 eP 09 39.58 -3.1
BALM 5.32 78 eP 09 42.96 -1.9
GLM 5.36 27 eP 09 42.22 -3.2
47 obs. associated

% NOV 30, 1990 13h 11m 03.89±0.75s
40.531 N ± 7.9km 23.658 E ± 11.7km
DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 1.8 (THE).

OUR 0.32 128 ePc 11 10.62 0.2
eS 11 15.06
SOH 0.37 322 iPc 11 11.85 0.3
eS 11 16.74
SRS 0.59 355 ePd 11 15.54 -0.3
eS 11 24.98
PAIG 0.60 178 iP 11 15.90 -0.2
eS 11 24.94
KNT 0.85 318 eP 11 20.30 -0.1
S.D. = 0.3 on 5 of 5 obs.

NOV 30, 1990 13h 19m 27.64±0.14s
1.030 N ± 3.3km 123.970 E ± 4.6km
DEPTH = 28.3km (6 depth phases)

5.6mb (33 obs.) 5.2Ms± (17 obs.)

MINAHASSA PENINSULA (265)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 28C

Centroid Location:

Origin Time 13:19:30.1 0.5

Lat 1.14N 0.04 Lon 123.85E 0.04

Dep 28.4 2.1 Half-duration 3.0

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-5.73 0.15 Mtt=-0.80 0.16

Mff=-4.93 0.22 Mrt=-1.82 0.40

Mrf=-0.68 0.37 Mtf=1.95 0.15

Principal Axes:

T Val= 6.32 P1g=73 Azm=159

N -0.61 17 338

P -5.71 0 68

Best Double Couple:Mo=6.0±10¹⁷

NP1:Strike=175 Dip=47 Slip= 113

NP2: 322 48 67

DAV 6.23 15 eP 21 00.20 0.1
i 22 46.00
AAI 6.31 138 ePc 21 03.50 2.3
eS 22 12.50
BKB2 7.43 252 ePd 21 28.00 11.0X
MKS 7.66 216 iPc 21 25.00 4.8X
KUPT 11.11 182 ePc 22 04.50 -3.3X
1.0s 610.20nm 6.8mb X
OCP 13.82 348 eP 22 28.00 -16.0X
TRT 14.25 232 ePc 22 54.40 4.7X
BAG 15.64 348 eP 23 04.00 -4.1X
KNA 17.33 164 eP 23 30.20 0.9
0.6s 193.00nm 5.4mb
MNDI 20.91 110 eP 24 15.00 4.2X
KLM 22.40 276 eP 24 29.50 4.0X
MBL 22.42 190 iPc 24 25.70 0.1
0.6s 101.00nm 5.5mb
YYYY 23.12 108 eP 24 36.00 3.3X
WB5 23.15 154 iPc 24 32.00 -0.8
eS 28 41.20
HKC 23.20 336 iPc 24 36.00 2.8X
iS 28 49.00
SNG 24.07 285 iPc 24 44.30 2.6
1.4s 511.63nm 5.9mb
eS 29 06.40
ANP 24.13 355 eP 24 22.00 -20.4X
LAT 24.22 109 eP 24 48.00 4.8X
GZH 24.23 336 iP 24 45.10 1.9

30d 13h

Z 16s	10.70um	5.4MszX	SHL	39.40	311 iP	26 57.50	0.4	N 17s	4.70um	36 20.00	-0.7	
N 17s	8.90um				iS	33 00.20		E 12s	1.60um	37 26.00	1.0	
E 14s	3.20um		BJI	39.47	351 eP	26 55.00	-2.3	WUZ	61.28	135 eP	29 43.90	
	sP	24 58.00		5.0s	650.00nm		5.6mb X	QUE	61.30	304 eP	29 42.80	
OZH	24.33	348 Pc		Z 20s	2.99um		5.1Msz	THZ	61.34	140 P	29 43.70	
	6.0s	4900.00nm		N 14s	1.28um			LTZ	61.47	141 P	29 44.20	
Z 18s	5.30um	5.1Msz	LZH	39.57	334 Pc	26 59.00	0.7	TCW	61.96	139 P	29 46.60	
	pP	24 54.00		Z 18s	6.05um		5.5Msz	KHZ	62.09	140 P	29 47.50	
PMG	25.31	115 eP		N 14s	4.14um			MRW	62.25	139 P	29 48.30	
OIS	26.36	145 iPc		E 17s	4.87um			SNZO	62.29	139 P	29 49.00	
ASPA	26.38	159 iPc			pP	27 08.00	30km	CAW	62.43	138 P	29 49.60	
	0.6s	116.50nm			sP	27 13.00		WDW	62.46	139 P	29 49.40	
Z 21s	5.20um	5.1Msz			PcP	29 03.00		MNG	62.48	138 P	29 49.80	
	iS	29 49.10			PcS	32 55.00		MTW	62.75	138 P	29 51.20	
NNT	26.63	297 iPc		YAMJ	39.80	20 P	27 00.10	0.0	BLW	62.83	139 P	29 52.00
WARB	27.18	175 eP		SNY	40.61	360 iPc	27 05.00	-1.6	PGZ	63.01	137 eP	29 53.70
LOE	27.26	308 eP			5.0s	1100.00nm	5.8mb X	PUZ	63.28	134 eP	29 55.80	
NST	27.65	303 iPc			Z 18s	4.00um	5.3Msz	NOZ	63.35	135 P	29 56.20	
MEKA	27.98	190 eP			N 16s	3.00um		PAF	68.10	215 eP	30 40.00	
BDT	29.37	305 eP			E 15s	1.90um			eS	39 44.00		
	1.0s	138.00nm		OFUJ	41.18	21 P	27 12.40	1.0		eSS	44 08.00	
SSE	30.02	355 e(P)		HHC	41.20	346 Pc	27 12.80	1.1		eSSS	47 44.00	
CHG	30.24	307 iPc			Z 20s	4.40um	5.3Msz	DRV	68.50	173 eP	30 29.00	
	1.0s	93.75nm			N 12s	0.80um		MAIO	68.99	309 iPc	30 32.20	
GYA	30.27	328 iPc			E 12s	0.80um			1.1s	14.72nm	5.0mb	
	N 16s	2.70um		BTO	41.37	344 eP	27 12.00	-1.1		eS	39 38.00	
E 16s	4.50um				N 16s	4.00um		SHI	73.40	301 eP	30 59.00	
WHN	30.74	344 P			E 12s	1.80um		CRZF	78.49	222 iPd	31 35.00	
	5.0s	900.00nm				pP	27 18.00	20km		eS	41 30.00	
Z 18s	4.90um	5.8mb X				PP	28 49.00		TAB	79.64	308 eP	31 34.00
N 14s	3.90um	5.2Msz				eS	33 23.00		MAW	80.29	200 iPc	31 37.50
E 18s	5.20um				BFD	41.73	158 eP	27 16.00	ANM	80.85	24 eP	31 41.20
	S	30 48.00			BWA	42.07	149 iPc	27 21.40	SBA	82.07	172 iPc	31 47.70
NJ2	31.23	352 Pd			AOMJ	42.07	19 eP	27 19.80		e(S)	42 10.00	
	1.4s	100.00nm			LSA	42.28	315 iPc	27 22.40	SVW	84.46	29 ePc	31 59.90
Z 20s	1.90um	4.8Msz				Z 20s	3.50um	5.2Msz	TTA	84.54	27 ePc	31 59.90
	pP	25 55.00					S	33 41.00		1.8s	107.70nm	5.8mb
KMI	31.53	321 Pc						BRW	85.59	19 ePc	32 05.00	
	1.5s	160.00nm			CN2	42.61	2 Pc	27 22.00	IMA	85.95	24 ePc	32 06.40
Z 16s	7.40um	5.5MszX				Z 18s	4.00um	5.4Msz		0.7s	9.20nm	5.1mb
N 13s	2.90um					N 17s	3.70um		NAI	87.19	269 iPd	32 16.00
	pP	25 59.50				E 17s	1.80um			1.0s	35.00nm	5.6mb
	S	31 00.00					ScS	37 18.00	GLH	88.03	303 eP	32 17.00
FORR	31.95	173 eP			CAN	43.06	150 iPc	27 28.40	BHL	88.03	304 P	32 14.00
BAL	32.21	192 iPc					e	29 13.50		S	42 44.00	
KLB	32.97	190 iPc			CNB	43.25	149 eP	27 30.00	FBA	88.32	25 eP	32 18.00
MUN	33.64	192 eP					e	29 13.00		0.5s	4.65nm	5.1mb
QLP	33.70	146 ePd			TOO	43.26	155 iPc	27 30.20	ATZ	88.35	303 eP	32 19.00
NWAO	34.37	190 eP			MDJ	43.69	6 eP	27 31.50	PMO	88.46	105 iP	32 25.00
	Z 20s	2.20um				Z 20s	2.30um	5.1Msz	VAH	88.72	105 iP	32 26.10
N 20s	4.30um	4.9Msz					eS	33 58.00		1.2s	90.00nm	6.0mb
E 20s	6.10um				GTA	44.11	333 iPc	27 36.00	TPT	88.73	105 iP	32 26.40
CD2	35.36	329 iPc				5.0s	1630.00nm	6.1mb X		1.2s	100.00nm	6.0mb
	1.2s	270.00nm				Z 16s	5.50um	5.6MszX	RMN	88.92	300 eP	32 21.00
Z 18s	6.18um	5.4Msz				E 13s	3.20um		RUV	88.96	105 iP	32 27.30
E 12s	2.65um						pP	27 49.00		1.2s	80.00nm	5.9mb
	S	31 58.00					PcP	29 18.60	BBTK	90.28	310 eP	32 28.00
RKG	35.52	190 eP					S	34 06.00	SOD	91.89	337 iP	32 32.70
TIA	35.58	350 Pd					sS	34 24.00	KAF	92.69	332 eP	32 36.20
	S	32 00.00					ScS	37 28.00		0.7s	18.70nm	5.6mb
XAN	35.73	338 iPc			GUN	45.19	310 P	27 45.04		eS	32 37.20	
	8.0s	1400.00nm			PKI	45.39	309 P	27 46.42	INK	93.67	21 eP	32 41.50
N 18s	8.20um	5.9mb X			KKN	45.60	309 P	27 47.96	NUR	93.70	331 eP	32 46.00
E 12s	2.60um				DMN	45.65	309 P	27 48.58	MLR	94.91	316 eP	32 41.00
	pP	26 35.00				1.1s	436.00nm	6.3mb		e	36 09.00	
	S	31 58.00			KUSJ	45.81	21 eP	27 48.40	MBC	95.17	12 eP	32 49.00
RMO	36.33	141 iPd			ASAJ	46.00	19 eP	27 49.90		1.0s	6.00nm	5.0mb
SVO	37.11	107 P			GKN	46.20	309 P	27 52.62	BUL	95.38	250 iPd	32 50.00
HNR	37.30	107 ePd			KOD	47.11	283 eP	28 00.80		1.0s	39.50nm	5.8mb
MAT	37.72	19 eP					eS	34 52.00	LSZ	95.85	255 iPd	32 53.10
	1.1s	56.96nm			DZM	47.36	122 iPc	28 02.40		1.0s	21.60nm	5.5mb
	eS	32 32.00			PVC	47.46	115 iP	28 03.50	HFS	99.09	332 eP	33 04.40
DL2	37.76	357 eP			HYB	47.52	293 iPc	28 02.50		0.5s	1.60nm	4.8mb
	Z 18s	2.20um				1.2s	157.10nm	5.9mb		Z 18s	2.03um	5.7Msz
TIY	38.02	345 Pc			GBA	47.71	287 P	28 03.70	DAG	99.55	352 iPc	33 07.40
	Z 17s	4.40um			POO	52.13	293 iPd	28 36.60		0.7s	7.53nm	5.3mb
N 14s	3.50um	5.3MszX					eS	36 00.00	NB2	99.94	333 P	33 08.60
	eS	32 30.00			NDI	52.38	306 iPc	28 38.50		1.0s	6.00nm	5.1mb
ADE	38.38	160 eP			WMO	53.43	328 iPc	28 47.00	KSP	100.29	322 ePd	33 11.00
	0.8s	246.27nm				5.0s	1100.00nm	6.1mb X	BRG	101.72	323 iPd	33 19.40
CMS	38.42	149 ePc				Z 20s	2.60um	5.3Msz				

1.0s 20.00nm 5.7mb
 i 33 29.80
 e 37 38.50
 CLL 102.16 323 e(Pd) 33 25.00 3.8X
 e 37 03.00
 YKA 103.08 24 ePd 33 24.50 -0.5X
 0.9s 1.50nm 4.7mb
 SES 110.68 34 ePKP 38 00.00 0.5
 TNP 111.67 48 PKP 38 02.90 0.9
 FFC 112.88 27 ePKP 38 03.00 -0.4
 0.5s 5.00nm
 DUG 114.08 45 PKP 38 07.30 0.8
 BW06 115.18 41 PKP 38 07.20 -1.5
 MSU 115.21 46 PKP 38 10.20 1.4
 GOL 119.42 42 PKP 38 16.60 -0.3
 ANMO 120.87 48 PKP 38 20.00 0.4
 ALO 120.87 48 ePKP 38 19.70 0.0
 SCH 123.64 7 ePKP 38 24.00 -0.1
 TIO 123.86 309 iPKP 38 26.50 1.0
 KIC 128.28 279 PKP 38 33.06 -1.2
 TIC 128.53 279 PKP 38 33.96 -0.8
 LIC 128.58 279 PKP 38 34.08 -0.7
 Z 20s 0.40um 5.1MsZ
 LKO 128.69 283 PKP 38 34.62 -0.4
 1.0s 27.00nm
 FVM 129.87 36 PKP 38 35.80 -0.8
 OLY 130.87 39 PKP 38 37.50 -1.1
 ELC 131.04 35 PKP 38 39.20 0.4
 PWLA 133.30 37 PKP 38 43.30 0.1
 LNV 144.22 158 ePKP 39 02.10 -1.0
 TACH 144.66 158 iPKPd 39 03.50 -0.4
 PCH 144.85 159 ePKP 39 03.50 -0.8
 SAN 144.94 158 ePKP 39 04.00 -0.4
 FCH 145.19 159 ePKP 39 05.50 0.2
 PEL 145.21 158 iPKP 39 05.50 0.6
 1.0s 75.00nm
 ROCH 145.24 158 ePKP 39 05.90 0.7
 JACH 145.66 158 iPKPd 39 07.00 1.2
 MDZ 146.10 160 i(PKP) 39 08.00 1.5
 VAO 156.45 201 ePKP 39 25.40 3.4X
 NNA 156.66 119 ePKP 39 23.50 1.1
 1.0s 15.00nm
 PDCR 159.71 235 ePKP 39 26.80 1.0
 LPB 160.54 143 PKP 39 29.00 1.8
 CCH 160.95 149 PKP 39 29.00 1.6
 SOB1 162.89 241 ePKP 39 29.70 0.6
 BAO 163.46 208 e(PKP) 39 13.00 -16.7X
 SIV 164.32 162 PKP 39 31.00 0.6
 i 40 26.00

S.D. = 1.0 on 148 of 178 obs.

% NOV 30, 1990 13h 51m 43.94 ± 1.06s
 39.127 N ± 8.8km 27.662 E ± 10.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

IZM 0.79 203 ePg 51 59.10 -0.3
 eSg 52 11.10
 DST 0.89 57 ePg 52 02.20 1.2
 EDC 1.23 7 iPn 52 07.30 0.5
 KCT 1.24 25 ePg 52 05.00 -2.0
 BNT 1.24 9 iPn 52 07.20 0.2
 EZN 1.25 304 ePn 52 07.50 0.4

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

% NOV 30, 1990 14h 03m 43.14 ± 2.49s
 44.817 N ± 4.9km 6.693 E ± 18.3km
 DEPTH = 11.7 ± 8.8 km
 FRANCE (538)
 ML 2.0 (GEN).

RRL 0.12 32 P 03 46.83 0.2
 S 03 48.57
 BHB 0.41 86 P 03 51.47 -0.1
 S 03 56.18
 PZZ 0.43 137 P 03 51.95 0.0
 S 03 57.39
 RSP 0.52 50 P 03 54.00 0.2
 S 04 00.77
 LSD 0.72 27 P 03 57.22 -0.1
 S 04 06.42
 STV 0.73 141 P 03 57.80 0.4
 S 04 07.54
 ENR 0.79 138 P 03 58.67 0.3
 S 04 08.90
 ROB 0.99 121 P 04 01.90 0.1

S 04 14.08
 FIN 1.24 119 P 04 06.62 0.5
 PCP 1.35 101 P 04 07.74 -0.1
 S.D. = 0.3 on 10 of 10 obs.

& NOV 30, 1990 14h 10m 39.05s
 62.936 N 144.012 W
 DEPTH = 12.8km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.3 (PMR).

TMW 0.60 49 iP 10 50.62 -0.4
 PAX 0.67 274 iP 10 51.77 -0.4
 DOT 0.72 358 iP 10 53.21 0.3
 SDG 0.82 240 iP 10 54.36 -0.3
 THY 0.93 302 eP 10 56.70 0.2
 eS 11 10.74
 TZL 1.11 217 iP 10 59.70 0.1
 TOA 1.30 231 iPc 11 03.00 0.0
 DJE 1.33 326 eP 11 01.98 -1.3
 GLB 1.50 176 eP 11 04.86 -0.9
 KLU 1.70 213 iP 11 08.65 0.0
 eS 11 10.63
 SCM 1.90 236 eP 11 12.09 0.6
 eS 11 36.72
 HDA 1.97 320 eP 11 12.51 0.0
 eS 11 38.32
 BALM 2.06 157 eP 11 13.63 -0.3
 eS 11 41.07
 VLZ 2.12 212 eP 11 14.26 -0.3
 eS 11 42.27
 VZW 2.23 214 eP 11 16.22 -0.1
 eS 11 45.64
 RND 2.25 284 eP 11 18.60 2.1
 eS 11 48.19
 DWY 2.34 59 P 11 17.20 -0.6
 MCK 2.36 292 eP 11 19.99 1.9
 WRH 2.38 312 eP 11 19.79 1.4
 CCB 2.41 317 eP 11 18.32 -0.4
 eS 11 49.66
 GLI 2.53 217 eP 11 21.15 0.7
 GLM 2.54 326 eP 11 19.84 -0.9
 GHO 2.57 245 eP 11 22.88 1.7
 eS 11 56.25
 FBA 2.58 321 ePc 11 20.20 -1.1
 KNK 2.58 236 eP 11 22.37 1.1
 eS 11 54.25
 BWN 2.74 299 eP 11 25.61 2.1
 PLRM 2.75 243 eP 11 24.52 0.9
 PMR 2.75 243 eP 11 25.00 1.4
 MDM 2.75 319 eP 11 22.56 -1.2
 NEA 2.79 308 eP 11 23.75 -0.4
 TRF 2.89 283 eP 11 28.14 2.4
 CUT 2.94 262 eP 11 28.15 2.0
 PWA 3.03 247 eP 11 30.47 3.0
 PMS 3.11 239 eP 11 29.93 1.2
 KNIM 3.15 216 eP 11 30.19 1.0
 SKT 3.62 258 eP 11 38.18 2.2
 HYT 3.74 122 P 11 36.00 -1.8
 SLKM 3.83 233 eP 11 41.98 3.0
 CGLM 4.09 250 eP 11 44.08 1.3
 NCG 4.12 252 eP 11 44.69 1.6
 BGL 4.28 251 eP 11 44.67 -0.8
 IMA 5.23 311 eP 11 58.10 -0.7
 TTA 5.48 275 eP 12 02.90 0.5

43 obs. associated

NOV 30, 1990 14h 17m 06.16 ± 0.77s
 1.021 N ± 2.8km 124.003 E ± 3.8km
 DEPTH = 55.3 ± 6.9 km
 5.5mb (37 obs.) 4.6MsZ (5 obs.)
 MINAHASSA PENINSULA (265)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 21C
 Centroid Location:
 Origin Time 14:17: 8.4 1.4
 Lat 1.43N 0.11 Lon 123.83E 0.10
 Dep 33.0 FLX Half-duration 1.7
 Moment Tensor: Scale 10**16 Nm
 Mrr= 9.72 0.77 Mtt=-0.32 0.81
 Mff=-9.39 1.27 Mrt= 2.39 1.38
 Mrf=-1.35 1.77 Mtf= 3.55 0.79
 Principal Axes:
 T Vol= 10.27 Plg=78 Azm= 8
 N 0.55 11 159
 P -10.82 6 250

Best Double Couple: Mo=1.1*10**17
 NP1: Strike=352 Dip=40 Slip= 107
 NP2: 150 52 76

DAV 6.23 15 eP 18 36.80 -0.9
 AAI 6.28 138 eP 18 38.30 -0.1
 eS 19 45.60
 BKB2 7.46 252 ePd 18 59.40 4.5X
 MKS 7.68 216 iPd 18 59.00 1.1
 eS 20 24.00
 KUPT 11.11 182 eP 19 41.00 -3.9X
 0.7s 207.30nm 6.3mb X
 TRT 14.27 232 ePd 20 30.20 3.3X
 0.8s 60.40nm 5.2mb
 BAG 15.66 348 eP 20 40.80 -4.3X
 KNA 17.32 164 eP 21 05.00 -0.7
 0.7s 121.00nm 5.2mb
 MBL 22.42 190 iPc 22 01.40 -0.1
 0.6s 53.00nm 5.1mb
 KLM 22.44 276 eP 22 05.30 3.6X
 QIZ 22.65 323 P 22 03.70 -0.1
 N 13s 1.20um
 E 17s 2.50um
 WB5 23.13 154 iPc 22 07.80 -0.6
 eS 26 16.30
 PPI 23.65 267 eP 22 14.00 0.5
 0.8s 302.50nm 5.8mb
 SNG 24.10 285 iPc 22 19.10 1.2
 1.0s 172.00nm 5.5mb
 eS 26 41.30
 GZH 24.25 336 iP 22 20.40 1.1
 Z 16s 1.30um 4.5MsZ X
 S 26 37.00
 eS 26 40.00
 QZH 24.35 348 P 22 22.00 1.8
 4.0s 2600.00nm 6.1mb X
 PMG 25.28 115 eP 22 29.00 -0.1
 QIS 26.33 145 iPc 22 38.60 -0.3
 0.6s 85.00nm 5.5mb
 ASPA 26.36 159 iPc 22 38.90 -0.2
 0.8s 58.60nm 5.2mb
 Z 20s 1.30um 4.5MsZ
 eS 27 10.40
 NNT 26.66 297 iPc 22 41.70 -0.2
 WARB 27.17 175 eP 22 46.30 -0.1
 LOE 27.29 308 eP 22 47.50 -0.2
 NST 27.69 303 iPc 22 52.50 1.3
 MEKA 27.98 190 eP 22 52.60 -1.2
 BDT 29.41 305 ePc 23 07.50 0.8
 1.0s 110.40nm 5.5mb
 CHG 30.28 307 iPc 23 14.80 0.3
 1.0s 87.00nm 5.4mb
 GYA 30.30 328 iPc 23 15.00 0.3
 PcP 26 13.40
 WHN 30.76 344 iPc 23 19.50 1.0
 1.0s 100.00nm 5.5mb
 NJ2 31.24 352 Pd 23 23.50 0.7
 1.2s 100.00nm 5.4mb
 KMI 31.56 321 Pc 23 27.00 1.1
 1.5s 170.00nm 5.6mb
 Z 16s 1.40um 4.7MsZ X
 pP 23 35.00 28kmX
 eS 28 36.00
 BAL 32.21 192 iPc 23 29.80 -1.5
 KLB 32.97 190 iPc 23 36.50 -1.4
 MUN 33.64 192 eP 23 42.00 -1.7
 NWA0 34.36 190 iPc 23 49.00 -0.9
 0.6s 20.00nm 5.2mb
 CD2 35.38 329 iPc 23 58.80 0.1
 1.2s 290.00nm 6.1mb
 Z 16s 1.61um 4.9MsZ X
 RKG 35.52 190 eP 24 04.20 4.4X
 RMQ 36.30 141 ePd 24 06.00 -0.5
 HNR 37.27 107 ePd 24 14.00 -0.7
 MAT 37.71 19 iPc 24 16.30 -1.9
 1.5s 208.33nm 5.8mb
 TIY 38.04 345 Pd 24 20.40 -0.6
 1.0s 100.00nm 5.7mb
 Z 20s 1.00um 4.6MsZ
 N 18s 1.30um
 eS 30 14.00
 ADE 38.36 160 iPc 24 24.20 0.5
 CMS 38.39 149 iPc 24 24.90 0.9
 0.8s 44.00nm 5.4mb
 SHL 39.43 311 iP 24 32.80 -0.1
 eS 30 28.00
 BJI 39.48 351 Pd 24 32.00 -0.9

30d 14h

		4.0s	470.00nm			5.7mb	X
BRS		39.54	138 iPc	24	33.80	0.1	
LZH		39.59	334 iPc	24	35.50	1.4	
		1.5s	640.00nm			6.3mb	
	Z	18s	1.45um			4.9Msz	
	N	11s	0.56um				
			PP	26	16.00		
			ScP	26	40.50		
			S	30	30.50		
			sS	30	50.00		
YAMJ		39.80	20 P	24	35.20	-0.4	
SNY		40.62	360 eP	24	39.40	-2.8X	
COO		41.13	142 eP	24	47.00	0.3	
OFUJ		41.18	21 P	24	46.90	0.0	
HHC		41.22	346 P	24	47.00	-0.3	
BTO		41.39	344 eP	24	49.00	0.3	
BFD		41.71	158 eP	24	52.00	0.7	
BWA		42.04	149 iPc	24	56.90	2.8X	
AOMJ		42.07	19 eP	24	54.60	0.5	
LSA		42.31	315 iPc	24	57.60	0.7	
CAN		43.04	150 iPc	25	03.90	1.7	
			e	26	44.20		
CNB		43.22	149 iPc	25	05.50	1.8	
		1.0s	100.00nm			5.5mb	
TOO		43.24	155 iPc	25	05.20	1.4	
		0.8s	72.00nm			5.5mb	
MDJ		43.69	6 eP	25	06.50	-0.8	
GTA		44.13	333 iPc	25	11.40	0.3	
		3.0s	870.00nm			6.0mb	
	Z	18s	1.20um			4.9Msz	
	N	13s	0.70um				
GUN		45.22	310 P	25	20.50	0.1	
PKI		45.42	309 P	25	21.80	-0.1	
KKN		45.63	309 P	25	23.40	0.0	
DMN		45.68	309 P	25	23.96	0.1	
KUSJ		45.80	21 eP	25	24.30	0.1	
ASAJ		46.00	19 eP	25	25.70	-0.1	
GKN		46.23	309 P	25	28.04	0.0	
		1.0s	504.00nm			6.4mb	
KOD		47.15	283 eP	25	35.70	0.0	
DZM		47.33	122 iPc	25	36.80	0.1	
HYB		47.55	293 iPc	25	38.00	-0.5	
		1.0s	90.00nm			5.7mb	
			e	26	16.50		
GBA		47.74	287 P	25	39.40	-0.5	
POO		52.16	293 iPc	26	12.60	-1.2	
NDI		52.41	306 iPc	26	14.00	-1.5	
		0.9s	105.04nm			5.9mb	
WMO		53.46	328 iPc	26	22.50	-0.5	
	Z	20s	0.40um			4.5Msz	
KSH		58.07	317 P	26	56.00	-0.3	
WLZ		61.25	135 P	27	19.00	1.0	
THZ		61.32	140 P	27	18.40	-0.1	
QUE		61.34	304 eP	27	16.00	-3.0X	
LTZ		61.44	141 P	27	19.20	-0.1	
KHZ		62.06	140 P	27	23.00	-0.4	
NOZ		63.32	135 P	27	31.60	-0.2	
MAIO		69.02	309 iPc	28	07.20	-1.2	
		1.2s	27.08nm			5.1mb	
TAB		79.67	308 eP	29	09.00	-0.8	
MAW		80.29	200 iPc	29	12.80	0.5	
TTA		84.53	27 P	29	34.80	0.4	
		1.5s	84.46nm			5.6mb	
KDC		85.67	32 P	29	40.60	0.6	
		1.2s	106.06nm			5.9mb	
			pP	29	49.40	28kmX	
IMA		85.95	24 P	29	41.80	0.3	
		0.8s	14.22nm			5.2mb	
			pP	29	49.20	23kmX	
NAI		87.22					

	0.8 s	9.30nm	5.4mb
SPC	98.20 320 eP	30 37.30	-1.5
	0.5 s	2.00nm	4.9mb
HFS	99.11 332 eP	30 39.70	-2.7X
NB2	99.96 333 P	30 43.80	-2.6X
	0.8 s	5.10nm	5.1mb
KSP	100.32 322 ePdiff30	47.60	-0.5
BRG	101.75 323 iPd if f30	53.80	-0.7
CLL	102.19 323 e(Pd if f30	55.00	-1.4
YKA	103.07 24 ePdiff30	59.20	-0.9
	1.1 s	2.80nm	4.9mb
DAU	115.06 44 PKP	35 43.80	0.2
BW06	115.17 41 PKP	35 43.10	-0.5
MSU	115.19 46 PKP	35 44.80	1.0
PV09	117.37 45 PKP	35 48.00	0.0
GOL	119.41 42 PKP	35 51.80	0.0
GLD	119.48 42 PKP	35 51.70	-0.1
ANMO	120.85 48 PKP	35 55.00	0.4
ALO	120.85 48 ePKPc	35 55.00	0.4
KIC	128.32 279 PKP	36 09.00	-0.3
TIC	128.56 279 PKP	36 09.60	-0.1
LIC	128.61 279 PKP	36 09.50	-0.3
LKO	128.73 283 PKP	36 09.28	-0.8
FVM	129.85 36 PKP	36 11.40	-0.1
OLY	130.86 39 PKP	36 13.00	-0.5
ELC	131.02 35 PKP	36 13.90	0.2
PWLA	133.29 37 PKP	36 18.00	-0.1
LVN	144.20 158 ePKP	36 37.00	-1.0
TACH	144.64 158 iPKPd	36 38.20	-0.6
PCH	144.83 159 iPKPc	36 38.80	-0.5
SAN	144.92 158 ePKP	36 36.38	-3.0X
FCH	145.17 159 iPKPd	36 40.90	0.7
PEL	145.19 158 iPKPd	36 40.50	0.7
	1.0 s	65.00nm	
ROCH	145.22 158 iPKPd	36 40.50	0.4
MDZ	146.08 160 i(PKP)	36 42.50	1.1
NNA	156.63 119 ePKP	36 58.50	1.2
	1.0 s	12.00nm	
PDCR	159.74 235 ePKP	37 02.70	1.9
LPB	160.51 143 ePKP	37 08.00	5.9X
SOB1	162.91 241 ePKP	37 05.20	1.1
BAO	163.47 208 e(PKP)	37 00.00	-4.7X
SIV	164.31 162 PKP	37 06.40	1.0
		i 38 00.60	
S.D. = 0.8 on 122 of 137 obs.			

NOV	30, 1990	15h 24m	41.57± 0.69s
	16.444 N ± 7.4km	145.739 E ± 9.5km	
DEPTH = 543.2 ± 7.9 km			
4.5mb (9 obs.)			
MARIANA ISLANDS			(216)
PJG	2.96 197 eP	25 55.80	-0.6
GUA	3.00 196 eP	25 56.00	-0.6
	0.3 s	187.01nm	
		eS	26 53.50
WB5	37.79 198 eP	31 13.30	0.4
		i	33 16.20
ASPA	41.51 196 eP	31 42.90	0.0
	0.5 s	4.10nm	4.2mb
		eS	37 19.10
LZH	41.96 306 P	31 48.30	1.7
	0.6 s	23.00nm	4.9mb
RMQ	42.77 176 iPd	31 53.10	0.3
DZM	43.32 151 iPd	31 58.40	1.1
CHG	44.56 280 iPc	32 07.80	0.7
	0.9 s	20.59nm	4.7mb
MBL	45.19 215 eP	32 12.00	0.3
WARB	46.26 204 eP	32 20.70	0.8
BSI	50.57 264 eP	32 33.00	-19.4X
BWA	50.65 177 iPd	32 53.70	1.1
SHL	50.80 290 eP	32 57.00	2.8X
CAN	51.57 177 iPd	33 00.20	0.8
GUN	56.12 293 P	33 32.50	0.3
PKI	56.55 292 P	33 34.94	-0.2
	0.3 s	18.00nm	4.9mb
KKN	56.66 293 P	33 35.68	-0.1
	0.2 s	9.00nm	4.7mb
DMN	56.82 292 P	33 36.96	0.1
GKN	57.22 293 P	33 39.52	0.0
NGZ	61.97 154 P	34 11.40	0.7
TCW	63.17 156 P	34 17.70	-0.4
LTZ	63.79 158 eP	34 21.30	-0.9
KHZ	63.93 157 P	34 21.30	-1.7
HYB	63.96 282 eP	34 23.50	-0.3
FBA	65.30 25 eP	34 31.70	0.3

	0.5s		4.55nm		4.3mb	
GBA	65.75	278	P	34	34.70	-0.3
INK	71.42	23	eP	35	09.00	0.9
YKA	79.95	28	eP	35	55.50	0.6
	0.6s		4.80nm		4.1mb	
SOD	85.48	340	eP	36	39.00	16.4X
KAF	88.48	336	eP	36	36.30	-0.5
FFC	88.96	32	iPc	36	40.40	1.2
	0.5s		4.00nm		4.6mb	
HFS	94.48	338	eP	37	04.00	-0.5
	0.5s		1.20nm		4.3mb	
KIC	143.04	305	PKP	43	14.00	-1.9
TIC	143.08	306	PKP	43	14.10	-1.9
LIC	143.34	306	PKP	43	15.20	-1.2
S.D. = 0.9 on 32 of 35 obs.						
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&	NOV 30, 1990	15h	45m	41.10s		
	36.113 N			120.023 W		
DEPTH = 17.0km						
CENTRAL CALIFORNIA (39)						
<BRK>. ML 2.5 (BRK).						
PKEM	0.09	234	iPc	45	42.30	-2.3
PRI	0.52	273	iPc	45	50.90	-0.6
			iS	45	59.40	
LLA	0.90	304	eP	45	57.00	-0.8
			eS	46	08.90	
FRI	0.91	16	eP	45	57.50	-0.6
			eS	46	08.80	
BCH	0.93	183	eP	45	56.80	-1.6
PRS	1.11	282	eP	45	59.90	-1.6
SAO	1.32	300	eP	46	04.00	-0.7
ABL	1.42	152	eP	46	04.00	-2.3
CMB	1.94	352	eP	46	13.00	-0.7
			eS	46	34.60	
9 obs. associated						
<hr/>						
NOV 30, 1990	16h	21m	14.17±	0.34s		
40.740 N ± 4.2km			27.531 E ± 3.3km			
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 3.5 (ATH), 3.5 (ISK).						
EDC	0.47	147	iPg	21	23.60	-0.1
BNT	0.48	142	iPg	21	23.70	-0.3
CTT	0.79	59	iPn	21	29.20	-0.4
KCT	0.80	128	ePn	21	28.00	-1.7
DMK	1.09	9	iPn	21	36.00	1.3
ISK	1.20	74	iPn	21	36.70	0.1
EZN	1.30	226	iPn	21	37.60	-0.6
DST	1.41	143	iPn	21	40.70	0.8
GBZT	1.45	87	ePn	21	37.40	-3.1X
IZI	1.53	105	ePn	21	43.00	1.3
RDO	1.56	286	iPnd	21	42.20	0.2
			eSn	22	03.00	
HRT	1.62	86	iPn	21	42.20	-0.8
PRK	1.78	213	ePn	21	47.20	2.1
			eSn	22	10.20	
KDZ	1.84	300	iPd	21	46.00	0.0
JMB	1.87	338	iP	21	51.00	4.6X
DIM	1.99	312	ePc	21	48.00	-0.2
RZN	2.33	295	iPd	21	53.00	-0.3
IZM	2.35	185	ePn	21	57.70	4.2X
PVL	2.97	327	eP	22	02.00	-0.1
MMB	2.99	288	iPc	22	02.00	-0.6
PGB	3.10	307	iP	22	04.00	-0.1
KKB	3.53	290	iP	22	10.00	-0.2
VTS	3.73	301	iP	22	13.00	-0.2
VAY	3.80	280	ePn	22	13.70	-0.3
MLR	4.89	347	eP	22	15.50	-14.1X
S.D. = 0.8 on 21 of 25 obs.						
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NOV 30, 1990	18h	25m	52.67±	0.96s		
39.362 N ± 6.9km			20.119 E ± 9.2km			
DEPTH = 10.0km (geophysicist)						
GREECE-ALBANIA BORDER REGION (392)						
MD 3.2 (ATH).						
KEK	0.43	325	iPd	26	01.00	-0.4
VLS	1.24	163	eP	26	15.90	0.2
EVV	1.39	108	eP	26	18.30	0.2
KZN	1.58	53	eP	26	19.80	

S.D. = 0.9 on 9 of 9 obs.
 NOV 30, 1990 18h 59m 07.73±0.42s
 38.775 N ± 3.7km 26.499 E ± 5.1km
 DEPTH = 16.8 ± 4.9 km
 AEGEAN SEA (365)
 MD 3.6 (ISK), 3.4 (ATH).

PRK 0.50 339 iPbc 59 17.30 -0.4
 eSb 59 24.50
 IZM 0.71 122 iPg 59 21.20 0.0
 iSg 59 34.70
 EZN 1.06 353 iPg 59 28.10 0.9
 iSg 59 43.10
 SMG 1.10 166 ePn 59 28.20 0.4
 eSn 59 43.50
 KGT 1.79 20 iPn 59 38.20 0.2
 DST 1.85 63 iPn 59 34.70 -4.4X
 APE 1.87 205 ePn 59 39.00 -0.3
 EDC 1.89 33 iPn 59 39.90 0.3
 BNT 1.92 34 iPn 59 39.40 -0.7
 KCT 2.06 44 ePn 59 41.00 -1.0
 ALN 2.15 351 eP 59 43.40 0.1
 KHL 2.41 100 ePn 59 52.00 4.8X
 RDO 2.48 343 iPnc 59 47.90 -0.1
 ALT 2.83 83 ePn 59 53.90 0.8
 KDZ 2.99 344 iP 59 55.00 -0.2
 ISK 3.02 40 ePn 59 56.00 0.4
 HRT 3.18 49 ePn 00 02.00 3.9X
 RZN 3.21 335 iP 59 59.00 0.4
 KKB 4.04 321 iP 00 10.00 -0.2
 VTS 4.56 328 iP 00 18.00 0.3

S.D. = 0.5 on 17 of 20 obs.

& NOV 30, 1990 19h 05m 20.10s
 37.630 N 118.947 W
 DEPTH = 8.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 2.6 (BRK).

FRI 0.88 224 iPc 05 36.20 -1.0
 iS 05 47.70
 CMB 1.21 290 eP 05 41.90 -0.9
 eS 05 58.00
 TNP 1.44 71 eP 05 46.00 -0.7
 LLA 1.89 238 eP 05 53.60 0.6
 PRI 2.03 223 eP 05 56.30 1.3
 ARN 2.08 263 eP 05 56.50 0.8
 SAO 2.17 247 eP 05 58.00 0.9
 PRS 2.33 237 eP 06 00.20 0.8
 BCH 2.61 201 eP 06 03.00 -0.3
 9 obs. associated

& NOV 30, 1990 19h 18m 32.30s
 40.932 N 119.358 W
 DEPTH = 5.0km (geophysicist)
 NEVADA (37)
 <BRK>. ML 2.6 (BRK).

MIN 1.81 252 eP 19 03.80 -0.7
 iS 19 27.90
 LBFM 1.96 283 eP 19 05.80 -0.9
 ORV 2.14 231 eP 19 06.30 -2.9
 eS 19 37.20
 WDC 2.44 263 eP 19 14.10 0.6
 eS 19 46.50
 TNP 3.29 149 eP 19 28.50 2.7
 5 obs. associated

* NOV 30, 1990 19h 35m 31.33±0.68s
 28.863 S ±12.7km 61.761 E ±11.6km
 DEPTH = 10.0km (geophysicist)
 4.4mb (2 obs.)
 ATLANTIC-INDIAN RISE (428)

LSZ 33.79 286 iPc 42 16.00 0.1
 GBA 44.85 22 P 43 48.00 0.4
 HYB 48.79 22 eP 44 19.00 0.4
 DMN 60.44 24 P 45 44.10 0.3
 PKI 60.52 24 P 45 44.88 0.5
 KKN 60.64 23 P 45 44.42 -0.6
 KKN 60.67 24 P 45 44.70 -0.6
 GUN 61.00 24 P 45 47.24 -0.4
 ASPA 64.00 104 eP 46 07.50 0.0
 1.7s 4.10nm 4.3mb
 WRA 65.80 100 P 46 19.00 -0.2
 0.9s 2.50nm 4.4mb

WB5 65.85 100 eP 46 19.90 0.4
 YKA 146.28 357 ePKP 55 11.60 -0.3
 0.8s 4.40nm
 S.D. = 0.4 on 12 of 12 obs.

* NOV 30, 1990 20h 57m 10.18±0.51s
 47.980 S ±13.5km 104.355 E ±12.5km
 DEPTH = 10.0km (geophysicist)
 5.3mb (1 obs.)
 SOUTHEAST INDIAN RISE (435)

ASPA 33.74 54 iPc 03 53.40 -0.5
 0.9s 35.40nm 5.3mb
 WB5 37.07 51 iPc 04 22.50 0.3
 GBA 65.83 331 P 07 57.00 -0.7
 HYB 69.07 334 eP 08 18.00 -0.2
 POO 71.63 330 eP 08 33.20 -0.5
 SHL 74.06 348 eP 08 48.50 0.5
 PKI 77.11 343 P 09 05.16 -0.4
 DMN 77.21 343 P 09 05.82 -0.2
 GUN 77.35 343 P 09 07.22 0.3
 KKN 77.35 343 P 09 06.46 -0.3
 GKN 77.68 342 P 09 08.28 -0.2
 LZH 83.69 360 P 09 41.00 0.9
 QUE 84.75 328 eP 09 46.90 1.3
 FBA 139.27 38 ePKP 16 30.40 -7.5X
 DAG 143.64 341 iPKPc 16 41.30 -4.0X
 1.2s 14.06nm
 MWC 145.66 98 ePKP 16 58.00 7.7X
 PLM 145.93 100 ePKP 16 50.00 -0.7
 RVR 145.97 99 ePKP 16 50.00 -0.5
 SBB 146.09 97 ePKP 16 50.00 -0.8
 CLC 146.89 96 ePKP 16 52.00 0.0
 TPC 146.92 100 ePKP 16 53.00 0.9
 GSC 147.12 97 ePKP 16 53.00 0.5
 TNP 148.38 93 ePKP 16 55.00 0.4
 PV09 154.01 99 ePKP 17 09.50 6.5X
 S.D. = 0.6 on 20 of 24 obs.

& NOV 30, 1990 21h 07m 29.49s
 58.579 N 153.682 W
 DEPTH = 64.7km
 KODIAK ISLAND REGION (13)
 <AGS-P>.

CDD 0.35 3 iP 07 40.12 -0.6
 SYI 0.68 87 eP 07 43.20 -0.7
 eS 07 53.68
 MCNL 0.70 331 eP 07 43.47 -0.7
 AUI 0.77 10 iP 07 44.20 -0.9
 AGU 0.79 9 iP 07 44.74 -0.8
 AUH 0.80 9 iP 07 44.74 -0.7
 AUP 0.80 10 iP 07 44.69 -0.8
 AUE 0.80 11 iP 07 44.81 -0.6
 KDC 1.05 142 eP 07 47.44 -1.1
 OPT 1.10 12 iP 07 48.36 -1.0
 eS 08 02.70
 BGM 1.14 316 eP 07 48.58 -1.3
 PDB 1.24 348 eP 07 49.85 -1.3
 XLV 1.34 48 eP 07 52.05 -0.5
 HOM 1.51 43 eP 07 54.03 -0.8
 INE 1.52 12 iP 07 53.53 -1.6
 iS 08 12.31
 CNPM 1.58 52 eP 07 54.13 -1.7
 >NNL 1.91 39 eP 07 59.58 -0.8
 RS2 1.95 14 eP 07 59.52 -1.6
 RSO 1.95 14 eP 07 59.24 -1.9
 REF 1.98 14 eP 07 59.79 -1.7
 RDN 2.00 13 eP 08 00.06 -1.6
 NCT 2.03 11 eP 08 00.54 -1.5
 RDT 2.10 17 eP 08 01.09 -2.1
 SLKM 2.62 41 eP 08 07.64 -2.6
 CKL 2.71 14 eP 08 10.12 -1.6
 SPU 2.74 17 eP 08 09.97 -2.0
 BGL 2.77 13 eP 08 09.86 -2.7
 CGLM 2.86 16 eP 08 11.89 -1.9
 NCG 2.94 14 eP 08 13.09 -1.8
 29 obs. associated

& NOV 30, 1990 21h 12m 34.40s
 64.507 N 130.384 W
 DEPTH = 18.0km (geophysicist)
 NORTHWEST TERRITORIES, CANADA (679)
 <PGC-P>. ML 4.3 (PGC).

DWY 3.97 268 P 13 34.00 -1.7
 INK 4.02 343 P 13 33.00 -3.3

WHC 4.36 212 P 13 39.90 -1.5
 HYT 4.94 225 Pd 13 48.00 -1.6
 SPY 5.26 332 P 13 50.50 -3.5
 MUB 5.99 156 P 14 00.90 -3.4
 DLB 6.10 178 P 14 02.70 -3.3
 YKA 7.34 99 eP 14 49.50 26.3

0.5s 3.00nm
 MBC 12.32 12 eP 15 24.50 -7.0
 0.5s 7.00nm 5.1mb X
 FFC 17.23 111 eP 16 28.00 -7.3
 10 obs. associated

% NOV 30, 1990 21h 52m 11.70±0.81s
 39.204 N ± 7.3km 2.734 W ±10.0km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.7 (MDD).

EVIA 0.59 162 iPg 52 24.00 0.2
 eSg 52 32.40
 EBAN 1.32 219 ePn 52 35.70 -0.5
 eSn 52 52.30
 ECHE 1.42 74 ePn 52 38.00 0.4
 eSn 52 58.40
 ETOR 1.70 18 ePn 52 40.60 -1.0
 eSn 53 03.90
 GUD 1.80 323 ePn 52 44.00 0.8
 eSn 53 05.90
 ECOG 2.03 199 ePn 52 49.60 3.1X
 eSn 53 15.00

S.D. = 1.0 on 5 of 6 obs.

* NOV 30, 1990 22h 26m 59.37±0.72s
 25.517 S ± 6.9km 69.003 W ±13.7km
 DEPTH = 109.5 ± 13.7 km
 4.1mb (1 obs.)
 NORTHERN CHILE (123)

ANT 2.21 324 iPc 27 36.30 0.7
 iS 28 01.80
 CYA 4.09 136 e(P) 28 01.50 0.6
 ZON 6.01 177 eP 28 26.00 -1.4
 eS 29 31.00
 CFA 6.10 174 eP 28 29.20 0.6
 MDZ 7.34 179 eP 28 51.40 5.8X
 LPB 8.98 6 P 29 08.00 -0.2
 ZOBO 9.24 5 P 29 11.00 -0.8
 ARE 9.30 345 iPc 29 09.00 -3.4X
 iS 30 48.20
 SIV 12.03 40 P 29 44.80 -3.6X
 VAO 20.24 88 eP 31 28.70 0.5
 BAO 21.96 67 eP 31 45.00 -0.4
 YKA 94.93 341 eP 40 10.20 0.4
 0.6s 0.50nm 4.1mb

S.D. = 0.9 on 9 of 12 obs.

? NOV 30, 1990 23h 23m 27.28±2.50s
 0.259 N ±25.0km 77.924 W ±15.9km
 DEPTH = 33.0km (normal)
 COLOMBIA-ECUADOR BORDER REGION (106)

COTA 0.42 280 iP+ 23 37.20 0.0
 eS 23 44.00
 OUR 0.74 235 eP 23 42.00 0.3
 iS 23 56.50
 ANGL 0.75 150 iP 23 41.80 0.0
 iS 23 55.30
 GGP 0.80 237 eP 23 42.30 -0.3
 iS 23 56.70
 VC1 1.01 208 eP 23 05.70 -40.0X
 eS 24 13.00

S.D. = 0.5 on 4 of 5 obs.

X = data received for this 6-hour time period

DATE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
AAI																				XX XX		X X					XX	XXXX		X X	XX	
ABH			X	XX	X X		X	X XX		X X	XX XXX		XX X	X																		
ABL		XX	XX	XXX	XXX X	X	XX	XX X	X X X		XX X		XX X		XX			X X	X X		X	X	XX X	X XXXXXX	X	X X		XX X		XX	X	
ACX		XX	XXX		XX X	XX X	XXXX		XX				XX		X			X	XX		X X X X	X	XXX X		XXX X		X X		X	X		
ADE		X XX	XX X XX	XXX		X X	X X		X		XX XXXXXX	X	XXX		XX X			X	X		X X		XXX XXXXX	X XX			X X		XX	X		
ADI				X	XX		X		X		X					XX		XX X					X X				X					
ADK		X X XX	X		X X	X X	XX		X X		XX		XX		X		X XX				X	X	XXX X		X		X				X	
AFC		XX	X		X	X	X X		X X	X		X	XXX		XX						XX		X		X	X	X	X				
AFI				XX																		XXX	XXX	XX	XX		X X X	X				
AFIF				XX	X		XX		X				XX X		XXX					X												
AFR		X X	X		X		X X				X			X									X X X X		X	X			X X			
AGAL			XX				X					X XX X			X										X		X					
AGG		X X	X		X X		X		XX	X XX	XXXXXX	XX	X XXXXX		XX X			X X	X X		X	X	XXXXX	X XX	X	XX XXXXX	XXXXXXXXXX	X				
AGMR				X								XX X												X		X						
AGU			X X	XX X X	X X	X X		X			XX	X X	X	X	XX	XX X X							X		X		X		X X	X X		
AIA		XXXXX	XX X		XXXXX	XXXXXXXXXXXXXXXXXXXX	XXX	XXXX		XXXX	XXXXXXXXXXXXXX	XX X	XXXXXX	XXXX	XXXXXXXXXXXXXX	X XX XXX	XXXXXXXXXX								X XX XXX	XXXXXXXXXX						
AKSR			X			X					X X	X		X									X		X							
AKU			X	X	X X		X		X	X	XX X											X		X		X						
ALN			X			X X			X	X	XXX X		XXXX		X						X X X	X	XX XX	XX X	X	XXXXX	X X XX X X					
ALP		X		X XX		XXX			XX XX	XX XXX				X	X				XXXX XX		XXX X	X	XXX XXX		X	XXXXXXXXXX	XX XX					
ALD		XX	XX	XX XXXXXXXXXXXXX		XX XX	XXXXXXXXXX		X X		XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
ALT		X	XX X		X XX	XX X		X XX	XXXX	X XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
ANGL				XXX	XXX		X X						X	X	X	XX	X															
ANM		X				X																	X X XX XXX	XXXX		XXX		XXX		XXX	X	
ANMO			X XX	XX X		X XX	XXX	X XX	X XX	X XX		X X											XXX XXX	XX X	X X	XXX	XX		XX	X X		
ANP		X	XX		X		X XX	X X	X X	X X	X X		XX						XX X		X X		XXX				X X X					
ANT		X XXXXX	X	XXX	X	XXXX	XX	X	XXXX		XXXXXXXXXX	XX XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	X XX	X X X	XXX		X X	XXX X	XX	X			
AOI		X		X		XX					XX X XX		XX										XX X X X	XX XX		XXXX	XX	X				
AOMJ			X		X	X																	XX									
APE		X		X	X	X X	X				XX X		XXX		X							X	X XXX	X X	X X X	X XX	X					
APD									X XX		X	X		X					XX X				X X		X							
AQU			X	X			X							X									X		X	X		X XX	X X		X	
ARE		X	X	X XX	XX X X	XX	X X	X XX	XX		X XXXX		XX		X	XX	XX	X XXX	X	XXX X		X	X	X		X		X		XX	XX	
ARG												XX X		XXX								X X X X X	X XXX	X	X		X		X			
ARN			X XX	XXX	X X	X XX	X XX	X		XX X XXX	XX X		XX		XX	XX	X X	XXX XX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	X XX	X X		XXX	X	
ARV		X	XXX XXX	XXX	X X	XX	X			XXXXXXXXXXXXXX	XXX		X					XXX	X	XXX	X XXX	XXXXX	XXXXXX	XX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXX	XX			
ASAJ			X				X			XXX X	X X		X					X	XX				X				XX X		XX	X		
ASK		X X				X X	X X	X		X	X X		XX XX								X X		X XXX X		X		X		XX	X		
ASPA		XXXXXXXXXXXXXXXXXX	XX	XX							XXXX	X	XX																			
ASS		X	XXX XXX	XXX	X X	XX	X X			XXXXXXXXXXXXXX	X XXX		X					XXX	X XX					XXXXXX		XXXXXXXXXXXXXXXXXXXX	XX					
ATH		X		X X		X	X	X		X	X XX XX		XX		X X						X	X	XX X	X	X	X	X	XX				
ATN				XXXXX		X X		X	X	X	X X X	X	X X X		X	X X				X		X X		X		X		XXX		XX	X	
AUE			X	X	XX X X	X X	XX		X		XX	X	X	X	X XXX X	XX	X X X		X				X		X X		XXX	X		X X	X X	
AUH			X	X	XX X X	X X		X			XX	X X	X	X	XX X	XX	X X		X				X		X X		XXX		X X	X X		
AUI			X	X	XX X X	X XX					XX	X	X	X	XX X	XX	X X X						X		X		X X		X X	XXX		
AUP			X	X	XX X X	X X	X				XX	X	X	X	XX X	XX	X X X						X		XX	X		X X		X X	XXX	
AVE		X		XX	X XX	XX XX		X		X X	XXX	X	XX X XX											X		X		XXX		X		
AVF		X X X	XXXXX	XXXX	XX XXX	XX XXX	XXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX	X	X	XXXXX		X	XXXXX						X XX	XXXX	XXXX	XXXX	X	XXXX		XXXX	X			
AYN			XXX X			X X						X	XX	X										X	X X	XXX	X	X				
AZI			X	XXX	X					XX X	XXXX	X													X	X	X X	X				
BADA				X X			X						X		X							X X		X	X	X	X					
BAG		X		X	XX	XX X XXXX	X XX	XX X	XX X X X	X	XXX	XX	X	XXX	XX	X	XXX					X XX		XXX X	X X X	X		X		X		
BAL		X	XXXX	XX	XX X X XX	XXXXX		X X	XX XXXXX	X X	X		X		X							XX		XXX X	X X X	XX	X		X		X	
BALM				X	X	X XX	X	X		X	X XX		XX	X X X	X								X XX	XX	X	XX		XX		X X	XX	
BAO		XX	XXXX	XX	XX X	XXXXX	X	XXXXXXXXXX	X X X	X	XXX	X	XXXXX	XXX									XXXX	XXXXXXXXXX	XXX	XX	XX		X	XXX		
BAR		XX	X	XX	X	X XX		X	XX	X		XXX	X	XXX									X	XX	X XX	X X	X		X		XX	
BBL			X	XXX	XX		X X	X X		X	X X	X X	X	X	XX								XX	XX	X X	X X	X		XXXX	XX	X	
BBTK		XXXX	X XXX	X X	X X XX	XXXXXX	XXXX	XXXXXXXXXX	XXXX	XXXXXX	XX	X	XXXXX	XX	X	XXXXX					XXXX	XXXXXXXXXX	XXXXXX	X XX	XX XX	XXXX	XX					
BBU			X XX	XX		X				XX X X	XXX												X		X	X						
BCAO		XXXXXXXXXXXXXXXXXXXX	XX																			XXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX							
BCH		XX	X	XXX	X X	X	XX	X		X X	XX X	X			X	XX	X X					XX X		X X	X XXXXX	X	X		XXX	XX		
BCI			X			X		X															X		X		X					
BCK			X	XX	XXX	XXX	X		X X	X XX X X	XXX X	XXXX		XXXXXX	X	XXXXXXXXXX	X X	XXX	X	XX	XX	XX	X	XX	XX	X	XX		XX	X		
BDI		X		X	XXX XX	X X	X X		X X	XX X		XX X		X	XX								X XX	X X	XXX	X XXX	XX	XXXX	X	XX	XX	
BDT		XXXXXXXXXXXXXX	X X	X X XX	XXXXX		XX XXX	XXXXX	XX X	X XXXX	XX X		XXXX	XX X								X		X XX	X X	XXXXXX	X	XX	XX	XX	XX	
BDV			X X	X		X				X XXXX	X	XXX													X				XXXX	XX	X	
BEO			XXX	X	XX	XX X	X		X	XXXXXXXXXX	X XX									XX		X XX	X	XX	X	XX	XXXXXX	X XX	X X			
BER			X	X		X	X	X	X	X	X	X											X	X	X		X X					
BERA			XX			X	X	X XXX	XX													XX XX	XX XX			XX	XX	X	X	X		
BFD		X	X	XX	XX	X X	XX						XXX	XX	X	X					X				XXX				XX		XX	X
BFT			XXXXXXXXXX	X																			X	XX X								
BGF		X	XXXX	XXXX	XXXX	XX XXX	XXXX	XX X	XXX	XXXXXXXXXXXX	XXX	XXXX		XX	X XXX								XXX XX	XX XXX	XXX	X	XXXXXX	X XXX	XX			
BGL			XX	XXX	XX X	XX X	XX	XXXX	XX		XXXXX	XXX	XX XXX	XXXXX	XXX	X X XX							X XXX	XX X	X	XX	XXX X	X XXXX	XXX			
BHB					X	XX X	X X	X	XX	X	XX XX	XX XXX	XX X														XXXX	XXXX	XXX			
BHG			X XX	X		X X	X X			XXX XX	X	X XX												X XX	XX	X	XXX					

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			
BHL		X	X	XX		X	XX	X	XX		X		X	X	XX		X		XX		X		X		XX		X		X				
BIM			X	X		XX				X		XX		X	X	X	X	XX		X		X	X	X	X	X		X	X	X			
BJI	XX	X	XX	XXXX	XXXX	X	XXXX	XXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
BK82	X						XX								X																		
BKS		X	X		XXX	XXX	X	X	XX	XX	X		XXXX	XX	XXX	XX	XXX	X	XX		XX	X	XXX	X	X	XXX	XX	X	X	XXX			
BLA						X			XX	X				X	X	XXX				XX		X	X	X	XXXX	X		X					
BLF				XXXX	X	X		X											XX														
BLP					X		X	X		X	X				X			X							X	X				X			
BLS2		X	X				X	X	X	X	X		X	X	X	XXX	X			X			XXX	X				X	XX	X			
BLW		X			X	X		X	X				X		X			X	X				X						X	XX	X		
BLY	XX						X	X	XX				X	XXX	XX					X			X				XXXXXXXXXX	XXXX					
BMA	X			XX	X	XX				XX			X	X	X	X	X		X		XXXXX	X	XXX	X	X	X	X	X					
BMC					X								X	X	X				X			X	XXX	XXX	X	XX							
BMR							X	X			XX	XX	XX	X	X	XXX	X		XXX		XX		X				XXX	X	XXXX	X			
BMW		X	XX	XX	X			X	XX					X	X	X					XX				X		X						
BN1		X	X	XX	XX	X	X	XX	X	XX	X	XXXXXXXXXXXX	XXX	X	XXXXX				XXX		XXXX	XX	X	X	X	X	XX	X	XXXX	X	X		
BNS			X		X		X			X			XX	X	X				X		X		X	X	X	X	X	X	X	X	X		
BNT	XX	XXXX	XXX	XX	X		X	X	X	XXX	X	XX	XXX	XXX	XXXXXXXXXX	XX	XX	XX	X	XXXX	XXXX	XXX	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX		
BOB			X	X	XXX	X	X	XX	X	XXX	X	XX	XXXX	XX	X	XX			X		X		XX	X	XXX	X		X	XXX	XX			
BOG	XX		X		X		XX	X	X	X		X	X		X	X	X	X	XX		X		XXX	XXX	X	XX							
BOM	X		X	XX	X					X	X	X		XX				XX															
BPA	XX	X		XX			X	X	X					X	X			X			X		X	XX	X		X						
BRG	X	XXXX	XXX	XXXX	XXX	XXX	XX	XXX	XXXXXXXX	XXXXXXXXXX	XX	XXXX	XXX	XX	X	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXX	X	X	XXXXXXXXXX	XXXXXXXXXX	XXXXX	X	X	XXXXXXXXXXXXXXXXXX	XXXX					
BRK		X	XX	XX	X	XXX	X	X	XX	XX	X	XX	X	XXX	XX	XXX	X	X		XX		XXXX	X	XX	XXX	XX		XX	X	XX	X		
BRLK			X	X	XX	X	X	X		X			XXXX	X	XX	X	XXX	X	X	X	X	X	X	X	X	XX	XXX	X	XXX	XX	XX		
BRS	XXXXX	X	XX	X	X	X	XXX	X	XX		XX	XX	X	X	XXXXXXXX	XX	X		X		X	XXX	X						X	XX	X		
BRW	X		X	X	X		X	XX	X	X	XX		XX	X	XXXX	X	X	X	X	X	XX	X	XX	XXX	X	X	X	XX	XXX	XXX	X		
BRY		X	X	X			X	X		X			X	XXXX	X	XXX			X								XXXX	XXX	X	X			
BSD		X		X								XX	X		X												X	X	X				
BSF	X	XXX	XXXXX	XXXX	XXX	XX	X	XXX	X	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXX	XXX	XXX			XXX	XXX	XXX	X	XXX	XX	XX	X	X	XXX	X	XXXX	XX	X	XXX	X
BS1							XXX		XX	X		X	X					XXXXXXXXXXXX										X	X	XXX	XX		
BTH			X							XX	X	XX	XX	XX	XXX	X	XXXX	X	X	XX	XX	XX	X	X	X	X	X	X	X	X	X		
BTO	X		XX	X	X	XXXX		XX	XX	X		XX	XX	X	XXX	XXX	XXX	X	XX	X	XX	X	XX	XXX	XXX	X	XXX	X	X	XX	X	XXXX	X
BUC							X					XX	X	X								X					XX						
BUC1							X					XX	X	X	X							XX					XX						
BUD			X		X			X				X	X	X		XX					X		XX	X			XX	X					
BUL	X	XXX	XXXXXXXX	XX	XXX	XX	XXXXXXXX	XXXXX	XXXX	XX	X	XXX	XX	X	XXX	XX	XX	X	XX	X	XXX	X	XXXXX	XX	XX	X	X	X	XX	X	XXX	XXXX	
BW06	XX	XX	X	X	XXX	XX	XX	XX	X	XX	XXX		X								XX	X		XXXX	XXXX	XX	X	XX	XX	X	XXX	X	
BWA	X	XXX	XX	XXX	X	X	XX	XX	X		XX	XX	X	XXXXXXXX	XXXX	XX	X	X	X	X	XX	X		XXXX	XXXX	XX	X	XX	XX	X	XX	X	
BWN		X	XX		X	X	X		X		X	X	X	XX		X	XX	X	XX	X	X	X	XX		X	X	XX		X	X	X	X	
BZS		X	XXX	XX	X	XX	XX		X	XXXXXXXXXXXX	X	XXXX		X	X	XX		X	XX	X	XXXXXX	XX	XXX	X	XX	XXXXXX	XXXX	X					
CAF	X		X	XX	XXXX	XX	X	XXXXXXXX	X	XXXXXXXXXXXX	XX	XXX	XXX	X	X	XX				X	X	XXXX	X	XX	X	X	XXX						
CAN	X	XXX	XX	XXX	X	XX	XX	XX	X	XXX	XX	X	XXXX	XX	XXXX	XXXX	XX	X	XXXX	X	XX	X	XXXX	XXXX	XX	X	XX	XX		X	XX	X	
CAW	XX	X			X		X			X	X	X	X	X					XX				XX	XXXX	X			X	X	XX	X		
CAYA	X			XXX	XXX	X	XXXX	X		X		X	XX	X	XX	X	XX	X	X	X			X										
CBM							X					X			X				X		X	X	XX	XX	X								
CBN							X					X			X				X		X	XX	XX	X					X	X			
CCB		X	XXX			XX	X	X	XX	X		X	XX	X	XXX	XXXX	XX	X	XX	X	X	X	X	X	X	X	XX	X	X	X	XX	XX	
CCH	XXX				X	XX	XXX						XX	XX	X	XX	XXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CD2	XX	X	XX	XXXX	XXX	XXXXXX	X	XX		XX	X	XXXX	XXX	XXXXXX	XXXXXX	XXXX	X	XXX		XXXX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
CDD		X	X	XX	X	X	X	XX				XXX	XX	X	X	XXX	X	XX	X	X	X	X	X	X	X	XX	XXX	X	XXXX	X	X		
CDF		XX	XXXXX	XX	X	XXX	XX		XXX	X	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXX	XXX	XXX		XXXX	XX	XX	X	X	XXX	X		XXXX	XX	X	XXX	X			
CDR	XX		XX	XX	X	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	X	XXXXX	X	X	X	XXXX	X	XXXX	X	XXXX													
CE0S					X		X	X					X	X		X	X	X		X	X	X	X	X							XXXXXXXX		
CER		X	XXXX	XX	X		X	X	XX		X	XX		X				XXX	XX	XX	X										X		
CEY		XX	X			X	X	X		XX	XXXXXXXXXX		XX					XXX	XX	XX	X					XXXX	XXXXXXXXXX	X					
CFA	XXXXX					XXXXXX	XXXXX	X	XXXXXXXXXXXX	XXXXX	XXX	XX	XXXXXXXXXXXX	XXXXX	XXX	XX	XXXXXXXXXXXXXXXXXXXX	XXXXX	X										XX	X	XX		
CFR	XX	X	X	X		XX	X	XX		X		X	X	XX	XXX			XX	X	XXXX	X		X	X	XX	XXXXXXXX	X	XXX					
CGLM		XX	XXX	XX	X	XX	X	XX	XXXX	XX		XXXXXXXXXX	XX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXX	XX	X	X	XX	XX	X	X	XXXX	XXXX	XXXX	
CHCH		XXXX		X	XX	X	X	XXXX	X	XX	X		X	X	X						X	X	X	X	X	XX		X	XXXX	XX			
CHG	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
CHJJ		XX		XXX	X	XX	X	XX			XX	XXX	XXXX	X		X	X	X		XX	X	X	X	XX		XX	X	X	X	X	XX	XXXX	
CHTO	X	XXXXXXXXXX	XXXXXXXXXX	XX	XXXXX	XX	XXXX		XX	XX	XX	X	X	X	X		X		X	X	X	XX	X	XX	X	XX	X	XX	X	XX	XX	XX	
CIN	X	XXXXXXXXXX	XXX	X	XXXX	X	XX	XXXXXXXXXX	XX	XXX	XX	XXXX	XXXX	XX							XXXXX	XX	XXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CIO	X	X	XXXX	XXX	XXX	XX	XXX	XXXX	X	XXXX	XX	XXXXXXXXXX	X	XXXXX	X	XXX	X	XXXX		X	XXXX	XXXX	XX	XX	X	XXXXXXXXXX	XXX	XX					
CK1				X	X	X	X	X	X			XX	X	XX	X	XX				X		X	X	XX		XXXX		X	X	XX			
CKL		XX	XXX	XX	X	XX	X		XXX	XX		XXXX	XXX	XX	XXX	XXXX	XXX	XXX	XX		X	XX	XX	X	X	XX	XXX	X	X	XXXX	XXXX	XXXX	
CLC		X	XX	X	XX	XX	X	X	XX	XXX	X	X	X	XXX	XXXX						X	X	XXXX	XXXX	X	X		XX		X	XX	X	
CLE			X		X	X		X					X	X	X																		
CLL	X	XXXXXXXXXXXX		XXXXXXXXXXXX		XX	XXXX		XXXXXXXXXXXXXXXXXXXX	XX	XXX	XX	XX	XXXXXXXX							XXXX	XXXXXXXXXXXXXXXXXXXX	X	XXXX				X	XXXX	XX			
CM8	XXXX	XX	XX	XXXXXX	X	XX	XXX	XX	X	X	XXXX	XXXXXXXXXX	XXX		XXX	XXXXXX			XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX		X	XXXX	XX			
CMP		X		XX		X	X	X		X	XX	XXXXX	X		XXXX						XX	XX	X	X	X	X	XXX		X	X			
CMS	X	XXXXXX	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	
COTA	X			XXX		XXX	XX	XXXX	X					X	XX	X	XX	X	X			X	X				X		X	X	X
COZ		X				X	X					X	X		XXXX	X		X	X		X	X			X		XX		XXX		
CPD	X	X		XX	X	X	XXXX	X	XXXXX					X	X		X	XXXX	X	XX	XX	X	XXX	XXX	X	X		X		X	
CRE		X	X	XXXX	X	X	X	X	X	X	XXXXXXX	XXXX						XX		XX	X	XX	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	XXXXX	XXXXX	XXXXX	
CRM		X		XX							X		XX	X				XXX				XX	X	X		X	X	X			
CRP		XX	XXX	XX	X	XX	X	X	XX	XX		XXXX	XXX	XX	XXX	XXXXX	XX	XXX	XX		XX	XX	X	X	X	XX	X		X	X	X
CRO		X	XXX	X	XX				X			X	XX		XX	X	X	X			X	X	XX	X	XX	XX			X	X	
CRX	XX	XX		X			X	XXX		X								X		X	X	X	XX						X		
CRZF						X	X					X			X	X					X	X	X								X
CSI	X		X	XX	X	X	X	X		XX	XXXXX	X		X	X																
CSS	X	X	X			XX		XX		X		X	X	X	X	X	X	XXX		X	X	XX	X	X	X	XXX	X	X	X		
CSTJ						X	X					X	X		XX	X	X									XX		X			
CTA	X	XXXX	XXX	XXX	X	X	XX	XX		XXXX		XX	X	XXX		XXX	XX	XXX	X	XXXXXX	XXX	XXXXXX		XX	XX		XX		XX		
CTI	X	X	XX	XX	XXXX	X	XX	X	XXX		XXXXXXXXXXXX	XX	XX	X				XX		X	X	XX	X	XXXX	X	X	XXXX	XXXX	XX	X	
CTT	X	X	XXX	XX	XX	XX	X			X	XXXXXX	XXX	X	X	X				X	XX	XXX	XX	X	XX	XX	XXXX	X		X		
CUM			X				X	X	X													XX	X	X							
CUT		XX	XXX	X	X	XX	X	X	XXXX	XX		XXXX	XXX	XX	XXX	XXXXX	XX	X	XXX	X	X	XX	XX	X	X	XX	X	X	XX	X	XX
CVA			X	X	X							XX			X	X	X	X		X	XX			XX					X	X	
CVO						XX	X			X	X	X	X		XXX											XXX	X	XXXX			
CYA	X	XX	X	XXX		XX		X	XXX	X	XX	X	X		X	X			X		XX	XX	X	X		X	X	X	XX	X	
CZI	X	X	X	XXXXXXXXXXXX		X	X			XX	XXXXX			X	X	X															
DAG	X	X	X	XX	X	XX	XXX	X	XXX				X		XXXX	XX	XX	XXXX		XX	XX					X	X	XXXXXX	XXX		
DAU	X	XX	X	XX	XXX	X	X	XX	X	XXXX		XX	X		X	XX		X	XX		XX	X	X	XXXX	X	X	X	X	XX	X	X
DAV	X		XX	X	X	XX	X	X	X	X	X	X	X		XXX			X		X	XX	XXX	X	X	X	X	X	X	X	X	X
DDM		X		X			X	X	X		X	XX		X	X	X	XX	X		X	X	XX	X	X		XX		X	X		
DEG	X	X	XXXX	XX	X		X	X		X	X	XXX		X	X	X		XX													
DEV	X	X	X			XX	X			XX	X	XX								X			XX			XX					
DHLJ						X	X					X	X		X							XX				X	X				
DHR			XX		X		X					XX	X		XX																
DIM		X	X			X	X	X			XXXXXX	X	X	X	XX				XX		X	X	XX		X	X	X				
DIX		X	X	X			X	X	X		X	X	XX	X	XXX		X	X	XX		X	X									
DJE		X															XX	X			X	X	XX								
DL2	X	XX	X		X		XX			X	X	X	X		XX	X		X		X	XX	X	XXXX	X	X				X	X	
DMK	X	X				X			X	X	XX					X		XX		X	X	X		X	X		XX	X			
DMN	XX	X	XXXXXXXX	XXXXXXXX	XX																										
DOG	X	XX	XX	X			X	XX	X	X	X	X	X		X		X	XX		X	X	XX		XX		XXXX	XX	X			
DOT		X				X			X	XX				X	X	XX				X	X	XX	X	X	X	XX		X	X		
DOU	X	X	XXXXXX	X	XX	X	XX	XXX	X	X	XXXX	XXXXXX	X	XX	XXXXXX	XX			XXX	XXX	XXX	XXX	XXXX	XX	XXXXXX	XX			X	X	
DPW		X	XX			XX	X	XX		X	X	X	X		XX											X	X		X		
DRA						X						X	X		X			X	X							XXX		X			
DRV	X	X				X	XX	X		X					XX	X					XX	XXX									
DSI		X	X			X		X	X		X	XXXX		XX	X	XX			X	X		X	X								
DST																						XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX					
DUG	X	XX	X	XX	X	XXX		X	XX	X	XX	XXX	X	X	X	XX	X		X	XX	X	X	XX	X	XX	XX	X	X	X	X	
DUI		X	X	X		XX	X			XX	X	XXXX	X		X			X		X				XXX	X	XXXX	X	X	X		
DVD						XX	X	X	XX	XXXX			X		XX																
DWY		X				X	X				X	X	X	X	X	XX	X			X	XX		XX	X	X	XXX	X	X	XX	XXX	
DZM	XX																														
EBAN	XX	X	X	X	X	X	XX	X	X	X	XXX		XXX		XX			XX	X	X	X	X	X	X		X	X				
EBR		X	X	X		X	X		X	X	X	X	X	X	X	X		X		X	X	XX	X			X					
ECHE		X	X	X			X	XX	X	X	X	X	XXX		XX			XX		X	X	X	X								
ECO	X	X	XX	XX	XX	XX	X	XXXX	X	X	X	XXXXX	X	X	XX		X		X	XXX	XX	X	X	XXX	XX	X	X	XXXX			
ECOG				X	X	XX	X	X		X			XX		XX			XX		X		X		X	X	X					
ECP			X		XX	XX	X				XX	XX	X		XXX		X				X	X	X	X			X	X			
ECRI		X	X	X	XX		X	X	X	X	X	XX	X	X		XX		X		XX	X	X	XX	X							
EDC	X	XX	X	X	XX	XX	X	X	XXX	X	XXX	XXX	XXXXXX	X	XX	XX	X	XXX	X	XX	X	XXX	XXXXXX	XX	X	XX	XX	XX	XX	XX	
EDM	X	XX	X	X	X	X	XX				XX	XX	X	XX	X	X	XXX		X	X	X	X	X	X	X	XXX					
EDU		X				X	X					X										X				XX					
EHOR	X	X	X	X		XX	X			X		X	X		XX			XX		X	X	X	X			X	X				
EJIF	X	X	XX	X	X	XX	X			X		XXX		XX				XX		X	X	X	X			X	X				
EKA		X	XXXX	X	XXXX	XXX	XX	XX	XX	X	XXXX	XXX	XXX	XX	XXXXXX		X	X	XX		XXX	X	XX	XX	X	XX	XX	X	X	X	
ELC		X	X			X			XXXX	X			X	X	XX			X		X	X	X	X		X	X					
ELL		X	X	X	X	X	X			XXX	XX	XXX	XXX	X	XXX	XX	X	XXXXXX	XXXXXXXXXXXX	XXXXXX					X	XXX	XX	XX	XX	XXX	
EMON	X		X			X				X		X	X		XX			XX		X	X	X	X								
EMS		X				X	X	X		X	X	XX	X	X	XXX		X			X	X	X	X			XX	X	XX	X		
ENIJ	XX	X	X	X		XX	X		X	X	X	XXX		X				XX													
ENN		X	XXXX	X	XXX	X	X	X	X	XXX	XXXXX	XXX	XXX	XXX	XXX	X	X	XX	X	XXX	XXX	XX	X	XX	XX	XX		X	X	XX	
ENR	X	X	X	XX	X	X	X	XXX	X	XX	X	XX	XXX	XXX	XX	X	X	XX	X	XXXXXX	XXXX	X				XXXXXX	XX	X	XXX		
EPF	X		XX	XX	X	X	X	XX	X	X	X	XX	XX	X	XX			XX		X	X	X	X	X	X	X					
EPLA	X	X	X	X	X	X	XX	XX		X		XXXX		XX				XX		X	X	XX	X			X					
EPRU	X		X	X		XX				X		X	X		X			XX				X	X			X					
EROQ		X	X	X		X	X			X	X	X	X		XX			XX				X	X								
ERUA	X		X	X		X	XX			X		X	X		XX			XX		X	X	X	X								
ESEL			X	X			X				X	X	X		X																
ESY		X					X					X																			
ETA			X				X				XX	XX	X		X							X	X	X			X	X			
ETER			X	X			X			X																					

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
EVIA	XX	X	X	X	X	XX	XX	XX	X	X	XX	X	XXX		XX					X	X									X				
EVR	X	X	X	XX	XXXX	XX	X	XXXXXX	XXX	X	XXXX	XXX	XX	XX	XX	XX	X	XXX	X	XX	XXX			X	X	X	XXXX	XX	XXX	X	X			
EVV			X		X	XX	X	XXX					XX							X	X	X	XX	X				XX	X					
EYL			XXX	XX	XXX	X						XX	X	XXX	X	XX	XXXXXXXXXXXX	X	XX											X	X			
EZAM	X					X						X	X							XX		X		X										
EZN	XXXXX	X	X	X	XX	XX	X	XXXXXXXX	XXXX	XXX	XXX	XXXXXX	XX	XX	XXXXXX	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXX			
FAI			X	X		X					X	X	X		X										X					X				
FBA	XX	XXXX	XXXXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
FCH		XXX	X	X	X	X	XXXX	X	XX			XX	X		XXX					X	XXX	X	XX	X	X	XX	XX	X	X		XX	X		
FDF		X	XX		X	X	X	XX	X			XX	X	X	X			X	XXX		X	XX	X	X	X	X	X	X	X		X	X		
FEL			XX		X	XX	X	X	XXX			XX	XX	XX	X	X	X	XX		XXX	X	XX												
FFC	XXXX	XXXX	XX	X	X	X	XX	XX	X	XXXX	XXX	XXX	XXXX	XX	XXXX	XXX	XX	XX	XXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
FHC		X	X	X	X	X	XX	XX				X	XX							X	X	XXX	X	XX	X		XX	X			X	X		
FIN	X		X	X	X	X	XX	X	XXX	X	XX	X	XX	XX	XXX	XX	XX	X		XX	X	X	XXXX	X			X	X	XXX			X		
FIR		X		X	XXX	X	X				X	XXXXX	X	X	XX					X	X	XXX	X	XX	X		X	XX	XX		XX			
FLN	X	XXXX	X	XX	XXXXXXXXXX	XX	X	XXX	X	XXXX	XXXXXXXXXX	XX	XXX	XXXXXX	XX	X	XXX			XXX	XX	XX	XX	XXXX	X	X	XX			X	X			
FNA	X	XX	X		X	X	X	XX	X	XX	XXXXXX	XX	X	XXXXXX	XX	X			X	X	XXXXX	X	X	X	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX		
FORR	XX	XXXXX	XXX	XXXXX	X	XX	XXXXXX	X	XXX	XX	XXXXXX	XXX	XX	XX	XXX	X	X			X	XXXXXX	XXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX		
FRB				X		X		X	XX			X	X		X	X			X	X	X	X	X	XX	X	XX	X	XX	X	X		X		
FRF	X		X	XXXX	X	X		XXX	X	XX	X	XX	X	XXXXXX	XXX	X			XXX		X	XX	XXX	X	XX		XX	XX	XX		X			
FRI		XXX	XX	XXX	XXXXX	X	XX	XX	XX	X	XXXX	XXXXXXXXXX	XX	X	X	XX	XXX			XXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
FUR		X	XX	XX		X	X	X	X		X	X	X	X	XX					X	XX										X	X		
FVI	X	X	XX	XX	XX	X	X	XX	X		XX	XXXXXXXXXXXX	XXXXXX	XX	XXXXXX					X	X	XXX	XX	X	XX	X	X	XXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX		
FVM		X	X	X	X			X	XX	XX	X	X	X	X	XXX	X	X			XXXXX	X	XX	X	X	XX	X	X	X	X	X		X		
GAZ						XX	X	X	XX			X	X		X	XXX	XX	X														X	XX	
GBA	XXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX		
GBTN	X		X		X		XX	X				X	X		X					X	X											X		
GBZT	XXX	XX	X	X	XX	X	X	X	XX	X	X	XX	XXX	X	XXX	XX	X	XX		XX	X	XX	X	XX	XXX	X	X	XXXX	X		XX		XX	
GCC		XX	XX		X	X	XX	XX	X	XX	XX	X	X	X	XXX	X	X			XXX	X	XXXX	X	X	XXX	X		X		XX	XX		XX	
GGP	X			XXXX	XXX	X	XXXX	X	X			X	XX	X	XX	X	X			X	X	X	X	X		X	X		X	X		X		
GHO		XX	XXX	X	X	XX	X	X	XXXX	XX		XXXX	XX	XX	XXX	XXXX	XXXX	XXX	X		XXX	XX	X	X	XX	XX	X	X	XXXX	XX		XX		
GIB			X	XX		X		X			X		X		X					X	X										X	X		
GKN	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX		
GLA	X	XX			X	X	X	X	X	X	X	X	X	X	X	X	X	X		XX	X										X	XX		
GLB		X	XXX	X	XX	X	X	X	X		X	XX		XX	XX	X	X			X	XX	XX		X	XX	XX		X	X	X	X	XX		
GLD	X	XX	X	XX	X		X	XX			X	X	X	XXX						X			X	X	X						X			
GLI	XX	XXX	XX	X	XX	X	X	X	XX		X	XX	XX	XX	XXX	XXX	X	XX	X		XXX	XX	X	X	XX	XX		X	XXX	XX		XX		
GLM	X	X	X		X	X	X	X	X		X	XX		XX	X	X	XX			X	X	XX		X	XX					X	XX			
GMW		XX	X	X	XXX	X	XX		X		X	X	X							XXX	X	XX		X	XX					X				
GOL	XX	XXXX	XX	XXXX	X	X	XXXX	X	XXX	X	X	X	XXX	X	XXX	XXX				XX	X	X	XXXX	X	XX	XXXX	XXX		XX	X		XX	X	
GPA		X	XX	XX		X	X		X		X		X		X					XX	X										X			
GRF	X	XXXXXX		XX	X	X	XX	XX	XXXXXXXXXXXX	X	XX	XX	X	XXX	X	XXX				XXXX	XXX	X	X	XXX		XXX	X	X	X	XX	X	XX		
GRG	X	X	XX		XX		X		XXX	XXXX	X	XXX	XX	X	XXXXXX	XX	X	X	XXX	X	X	XXXX	X	XXX	XX	XXXXXXXXXX	XXX	XXX	X					
GRI							X				X	X	X		X					X											X			
GRR	XX	X	X	XX	XXXXX	XX	XX	X	XXX	XXXXXX	XXX	XXX	XX	XXXXXXXXXXXX	XX	X	XXX			XXX	XX	XX	XX	XXXX	X	X	XX		X	X				
GSC	X	XX	X	XX	XXX	X	X	XX	XXX	X	X	XX	X	XXX	XXXX	X	X	XXX		X	X	X	XXXX	XXXX	X	XX		X	XX	X				
GTA	X	X	XX	XXX	XXX	XXXXXX	XX	XX	XX	XXXXXX	XXX	XXXXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX				XX	XXXXXXXXXXXX	XX	XXX	X	XX	XX	X		XXXX	X				
GUA	XX	XXX	XX	XXXXXX	XXXXXXXXXXXX	XX	X	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X				X	XXXX	XXX								X	X	XX		
GUAC		X		X		X	X				X				X	X	X					X	X	X										
GUD	X	X	X	XX	XX	X	XX	XX	X		X	X	XX	X	XXX	X	X	XX			X	X	XX	X	X		X						X	
GUMO	XX	XXXX	XXX	XXXXXX	XXXXXXXXXX	X	XX	X	XXX	XXX	XXXXXXXXXXXX	X	X	X	X	XXXX				XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
GUN	XX	X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
GVA	X	X	XX	XXXX	XXXX	XX	XX	XX	XX	X	XXXX	XXX	XXXX	XXXX	XXXX	X	XXX			XXX	XXXX	XXXXXX	XX	XXX	X	X	XX	X		XXXX	X			
GZH	X		X	X	X	XX	X	X			X	X	X		X					XX			XXX								X			
GZR																																		
HAU	X	XXX	XXXXX	XXXX	X	X	XX		XXX	X	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXX	XXX	XXX				XXXXX	XX	XX	X	XXX	X	XXXX	XX	X	XXX	X				
HBVT							X					X	X	XX	X					X	X	XX	X	X										
HBZ	X	X	XX		X		X	X	X		X		X	XX						X	X	X	XX		X		XX		X	XX	X	X		
HCY		X	X	X		X		X			X	XXXX	X	XXX		X												XXXX	XXX	X	X			
HDA		X	XXX		XX		X	X	X		X	XX	X	X	X	XX	XX				X	X	XX	X	X	X	XX		X	X	XX			
HFS	X	XX			XXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
HHC	X	X	XX	XXX	XXXX	X	X	XX	XX	X	XXX	XXX	X	XX	X	XX	XX			XX	X	X	XXXX	XX	X	X	X	XX	X		XXX	X		
HIA						X						X	X							X														
HIN			X	X	X							XX		X	X	X	X			X		XX		XX							X			
HKC			X	X		X	X					X	X	X		X				X			X	X					X	X	X		X	
HLW	X	X	XX	X		X					X	X	XX	X	X					X			X	X	X									
HMT				X	X	X						XX		X	X	X	X			X		XX									X	X		
HNR	XXXX	XX	X	XX	X	X	XXXXXX	XXX	X	X	X	XXXXXXXXXX	XXX																					

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KUK	X		X	XX	X		X	X		X		XX	X	XX					X		X		XXX	X									
KUMJ		XX			X	X	X	X			X		X	X	X					X	X	X	XX						X				
KUPT	X	XX		XX	X	XXXXXXX	XXX	XX	X	X									X	X	X				X	XX	X			XX			
KUSJ			X			X					X		X	X	X		X	XX			X	X	X						X	X			
KVN	XX	XX	X		X	XX	X	X					X		X					X	X		X	X	X	X	X		X	X			
KVT	X	XX	X		X	X	X	X	X	X	XX	X			X						X		X		X	XX	X		X				
KZN	X	X	XX	XX	XX	X	XXX	X	X	XXXX	XXX	X	XX	X	XXX	XX	X	XX		XX	X	XX	XX	XX	X	X	X	XX	X	X	X		
LAT	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
LBF	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
LBFM	X	XX	XXXX	X		X	XX	X	XX	X	X	XXXX	X	X	XXXX		X	X		X	X	XX	X	X	X	XX	XX	X	X	X	X		
LCCH		XXXX		X	X	X		XX		X				X		XXXX		X	X		X	XX	X	X	X		X						
LCI	X	X	X	XX	X	XX	X	X		X	X	X	XXX	X	X	X			X	X	XX		X	X		X	XX				X		
LDF	XXXX	X	XX	XXXX	XX	XX	XX	XXX	XXXXXX	XXX	XXX	XX	XXX	XXXXXX	XX	X	XXX		XXX	XX	XX	XX	XX	XX	X	X	XX			X			
LEGH		X		X		X		X				X	X	X	X					X			X	XX	X		X						
LFF	X	XX	X	XXX	XXX	X	XXXX	XXX	XX	X	XX	XX	XXXXXX	XX	X	XXXXXX	X	X	XXXX		X	X	X	XX	XX	XX	X	XXX			X		
LHS	X				X		X	X	X	X			X	XX		X	XX			X	XX	X	X	X	X	X		X					
LIC	X	X	XXX	XXX	X	XXX	XXXXXX	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X		XXX	XXX	XXXX	X	XXXX	X	X	XX	X		XXXXXX	XX		
LISJ					X	X					X	X	X		X								X				X						
LIT	X	XX	XX		XX	X	X		XX	XXXX	XXXXXX	XX	X	XXXXXX		XX	X		XXX	X	X	XXXXXX	X	XX	X		XXXXXX	XXXXXX	XXXXXX	XXXXXX	X		
LJU		XX	X		XX	X	X	X	X	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		XXX	XXXXXX	XX	XX	X	XX	X		XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X		
LKO		XX	X	XXX	XXXXXX	XXXXXX	XXXXXX				X	XX	XXXXXX	XX		X		X	XX	XXXXXX		X	XX	X	XX	XX					XX	XX	
LLA	XX	XX	XXX	XXX	X	XX	XX	XX	X	X	XX	X	X	XXXX	X	X	X	XX	XXX		XXX	X	XXXX	XXXX	XXX			X	X	XXX	XX		
LLS	X		X	X		X	X	X			X	XX	X	XX	X	XX		X	XX		X	X	X	X		XX	XX		XX	X			
LMR	X		X	XX	X	X	X	XXX	X	XX		XX	X	XXXXXX	XXX	X		XXX		X	XX	XXX	X	XX			XX	XX	X				
LNJ		XXXX			X	X	XXXXXX	X			X	X	X	XX	XXXX		XXX	X		XX	X	XX	X	X	X	X	X	XX	X	X	XX	X	
LOE	X	X	X	XX		X	XX	X	XX		X	X	X	XX		XXX		X			X		XXXX				X	X			XX		
LOF		X				XX			X	X	XXX	XX	X	XX		XX			X		X	X	X					X			XX		
LON		XX	X	X		X	X	XX			XX	X	X	X	XX		X	X	X		XXX	X	XX	X	X		XX			X			
LOR	X	XXXXXX	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
LPB	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
LPF	X	X	XX	X	XXX	XXXX	XXX	XX	XXX	XXX	XXX	XXX	XXX	XXXXXX	XX	X	XXX		XXX	XX	XX	X	XXXX	X		XX	X		X	XX			
LPG	X	XX		XX	XXXXXX	XX	XX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXX	X	XXXXXX	X	XXX	XX	XXXX	XX	X		XX	XXXXXX	X				
LPL	X	XX		XX	X	XXXXXX	XX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXX	XXX		XX	XX	X	XXX	X	XX		XX	XX	XXX	X			
LPO	X	X		X	XXX	XXXX	XX	XXX	XX	X	XX	XX	X	XX	XX	X	XXXX	X	X	XXXX		X	XXXX										
LPR		X	XX	X		XXX	X	XXXXXX					XX	X		X	XXXX		XX	XXXX	X	X	XXX	X		X							
LRG	X		X	XX	X	X	X	XX		XX	XX	X	XX	XXXXXX	XXX		XX			X	XX	XXX	X	XX		XX	X	X		X			
LRM	XX	X	XXXX	XX	XXXX	X	X	XX	XX	X	XXXX	XX	XXXX	XXXXXX	XXXXXX	X	X	XXXX		XX	X		X	XX	X	X	X	XXXX	X		X		
LSA	X		X	XXXX	X	X	XX	XX	X	XX	X	XXXX	XXX	X	XX	X	X	XX		XX	X	XXX	XXX	XX	XX	X	X	XX	X		XXXX	X	
LSD		X	X	X		XX			X	X	X	XX	XX	XXXX	X	XX	X		XX		X	X	X				X			XXX	XX		
LSF	X	XX	XX	XXXX	X	XXXX	XXXXXX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXXX		XXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	X	XXX			XX	X	X		
LSK		XX		X	X	X		XXX											XX	XX			X		XXX	X							
LTCM		X	X	X	X	X					X											X	X	X	X		X						
LTJ	XX	XX	XX	X	XX	X	X		X		XXXXXX	XX	XX	XXX	X	XX	X	X	X	X	XX	XX	X	X	XX		XX		XX	X			
LTZ	XXX	XX	XXX	X	X	X	XX	X		X		XX		X		XXXX	X				XXX	XXX	X					X	XX	X			
LVVM	XX			X	X	XX	X	XXX	X					X				X		X		X	X	XX				X					
LWI	X	XXX	XX		X	X	X	XXX	X		XXXX	X	X	X	XX		X	XXX		XX			X	XX	X	X		XX	X	X			
LZH	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
MAF	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	XX	XXXX		XXX	XXXX	XX	XX	X	X	X	X	X	X	X	X	XXX	X	
MAIO	XX	X	XXX	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXX	X	X	XXXX	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
MAL		XXX	XXX	X	X	X	X	X	X	X	X	X	X	X	XXX	X	X	XX	X	XX													
MAO					X	X		X		X	X	X		X		X										X							
MASJ					X	X		X		X	X	X		X		X									X		X	X					
MAT	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
MAW	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	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
MBH	XX	X	XXX	XX	XXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
MBL	XX	XXXX	XXX	XXXXXX	XXXX	XX	XXXXXX	XXXXXX	XXXX	XX	XXXX	XXXXXX	XXXX	XX	XX	XX	X	X	XXXXXX	XX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
MBO		X	X		X	X		X		X	X	X	X	X	X		X																
MBU	X	X	X		X	X		X		XXX	XX	XX		X	X		X			X	X	X	X			XX							
MCK		X	XX		XX	X	X	X	X		X	XX	X	X	X	X	XX	X	XX		X	X	XX			XX		X	X	X	X		
MCNL		X	X	XX	X	X	X	X	X	X	XX	X	X	X	X	XX	X	XX		X	X	X	X	X	X	XXX	X		X	X			
MCO	X		XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X								
MCW		X	X			X		X		X		X		X								X		X		X							
MDI	X	X	X	XX	XX	X	X	X	XXX	X	XX	X	XXXX	XX	XX	XXXX		X	X		X	XXX	X	X	XX	X	XXXX	XX	XXX				
MDJ	X	X	XX	XX	XXXX	X	XX	XX		XX	XX	XXX	XX	X	XXXXXX		XX	XX		XXXX	X	X	XXX	XX	XXX	X	XX	X	XXXX	X			
MDM		X	XX		XX	X	X	X	XX	X		X	XX		XXX	X	X	XX	X		X	X	XX	X	X		XX		X	X	XX		
MDSJ					X	X					X	X	X		X		X										X		X				
MDZ	X	XXXXXXXXXX	XX	X	X	XXXX		XX	XX	X		X				XX	X	XXX	X	X	XXX	XXX	XX	X	X	X	X	X	X	X	XX		
MEKA	X	X		XX		X	XX	X	XXXX	X	X			X	X	X	XX	X	X		X												

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RIY						X						X	XXXXX		XX			X		X			XX			XXXXXXXXX	XXX	X				
RJF		XX	XX	X	XXX	X	XXXX	XXX	XXX	X	XX	XXX	XXX	XX	X	XXX	X		XXX		X	X	X	XX	XXX	XX	X	X		X		
RKG	X	X	X	XX		XX	X	XX		X		X		X	X						X		X	X	X		X		X	X		
RKT		X				X	X	X				X											X	X	X		X		X	X		
RMN		X				X						X			X								XX	X	XX	X		X		XX		
RMP	X	X	X	X	X	X	X	XX	X		X	XX	X	XX	X	XXX	X	X	XX		XX	X	X	X		X	XX	XX	XX	XXX		
RMO	XXXX	XX	XX	XXX	X	XX	XX	XX	XX	XXXX	X	XXXX	X	XX	XX	X	X	XXXX		XX	XXX	X	XXX	X	XXXX		XX	XX	X	XX	X	
RMW		XX	X	X		XX	X		X			X	X	X		X		X				XXX	X	X		X		X				
RND		X	XX		XX	X	X	XX	X			XXXX	XX	XXX	XXXXX	XX	X	XXX	X		X	X	X	X	X		X	XX	X	XXX	XX	
ROB	X	X	X	X	X	X	XX	X	XXX	X	XX	X	XX	XX	XX	XX	X		XX		X	X	XX	XXX	X	X		XX	XXXX	XXXX	XXX	
ROCH		XX	X	X	XX	X		XXXX	X	X	XX		XX	X		XX	XXXX			X		X	XX	X	X	X		X	X	X	X	
RQ1		X		X	X	X		X	X		XX		XXXX	X	X	X												X	X	X	X	
RRL	X		X	XX	X		XX	X	X	X	X	XX	XX	XXX	XX	XX			XX		X	X	X	XX	X		X	X	XXX	XX		
RS2		XX	XXX	XX	X	XX	X	XX	XX	XX		XXX	XXX	XX	XX	XXX	X	XX	X	X	X	X	X	X		XX		XXX	XXX	XXX		
RSCP					X		X	XX				X	X		XXX							X	X	X	XX	X		X				
RSM												X	X	X	X			X				XX	X		XXX		XX					
RSNY			X			X		X				X			XXXX			X			X	X	X	XX	X	X		XX				
RSO		XX	XXX	XX	X	XX	X	XX	XX			XXX	XXXX	XX	XX	XXX	X	XX	X	X	X	X	XX	X	X		XX	X		XXXX	XXX	
RSP		X	X	X		X	X	X	X	X	X	XX	XX	XXX	X	XX			XX		X	X	X	XXX		X	X	X	X	XX		
RSSD															XXX	X	XXX	XXX			XXXX	X	XXXX	X	X	X	X	X				
RTBS		XXXX	X	XX		XX	XX		X	X	X		XXXX	XX		XXX	X	X	XX	X	XXXX		XX	X			X		X		X	
RTCB		XXXX	X	XX		XX	XX	XXX	XXXX	X		XXXXXXXXXXXX	XXX	X	XXX	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX									X	XX		X	XX	
RTCV		XXXX	X				XXX	X	X	X		XXX	XXX	XX		XX	XX	X	X	XX				XX	XX	X		X			XX	
RTLL		XXXX	X	XX		XX	XX	XXXX	X	X		XXX	XXXX	XX		XXX	X	XX	X	XXXX				XX	XX	X		X			XX	
RTRS		XXXX	X	X		XX	X	XXXX	X	X		XXX	XX	X	XX		XXX	X	XX	X	XXXX					X		X			XX	
RUV		X	X	X	X		X	X	X		X		X		X						X	X	XX	X	X		X		X	X	X	
RVR		X	X	X		X	X	XX	XXX	X			XX	XX		X	XXX			X	XX	X	XX	X	X	X	XX		X	XX	X	
RYD			XX		X	X	X				X	XX	X		XX			X				X									XX	
RZN			X	X	X		X	X	X			XXXXXX	XXX	XX		XX			XXX		X	XX	XXXX	X	XXX	X		XXX	X		XXX	
SAL	X	X	X	X	XXX	X	XX	X	X			XX	XXXXX	X	XX			X			X	XX	XX	X	XXX		X	XX	X	X	X	
SALJ						X	X					X	X		X								X				X	X	X			
SAN		XX	X	X	XX	X	X	XXX	X	X	X		X		X		XXX		X	X		X	XX	X	X		X		X	X	X	
SAO		XX	X	XX	X	X	X	XX	XX	X		XX	X	X	XX		XX	XX	XX		XXX	X		XX	XXX	XXX	X	X		X	XX	XX
SAX		X		X		X		X	X			X	X	XX	X	XX		X	XX		X		X	X			XX	XX	XX	X		
SBA	X	X	X	XX	X	XX	X	X	XXXXX		XX		XX	X	X	XXX		X	X		X		X	X	X	X		XX		X	X	X
SBB	X	XX	X	XX	XX		X	XX	XXX	X	X	XX	X	XXX	XXXX	XX	XX	XXX		X	X	X	XXX	XXX	X	X		XX		X	XX	X
SBF	X		XX	X	XX	X	X	X	XXX	X	XXX	X	XX	XX	XXXXXX	XXX	X	XX		X		XXX	X	XX			XX	XX	XX	X		
SCH		XXX	X	X		X	X	XX	X	X		XX	X	XX	X		XX				X	XX	X	X	X	X	X	XX		X	X	X
SCM		X	XXX	X	X	XX	X	X	X	X		X	XX	X	X	XXX	XXXXXX	XX	X	X		X	XXX	XX		X	XX		X	XXX	XX	
SCX		XXXXX			X		X	XXXX	XX			X			X	X	X			X							X		XX	X		
SDA			X		X			X		X	X		X	X							XX	XX		X			XX	X	X		X	
SDG		X	XX	X	XX	X	X	X	XX			X	XX	X		XXX	XXXXX	XX	X	X		X	X	X	X		XX		X	X	XX	
SDI	X	X	X	X	X	XXX	XXX	XX	X	X	X	XXXX	XXXXXX	X	XX		X	X	XX		XX	X	X	XXXXXXXX	XX	XXXXXXXXXXXXXXXXXX	XX				XX	
SDN	X	X		XX	X	X	X	XX				X	XXX		X		X				X	X	XXX	X	X	X	XX		X			
SDV	X				X			X				X	XX		X		X	X	X		X	X		X	X		X		X			
SEG	XX	XXX	XX		X	X	X	X		XX		X	X		X	X	XX	X	XX		X	XX	XXX	X	X		XX	X	XXXX	XX	X	
SEK	XX	XXXXX	X	X		X	XX	X		X	X	XX	XX	X																		
SES	XX	XX	X	X	XXXX	X	X	X	XX	XX	X				XX	XX	X	X	XX	X	XXX	X	X	XXXX	X	XX	XXX		X	XX	XX	
SEW		XX	XXX	XX	X	XX	X	X	XX			XXXXXX	X	XX	XX	XXX	X	XX	X	X	X	X	XX	XX	X	X	XX		XXX	X	X	XXXX
SFG	X			XX			X								X		X	XX					X				X	X	X			
SFI	X	X	X	XXXXXXXX	X	X	XXX	X	X	X	X	X	XXXXXXXXXXXX	X	XX		X	XXX		X	XX	XXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX							
SGAM			X	X	X							XX		X	X	X	X				X	XX		X	XX		X		X			
SGE			X		X							XX	XXX	XX		X	XX		X	XX		X	X	X	XX	XX		X			X	
SGO		X	X	XX	X	X	XX	X			X	XXX	XXXXX	X	XX	X	X		X		X		X					X				
SHGH			X	X	X		X	X	X			X	XX	X	X						X			XX	XX		X					
SHI	X	X	X	XXX	X	XX		X	X	XXXXXX	XXXXXXXX	XXXX	XX		XXX	XX	X	XX		X	XX	XXXX	XX	X	X	XX	X	XXXXXX		X	XXXX	XX
SHK	X				X		X					X	X		X						X		X									
SHL																																
SHNJ		X			X	X	X				X	X		X													XXXXX		XXX		X	XX
SIT		X		X	X	X	X					XXX	X		X		X				X	X		X			X	XX				
SIV	XXXXXXXX	XXXXXXXX	XXX		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
SJG		X			X		X	X	XX					X	X		XX		X		X	X	XX	XX		X		X				
SKO		XX	XXX	XX	X	XX	XXX	XX	X	XX	XXX	XXXXXXXXXXXXXXXXXXXX	XXX		X	X	XXXX	XXXXXX	XXXXXX	XXX		X	XXXXXXXX	XXXXXXXX	XXX	X	XXXXXXXX	XXXXXXXX	X	X		
SKT		XX	XXX	X	X	XX	X	X	XXXX	XX		XXXX	XXX	XX	XXX	XXXX	XXXX	XXX	XX		X	XXX	XX	X	X	XX		XX	X	X	XXX	XX
SLB															X						X		XX	X	X							
SLE		X		X	X		X	X	X			X	XX	X	X	XX		X			X		X	X	X	X		XX	XX		XX	X
SLKM		XX	XXX	XX	X	XX	X	X	XX	XXX	XX		XXXXXXXX	XX	XXX	XXXX	XXX	X	X	X		X	XXX	XX	X	XX		XXX	X	X	XXX	XXX
SLL						X						X	X		X	X					XX		XX		X	X	X					
SLR	X	XXXXXXXX	X	X	X	X	XXX	XX	X	XXX	XXXXXXXX	X	X	XX	X	X		X			XXX	X	XX	XXX	X	X	XX	X	X	X	X	X
SMF	X	X	XXXX	XXXX	XXXXXX	XXXXXX	X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
SMG			X		X		X		X	X	X		XX	X	X	X		XXXXXX	X	XX	XX		X	X	X		XX	X	X		X	
SML		XX	XXX		X	XX	X	X	XXX	XX				X		X					X		X				X	XX		X	X	
SMY	X		X		X	X	X	X			X		X	X		X					X	X	X				X					
SNF		X		X		X	X	X			XXX	XXXXXXXX	X	XXX	XX		XX		XX		XX	XXX	X	X	XXXX	X	XX					
SNG																																

[illegible]

The following stations each reported less than 10 readings:

A AE	ABHA	ACI	ACO	ACTN	ACU	ADH	AFAR	AGO	AHA	AIN	AKRL	ALJ	ALPW	AMAN	ANCC	ANGW	ANTO
APA	APM	APW	ARO	ASR	ATA	ATE	ATZ	AURF	AUTN	AVOW	BAC	BAI	BBG	BBS	BCPM	BCS	BDF
BDNM	BEAW	BEE	BENN	BGG	BGM	BGMT	BHT	BIX	BJA	BKR	BLH	BLN	BSL1	BNMN	BMTN	BNH	BNM
BOH	BOT	BRBC	BRD	BRN	BRVW	BST	BTG	BUGC	BURJ	BUT	BYW	CALA	CALN	CAO	CAR	CBD	CBSW
CCM	CCVA	CDWF	CDM	CEI	CFS	CFTV	CGL	CGX	CHIE	CHOI	CIS	CIW	CLI	CLMC	CMW	CNIL	CNZ
COL	COLW	COR	COW	CPB	CPE	CPH	CPK	CPW	CRF	CRNM	CROR	CSIL	CTAO	CTCR	CTFE	CUMC	CVD
CVT	CZM	DAF	DAH	DBN	DES	DHJN	DHW2	DIAC	DLA	DLB	DON	DRC	DRTN	DSH	DWM	EAB	EALH
EAU	EBG	EBH	EBI	EBL	EBZ	ECB	ECO	ECH	EDI	EDR	ELF	ELO	EMEL	EMM	EPA	EPH	ERC
ERK	ESCF	ESD	ESK	ESR	ETT	ETW	FAM	FISA	FKO	FL2	FMW	FOO	FRR	FRU	FUO	FYU	GBL
GBR	GDH	GFM	GGC	GHW	GHZJ	GIBL	GIN	GLH	GLK	GMG	GMO	GMTN	GRAI	GRC	GRC1	GRFO	GROR
GRO	GRT	GRW	GSH	GSM	GT2	GUAN	GULW	GWf	HAT1	HAT2	HAYW	HBF	HBH	HBMt	HBO	HCR	HDC2
HDW	HIL	HITZ	HLBJ	HLD	HLP	HMH	HOBC	HOGG	HON	HOQC	HOR	HP1	HPU	HON	HRV	HRy	HSR
HTC	HTW	HUH	HUTZ	HVD	HWD	IJA	IKP	ILT	IRK	IRZ2	ISSF	ITB	ITB1	IVS	JAU	JBO	JCW
JHP	JKL	JOZ	JTS	JUD	KAE	KBR	KBT	KETZ	KFH	KFNJ	KHU	KIH	KIP	KMOR	KMTA	KNH	KOE
KOH	KONO	KOSW	KPO	KRO	KSU	KTD	KUH	KUR	LAC1	LAZ	LBL	LCCM	LCL	LDMO	LDN	LFU	LGAR
LHE	LIJA	LIS	LLAV	LMW	LNOR	LOCW	LOHW	LOMF	LPA	LPM	LRDO	LRS	LSZ	LTMT	LVI	LVNJ	LVP
MADF	MAJO	MBW	MCMT	MCO	MCT	MDN	MDW	MEMT	MEW	MFTN	MGS	MHZ	MILT	MIM	MKA	MKL	MKS
MLH	MLX	MMN	MMU	MNA	MNB	MOF	MOH	MOMI	MOOW	MOZ	MPOR	MS1	MSO	MTNW	MTT	MUB	MUDI
MVH	MVIF	MWH	MXC	MZP	MZX	NA2	NAC	NAO	NAV	NBO	NCM	NDE	NLO	NLW	NMMO	NPH	NRI
NRMS	OBG	OBH	OBN	OBO	OCM	OCO	OD2	OFK	OGE	OGTN	OHTN	OHW	ONR	OOW	OPA	ORO	OSD
OSG	QTR	OTT	OUT	PACW	PAF	PATW	PDA	PEM	PET	PFO	PGO	PGW	PICO	PIG	PINI	PKEM	PKNC
PLAT	PLAY	PLDF	PLH	PLL	PLVA	PNL	POA2	POH	PPL	PRW	PTCR	PTO	PTS	PTT	PUH	PUK	PUL
PURC	PV03	PV04	PV05	PV07	PV10	PVPS	PWH	PYM	PZ1	QCS	OPS	QTBj	QTRJ	QZA	RAC	RAMW	RAR
RATZ	RBNC	RC1	RCG	REDW	REMR	REMW	REVF	REY	RICH	RIM	RIN3	RIV	RLO	RPS	RRO	RSW	RUP
RVC	RVW	SALC	SAOF	SAP	SAW	SBM	SCE	SCI	SCP	SCY	SEA	SFTN	SGH	SGS	SHBJ	SHMJ	SHW

[illegible]