UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

MAY 1990

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

Open-File Report 90-605

1990

1USGS, Denver, Colorado

EDR No. 5-90
Part 1 of 1
P. 1-188

U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

The error bars of the computed hypocentral coordinates are 90% marginal confidence intervals incorporating Baysian 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 $20° \leq \Delta \leq 160°$, 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 $\Delta \leq 5°$. 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 (°) appears as "`". Also note that certain phase codes are abbreviated because the data base and file format limit the length of the codes to five characters. Thus, PKP is occasionally abbreviated to P′ and the numbers 2 and 3 are sometimes used to represent the AB (AC for SKKS) and BC branches of core phases, respectively. In some codes, R is used to represent repetition; for example, pRPKP represents the phase pPKPPKP and RRPG represents PgPgPg.

References

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

Choy, George L. and P. G. Richards (1975), Pulse Distortion and Hilbert Transformation in Multiply Reflected and Refracted Body Waves, *Bull. Seis. Soc. Am.*, **65**, pp. 55–70.

Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1–15.

Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.

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.

? MAY 01, 1990 00h 07m 02.64± 1.79s
50.990 N ±30.0km 169.472 W ±11.9km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
ALEUTIAN ISLANDS REGION (16)

ADK	4.60	284 (P)	08	10.80	-0.8
IMA	17.13	22 e(P)	10	59.50	-1.4
INK	24.55	32 eP	12	21.00	1.0
YKA	31.21	47 eP	13	19.50	-1.1
	0.8s	0.80nm		3.6mb	X
MBC	31.85	20 eP	13	27.00	0.9
SES	36.18	67 eP	14	03.00	-0.7
SOD	61.34	353 eP	17	37.00	20.2X
SUF	65.96	352 eP	17	47.00	-0.1
NUR	68.27	353 eP	18	03.00	1.3
NB2	68.32	360 P	18	02.20	0.1
	0.6s	1.90nm		4.4mb	
HFS	69.20	358 eP	18	07.10	-0.3
	0.6s	5.80nm		4.8mb	
EKA	73.43	8 P	18	34.00	1.1
	1.9s	29.60nm		5.0mb	
S.D. = 1.1 on 11 of 12 obs.					

? MAY 01, 1990 00h 08m 28.59± 0.88s
54.880 S ±23.9km 129.536 W ±16.0km
DEPTH = 10.0km (geophysicist)
5.2mb (3 obs.) 5.1Msz (1 obs.)
SOUTH PACIFIC CORDILLERA (691)

SPA	35.30	180 iPc	15	25.60	0.2
	1.0s	20.50nm		5.0mb	
TACH	45.47	87 eP	16	49.00	-0.4
SAN	45.77	87 eP	16	52.00	0.2
PEL	45.98	87 iPc	16	54.00	0.5
	0.8s	33.58nm		5.4mb	
FCH	46.08	87 eP	16	55.00	0.4
LPB	60.28	76 eP	18	41.00	1.0
	Z 20s	1.42um		5.1Msz	
		eLR	34	34.00	
ZOBO	60.47	76 P	18	41.00	-0.5
	1.2s	21.96nm		5.2mb	
	Z 24s	0.50um		4.6MszX	
		LR	34	24.00	
CCH	60.70	78 P	18	43.00	0.3
SIV	64.69	82 Pd	19	07.40	-1.5
WB5	77.40	254 eP	20	25.00	-0.3
PDCR	80.10	98 eP	20	39.20	-0.9
YKA	117.62	8 ePKP	27	21.30	6.4X
	0.4s	0.10nm			
BCAO	123.48	141 ePKPd	27	37.10	9.5X
	0.4s	3.00nm			
EPF	145.75	89 ePKP	28	09.20	1.1
	0.8s	6.70nm			
DAG	147.28	23 ePKP	28	14.00	4.5X
MFF	147.56	83 ePKP	28	14.00	3.2X
	0.8s	5.35nm			
RJF	147.78	87 ePKP	28	14.20	2.9X
	0.8s	5.35nm			
CAF	147.88	88 ePKP	28	15.00	3.5X
	0.8s	4.05nm			
LSF	148.33	85 ePKP	28	15.70	3.6X
	1.0s	6.00nm			
TCF	148.74	86 ePKP	28	16.70	3.9X
	1.0s	6.00nm			
BGF	149.26	86 ePKP	28	18.20	4.6X
	0.8s	7.40nm			
AVF	149.68	86 ePKP	28	19.00	4.9X
	0.8s	3.35nm			
SMF	149.88	86 ePKP	28	19.60	5.1X
	1.0s	6.00nm			
EKA	149.95	67 PKPc	28	19.80	5.5X
	1.0s	8.20nm			
LBF	150.14	86 ePKP	28	20.00	5.1X
	1.0s	6.00nm			
LOR	150.23	85 ePKP	28	20.20	5.2X
	1.0s	9.00nm			
LPL	150.92	90 ePKP	28	23.90	7.5X
	0.8s	2.70nm			
LPG	150.92	90 ePKP	28	24.00	7.5X
	0.8s	4.70nm			
CKI	151.18	94 PKP	28	22.50	6.0X
BOB	152.05	94 PKP	28	36.00	18.1X
DOU	152.06	81 PKP	28	36.00	18.4X
BSF	152.21	86 ePKP	28	25.20	7.1X
	0.8s	5.35nm			
VAI	152.29	92 PKP	28	24.50	6.5X
MDI	152.79	92 PKP	28	30.00	11.3X
MEM	153.10	81 PKP	28	29.80	10.8X
CTI	154.06	94 PKP	28	26.50	5.8X
CLL	157.41	84 ePKP	28	42.00	17.2X
S.D. = 0.8 on 12 of 37 obs.					

* MAY 01, 1990 01h 12m 33.73± 0.90s
36.257 N ±12.8km 27.186 E ± 6.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

SMG	1.48	349 ePn	13	00.00	-0.3
CIN	1.52	28 eP	13	01.00	0.0
APE	1.56	302 ePn	13	02.00	0.4
KSL	1.94	93 ePn	13	06.80	-0.3
ELL	2.25	77 ePn	13	12.00	0.3
VAM	2.57	252 ePn	13	16.50	0.4
KHL	2.78	41 ePn	13	23.00	3.8X
BCK	2.98	65 ePn	13	27.00	5.0X
VLI	3.45	279 ePn	13	26.50	-2.1
ITM	4.32	284 ePn	13	42.50	1.5
S.D. = 1.2 on 8 of 10 obs.					

% MAY 01, 1990 02h 08m 19.96± 0.86s
43.214 N ± 6.6km 11.042 E ± 8.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PII	0.63	324 P	08	32.70	0.1
		eSg	08	40.00	
CRE	0.78	58 P	08	35.30	0.0
		eSg	08	49.40	
MAO	0.80	174 Pd	08	35.50	0.0
		eSg	08	46.60	
PGD	0.83	37 P	08	36.00	0.0
		eSg	08	50.00	
BDI	0.91	339 P	08	37.30	-0.1
		eSg	08	50.50	
S.D. = 0.1 on 5 of 5 obs.					

MAY 01, 1990 04h 07m 21.27± 0.52s
40.814 N ± 5.1km 23.880 E ± 4.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.1 (THE), 2.7 (SKO).

SRS	0.37	324 ePg	07	28.10	-0.8
		eSg	07	32.60	
SOH	0.40	271 ePgc	07	29.00	-0.5
		eSg	07	34.50	
DUR	0.49	171 ePgc	07	31.00	-0.1
THE	0.72	256 ePgc	07	35.30	-0.1
		eSg	07	44.90	
KNT	0.82	295 ePg	07	38.50	1.3
		eSg	07	50.50	
PAIG	0.90	190 ePgc	07	38.30	-0.2
		eSg	07	50.90	
VAY	1.11	298 iPg	07	42.30	0.2
		iSg	07	57.50	
GRG	1.13	278 ePg	07	42.30	-0.2
		eSg	07	57.30	
LIT	1.28	237 ePb	07	44.30	-0.7
		eSb	08	03.50	
RDO	1.30	75 ePb	07	44.50	-0.8
		eSb	08	03.00	
NEO	1.59	199 ePn	07	48.50	-1.0
ALN	1.64	86 ePn	07	49.70	-0.6
		eSn	08	13.00	
EZN	2.11	117 eP	07	59.50	2.4
SKO	2.17	303 ePn	07	59.30	1.3
OHR	2.35	278 ePn	08	01.50	0.9
CMP	4.53	10 ePc	09	21.00	49.5X
MLR	4.91	17 eP	08	50.00	13.0X
BZS	5.08	342 ePc	08	38.00	-1.2
S.D. = 1.1 on 16 of 18 obs.					

& MAY 01, 1990 04h 43m 05.00s
38.842 N 122.805 W
DEPTH = 2.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.2 (BRK).
Mo=3.1*10**14 Nm (BRK).

NWRM	0.39	190 eP	43	13.00	0.2
ZSP	0.99	154 iPd	43	23.90	-0.7
		iS	43	39.70	
BRK	1.06	156 ePd	43	24.30	-1.4
BKS	1.06	155 iPd	43	24.50	-1.3
		iS	43	41.00	
ORV	1.24	54 ePc	43	26.80	-2.0
PCC	1.38	166 ePd	43	29.00	-2.2
LTCM	1.46	21 eP	43	31.00	-1.4
WDC	1.75	7 e(P)	43	33.00	-3.5
		e	43	37.40	
MHC	1.76	148 eP	43	34.80	-2.0
		i	43	41.40	
MIN	1.76	31 eP	43	35.20	-1.7
ARN	1.80	146 eP	43	35.80	-1.5
GCC	1.92	160 ePc	43	37.20	-1.8
CMB	2.06	112 ePc	43	39.80	-1.4
LLA	2.67	146 e(P)	43	46.80	-3.0
PRS	2.75	155 ePd	43	48.50	-2.5
FRI	3.07	126 ePd	43	54.20	-1.2
PRI	3.19	147 e(P)	43	58.50	1.3
KVN	3.67	85 eP	44	02.20	-2.1
TNP	4.45	98 eP	44	15.00	-0.3
ISA	4.69	131 eP	44	18.00	-0.6
SBB	5.76	135 eP	44	30.00	-3.7
GSC	5.96	125 eP	44	53.00	16.5
MWC	5.99	139 eP	44	37.00	0.0
PAS	5.99	140 eP	44	37.00	0.2
RVR	6.52	136 eP	44	37.00	-7.4
TPC	7.21	129 eP	44	51.00	-3.0
26 obs. ossociated					

* MAY 01, 1990 05h 26m 13.87± 1.17s
52.226 N ±18.0km 168.512 W ±12.1km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	5.06	269 eP	27	28.90	-0.4
SDN	5.68	54 eP	27	32.00	-6.1X
TTA	12.62	27 eP	29	13.20	-0.6
IMA	15.76	23 eP	29	55.30	0.5
FBA	16.56	32 eP	30	01.20	-3.6X
INK	23.18	33 eP	31	12.00	-6.0X
YKA	29.94	49 eP	32	23.80	3.1X
	0.5s	0.40nm		3.5mb	X
MBC	30.48	21 eP	32	24.00	-1.3
	0.5s	2.00nm		4.2mb	
KVN	36.88	91 e(P)	33	21.00	-0.1
DAG	49.85	9 iPd	35	04.90	-0.1
	0.3s	7.79nm		5.2mb	
NB2	67.09	0 P	37	07.00	1.4
	0.8s	1.80nm		4.2mb	
HFS	67.98	359 eP	37	11.60	0.5
	0.5s	3.90nm		4.8mb	
GUN	77.25	299 P	38	16.80	10.1X
PKI	77.77	299 P	38	19.40	9.8X
GKN	77.84	300 P	38	19.50	9.8X
	0.6s	14.00nm		5.2mb	
DMN	77.91	299 P	38	20.60	10.4X
S.D. = 1.0 on 8 of 16 obs.					

? MAY 01, 1990 06h 12m 09.02±11.33s
7.782 S ±91.3km 129.236 E ±18.5km
DEPTH = 111.7 ± 54.2 km
4.5mb (2 obs.)
BANDA SEA (280)

MTN	5.37	160 eP	13	30.00	1.9
		eS	14	30.00	
KNA	7.93	183 eP	14	03.00	-0.2
	0.2s	35.00nm		5.6mb	X
		eS	15	30.00	
WB5	13.01	158 eP	15	09.10	-1.8
		eS	17	29.00	
WRA	13.06	158 Pc	15	10.70	-0.8
	0.4s	6.60nm		4.5mb	
MBL	16.11	213 eP	15	49.20	-1.1
		eS	18	38.50	
QIS	16.19	143 eP	15	51.00	-0.3
		eS	18	42.00	
ASPA	16.42	165 eP	15	55.20	1.0
	0.6s	13.00nm		4.4mb	
		eS	18	47.00	
WARB	18.47	187 eP	16	20.00	0.9
NANU	19.75	220 iPc	16	33.00	0.5
		eS	20	10.00	
S.D. = 1.5 on 9 of 9 obs.					

% MAY 01, 1990 07h 16m 56.57± 0.67s

01d 07h

42.023 N ± 6.4km 13.143 E ± 5.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AZI	0.22	99	P	17 00.80	-0.5
			eSg	17 05.80	
AQU	0.38	30	P	17 04.70	0.3
			eSg	17 10.90	
RMP	0.39	237	P	17 05.20	0.6
			eSg	17 10.60	
RDP	0.41	230	P	17 04.50	-0.6
			eSg	17 13.00	
MNS	0.50	317	P	17 06.50	-0.2
			eSg	17 13.90	
SDI	0.59	122	P	17 09.00	0.4
			eSg	17 18.00	

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

---

* MAY 01, 1990 08h 39m 23.20± 2.55s
51.102 N ±24.2km 15.932 E ±14.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.35	138	iP	39 30.00	-0.3
	0.6s		37.00nm		
			iS	39 39.20	
			eLR	39 46.00	
BRG	1.28	260	iPg	39 45.50	-1.4
			iSg	40 05.00	
PRU	1.42	219	Pg	39 50.20	1.1
			e	39 54.70	
			Sn	40 07.00	
			Sg	40 14.00	
			i	40 21.20	
CLL	1.85	278	e(Pg)	39 56.00	0.7
			eSg	40 19.00	
KHC	2.49	218	Pn	40 04.00	-0.4
			Pg	40 11.50	
			Sg	40 48.00	
			Sg	41 43.30	
GRF	3.33	247	e(Pg)	40 26.00	9.7X
			e	40 29.70	
			eSg	41 13.00	

S.D. = 1.4 on 5 of 6 obs.

---

* MAY 01, 1990 08h 40m 08.16± 1.52s
51.627 N ±17.4km 16.708 E ± 7.3km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.83	199	iP	40 24.60	0.4
	0.6s		37.00nm		
			iS	40 33.70	
			eLR	40 40.50	
BRG	1.89	248	iPg	40 40.00	-0.8
			iSg	41 00.00	
PRU	2.14	221	ePg	40 44.00	-0.4
			e	40 48.50	
			Sn	41 02.00	
			Sg	41 08.80	
			i	41 16.20	
CLL	2.34	264	e(Pg)	40 48.00	0.8
			iSg	41 15.00	
KRA	2.58	126	eP	40 51.00	0.3
CLI	8.60	122	iPc	42 20.00	4.5X
MLR	8.67	131	iPc	42 14.50	-2.1X
VRI	8.77	127	iPc	42 14.50	-3.4X
PPE	8.99	123	P	42 20.50	-0.4

S.D. = 0.8 on 6 of 9 obs.

& MAY 01, 1990 08h 41m 02.60s
32.110 N 117.630 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.7 (PAS). Felt in the Son Diego area, California.

CPE	0.89	30	iPd	41 19.50	-0.5
BAR	0.99	55	iPc	41 20.90	-0.9
SCI	1.16	318	eP	41 24.20	-0.5
IKP	1.40	67	eP	41 27.40	-1.3
			eS	41 45.00	
PLM	1.40	27	iPd	41 27.10	-1.7
CIS	1.45	333	eP	41 28.00	-1.4
PEC	1.82	12	eP	41 33.10	-1.6
GLA	2.55	68	eP	41 43.50	-1.7
ABL	3.04	334	eP	41 52.50	0.2
BCH	3.69	327	eP	42 00.50	-1.0
PRI	4.74	329	e(P)	42 17.10	0.6
FRI	5.16	341	e(P)	42 18.80	-3.4
PRS	5.23	325	e(P)	42 22.90	-0.3
SAO	5.61	327	eP	42 27.80	-0.8
TNP	5.97	3	eP	42 32.50	-1.3
KVN	6.94	357	eP	42 46.00	-1.5
ALQ	9.74	70	eP	43 26.20	-0.3
	0.9s		2.94nm	4.7mb X	
PNT	17.25	356	eP	45 08.00	2.4
SES	18.91	13	eP	45 27.00	0.8

19 obs. associated

---

* MAY 01, 1990 09h 05m 04.72± 1.40s
14.891 N ±13.3km 148.910 E ±18.1km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
MARIANA ISLANDS REGION (215)

GUA	4.10	251	eP	06 06.80	0.1
			eS	06 43.40	
GUMO	4.13	252	eP	06 07.10	0.0
PJG	4.13	252	eP	06 07.30	0.2
MAT	23.58	338	eP	10 13.00	-0.4
WRA	37.46	203	Pc	12 28.70	11.6X
	0.6s		2.40nm		
GYA	40.99	293	P	12 47.60	1.0
ASPA	41.03	201	iPc	12 46.80	0.0
	0.5s		17.00nm	5.0mb	
CD2	44.23	299	P	13 12.20	-0.7
LZH	45.34	306	eP	13 22.50	0.6
CHTO	47.86	282	eP	13 39.00	-2.8
	0.7s		1.59nm	4.2mb	
			pP	13 55.70	66kmX
GTA	49.31	309	eP	13 53.10	0.2
NANU	49.54	222	eP	14 02.70	8.1X
GUN	59.54	294	P	15 08.70	0.6
PKI	59.97	293	P	15 11.20	0.2
	0.4s		4.00nm	4.9mb	
DMN	60.23	293	P	15 13.00	0.3
GKN	60.63	294	P	15 15.80	0.5
INK	71.67	22	eP	16 34.00	9.1X
MBC	76.06	14	eP	16 59.00	8.8X
YKA	79.89	28	eP	17 20.90	9.4X
	0.7s		0.50nm	3.6mb	
KIC	146.41	307	PKPd	24 51.10	7.5X
	0.7s		9.50nm		
TIC	146.45	308	PKP	24 51.08	7.4X
LIC	146.72	307	PKPd	24 52.02	7.9X
	0.7s		11.00nm		

S.D. = 1.0 on 14 of 22 obs.

? MAY 01, 1990 09h 31m 26.55± 2.34s
2.708 S ±17.8km 139.185 E ±32.6km
DEPTH = 33.0km (normal)
3.7mb (2 obs.)
NEAR N. COAST OF WEST IRIAN (197)

MTN	12.85	218	eP	34 29.00	-0.6
			eS	36 45.00	
WB5	17.70	195	eP	35 32.90	0.5
			eS	38 33.80	
QIS	17.75	179	eP	35 32.00	-0.9
			eS	38 09.00	
WRA	17.77	195	P	35 34.00	0.8
	0.7s		1.70nm	3.3mb	
ASPA	21.45	193	eP	36 14.50	0.1
	0.7s		5.00nm	4.0mb	
			eS	40 04.70	
GBA	63.34	287	Pc	41 55.20	0.0
	0.2s		3.30nm	5.1mb X	

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

MAY 01, 1990 09h 37m 14.27± 1.20s
51.235 N ±11.3km 15.726 E ± 6.3km
DEPTH = 5.0km (geophysicist)
POLAND (548)
ML 3.7 (VKA), 3.6 (GRF), 2.9 (KRA).

KSP	0.53	137	iPc	37 23.10	-1.8
	0.7s		138.00nm		
			iS	37 32.60	
			eLR	37 38.00	
BRG	1.18	253	iPn	37 36.80	0.1
			iPg	37 38.40	
			iSg	37 58.50	
PRU	1.46	212	Pn	37 41.60	0.3
			Pg	37 43.90	
			eSn	38 00.00	
			Sg	38 07.20	
			i	38 14.50	
CLL	1.71	274	iPn	37 42.80	-2.1
			iPg	37 46.00	
			iSg	38 12.00	
KHC	2.52	214	iPn	37 56.80	0.2
			Pg	38 03.50	
			Sn	38 33.20	
			Sg	38 43.30	
MOX	2.67	259	ePn	37 59.00	0.4
			iPg	38 06.00	
			iSg	38 45.00	
WET	2.78	222	ePn	38 01.00	0.7
KRA	2.93	112	eP	38 04.00	1.6
			eS	38 40.80	
VKA	3.00	172	iPgd	38 11.00	7.7X
			iSg	38 53.40	
ZST	3.17	163	eP	38 30.70	25.0X
			i	38 53.90	
			i	39 03.10	
GRC1	3.51	232	ePn	38 11.00	0.4
			ePg	38 23.70	
			eSg	39 13.00	
SPC	3.55	123	eP	38 19.00	7.6X
			i	39 03.50	
SRO	3.82	153	eP	39 06.00	51.0X
			e	39 09.50	
			e	39 26.40	
			e	39 49.80	
SQTA	4.99	218	ePn	38 32.00	0.3
			e	39 43.00	
RBL	5.00	197	P	38 31.50	-0.4
			eSn	39 44.00	
FVI	5.03	204	P	38 32.00	-0.2
			eSn	39 49.00	
OGA	5.35	217	eP	38 37.40	0.5
CTI	5.85	209	P	38 43.50	-0.3
MEM	6.18	268	P	38 48.60	0.3
DOU	7.17	265	iP	39 05.60	3.4X

S.D. = 1.0 on 15 of 20 obs.

? MAY 01, 1990 09h 37m 44.26± 1.45s
31.443 S ±14.7km 68.331 W ±16.9km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.16	314	iPd	37 52.30	1.7
CFA	0.18	154	iPd	37 50.50	-0.2
			eS	38 02.60	
ZON	0.31	251	iPd	37 52.20	-0.1
			eS	38 06.00	
RTCB	0.40	264	iPc	37 53.50	0.0
			S	38 06.80	
RTRS	1.60	322	ePc	38 09.20	-1.3
			eS	38 35.80	

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

? MAY 01, 1990 09h 48m 01.73± 0.78s
9.570 S ±11.7km 109.914 E ±11.8km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
SOUTH OF JAVA (282)

KHKI	5.75	78	ePc	49 27.40	0.3
			eS	50 31.60	
			e	52 36.10	
NANU	14.00	158	eP	51 20.20	0.3
			eS	53 46.00	
MBL	14.96	141	eP	51 32.30	-0.4
			eS	54 06.00	
WB5	25.74	116	eP	53 31.00	-0.2
ASPA	26.86	124	iPc	53 46.60	5.1X
	0.6s		7.00nm	4.5mb	
GBA	39.61	305	Pc	55 32.90	0.7
GUN	43.93	329	P	56 07.00	-0.8
	0.5s		8.00nm	4.8mb	

S.D. = 0.7 on 6 of 7 obs.

? MAY 01, 1990 10h 01m 14.16± 1.79s
5.688 S ±18.6km 130.746 E ±46.5km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
BANDA SEA (280)

MTN	7.12	177	eP	03	01.00	2.2
			eS	04	14.00	
KNA	10.19	191	eP	03	40.20	-1.0
	0.3s	19.00nm				5.9mb X
			eS	05	22.00	
WB5	14.54	166	eP	04	38.70	-0.9
			eS	07	08.00	
WRA	14.60	166	P	04	45.00	4.7X
	0.3s	1.20nm				3.8mb
ASPA	18.13	171	eP	05	24.80	-0.5
	0.8s	13.00nm				4.1mb
			iS	08	32.00	
GUN	54.67	310	P	10	43.00	0.1
	0.6s	8.00nm				4.9mb
PKI	54.85	309	P	10	44.20	-0.1
DMN	55.11	309	P	10	46.20	0.1
GKN	55.66	309	P	10	50.00	0.1
S.D. = 1.2 on 8 of 9 obs.						

? MAY 01, 1990 10h 37m 11.18± 2.74s
25.428 S ±46.1km 175.601 W ±38.7km
DEPTH = 33.0km (normal)
5.1mb (7 obs.)
SOUTH OF TONGA ISLANDS (175)

DZM	16.77	278	iPc	41	14.10	8.8X
COO	29.10	252	iPc	43	15.00	3.9X
CTA	35.49	271	iPd	44	07.20	0.2
	0.5s	63.38nm				5.8mb
ASPA	45.75	261	iPd	45	32.10	0.6
	0.5s	21.00nm				5.3mb
WB5	46.29	266	eP	45	35.20	-0.6
WRA	46.30	266	Pd	45	33.40	-2.4
	0.8s	18.40nm				5.1mb
FORR	49.50	250	iPd	46	02.20	1.6
	0.3s	16.00nm				5.5mb
WARB	51.62	256	iPd	46	17.40	0.5
	0.3s	4.00nm				4.9mb
KNA	52.65	269	eP	46	24.40	-0.3
SPA	64.72	180	iPc	47	47.80	-0.5
	1.0s	4.50nm				4.5mb
			i	48	18.30	
CHTO	93.96	289	eP	50	28.00	0.7
	1.0s	1.25nm				4.3mb
HFS	144.72	352	ePKP	57	01.70	16.1X
	0.5s	2.20nm				
S.D. = 1.3 on 9 of 12 obs.						

MAY 01, 1990 10h 52m 16.06± 0.39s
40.839 N ± 3.3km 23.897 E ± 3.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.6 (THE), 2.5 (SKO).

SRS	0.36	320	ePgc	52	23.20	-0.3
			eSg	52	27.80	
SOH	0.41	268	ePgc	52	24.20	-0.3
			eSg	52	30.00	
OUR	0.51	173	ePgc	52	26.20	-0.1
THE	0.74	254	ePgd	52	30.20	-0.3
			eSg	52	39.10	
MMB	0.76	350	iPgc	52	30.00	-0.9
PAIG	0.93	190	ePgc	52	33.40	-0.3
			eSg	52	46.00	
RZN	1.05	36	iPc	52	36.00	0.0
VAY	1.11	296	iPn	52	37.40	0.5
			iSn	52	53.00	
GRG	1.14	276	ePgc	52	38.20	0.8
			eSg	52	53.40	
KKB	1.20	329	iPgc	52	38.00	-0.4
LIT	1.30	236	ePbc	52	39.60	-0.6
			eSb	52	58.30	
KDZ	1.40	54	iPgd	52	41.00	-0.7
ALN	1.63	87	ePnc	52	45.60	0.7
			eSn	53	07.40	
PGB	1.72	7	iP	52	47.00	0.7
SKO	2.17	302	ePn	52	53.50	0.8
AGG	2.18	214	ePn	52	53.40	0.5
S.D. = 0.6 on 16 of 16 obs.						

MAY 01, 1990 11h 44m 34.44± 0.82s
14.056 N ± 5.4km 91.690 W ± 4.9km
DEPTH = 41.0 ± 7.1 km
5.0mb (45 obs.) 5.4Msz (13 obs.)
GUATEMALA (70)
Ms 5.4 (BRK), 5.0 (PAS). Felt in southwestern Guotemolo ond ot

Guotemolo City.
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 14S, 29C
Centroid Locotion:
Origin Time 11:44:41.5 0.7
Lot 14.24N 0.05 Lon 92.04W 0.04
Dep 29.8 BDY Holf-durotion 3.1
Moment Tensor; Scole 10**17 Nm
Mrr= 4.91 0.19 Mtt=-3.94 0.19
Mff=-0.96 0.33 Mrt= 1.71 0.43
Mrf=-2.24 0.35 Mtf= 1.82 0.16
Principol Axes:

	Vol=	Plg	Azm
T	5.79	72	68
N	-0.35	11	302
P	-5.44	14	209

Best Double Couple:Mo=5.6*10**17
NP1:Strike=284 Dip=32 Slip= 69
NP2: 128 60 103

TPX	1.01	327	iP	44	52.00	-0.3
			(S)	45	06.46	
SCX	2.82	341	eP	45	22.00	4.0X
			iS	45	53.00	
PSM	4.17	310	eP	45	35.50	-1.8
			iS	46	21.00	
EVV	5.61	322	eP	45	56.50	-1.1
			iS	46	59.50	
OXX	5.71	302	iP	45	59.00	-0.2
			iS	46	59.50	
LVVM	7.26	322	eP	46	16.00	-4.7X
			iS	47	37.50	
IIT	8.04	309	iP	46	33.50	1.6
			iS	47	55.00	
PPM	8.31	308	iP	46	36.50	0.6
			(S)	48	08.50	
ACX	8.36	291	iP	46	33.50	-2.6
			(S)	48	11.00	
III	8.62	301	iP	46	38.50	-1.3
			iS	48	10.50	
UNM	8.89	307	(P)	46	46.50	2.8X
CRX	9.32	306	(P)	46	48.00	-1.6
			iS	48	28.00	
IIJ	9.55	307	eP	46	54.50	1.6
AGX	12.74	309	(P)	47	41.00	5.3X
UPA	12.93	112	iPd	47	41.00	2.7
	1.0s	40.00nm				5.4mb
Z	20s	8.87um				
MZX	16.65	305	(P)	48	25.00	-1.5
PSO	19.11	131	eP	49	00.00	2.7
BMG	19.56	109	eP	49	04.00	1.9
BOG	19.74	117	iPc	49	08.00	3.7X
			iS	52	54.00	
UYO	20.18	353	iPc	49	08.00	-0.3
OLY	21.36	0	P	49	21.80	1.4
MEO	21.56	344	iPc	49	21.50	-0.9
PRM	21.66	21	P	49	24.80	1.4
TUL	22.07	351	eP+	49	27.90	0.4
	0.6s	36.30nm				5.0mb
Z	19s	3.86um				4.8Msz
			e	49	37.80	
			eS	53	33.00	
			LR	58	00.00	
RSCP	22.15	13	P	49	29.60	1.3
GBTN	22.54	16	P	49	34.10	1.9
ALQ	24.70	330	iPc	49	54.50	1.1
	0.8s	106.34nm				5.4mb
Z	18s	3.73um				4.9Msz
ANMO	24.70	330	P	49	54.60	1.2
	0.8s	76.49nm				5.3mb
NAV	25.12	21	P	49	57.60	0.4
BLA	25.16	22	P	49	59.30	1.8
GLD	28.22	338	P	50	28.00	2.2
	0.9s	31.58nm				5.0mb
GOL	28.24	337	P	50	27.00	1.0
	0.9s	45.45nm				5.1mb
GLA	28.30	316	eP	50	27.00	0.6
BAR	29.36	313	eP	50	37.00	1.0
TPC	29.74	316	eP	50	40.00	0.6
NNA	29.77	150	eP	50	46.00	6.3X
Z	20s	1.42um				4.6Msz
			eS	55	36.00	
PLM	29.87	314	P	50	41.40	0.7
GSC	30.95	318	eP	50	51.00	0.9
			e	53	46.00	
TBR	30.98	26	P	50	51.60	1.5
PAS	31.21	314	eP	50	54.00	1.7
			ePP	52	06.00	
			ePcP	52	48.00	
			eS	56	08.00	
			eLg	58	00.00	
			eLR	59	24.00	
DAU	31.35	331	P	50	54.50	0.8
CLC	31.78	318	eP	50	58.00	0.7
ISA	32.27	317	eP	51	02.00	0.4
BW06	32.50	335	P	51	03.00	-0.7
TNP	32.94	321	P	51	08.50	1.0
RSNY	33.72	22	P	51	13.00	-1.0
	1.0s	50.61nm				5.4mb
FRI	33.85	318	eP	51	14.50	-0.7
PRI	34.01	315	e(P)	51	17.10	0.3
KVN	34.08	322	P	51	17.60	0.1
LLA	34.46	316	e(P)	51	20.20	-0.3
PRS	34.60	315	eP	51	21.40	-0.3
CMB	34.89	318	eP	51	24.50	0.3
BKS	36.01	317	eP	51	32.00	-1.6
Z	20s	5.00um				5.3Msz
N	20s	3.50um				
E	20s	5.00um				
			i	54	22.00	
			iS	57	17.00	
			eLQ	59	33.00	
			eLR	01	00.00	
ORV	36.48	320	e(P)	51	38.60	1.0
RSON	36.74	358	P	51	38.80	-0.8
	0.8s	34.05nm				5.3mb
MIN	37.01	321	eP	51	42.40	0.2
WDC	37.73	320	eP	51	46.50	-1.5
ZOBO	38.08	141	P	51	51.00	-0.9
			S	57	48.00	
			LR	02	06.00	
CBM	38.25	26	P	51	52.00	-0.3
LPB	38.30	142	P	51	54.00	0.4
Z	16s	5.05um				5.4MszX
			LR	02	56.00	
FHC	38.75	320	eP	51	57.70	1.0
SES	39.52	341	eP	52	04.00	1.1
NEW	40.08	334	P	52	07.40	-0.2
	0.8s	29.17nm				5.1mb
CCH	40.14	140	P	52	08.90	0.1
DPW	40.26	332	P	52	10.20	1.1
LON	41.20	328	P	52	17.60	0.8
FFC	41.37	351	iPd	52	18.60	0.6
	0.6s	8.00nm				4.6mb
PNT	41.96	333	ePc	52	24.00	1.0
GMW	42.23	329	P	52	24.80	-0.4
SIV	42.51	134	P	52	27.00	-0.9
EDM	42.68	341	eP	52	28.00	-0.9
PGC	43.30	329	eP	52	35.00	1.2
SCH	45.07	20	eP	52	47.00	-1.1
	0.9s	83.00nm				5.6mb
YKA	51.04	347	eP	53	33.30	-1.1
	0.6s	25.50nm				5.4mb
PEL	51.04	157	eP	53	34.00	-0.8
SAN	51.33	157	eP	53	36.00	-1.0
LNV	51.50	158	eP	53	37.00	-1.2
FRB	52.19	13	eP	53	41.00	-2.1
PDCR	58.40	114	eP	54	26.20	-2.5
			e	54	29.50	
			e	54	33.40	
			e	54	40.30	
INK	60.47	343	eP	54	41.00	-1.1
	0.8s	48.00nm				5.7mb
			pP	55	27.50	202kmX
TOA	61.44	334	ePc	54	49.00	0.1
PMR	62.50	333	eP	54	55.50	-0.4
	1.2s	70.30nm				5.7mb
Z	20s	2.00um				5.3Msz
KDC	62.77	328	eP	54	58.80	1.1
FBA	63.31	337	ePc	55	00.30	-1.0
MBC	63.89	353	eP	55	04.00	-0.9
	0.6s	16.00nm				5.3mb
SVW	65.29	331	ePc	55	13.10	-1.1
TTA	65.98	333	ePc	55	17.50	-1.2
IMA	66.03	337	eP	55	18.00	-1.0
	0.9s	22.90nm				5.2mb
SDN	66.52	324	eP	55	21.90	-0.2
BRW	68.87	342	eP	55	36.40	-0.2
ADK	76.00	320	eP	56	19.90	0.8
EKA	77.74	36	Pd	56	27.30	-1.4
	0.7s	25.70nm				5.4mb
TOL	79.35	51	eP	56	40.00	2.2
			ePS	06	29.00	
			eSS	11	56.00	

01d 11h

MAL	79.59	55 eP	56 40.30	1.2	
		S	06 36.00		
ALOJ	79.77	54 iPc	56 39.50	-0.8	
ATEJ	79.87	54 iPc	56 40.50	-0.4	
APHE	80.12	54 iPc	56 42.00	-0.2	
LPF	80.12	43 eP	56 40.20	-1.6	
	1.0s	20.00nm		5.0mb	
GRR	80.18	43 eP	56 40.70	-1.4	
	0.6s	10.80nm		5.0mb	
FLN	80.36	42 eP	56 41.50	-1.5	
	0.8s	10.75nm		4.9mb	
LDF	80.63	42 eP	56 43.00	-1.4	
	0.8s	6.70nm		4.7mb	
LFF	81.91	46 eP	56 49.80	-1.4	
	1.0s	12.00nm		4.9mb	
LSF	82.19	44 eP	56 50.90	-1.8	
	0.8s	4.70nm		4.6mb	
RJF	82.38	45 eP	56 51.80	-1.9	
	0.8s	5.35nm		4.6mb	
TCF	82.64	44 eP	56 53.40	-1.6	
	0.8s	5.35nm		4.6mb	
CAF	82.84	46 eP	56 54.60	-1.5	
	1.0s	4.00nm		4.4mb	
MAF	82.90	44 eP	56 55.00	-1.3	
	0.6s	3.60nm		4.6mb	
BGF	83.01	44 eP	56 55.30	-1.6	
	0.8s	8.05nm		4.8mb	
AVF	83.30	44 eP	56 56.70	-1.6	
	0.6s	2.70nm		4.5mb	
DOU	83.33	40 P	56 58.40	0.0	
	0.8s	11.70nm		5.0mb	
SSF	83.34	43 eP	56 56.80	-1.8	
	0.8s	5.35nm		4.7mb	
LOR	83.52	43 eP	56 58.00	-1.5	
	0.8s	10.75nm		5.0mb	
SMF	83.66	44 eP	56 58.50	-1.7	
	0.8s	2.70nm		4.4mb	
LBF	83.67	43 eP	56 58.60	-1.7	
	0.6s	2.70nm		4.5mb	
NB2	83.95	28 P	57 02.00	0.5	
	0.8s	13.30nm		5.1mb	
ENN	83.99	39 eP	57 01.50	-0.2	
	0.8s	13.00nm		5.1mb	
MEM	84.08	39 P	57 01.80	-0.4	
WTS	84.20	38 eP	57 03.00	0.2	
	0.8s	13.00nm		5.1mb	
HAU	84.97	42 eP	57 06.20	-0.6	
	0.5s	4.35nm		4.9mb	
LIC	85.29	85 P	57 10.60	1.6	
BSF	85.30	42 eP	57 07.40	-1.2	
	0.6s	3.60nm		4.7mb	
HFS	85.41	29 eP	57 08.10	-0.6	
	0.7s	17.80nm		5.4mb	
CDF	85.46	41 eP	57 08.50	-0.8	
	0.8s	5.35nm		4.8mb	
KIC	85.53	85 P	57 10.60	0.4	
LPL	85.89	44 eP	57 11.40	-0.3	
	1.0s	4.00nm		4.6mb	
LPG	85.91	44 eP	57 11.90	0.0	
	0.8s	5.35nm		4.8mb	
BNI	85.98	45 P	57 12.50	0.5	
KEV	86.33	18 iP	57 14.20	1.1	
VAI	87.16	43 P	57 18.00	0.4	
CKI	87.25	45 P	57 13.50	-4.6X	
UPP	87.34	28 iP	57 18.70	0.6	
SOD	87.46	20 iP	57 19.00	0.4	
GRF	87.55	39 iPc	57 19.20	-0.2	
	0.9s	12.00nm		5.1mb	
Z	21s	1.80um		5.5Msz	
MDI	87.82	43 P	57 26.00	5.3X	
BOB	87.95	44 P	57 21.50	0.0	
CLL	88.09	37 e(P)	57 18.00	-3.9X	
Z	20s	1.00um		5.2Msz	
SAL	88.41	43 P	57 24.00	0.4	
BRG	88.80	38 eP	57 25.70	0.3	
		e	58 25.70		
CTI	89.01	43 P	57 28.00	1.4	
KHC	89.19	39 P	57 27.90	0.6	
Z	16s	1.70um		5.6MszX	
N	18s	0.50um			
E	17s	1.00um			
PRU	89.47	38 eP	57 29.00	0.4	
Z	18s	1.40um		5.4Msz	
N	17s	0.80um			
E	17s	0.90um			
SUF	89.69	24 iP	57 28.90	-0.5	
	0.5s	8.30nm		5.3mb	

PGD	89.78	45 P	57 30.00	-0.4	
SFI	89.85	45 P	57 31.00	0.6	
RBL	90.13	42 P	57 32.00	0.2	
NUR	90.19	26 eP	57 33.00	1.3	
TRI	90.52	42 eP	57 34.00	0.5	
		eLR	29 30.00		
ASS	90.69	45 P	57 34.00	-0.5	
SDI	91.97	46 P	57 39.00	-1.3	
WIN	112.40	109 ePKP	03 07.20	-1.6	
Z	20s	2.13um		5.7Msz	
BLF	120.92	116 ePKP	03 27.50	2.7X	
HHC	121.27	339 ePKP	03 27.00	1.9	
Z	21s	1.90um		5.7Msz	
BFS	121.45	113 ePKP	03 25.00	-0.9	
	0.5s	14.08nm			
SLR	122.79	112 ePKP	03 30.00	1.6	
Z	20s	3.19um		6.0Msz	
BUL	122.87	105 iPKPd	03 31.10	2.4X	
MAIO	123.00	28 ePKP	03 30.00	1.5	
KRI	123.53	101 iPKPc	03 32.10	2.0	
TIY	123.74	337 ePKP	03 31.10	1.2	
Z	26s	1.10um		5.4MszX	
N	21s	1.40um			
		PP	05 15.00		
NJ2	125.61	328 PKPc	03 32.00	-1.6	
Z	16s	0.30um		5.1MszX	
GTA	125.74	349 ePKP	03 35.00	1.2	
Z	22s	0.90um		5.4Msz	
LZH	128.01	344 ePKP	03 35.00	-3.3X	
XAN	128.30	338 PKP	03 38.70	-0.1	
WHN	129.07	331 ePKP	03 41.50	1.3	
CD2	132.89	342 PKP	03 50.40	2.8X	
Z	21s	1.00um		5.5Msz	
WB5	135.67	256 ePKP	03 53.20	0.1	
WRA	135.70	256 PKPd	03 58.80	5.7X	
	0.7s	1.90nm			
GYA	135.95	336 PKP	03 54.60	1.0	
ASPA	135.97	250 ePKP	03 53.10	-0.5	
	1.5s	11.00nm			
KMI	138.59	340 ePKP	03 59.50	0.8	
SHL	140.46	355 ePKP	03 54.00	-8.0X	
POO	144.62	24 iPKPd	04 09.00	-0.2	
TSM	145.34	299 ePKPd	04 12.10	1.6	
CHG	145.70	342 iPKPc	04 10.90	-0.1	
	1.3s	141.83nm			
CHTO	145.70	342 iPKP	04 10.80	-0.2	
	1.4s	153.37nm			
KKM	145.86	304 ePKPc	04 12.50	0.9	
LOE	146.05	337 iPKPc	04 12.00	0.4	
HYB	147.28	17 ePKP	04 14.50	0.9	
	1.0s	150.00nm			
		i	04 15.50		
NWAO	147.66	230 ePKP	04 16.00	2.2X	
NST	148.23	338 ePKP	04 19.50	4.4X	
MUN	148.88	230 ePKP	04 18.50	2.7X	
MBL	149.17	252 ePKP	04 20.30	3.8X	
GBA	150.48	22 PKPd	04 20.10	1.5	
	0.6s	9.50nm			
KOD	153.58	25 ePKP	04 26.00	2.5X	

S.D. = 1.2 on 163 of 183 obs.

MAY 01, 1990 11h 46m 39.84± 0.50s
45.797 N ± 5.4km 20.839 E ± 4.7km
DEPTH = 17.7 ± 5.2 km
YUGOSLAVIA (383)
MG 3.4 (BEO).

TIM	0.27	103 eP	46 45.00	-1.0	
BZS	0.57	108 iPc	46 05.00	-46.1X	
BEO	1.01	196 iPg	46 58.80	0.3	
		iSg	47 12.60		
DEV	1.45	86 iPd	47 06.00	0.8	
PSZ	2.22	343 iPn	47 15.90	-0.6	
SRO	2.66	320 iPn	47 22.70	0.1	
	0.7s	0.09nm			
		i(Sn)	48 10.20		
		i	48 23.30		
		Lg	48 33.00		
ZAG	3.40	272 eP	47 33.20	0.2	
		i$n	48 31.00		
PTJ	3.41	273 eP	47 41.30	7.9X	
SPC	3.42	353 eP	47 33.90	0.4	
		i	47 47.90		
		i	48 04.50		
		i	48 20.80		
ZST	3.51	315 i(Pn)	47 34.10	-0.5	
		e	57 40.30		

MLR	3.59	93 eP	47 50.00	14.0X	
SKO	3.85	173 eP	47 51.70	12.2X	
		i	48 53.70		
VBY	3.93	268 ePn	48 00.90	20.4X	
		eSn	48 48.40		
VKA	3.96	310 eP	47 41.50	0.5	
		i	47 52.00		
		i	48 01.30		
		e	48 27.00		
HVAR	4.09	232 iPn	47 53.40	10.5X	
		iSn	48 33.50		
VRI	4.12	87 eP	48 02.50	19.2X	
KRA	4.30	352 eP	47 46.20	0.3	
LJU	4.41	275 e(Pn)	48 03.50	16.1X	
		e(Sn)	48 36.00		
CEY	4.49	272 eP	48 13.00	24.4X	
		e(Sn)	49 06.50		
VAY	4.65	164 eP	47 07.30	-43.6X	
OHR	4.68	180 eP	48 00.00	8.5X	
		e	49 05.50		
VOY	4.85	275 e(Pn)	48 11.70	17.9X	
		eSn	49 17.00		
TRI	4.95	272 eP	47 55.90	0.8	
		i	48 52.20		
		e	49 20.50		
RBL	5.10	280 P	47 57.00	-0.2	
FVI	5.65	281 P	48 16.50	11.5X	
KHC	5.95	307 Pn	48 08.50	-0.7	
		Pg	48 14.60		
		Sg	49 17.30		
PRU	5.96	317 ePn	48 15.50	6.2X	
		Sg	49 13.00		
CTI	6.42	276 P	48 15.00	-0.9	
		eSn	49 23.50		

S.D. = 0.7 on 14 of 28 obs.

& MAY 01, 1990 14h 38m 03.94s
38.232 N 112.675 W
DEPTH = 0.9km
UTAH (478)
<SLC-P>. ML 2.6 (SLC). Felt at Beaver.

DUG	1.96	357 eP	38 38.50	-0.4	
DAU	2.44	26 eP	38 46.50	0.6	

2 obs. associated

% MAY 01, 1990 14h 48m 18.94± 2.33s
46.910 N ±11.9km 1.584 E ±16.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

LSF	0.66	183 Pg	48 31.80	-0.3	
		Sg	48 41.70		
TCF	0.76	145 Pg	48 33.90	0.1	
		Sg	48 45.70		
BGF	0.94	112 Pg	48 36.60	-0.2	
		Sg	48 51.00		
MAF	0.97	135 Pg	48 37.70	0.4	
		Sg	48 52.90		
AVF	1.22	95 Pg	48 41.30	-0.3	
		Sg	48 58.00		
SSF	1.32	83 Pg	48 42.60	-0.8	
		Sg	49 00.00		
SMF	1.57	99 Pg	48 47.40	0.4	
		Sg	49 09.20		
LOR	1.60	76 Pg	48 47.60	0.3	
		Sg	49 08.40		
LBF	1.64	87 Pg	48 48.40	0.4	
		Sg	49 10.10		

S.D. = 0.5 on 9 of 9 obs.

MAY 01, 1990 14h 54m 31.91± 0.62s
40.291 N ± 5.5km 19.905 E ± 5.8km
DEPTH = 5.0km (geophysicist)
ALBANIA (391)
ML 3.1 (THE).

TPE	0.08	87 iPgd	54 31.00	-2.8	
BERA	0.41	5 iPgd	54 39.20	-1.0	
SRN	0.42	170 iPg	54 40.40	0.1	
KBN	0.77	64 ePg	54 44.00	-3.3X	
IGT	0.83	156 ePg	54 47.70	-0.7	
		eSg	55 01.00		
TIR	1.06	358 ePn	54 52.20	0.0	
OHR	1.06	39 iPg	54 50.10	-2.4	

	0.6s	117.00nm				
			iSg	55	07.80	
			Lg	55	10.40	
FNA	1.22	66	ePb	54	53.50	-1.7
			eSb	55	10.70	
LACI	1.35	354	ePn	54	58.20	0.9
PHP	1.45	16	iPnd	54	58.10	-0.7
LCI	1.49	272	Pd	54	58.20	-1.2
			eSn	55	20.00	
PUK	1.75	360	ePn	55	03.80	0.7
SDA	1.75	350	ePn	55	04.40	1.3
LIT	1.99	95	ePn	55	08.90	2.3X
			eSn	55	34.90	
GRG	2.01	70	ePn	55	06.50	-0.4
			eSn	55	35.50	
SKO	2.04	34	iPnc	55	08.50	1.2
	0.5s	61.00nm				
			iSn	55	35.60	
			Lg	55	40.50	
BCI	2.08	3	ePn	55	09.40	1.6
BRT	2.14	287	Pd	55	13.20	4.4X
			eSn	55	36.50	
AGG	2.26	123	ePn	55	12.00	1.5
			eSn	55	43.20	
BAI	2.45	291	P	55	12.00	-1.2
SOH	2.68	77	ePn	55	17.50	1.0
TDS	2.81	258	P	55	23.00	4.6X
			eSn	55	55.00	
PAIG	2.92	96	ePn	55	21.90	2.1
OUR	3.12	88	ePn	55	24.20	1.6
MGR	3.33	269	Pd	55	26.00	0.2
			eSn	56	04.80	

S.D. = 1.5 on 21 of 25 obs.

? MAY 01, 1990 15h 47m 38.90±13.02s
44.517 N ±40.1km 8.929 E ±77.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

PCP	0.28	275	P	47	44.86	0.1
			S	47	47.89	
CKI	0.47	259	P	47	48.50	0.0
			eSg	47	54.40	
FIN	0.60	240	P	47	51.32	0.2
			S	47	58.40	
ROB	0.79	254	P	47	54.09	-0.2
			S	48	03.32	
ENR	1.12	256	P	47	59.34	-0.6
STV	1.18	257	P	48	01.48	0.5

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

MAY 01, 1990 16h 12m 21.44± 0.09s
58.840 N ± 1.9km 156.858 W ± 1.6km
DEPTH = 211.0km (geophysicist)
6.1mb (87 obs.)
ALASKA PENINSULA (12)
mb 6.3 (BRK), 6.3 (PAS).
Mo=1.0*10**19 Nm (PPT). Felt (V) at Sterling; (IV) at Anchorage, Chiniak, Eagle River, Elemendorf Air Force Base, Kenai, King Salmon, Kodiak, Monokotak, Moose Poss, Ninilchik, Port Lions, Seward, Skwentna and Tyonek; (III) at Aniak, Chignik Lagoon, Chugiak, Clam Gulch, Egegik, Fort Richardson, Igiugig, Koliganek, McGrath, New Stuyahok, Pilot Station, Port Alsworth and Soldotna. Two events about 2.5 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=165 Dip=58 Slip=-135
NP2: 47 53 -41
Principal Axes:
T Plg= 3 Azm=285
P 53 19
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is not determined.

RADIATED ENERGY
No. of sta: 5 Focal mech. F
Energy 6.3±2.2*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 220 No. of sta: 18
Moment Tensor; Scale 10**18 Nm
Mrr=-5.76 Mtt=-0.68
Mff= 6.43 Mrt=-4.72
Mrf= 1.14 Mtf= 5.88
Principal axes:
T Val= 9.87 Plg= 5 Azm=121
N -0.18 39 216
P -9.69 51 25
Best Double Couple:Mo=9.8*10**18
NP1:Strike=177 Dip=52 Slip=-143
NP2: 62 61 -44
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C M.W.: 11S, 19C
Centroid Location:
Origin Time 16:12:28.2 0.1
Lat 58.83N 0.01 Lon 157.05W 0.02
Dep 224.3 0.8 Half-duration 7.2
Moment Tensor; Scale 10**18 Nm
Mrr=-3.75 0.08 Mtt=-0.66 0.13
Mff= 4.41 0.14 Mrt=-6.13 0.08
Mrf= 2.69 0.09 Mtf= 4.43 0.12
Principal Axes:
T Val= 7.07 Plg= 7 Azm=124
N 3.10 43 221
P -10.16 46 27
Best Double Couple:Mo=8.6*10**18
NP1:Strike=177 Dip=54 Slip=-148
NP2: 67 65 -41

SVW	2.36	15	iPd	13	08.40	3.5X
KDC	2.55	114	iPc	13	05.20	-1.7
XLV	2.72	75	eP	13	08.94	0.1
RDT	2.85	50	eP	13	11.77	1.4
			eS	13	51.21	
BRLK	3.20	71	eP	13	15.24	0.8
SPU	3.37	44	iP	13	18.19	1.7
			eS	14	01.51	
CRP	3.39	42	iP	13	19.12	2.3
NKA	3.42	54	eP	13	20.12	3.1X
CGLM	3.47	42	iP	13	19.67	1.9
NCG	3.49	40	iP	13	20.33	2.4
SLKM	3.76	61	iP	13	21.37	0.2
			eS	14	04.28	
SEW	3.99	68	eP	13	23.50	-0.4
SDN	4.03	211	ePd	13	21.70	-2.7
SUA	4.03	47	eP	13	25.10	0.5
SKT	4.11	38	iP	13	27.55	2.0
			eS	14	16.63	
TTA	4.13	5	iPd	13	29.60	3.8X
PMS	4.38	53	ePd	13	28.70	-0.2
PWA	4.48	48	eP	13	29.44	-0.6
PLRM	4.74	51	iP	13	31.80	-1.5
PMR	4.74	51	ePd	13	31.80	-1.5
CUT	4.83	39	eP	13	34.53	0.1
GHO	4.92	50	iP	13	34.35	-1.4
SML	5.18	51	eP	13	37.28	-1.7
GLI	5.33	63	iP	13	40.03	-0.8
HUR	5.44	37	eP	13	42.02	-0.3
MID	5.45	79	iPc	13	41.80	-0.6
HIN	5.48	69	iP	13	42.46	-0.4
KTH	5.53	29	eP	13	44.02	0.5
VZW	5.64	62	eP	13	44.28	-0.6
VLZ	5.76	62	eP	13	46.02	-0.3
CVA	5.88	68	iP	13	47.50	-0.4
NCA	5.89	53	eP	13	47.04	-1.1
RND	6.00	37	eP	13	48.79	-0.8
KLU	6.07	59	iP	13	49.88	-0.6
SGAM	6.13	69	iP	13	50.91	-0.3
TOA	6.21	54	eP	13	51.90	-0.4
MCK	6.22	35	eP	13	51.48	-0.8
RAGM	6.37	71	iP	13	54.20	-0.2
HMT	6.57	71	eP	13	57.25	0.4
SDG	6.67	52	eP	13	57.98	-0.2
NEA	6.84	29	eP	13	59.02	-1.3
PAX	6.92	48	eP	14	00.75	-0.8
GLB	7.02	63	eP	14	03.14	0.5
WRH	7.02	33	iP	14	01.41	-1.2
CCB	7.23	33	eP	14	03.98	-1.5
DDM	7.25	42	iP	14	05.75	0.0
SNH	7.26	73	eP	14	06.33	0.5
WAX	7.28	71	iP	14	06.25	0.1
HDA	7.30	36	eP	14	05.03	-1.4
TGL	7.33	69	iP	14	07.14	0.2
IMA	7.40	10	ePd	14	10.60	2.7
CYK	7.43	74	eP	14	08.41	0.4
COL	7.43	31	iPd	14	07.97	-0.1
FBA	7.43	31	iPd	14	06.30	-1.8
DMW	7.46	41	eP	14	07.91	-0.6
GLM	7.61	32	eP	14	08.73	-1.8
BALM	7.61	67	iP	14	10.71	0.1
DOT	7.82	47	eP	14	12.21	-1.1
YKU	8.82	78	ePc	14	27.50	1.5
DWY	9.82	51	Pd	14	38.90	-0.2
HYT	9.94	70	P	14	41.00	0.3
SIT	11.57	90	ePc	15	00.30	-1.0
BRW	12.52	0	iPd	15	15.50	2.2
ADK	13.22	247	ePc	15	21.80	-0.3
ILT	13.27	322	iPd	15	26.50	3.8X
			iS	17	58.00	
INK	13.96	38	P	15	29.20	-2.1
SMY	17.34	262	ePc	16	10.10	-1.5
MBC	21.86	23	eP	16	57.00	-0.1
	0.5s	195.00nm				5.9mb
PGC	22.00	103	eP	17	01.00	2.4
	0.8s	326.00nm				5.9mb
MCW	22.29	102	eP	17	04.00	2.4
GMW	23.06	104	eP	17	10.50	1.5
PNT	23.54	97	ePd	17	14.00	0.4
BMW	23.57	107	eP	17	15.10	1.2
RMW	23.61	103	eP	17	15.50	1.2
LON	24.09	105	eP	17	20.50	1.7
SHW	24.26	106	eP	17	22.00	1.6
EDM	24.59	84	iPd	17	23.60	0.2
DPW	25.18	99	eP	17	29.60	0.8
PET	25.21	276	iPc	17	28.00	-0.9
			iS	21	37.00	
VGB	25.46	106	eP	17	32.20	0.8
NEW	25.49	97	iPc	17	31.50	-0.1
SES	27.34	88	ePd	17	48.30	-0.1
	1.2s	2073.00nm				6.7mb
			pP	18	23.00	169kmX
FHC	27.43	117	eP	17	51.00	1.7
	1.6s	1041.67nm				6.3mb
WDC	28.29	115	iPc	17	58.80	1.9
			epP	18	41.10	210kmX
			ePP	19	08.30	
			ePcP	21	03.60	
			eScP	24	23.10	
			eScS	28	15.00	
MIN	28.91	114	ePc	18	03.10	0.5
			epP	18	46.60	217kmX
			ePcP	21	05.00	
			eScP	24	24.50	
HRY	29.23	94	ePd	18	05.20	-0.1
BUT	29.31	96	ePd	18	07.00	0.9
LRM	29.50	96	ePd	18	07.50	-0.3
			epP	18	52.10	222kmX
			ePcP	21	10.20	
ORV	29.58	115	ePc	18	08.20	-0.1
			epP	18	52.20	218kmX
			eScP	24	27.00	
			eScS	28	19.20	
FFC	29.62	74	iPd	18	08.30	-0.2
	0.7s	226.00nm				6.0mb
SXM	29.92	95	ePd	18	11.50	0.0
BGMT	30.11	97	ePd	18	12.90	-0.3
BRK	30.58	118	ePc	18	17.60	0.6
	1.5s	903.00nm				6.3mb
	Z 20s	41.00um				6.1Msz
			epP	19	01.50	216kmX
			ePP	19	24.00	
			eS	23	09.00	
			eScP	24	30.80	
			eLR	26	52.00	
BKS	30.59	118	ePc	18	17.90	0.8
	1.2s	750.00nm				6.3mb
			ipP	18	58.00	195kmX
			isP	19	25.00	
			iS	23	02.00	
			e(ScP)	24	35.00	
			e	26	33.00	
HPI	30.63	100	eP	18	18.00	0.2
PCC	30.83	119	eP	18	19.30	0.1
			epP	19	03.20	216kmX
			eS	23	11.30	
			eScP	24	31.20	
TIK	31.26	324	iPd	18	23.50	0.8
			eS	23	15.00	

01d 16h

MHC	31.30	118	eP	18	24.10	0.6	GOL	37.51	98	eP	19	16.50	0.0	KEV	51.67	358	iPd	21	07.46	-0.5
	1.6s	741	.00nm			6.1mb	GLD	37.55	97	iPd	19	17.00	0.3		1.4s	850	.70nm			6.1mb
			epP	19	08.10	216kmX		1.0s	184	.00nm			5.6mb				id	21	09.61	7kmX
			ePP	19	31.50		IKP	37.73	116	eP	19	20.10	2.0				i	22	21.00	
			eScP	24	33.70		GLA	38.00	114	iP+	19	21.00	0.7				e	28	12.00	
CMB	31.32	115	ePc	18	24.24	0.7				e	20	05.00	209kmX				e	29	28.00	
	1.0s	245	.00nm			5.8mb	FRB	39.48	44	eP	19	30.00	-2.0				e	30	34.00	
			ipPd	19	07.12	210kmX	SAP	40.44	275	eP	19	42.00	1.8				e	31	54.00	
			iS	23	17.61					eS	25	35.00					e	33	38.00	
ARN	31.34	118	eP	18	23.30	-0.4	ANMO	40.59	103	iPd	19	43.72	1.9	TRO	51.79	2	iP	21	09.50	0.7
GCC	31.39	119	ePc	18	24.30	0.2		1.0s	275	.00nm			5.7mb	AKU	52.00	20	iP	21	11.00	0.6
			ePcP	21	13.30					isPc	20	50.43			2.0s	3576	.47nm			6.6mb
			eScP	24	33.20					i	22	26.94					i	22	12.60	286kmX
PTI	31.60	101	eP	18	27.00	0.9	ALO	40.60	103	ePd	19	41.90	0.1	BLA	52.29	79	ePd	21	10.50	-2.5
IMW	31.60	98	eP	18	26.80	0.5		1.0s	325	.00nm			5.8mb	KTK1	52.45	360	iP	21	14.04	0.4
KVN	31.60	112	iPc	18	26.00	-0.2				id	19	43.50		PNJ	52.61	71	iP	21	14.10	-1.1
SAO	31.86	118	eP	18	28.40	0.2				epP	20	28.70	221kmX				PcP	22	23.70	
			epP	19	12.30	214kmX				esP	20	49.50					PP	23	18.00	
			eScP	24	35.80					ePcP	21	41.00					S	28	20.40	
LLA	32.21	118	ePc	18	32.30	1.0				e	22	35.00		GMTN	52.61	71	iP	21	14.50	-0.7
			epP	19	16.30	214kmX				eScP	25	08.50		REY	52.66	23	iP	21	15.00	-0.2
			eS	23	33.30		GDH	40.94	32	iPc	19	44.00	0.0	CBN	53.07	76	iPc	21	18.20	-0.4
			eScP	24	36.60			2.1s	1840	.00nm			6.2mb				e	22	16.00	265kmX
PRS	32.25	119	ePc	18	32.50	0.9				i	21	26.00	582kmX	LOF	53.14	4	iP	21	18.25	-0.5
			epP	19	16.50	214kmX				i	22	30.00		AGX	53.38	109	(P)	21	22.50	1.5
			ePcP	21	14.90					iS	29	02.00		DL2	53.55	286	P	21	22.00	-0.1
			eS	23	33.10		DAG	42.09	13	iPd	19	52.50	-0.8		4.0s	2200	.00nm			6.1mb X
			eScP	24	36.70			0.6s	360	.00nm			6.1mb		Z	30s	7.70um			5.6MszX
FRI	32.48	116	iPc	18	34.20	0.6		Z 19s	15	.28um			5.9Msz		N	13s	7.20um			
	1.5s	701	.00nm			6.1mb				ipP	20	42.00	234kmX		E	14s	7.60um			
			epP	19	18.10	213kmX	KBS	42.32	3	iPd	19	57.50	2.3				pP	22	10.00	215kmX
			ePcP	21	16.10		MDJ	45.33	286	eP	20	18.70	-0.9				sP	22	37.00	
			eS	23	36.70			4.0s	1300	.00nm			5.7mb X				S	28	35.00	
			eScP	24	37.00			Z 20s	11	.70um			5.8Msz	PRM	53.71	83	eP	21	21.30	-2.1
PRI	32.73	118	iPc	18	37.50	1.6		N 18s	20	.40um				SOD	54.07	358	iP	21	25.20	-0.4
			epP	19	21.50	214kmX				iS	26	42.00		LHS	54.20	81	eP	21	25.10	-1.9
			ePP	19	45.20		TUL	45.33	93	iPd-	20	19.30	-0.4	BJI	55.36	291	ePc	21	35.10	-0.1
			eScP	24	40.00			1.3s	180	.90nm			5.3mb		4.0s	2340	.00nm			6.2mb X
TNP	32.79	112	eP	18	36.50	-0.1		Z 18s	15	.72um			6.0Msz		Z	24s	8.91um			5.8MszX
BW06	33.11	98	iPd	18	39.00	-0.3				LR	30	00.00			N	15s	8.13um			
BCH	33.78	118	eP	18	46.00	1.1	SCH	45.88	54	ePd	20	22.30	-1.5				id	21	37.92	
			epP	19	31.00	218kmX		0.5s	454	.00nm			6.1mb				ipPc	22	23.60	216kmX
ISA	34.14	116	iP+	18	48.00	0.1	CCM	46.07	87	iPd	20	25.25	-0.2				esP	22	50.00	
			e	19	33.00	218kmX				epPd	21	11.44	213kmX				e	24	47.56	
			e	20	16.00					isPc	21	33.79					eS	29	00.00	
SYP	34.38	119	eP	18	51.00	1.0				ePP	22	17.15					esS	30	28.00	
			e	19	35.00	212kmX	FVM	46.55	86	eP	20	27.50	-1.8				eScS	30	57.00	
			e	19	56.00		HIA	46.80	297	eP	20	30.88	-0.3	IIJ	56.46	108	(P)	21	43.16	-0.7
CLC	34.42	115	iP+	18	50.00	-0.3				esPc	21	40.24		NSS	56.66	6	iPd	21	44.24	0.1
			e	19	45.00	274kmX				e	23	26.67		IIC	56.66	108	(P)	21	44.97	-0.1
GSC	35.22	114	iP+	18	59.00	2.0	MAT	46.86	271	iPc	20	31.10	-0.7	CRX	56.76	108	(P)	21	46.77	1.0
			e	19	42.00	201kmX		1.0s	470	.00nm			5.9mb	HHC	56.93	295	iPd	21	47.00	0.5
			e	20	20.00					eS	27	06.00			1.0s	800	.00nm			6.4mb
SBB	35.24	116	iP+	18	57.00	-0.2	ELF	47.35	74	P	20	34.50	-1.0		Z	16s	10.80um			6.0MszX
			e	19	41.00	207kmX	UYO	47.37	93	iPd	20	34.50	-1.2		N	13s	9.50um			
			e	20	46.00		DLA	47.47	75	P	20	35.95	-0.4		E	14s	6.50um			
MWC	35.51	117	eP	19	00.00	0.4	CN2	47.98	288	iPc	20	40.00	-0.3				pP	22	36.00	217kmX
			e	19	44.00	206kmX		4.0s	3800	.00nm			6.2mb X				i	29	20.00	
PAS	35.52	117	ePc	19	00.24	0.8				pP	21	27.00	215kmX				S	29	22.00	
			ipPd	19	43.94	205kmX				sP	21	50.00		UNM	57.07	108	(P)	21	49.00	1.2
			eSP	19	45.00					PP	22	32.00		MEX	57.07	108	(P)	21	50.00	2.2
			ePP	20	07.00					S	27	15.00		TPM	57.42	108	(P)	21	49.50	-0.7
			isPc	20	07.61		CLE	48.49	76	iP	20	43.70	-0.6	PPM	57.57	108	(P)	21	52.18	0.5
			ePPP	20	29.00		WVLY	49.25	73	eP	20	49.00	-1.1	III	57.74	109	(P)	21	50.97	-1.5
			iS	24	22.00		RSNY	49.70	68	ePd	20	52.00	-1.4	IIT	57.77	107	(P)	21	52.78	0.1
			iLR	27	12.00			1.0s	357	.90nm			5.8mb	BTO	57.85	296	iPd	21	53.00	0.1
			eScS	29	51.00		WNY	50.14	68	ePd	20	55.00	-1.8		4.0s	3000	.00nm			6.4mb X
RSON	35.95	74	iPc	19	02.70	-0.2	MZX	50.26	113	(P)	20	58.11	0.3		N	14s	9.00um			
RVR	36.02	116	iP+	19	04.00	0.3	SNY	50.36	287	iPc	20	58.40	-0.1		E	12s	7.50um			
			e	19	45.00	190kmX		7.0s	4600	.00nm			6.1mb X				pP	22	41.00	211kmX
			e	20	35.00			N 19s	18	.10um							iS	29	35.00	
PEC	36.20	116	eP	19	05.50	0.2		E 16s	10	.30um							sS	30	55.00	
			epP	19	51.00	214kmX				pP	21	47.00	221kmX				SS	33	29.00	
SCI	36.32	118	eP	19	09.20	3.0X				sP	22	13.00		TIA	57.89	288	Pc	21	53.10	0.0
TPC	36.55	114	iP+	19	09.00	0.8				ScP	25	50.30			Z	30s	8.50um			5.7MszX
			e	19	54.00	211kmX				iS	27	52.00			N	19s	12.40um			
			e	20	38.00					sS	29	09.00			E	15s	7.90um			
PLM	36.79	116	iP+	19	11.00	0.6				ScS	30	24.00					S	29	29.00	
			e	19	54.00	200kmX	SCP	50.85	74	iPd	21	01.68	-0.6	LVVM	58.09	105	(P)	21	54.58	0.0
			e	20	41.00					id	21	04.17		MOL	58.33	8	iP	21	54.94	-0.8
CPE	37.07	117	eP	19	15.70	3.2X				epPd	21	48.53	212kmX	SUF	58.75	358	iP	21	58.00	-0.7
HAY	37.07	114	eP	19	16.10	3.6X				iPP	22	10.79		ACX	58.83	110	(P)	21	59.99	0.2
OPA	37.12	182	eP	19	12.50	-0.5				isPc	22	10.88		FRO	58.91	10	eP	21	58.49	-1.3
BAR	37.44	116	iP+	19	16.00	0.4				e	22	57.97		TIY	58.99	292	eP	22	00.50	-0.3
			e	20	01.00	210kmX	RSCP	50.88	84	eP	20	59.50	-3.0X		1.1s	500	.00nm			6.1mb
			e	20	24.00		BNH	51.24	66	eP	21	03.00	-2.1		Z	15s	9.20um			6.0MszX
HON	37.49	182	eP	19	16.00	0.0	SHK	51.28	274	eP	21	04.90	-0.6		N	12s	7.00um			

			pP	22	50.00	217kmX	
			sP	23	15.50		
			iS	29	52.00		
			sS	31	19.00		
FOO	59.08	10	eP	22	00.41	-0.5	
SUE	59.58	10	iPd	22	04.34	0.0	
HYA	59.60	9	iPd	22	04.59	0.1	
EVV	59.72	105	(P)	22	05.99	0.2	
SSE	59.91	281	Pd	22	06.00	-0.9	
	4.0s	2400.00nm				6.3mb X	
Z	20s	4.10um				5.6Msz	
E	15s	3.90um					
			pP	22	52.00	200kmX	
			iS	30	00.00		
			sS	31	25.00		
			ScS	31	36.00		
			SS	34	04.00		
NB2	60.10	7	P	22	06.70	-1.3	
ASK	60.19	10	iP	22	08.79	0.3	
OXX	60.20	107	(P)	22	11.40	2.1	
BER	60.30	10	eP	22	08.53	-0.7	
NJ2	60.33	283	iPd	22	08.80	-1.0	
	4.0s	1300.00nm				6.0mb X	
Z	21s	4.90um				5.6Msz	
N	15s	6.90um					
E	15s	5.90um					
			PP	24	28.30		
			eScP	26	33.00		
			iS	30	04.00		
			ScS	31	37.00		
ODD1	60.88	9	iP	22	12.71	-0.6	
NUR	60.98	359	iPd	22	13.00	-0.9	
			i	23	06.00	232kmX	
			e	25	30.00		
			e	26	40.00		
			e	30	16.00		
			e	31	40.00		
HFS	61.13	5	eP	22	12.90	-2.0	
	0.6s	756.20nm				6.6mb	
Z	17s	2.07um				5.4MszX	
			LR	44	30.00		
PSM	61.36	106	(P)	22	15.01	-1.9	
KONO	61.37	8	eP	22	15.55	-0.9	
			id	22	18.37	9kmX	
			isPc	23	28.06		
BLS1	61.41	9	iP	22	16.12	-0.8	
KMY	61.45	10	iP	22	16.23	-0.7	
BLS2	61.52	9	iP	22	16.86	-0.8	
UPP	61.56	3	iP	22	16.40	-1.3	
			i	22	17.20	3kmX	
			i	23	31.60		
			iS	30	21.00		
			iP'P'	51	23.30		
PJG	62.27	249	eP	22	18.20	-4.7X	
			pP	23	09.00	221kmX	
			e	24	28.00		
GUA	62.29	249	eP	22	18.80	-4.3X	
	0.7s	54.79nm				5.5mb	
			pP	23	09.00	218kmX	
			e	24	28.00		
SCX	62.54	103	(P)	22	27.00	2.4	
ELO	63.06	16	iPd	22	26.50	-1.2	
EDU	63.08	16	iPd	22	26.60	-1.2	
EAB	63.24	17	iPd	22	28.00	-0.8	
EBH	63.30	16	iPd	22	28.40	-0.8	
GTA	63.43	303	iPc	22	30.00	-0.5	
	4.5s	3800.00nm				6.5mb X	
Z	38s	16.20um				5.9MszX	
E	14s	8.10um					
			S	30	40.00		
			ScS	32	01.40		
XAN	63.63	292	Pd	22	32.00	0.3	
	6.0s	2800.00nm				6.2mb X	
N	12s	5.30um					
E	12s	3.40um					
			pP	23	20.00	207kmX	
			sP	23	45.00		
			S	30	50.00		
			sS	32	17.00		
EDI	63.66	16	eP	22	30.70	-0.8	
	0.7s	466.00nm				6.4mb	
EAU	63.70	16	iPd	22	31.30	-0.5	
ESY	63.75	16	eP	22	31.20	-0.9	
	0.5s	273.00nm				6.3mb	
WHN	63.81	286	Pc	22	32.50	-0.3	
	1.5s	700.00nm				6.2mb	
Z	16s	4.20um				5.7MszX	

N	14s	2.30um					
E	14s	4.00um					
			PcP	23	08.00		
			pP	23	22.00	213kmX	
			S	30	50.00		
EBL	63.83	16	eP	22	32.00	-0.7	
	1.0s	609.00nm				6.4mb	
TPX	64.28	104	(P)	22	36.00	0.0	
LZH	64.35	298	eP	22	35.67	-0.8	
	4.0s	3970.00nm				6.6mb X	
Z	36s	16.60um				6.0MszX	
N	12s	3.00um					
E	15s	9.80um					
			id	22	38.82		
			pP	23	30.00	236kmX	
			PP	24	58.00		
			S	30	55.00		
			sS	32	25.00		
ANP	64.53	277	eP	22	40.00	2.4	
			eS	31	00.00		
WMQ	64.68	314	iPd	22	39.75	1.3	
			id	22	42.06	7kmX	
			isPc	23	51.92		
TATO	64.71	277	ePc	22	39.19	0.5	
			ipPc	23	26.86	204kmX	
			esPd	23	51.53		
COP	65.51	7	iPd	22	43.90	0.6	
	0.9s	675.63nm				6.4mb	
			i	22	44.00	0kmX	
			i	22	48.00		
			i	23	36.20		
			i	23	56.00		
OBN	65.90	352	iPd	22	44.90	-1.0	
Z	18s	6.00um				5.8Msz	
			iS	31	12.00		
BSD	66.21	5	iPd	22	47.30	-0.5	
	0.3s	17.00nm				5.3mb	
OZH	66.23	279	P	22	47.30	-1.1	
	4.0s	2200.00nm				6.2mb X	
Z	28s	3.70um				5.4MszX	
N	17s	3.00um					
			S	31	19.00		
VAL	66.30	22	iP	22	47.50	-0.9	
			S	31	22.00		
ETA	66.30	19	eP	22	47.70	-0.8	
YRH	66.43	18	eP	22	48.00	-1.3	
ECP	66.77	19	eP	22	50.60	-0.8	
WIT	67.91	11	eP	22	59.50	1.1	
			epP	23	51.00	220kmX	
			epPKP	52	06.00		
DBN	68.46	12	iP-	23	03.00	1.2	
			epP	23	52.00	208kmX	
			isP	24	15.00		
			ePP	25	38.00		
			iS	31	52.00		
			i	32	40.00		
			esS	33	16.00		
CD2	68.67	294	P	23	02.90	-0.6	
	1.2s	700.00nm				6.3mb	
Z	18s	5.90um				5.9Msz	
E	13s	4.40um					
			pP	23	54.00	218kmX	
			sP	24	20.00		
			S	31	49.00		
			ScS	32	41.00		
			sS	33	18.00		
WTS	68.73	11	ePd	23	03.50	0.0	
	0.7s	425.00nm				6.3mb	
			eP'P'	51	11.00		
			epPKP	52	02.00		
BRN	68.81	7	iPd	23	05.50	1.6	
			epP	24	00.00	233kmX	
			ePP	25	36.00		
TLG	68.82	321	iP	23	05.40	1.1	
			iS	31	54.00		
UCC	69.65	13	iPd-	23	09.70	0.6	
			sP	24	22.00		
			PP	25	48.00		
			S	32	02.00		
			e	52	04.00		
			e	54	28.00		
PLH	69.71	11	ePd	23	09.10	-0.3	
ENN	69.85	12	ePd	23	10.00	-0.4	
	1.0s	460.00nm				6.2mb	
			eP'P'	51	08.00		
			epPKP	52	00.00		
CLL	69.90	7	iPd	23	10.30	-0.3	

	2.2s	2100.00nm				6.5mb	
			sP	24	23.00		
			eS	32	04.00		
			sS	33	31.00		
			P'P'	51	07.00		
SNF	69.93	13	iPc	23	10.00	-0.8	
MEM	70.02	12	iPd	23	11.06	-0.3	
			e	52	03.70		
			e	54	28.10		
FRU	70.10	322	iPd	23	14.00	1.9	
			iS	32	10.00		
DOU	70.37	13	P-	23	12.70	-0.8	
			P'P'	51	06.40		
BRG	70.39	6	iP	23	13.20	-0.4	
	2.0s	1600.00nm				6.4mb	
			i	23	34.00	79kmX	
			i	24	06.30		
			i	24	32.00		
			i	25	00.00		
			i	25	58.70		
			i	26	34.40		
			e	32	12.00		
			e	33	08.00		
			e	33	36.00		
			e	41	48.00		
GZH	70.44	282	eP	23	14.60	0.3	
	4.0s	3000.00nm				6.4mb X	
N	12s	2.20um					
E	14s	5.00um					
			pP	24	06.00	218kmX	
			iS	32	12.00		
			sS	33	41.00		
MOX	70.47	8	iPd-	23	14.00	-0.1	
	1.9s	2155.00nm				6.6mb	
Z	16s	3.00um				5.6MszX	
N	15s	2.20um					
E	15s	2.10um					
			ipP	24	07.00	225kmX	
			i	24	28.00		
			iS	32	12.00		
KSP	70.53	5	iPd	23	14.00	-0.5	
	0.7s	258.00nm				6.1mb	
			i	23	18.30	14kmX	
			i	24	07.60		
TNS	70.64	10	ePd	23	14.80	-0.4	
PIP	70.66	273	ePd	23	16.00	0.3	
	1.0s	166.00nm				5.7mb	
HKC	70.67	281	eP	23	17.20	1.5	
HOF	70.82	8	eP	23	15.80	-0.4	
ABH	70.89	11	eP	23	16.22	-0.5	
BST	70.91	19	P	23	16.55	-0.2	
WLF	70.97	12	iPd	23	18.32	1.3	
GYA	70.98	290	iPd	23	17.60	-0.1	
	3.0s	3200.00nm				6.5mb	
N	20s	7.90um					
E	20s	8.40um					
			pP	24	09.00	218kmX	
			S	32	16.00		
			sS	33	42.00		
RUP	71.02	11	eP	23	16.94	-0.6	
FLN	71.02	16	eP	23	16.40	-1.0	
	1.0s	484.00nm				6.2mb	
LDF	71.24	16	eP	23	17.70	-1.0	
TOD	71.28	10	eP	23	18.68	-0.3	
PRU	71.31	6	Pd	23	18.50	-0.6	
	2.2s	1553.30nm				6.3mb	
Z	16s	2.60um				5.6MszX	
N	19s	2.50um					
E	19s	3.10um					
			e	23	37.50		
			pP	24	33.70	331kmX	
			iS	32	18.50		
GRR	71.33	17	eP	23	18.40	-0.9	
GRF	71.39	8	iPd	23	19.70	0.1	
			e(pP)	24	15.60	238kmX	
KRA	71.43	2	eP	23	19.60	-0.2	
	0.7s	340.00nm				6.2mb	
Z	22s	5.30um				5.8Msz	
E	22s	6.30um					
			e	23	38.90	72kmX	
			i	24	39.00		
			iS	32	21.00		
KTD	71.50	10	eP	23	20.08	-0.2	
LPF	71.65	17	eP	23	20.70	-0.5	
GWF	71.79	11	P	23	22.15	0.1	
KRW	71.82	10	eP	23	23.59	1.5	
WET	72.05	7	eP	23	23.50	0.0	

01d 16h

			eS	32	31.50				1.2s	230.00nm		5.8mb		VRI	75.61	357	ePc	23	54.50	10.5X
KHC	72.11	7	iPd	23	24.10	0.2				ipP	24	25.90	219kmX	DEV	75.64	0	ePc	23	45.00	0.8
	1.0s	150.00nm				5.7mb	BUD	73.99	3	iP	23	35.50	0.8	RRL	75.72	12	Pc	23	46.00	1.0
	Z 18s	2.60um				5.5Msz	KMI	74.01	292	eP	23	35.13	-0.4	TIM	75.78	1	iPd	23	46.00	1.1
	N 18s	2.00um						6.0s	2300.00nm			6.1mb	X	UPA	75.81	96	iPd-	23	43.00	-2.5
	E 18s	2.40um						Z 20s	6.40um			5.9Msz			1.0s	60.00nm			5.3mb	
		e	24	20.80	242kmX			N 18s	7.80um						Z 20s	3.19um			5.6Msz	
		S	32	32.00				E 14s	4.20um					DSH	75.81	325	iPd	23	47.00	1.7
STU	72.14	10	iPc-	23	24.00	-0.1			id	23	37.78						eS	33	10.00	
	1.0s	400.00nm				6.1mb			ipPc	24	26.62	217kmX		VBY	75.82	6	ePc	23	45.30	0.1
STR	72.20	11	P	23	25.10	0.8			esPd	24	49.13			BZS	75.90	1	eP	23	45.50	-0.1
BAG	72.28	272	eP	23	24.00	-1.5			iS	32	48.00			RIY	75.93	6	eP	23	44.70	-1.1
		e	24	14.00	211kmX				ScS	33	20.00			BOB	76.14	10	P	23	47.00	-0.1
		eS	32	22.00					sS	34	17.00			SIM	76.18	352	iPd	23	48.00	0.8
SPC	72.31	2	iP	23	25.60	0.4	LLS	74.01	10	ePd	23	35.10	-0.1	DOI	76.18	12	Pd	23	46.50	-0.8
		e	32	46.00			KBA	74.14	7	iPd	23	36.00	0.1	CFR	76.26	356	ePd	24	00.00	12.4X
		e	33	47.00				0.5s	274.00nm			6.2mb		PCP	76.28	11	Pc	23	47.34	-0.5
CDF	72.32	11	eP	23	24.70	-0.5			i	23	39.80	12kmX		AFR	76.32	173	iP	23	47.60	-0.5
WLS	72.33	11	P	23	25.42	0.2			i	23	55.00				1.2s	145.00nm			5.6mb	
VITF	72.38	12	P	23	25.29	-0.1			i	26	31.90			PPN	76.33	173	iP	23	46.60	-1.6
ECH	72.50	11	P	23	26.17	0.0	RUV	74.17	170	iP	23	35.30	-0.7				epP	24	39.00	220kmX
HAU	72.63	12	eP	23	26.60	-0.3		1.2s	360.00nm			6.0mb		ISR	76.35	358	ePd	24	05.00	16.8X
	1.2s	1185.45nm				6.5mb			ipP	24	27.20	219kmX		PPT	76.36	173	iP	23	47.80	-0.6
KSH	72.70	320	iPc	23	29.00	1.4	AGO	74.17	14	P	23	36.33	0.4		1.2s	145.00nm			5.6mb	
	4.0s	6800.00nm				6.7mb X	OGA	74.18	9	iPd	23	35.20	-1.0	CKI	76.37	11	P	23	48.50	0.3
		PP	26	13.00			VAH	74.20	171	iP	23	35.60	-0.6	ELYF	76.40	18	P	23	47.69	-0.8
		iS	32	38.00				1.2s	255.00nm			5.8mb		STV	76.45	12	Pc	23	47.85	-1.0
		SKS	33	06.30					ipP	24	27.20	217kmX		PAE	76.45	173	iP	23	48.20	-0.7
BSF	72.84	11	eP	23	27.60	-0.7	IAS	74.27	357	eP	23	34.00	-2.3		1.2s	135.00nm			5.6mb	
MOF	72.86	11	P	23	28.46	0.1	OSS	74.29	9	ePd	23	36.50	-0.3	ROB	76.45	11	Pc	23	48.26	-0.5
UZH	72.89	1	iPc	23	29.00	0.7	PLDF	74.32	14	P	23	37.14	0.3	BOH	76.46	18	P	23	48.58	-0.4
		iS	32	37.00			VDL	74.43	10	ePd	23	37.70	0.1	ENR	76.48	12	Pc	23	47.85	-1.1
FUR	72.91	8	eP	23	28.50	-0.1	PYM	74.46	14	P	23	37.57	0.0	OGE	76.49	18	P	23	48.62	-0.3
FEL	72.92	11	eP	23	27.83	-0.9	PTT	74.56	358	eP	23	38.00	0.0	ATE	76.53	18	P	23	49.90	0.7
LOR	73.07	14	eP	23	28.80	-0.7	FVI	74.58	7	P	23	37.70	-0.4	ESCF	76.56	18	P	23	48.64	-0.7
	1.2s	836.80nm				6.3mb	EMS	74.60	12	ePd	23	38.30	-0.3	ISSF	76.57	18	P	23	51.37	1.8
SLE	73.08	10	ePd	23	28.70	-0.8	DIX	74.64	11	ePd	23	39.10	0.2	FIN	76.57	11	Pc	23	48.47	-1.0
VKA	73.11	5	eP	23	29.00	-0.7	RAB	74.66	233	eP	23	37.50	-1.5	TVO	76.60	173	iP	23	49.30	-0.5
	2.4s	2310.00nm				6.5mb			iS	31	56.00				1.2s	305.00nm			5.9mb	
		id	23	30.00	3kmX		MGP	74.67	81	P	23	38.80	-0.2				epP	24	40.00	212kmX
		i	24	45.30			RJF	74.69	16	eP	23	37.80	-1.1	JAU	76.63	17	P	23	49.79	-0.1
		iPP	26	14.90			MMK	74.72	11	ePd	23	39.70	0.4	TOUF	76.67	12	P	23	50.80	0.6
		e	33	40.00			TMA	74.76	10	ePd	23	38.70	-0.7	BEO	76.68	2	iP	23	50.50	0.6
VIE	73.13	5	iP-	23	30.50	0.7	RBL	74.79	7	P	23	38.50	-0.9	ECRI	76.70	19	eP	23	51.00	0.8
KMR	73.21	6	iP-	23	31.00	0.7	PORP	74.86	80	iP	23	39.30	-0.9	AUTN	76.70	12	P	23	50.91	0.5
		iPcP	23	46.20			LFF	74.94	16	eP	23	39.90	-0.3	LHE	76.71	18	P	23	51.02	0.7
		ipP	24	12.60	172kmX		VAI	74.98	10	P	23	40.30	-0.1	EPF	76.75	17	eP	23	49.30	-1.1
		ipPcP	24	43.60			L8L	75.00	14	P	23	40.90	0.4		1.2s	255.70nm			5.8mb	
		iPP	26	09.70			CTI	75.05	8	P	23	39.90	-1.1	AURF	76.80	12	P	23	50.95	0.2
		i	26	23.60			SJG	75.06	80	iP	23	41.00	-0.3	MME	76.81	9	P	23	52.00	1.0
		iS	32	30.80			SSB	75.11	13	P	23	49.94	8.7X	SBF	76.84	12	eP	23	50.60	-0.3
		iSP	33	07.40			LPL	75.13	12	eP	23	41.80	0.2	TLB	76.86	356	ePd	24	03.50	12.6X
		i	34	19.80			CAF	75.14	15	eP	23	40.80	-0.6	CALN	76.89	12	P	23	51.54	0.2
ZST	73.21	4	eP	23	30.20	0.0	LPG	75.15	12	eP	23	42.00	0.2	BDI	76.94	9	Pd	23	51.40	-0.1
SSF	73.23	14	eP	23	29.80	-0.6		1.2s	418.40nm			6.0mb		PTO	76.95	24	iPd	23	52.30	0.8
BBS	73.28	11	P	23	30.71	0.0	MDI	75.16	10	Pd	23	41.00	-0.4				eS	33	22.00	
LOMF	73.32	12	P	23	31.08	0.0	BIR	75.19	357	eP	23	42.00	0.4	REVF	76.95	12	P	23	51.58	0.1
ZLA	73.35	10	ePd	23	30.80	-0.3	VOY	75.21	7	eP	23	40.80	-1.1	FRF	77.05	12	eP	23	51.80	-0.2
LBF	73.36	14	eP	23	30.20	-1.0	LSD	75.23	12	Pc	23	42.83	0.6	BUC	77.08	358	iPd	23	51.00	-1.1
BHG	73.47	7	iPc	23	32.00	0.2	LJU	75.24	6	eP	23	41.50	-0.4	LRG	77.12	12	eP	23	52.50	0.1
	1.3s	538.00nm				6.1mb			eS	33	00.00				1.0s	406.25nm			6.1mb	
AVF	73.48	14	eP	23	31.20	-0.6	CPD	75.24	80	iP	23	41.30	-1.0	BUC1	77.15	358	iPd	24	04.00	11.5X
QCP	73.50	271	eP	23	18.00	-14.4X	PPE	75.24	357	ePc	23	54.00	12.1X	SFI	77.18	8	Pd	23	54.10	1.5
PSZ	73.57	2	iP	23	32.50	0.1	LPO	75.25	16	eP	23	41.40	-0.6	PGD	77.21	8	P	23	53.50	0.4
SRO	73.64	3	eP	23	33.00	0.3	STS	75.29	24	eP	23	42.80	0.6	RSM	77.21	8	P	23	53.60	0.8
		i	24	28.70	237kmX		SAL	75.40	9	P	23	42.90	0.1	LMR	77.26	12	eP	23	53.10	0.0
		i	24	45.90			LSA	75.43	304	iPd	23	45.00	1.2	PIL	77.27	9	P	23	52.30	-0.9
		e	50	37.10				E 15s	3.80um					SKI	77.45	77	eP	23	54.27	-0.3
		e	53	27.60					iS	33	07.00			CRE	77.48	8	P	23	55.20	0.7
		i	54	12.20					SS	38	03.00			DAV	77.54	263	eP	23	55.00	-0.1
BGF	73.64	14	eP	23	31.90	-0.9	PTJ	75.46	5	eP	23	42.90	-0.4				eS	33	30.00	
SAX	73.66	10	ePd	23	32.90	-0.4	TRI	75.53	7	ePc	23	42.70	-0.8	CPB	77.66	76	eP	23	54.03	-1.6
SMF	73.68	14	eP	23	32.20	-0.8			e	25	00.00	339kmX		ARV	77.68	8	P	23	55.70	0.2
SOP	73.70	5	iPc	23	35.20	2.1			e	26	40.00			NEV	77.70	77	eP	23	55.02	-0.9
LSF	73.77	15	eP	23	32.60	-0.9			e	43	42.00			PSN	77.76	356	iPd	23	56.00	0.1
TCF	73.82	15	eP	23	33.00	-0.9	CEY	75.54	6	eP	23	43.50	-0.1	ETER	77.82	15	eP	23	57.40	1.1
CEI	73.84	0	eP	23	27.00	-6.8X			e	24	36.50	223kmX		ASS	78.08	8	P	23	57.60	-0.2
SQTA	73.85	8	iPd	23	34.00	-0.1	ZAG	75.54	5	iPd	23	44.20	0.6	BPA	78.14	77	eP	23	56.88	-1.5
	0.5s	279.00nm				6.2mb	RSP	75.54	12	Pc	23	44.36	0.5	PLE	78.15	3	iPc	23	58.70	0.5
		i	23	37.80	12kmX		BNI	75.58	12	P	23	44.80	0.8	HVAR	78.19	5	iPd	23	57.60	-0.7
		i	24	54.30			QIZ	75.61	283	P	23	45.50	1.1	MGH	78.23	77	eP	23	58.80	-0.1
		i	27	30.80				N 18s	10.10um					PVL	78.29	358	iPd	23	59.00	0.2
MAF	73.93	15	eP	23	33.80	-0.7			pP	24	36.00	211kmX		PGF	78.30	11	P	23	59.01	0.0
PMO	73.94	171	iP	23	34.30	-0.4			PP	26	36.00			GUD	78.31	21	eP	23	59.80	0.6
	1.2s	195.00nm				5.7mb			S	33	09.00			EPLA	78.50	22	eP	24	00.80	0.7
		ipP	24	26.00	218kmX				sS	34	35.00			ETOR	78.52	19	eP	24	00.80	0.6
TPT	73.95	171	iP	23	34.00	-0.8			SS	38	04.00			BRY	78.55	3	eP	24	00.50	0.1

IVA	78.62	2	eP	24	01.00	0.3				eS	33	57.80		TBI	82.11	173	eP	24	21.00	2.0
MAO	78.62	9	Pd	24	01.00	0.4	SRS	80.41	360	ePc	24	10.50	0.4		1.0s	55.00nm				5.2mb
MNS	78.77	8	P	24	00.70	-0.8	FDF	80.45	77	eP	24	10.07	-0.7	EJIF	82.11	23	iPc	24	21.00	1.9
AOU	78.85	7	P	24	02.50	0.6	BSS	80.49	6	P	24	10.60	0.0	GUAN	82.19	84	eP	24	20.00	0.1
SEG	78.86	77	eP	24	01.90	-0.4	MAIO	80.49	331	iPc	24	12.20	1.4	NEO	82.21	360	eP	24	18.30	-1.3
PVY	78.89	2	eP	24	02.50	0.3		1.3s	245.10nm				5.8mb	ENIJ	82.23	20	eP	24	20.00	0.3
EROO	78.91	17	eP	24	02.20	0.0				eS	34	00.00		ALT	82.29	355	eP	24	21.10	1.0
EBR	78.93	17	eP	24	03.00	0.7	SDV	80.51	89	eP	24	10.30	-1.0	BOG	82.33	94	iPd	24	21.00	0.0
			e	25	20.00	334kmX	BRT	80.52	5	Pd	24	10.90	0.2				iS	34	14.00	
			e	27	04.00		HRT	80.55	355	eP	24	12.00	1.0	OJEN	82.44	23	iP	24	22.50	1.6
VTS	78.93	360	iP	24	03.00	0.5	CRM	80.56	77	eP	24	10.80	-0.5	AGG	82.50	1	ePc	24	20.50	-0.6
PGB	78.97	359	iP	24	02.00	-0.6	EVIA	80.56	20	iPd	24	12.50	1.4	CUM	82.52	82	iPc	24	21.50	0.0
HCY	79.00	3	eP	24	02.50	-0.2	GRG	80.56	1	ePc	24	11.70	0.7				i	34	19.00	
JMB	79.02	357	iP	24	03.00	0.3	GBZT	80.60	355	eP	24	12.70	1.6	GRI	82.54	5	P	24	21.02	-0.3
TTG	79.04	3	eP	24	02.30	-0.5	ALN	80.60	358	ePc	24	11.10	0.0		0.7s	357.30nm				6.2mb
			eS	33	42.00		BIM	80.68	78	eP	24	11.70	-0.2	TEH	82.88	337	eP	24	25.00	1.8
TOL	79.07	21	iPd	24	04.45	1.3	SOH	80.70	360	ePc	24	12.10	0.4	KHL	83.05	355	iP	24	24.50	0.5
			id	24	06.27		FNA	80.73	1	ePc	24	11.60	-0.3	IZM	83.06	357	iP	24	23.70	-0.3
			ipP	25	14.00	297kmX	MVM	80.74	77	eP	24	09.87	-2.4	ERC	83.08	8	P	24	24.30	0.2
			isP	25	57.00		SGO	80.75	6	P	24	12.50	0.6	LVI	83.11	9	P	24	25.20	1.0
			ePP	27	02.72		EVAL	80.76	24	eP	24	13.20	1.2	ATN	83.15	6	P	24	22.60	-1.8
			e	28	20.00		BMG	80.77	92	iPc	24	11.50	-1.1	GMB	83.16	6	P	24	23.76	-0.9
			iS	33	45.00		BERA	80.78	2	eP	24	12.40	0.4		0.4s	56.50nm				5.7mb
			ePS	34	54.00		EBAN	80.78	21	eP	24	13.80	1.6	GIB	83.23	7	P	24	24.90	0.0
PAG	79.09	77	eP	24	03.04	-0.5	YLV	80.82	355	iP	24	13.00	0.6	KKM	83.28	271	ePd	24	26.00	0.5
BCI	79.13	2	iP	24	03.40	0.1	EHOR	80.84	22	eP	24	13.60	1.2		1.1s	567.90nm				6.2mb
SFG	79.15	77	eP	24	04.30	0.5	KBN	80.88	2	iPc	24	12.70	0.2				e	25	18.00	214kmX
LIS	79.15	25	iPd	24	04.70	1.2	THE	80.89	0	ePc	24	14.00	1.4	NST	83.31	289	iPd	24	27.50	2.1
BDV	79.18	3	eP	24	03.20	-0.4				e	34	05.20		MNO	83.33	7	Pd	24	26.00	0.4
AZI	79.21	7	Pd	24	04.50	0.7	VLO	81.01	3	iP	24	14.70	1.5	CVT	83.45	8	P	24	28.00	2.1
GUN	79.23	307	P	24	04.70	0.1	LOE	81.04	289	iPd	24	12.50	-1.3	ATH	83.55	360	eP	24	28.70	2.4
RMP	79.34	8	Pd	24	04.70	0.2	ACU	81.04	19	eP	24	15.00	1.4	MCT	83.56	8	P	24	19.80	-6.9X
MGG	79.37	77	eP	24	04.04	-0.9	GPA	81.05	354	eP	24	14.30	0.7	PSO	83.56	98	eP	24	27.00	-0.2
RDP	79.39	8	P	24	05.00	0.2	CAR	81.06	85	eP	24	14.00	-0.1	TCE	83.57	80	eP	24	25.72	-1.1
PUK	79.44	2	iPd	24	05.70	0.7				iS	34	01.00		RKT	83.64	160	iP	24	26.00	-0.8
DIM	79.45	358	iP	24	05.00	-0.1	LCI	81.09	4	P	24	14.70	1.0		1.0s	180.00nm				5.8mb
SDA	79.46	3	iPd	24	10.40	5.3X	EDC	81.10	356	iP	24	14.60	0.9	SMG	83.76	357	eP	24	27.40	0.0
SDI	79.52	7	P	24	04.90	-0.6	GUAC	81.15	85	iPc	24	14.00	-0.6	COTA	83.77	100	P	24	29.00	0.5
SKO	79.54	1	iP	24	05.80	0.2	LLAV	81.15	85	iP	24	14.00	-0.5	TRN	83.79	80	eP	24	25.89	-2.0
	1.3s	552.00nm				6.1mb	MGR	81.18	6	P	24	13.60	-0.6		0.8s	416.30nm				6.2mb
			i	24	07.00	4kmX	OUR	81.19	359	ePc	24	13.70	-0.5	TSM	83.85	268	ePd	24	28.90	0.7
			i	24	08.70		CHG	81.20	292	iPd	24	14.00	-0.6		1.2s	749.90nm				6.3mb
			i	24	19.10			1.2s	339.06nm				6.0mb				e	25	21.00	214kmX
			i	24	50.00					eS	34	06.00		BCK	83.86	354	iP	24	28.10	0.1
			i	25	21.00		CHTO	81.20	292	eP	24	14.08	-0.5	FAI	83.92	8	P	24	31.00	2.8
			i	26	03.00			1.2s	195.83nm				5.7mb	TPP	84.04	80	eP	24	27.24	-1.9
			i	27	10.00					id	24	16.90		SLY	84.08	342	iPc	24	29.80	0.7
			i	30	13.00					ipPc	25	06.23	215kmX				iPP	25	18.00	
			iS	33	50.00					esPd	25	29.24					ipP	27	42.00	
			i	34	52.00		SLB	81.28	78	eP	24	15.37	0.3				iPPP	29	30.00	
			i	39	13.00		PLAV	81.30	85	eP	24	14.50	-0.9				eSKS	34	29.50	
			i	43	40.00		ORI	81.30	5	Pd	24	16.00	1.2				eS	34	38.00	
			i	44	46.00		LIT	81.42	1	ePc	24	15.50	0.1				eSP	35	31.50	
			i	49	10.00		CGL	81.48	11	P	24	16.79	0.9				esS	36	13.00	
DUI	79.60	7	Pd	24	06.60	0.6		0.9s	38.50nm				5.1mb	QUE	84.12	323	iPd	24	28.00	-1.6
BBL	79.62	77	eP	24	05.40	-1.0	KDB	81.53	236	eP	24	16.50	0.3				eS	34	34.20	
KKB	79.66	0	iPd	24	07.00	0.8	TAB	81.54	342	iP-	24	18.00	1.7	MEU	84.17	7	P	24	29.10	-0.5
GKN	79.66	308	P	24	06.80	0.2				e	25	32.00	317kmX	CAYA	84.17	99	P	24	30.60	0.1
PKI	79.72	307	P	24	07.20	0.0				e	27	28.00		PZI	84.24	7	P	24	31.76	1.8
KAS	79.76	352	iPd	24	08.00	1.2	OLLA	81.54	85	iPd	24	15.50	-1.0		0.8s	269.70nm				6.0mb
PHP	79.81	2	iPd	24	06.00	-0.9	AAPN	81.55	22	iPc	24	17.18	0.9	ITM	84.33	1	eP	24	29.50	-0.8
DMN	79.81	307	P	24	08.00	0.4	ASMO	81.57	21	iPc	24	17.37	0.9	VC1	84.57	100	P	24	33.00	0.5
RZN	79.83	359	iPd	24	07.00	-0.3	PAIG	81.59	360	ePc	24	15.60	-0.7	ELL	84.60	355	eP	24	32.10	0.3
MDN	79.83	77	eP	24	07.91	0.5	SRN	81.61	2	iP	24	16.50	0.2	VLI	84.80	0	eP	24	31.50	-1.2
LACI	79.85	3	iPd	24	07.50	0.4	SVV	81.62	78	eP	24	17.12	0.3	AAI	85.40	255	eP	24	35.00	-0.9
KDZ	79.86	358	iPd	24	08.00	0.8	SVB	81.64	78	eP	24	17.13	0.2	LFK	85.83	351	eP	24	37.60	-0.3
KVT	79.87	350	iP	24	08.10	0.7	EZN	81.66	358	iP	24	16.60	0.0	FAM	86.08	351	eP	24	41.00	2.0
DPMT	79.89	77	eP	24	08.15	0.4	EPRU	81.66	23	eP	24	18.00	1.2	VAM	86.10	359	eP	24	38.60	-0.5
ECHE	79.90	19	eP	24	08.00	0.5	TDS	81.70	5	Pd	24	17.50	0.6	DZM	86.12	214	iPc	24	39.80	0.5
RFI	79.93	7	P	24	08.46	0.9	AFC	81.71	21	iPc	24	18.20	1.0	CSS	86.16	352	eP	24	40.00	0.5
	1.7s	1198.80nm				6.3mb	FCV	81.74	78	eP	24	17.32	-0.1	PPCY	86.31	352	eP	24	40.50	0.4
MMB	79.93	360	iPc	24	08.00	0.3	ALOJ	81.75	22	iPc	24	18.50	1.1	TBT	86.37	35	iP	24	41.30	0.8
MORO	80.03	86	iP	24	08.00	-0.7	CRT	81.76	21	eP	24	19.27	1.9				i	25	38.00	233kmX
TIR	80.14	3	iPd	24	09.50	0.8	KEK	81.77	3	eP	24	18.00	0.8	BHD	86.54	342	iPc	24	28.00	-13.2X
TOV	80.18	87	eP	24	10.30	0.9	ACHM	81.80	21	iPc	24	18.90	1.3				epP	25	22.00	221kmX
			eS	33	56.00		ATEJ	81.95	22	iPc	24	19.35	0.9				ePP	27	47.00	
VAY	80.20	0	iP	24	10.00	1.0	IGT	81.96	2	ePc	24	18.30	0.8				eS	34	30.00	
	1.8s	1390.00nm				6.4mb	NDI	81.97	314	iPd	24	20.00	1.6				eSPP	35	44.50	
BAI	80.27	5	P	24	09.00	-0.3		0.7s	363.01nm				6.2mb				esS	36	05.50	
ITU	80.30	356	iPd	24	08.00	-1.5				ePP	27	32.00					ePPS	36	35.50	
ESEL	80.32	16	eP	24	10.20	0.5				eS	34	14.00		BHD	86.54	342	iPc	24	43.00	1.8
ISK	80.34	355	eP	24	10.50	0.8				ePPS	35	44.00					ipP	25	34.50	210kmX
RDO	80.36	358	eP	24	09.60	-0.2	APHE	81.98	21	iPc	24	19.44	0.9				iPP	28	09.50	
OHR	80.39	2	iPd	24	10.40	0.3	MAL	82.06	22	iP	24	20.70	1.9				iSKS	35	00.00	
	2.2s	3625.00nm				6.7mb				iPP	27	28.00					iSP	36	15.00	
			i	24	50.20	161kmX				iS	34	20.00		CTFE	87.05	34	iP	24	45.30	1.5
			i	25	11.20					iPS	35	52.00					i	25	44.20	243kmX

01d 16h

CHIE	87.25	36	iPc	24	46.40	1.6
			i	25	43.30	234kmX
GGC	87.57	34	iPc	24	47.30	0.9
			i	25	51.30	266kmX
CFTV	87.73	32	iPc	24	47.70	0.6
			i	25	54.50	278kmX
SHMJ	88.17	349	Pd	24	52.20	3.0X
JARJ	88.64	349	Pd	24	51.60	0.1
SALJ	88.89	349	Pc	24	52.70	0.0
KFNJ	89.04	349	Pd	24	53.30	0.1
MKRJ	89.35	349	Pd	24	54.70	-0.1
LISJ	89.67	349	Pd	24	56.30	0.2
SNG	90.34	284	iPc	25	01.20	1.8
	1.1s	420.25nm			6.3mb	
			e	25	54.80	218kmX
			eS	35	10.00	
DHLJ	90.48	354	Pc	24	58.40	-1.5
KOT	91.27	352	eP	25	02.00	-1.6
HLW	91.38	353	iP-	25	05.70	1.6
			e	26	25.00	335kmX
			ePP	28	09.80	
			i	28	37.70	
			e	29	20.00	
			ePPP	30	00.00	
			e	33	14.00	
			eS	35	14.70	
			ePS	35	45.00	
CTA	91.41	232	iPd	25	03.80	-0.3
	0.9s	163.87nm			6.0mb	
			i	25	58.80	224kmX
			i	29	26.00	
			iS	35	14.00	
			i	35	45.00	
			e	38	00.00	
HYB	91.59	308	ePd	25	05.00	-0.2
	1.0s	180.00nm			6.0mb	
			i	25	59.50	222kmX
HOL	91.67	350	ePd	25	06.30	0.9
MTN	91.84	248	iPd	25	04.70	-1.5
			e	25	06.60	6kmX
			e	25	58.00	
AYN	91.97	349	ePd	25	08.00	1.2
DHR	92.26	336	iPd	25	09.00	0.8
BBU	92.28	336	iP	25	06.40	-1.8
BRF	92.39	335	iP	25	07.90	-0.8
BADA	92.41	350	ePd	25	09.90	1.1
POO	92.44	313	iPd	25	10.00	0.8
BJA	92.46	335	iP	25	07.70	-1.4
BOM	92.50	314	eP	25	03.00	-6.3X
			iS	35	49.50	
MJMA	93.64	340	ePd	25	14.90	0.3
OASM	93.71	342	eP	25	15.80	0.8
RYD	94.51	339	iPd	25	18.70	0.1
WAJH	94.58	348	ePd	25	19.50	0.7
QIS	94.65	237	iPc	25	18.00	-1.0
			e	26	11.00	215kmX
			e	35	29.00	
NNA	95.05	105	iPd	25	20.00	-1.0
	0.9s	63.03nm			5.8mb	
	Z 18s	0.86um			5.3Msz	
			eS	29	16.00	
PT10	95.06	105	e(P)	25	22.00	1.0
PT08	95.18	104	iPd	25	22.80	0.8
GBA	95.48	308	Pd	25	22.40	-0.7
	1.0s	183.40nm			6.3mb	
BRS	95.51	223	iPc	25	22.50	-0.3
	1.0s	4.00nm			4.6mb	X
			iPP	26	15.00	
			e(S)	29	14.00	
			e	30	00.00	
			iScS	35	38.00	
RMO	96.17	227	eP	25	26.00	0.2
			e	26	20.00	219kmX
WB5	96.41	242	eP	25	24.80	-2.2
			e	26	18.00	216kmX
			ePP	28	53.30	
			eSKS	35	43.30	
			ePKKP	42	12.10	
WRA	96.47	242	Pd	25	25.30	-2.0
	0.9s	19.10nm			5.4mb	
PT03	97.28	105	eP	25	32.10	1.0
KOD	98.50	306	eP	25	36.00	-1.1
			eS	35	52.00	
COO	98.72	223	eP	25	39.00	1.7
			e	26	30.00	206kmX
KMSA	99.14	340	ePd	25	40.10	0.4
ASPA	99.90	240	eP	25	42.40	-0.4
	1.0s	17.00nm			5.4mb	
			i	26	35.50	215kmX
			iS	35	57.50	
MBO	100.05	39	iPdiff	25	46.50	2.9X
ARE	101.55	103	ePdiff	25	52.00	1.3
ZOBO	103.11	100	ePdiff	25	55.87	-2.1
			ePP	30	08.85	
LPB	103.34	100	Pdiff	26	00.00	1.2X
	Z 19s	2.78um			5.8Msz	
			S	30	20.00	
			LR	39	54.00	
BWA	103.44	224	ePdiff	26	01.10	2.7X
			e	26	52.90	
			e	30	09.20	
CAN	104.04	223	ePdiff	26	07.30	6.3X
			e	26	55.80	
			e	30	05.20	
			e	36	16.80	
CCH	105.06	99	Pdiff	26	06.90	0.7
SIV	106.52	94	Pdiff	26	11.60	-0.8
TIC	110.93	30	PKP	30	29.56	-1.1
KIC	111.27	30	PKP	30	30.34	-1.0
LIC	111.33	30	PKP	30	30.38	-1.0
KUK	112.50	25	ePKP	30	33.70	0.1
KOGH	112.62	25	ePKP	30	32.70	-1.2
LEGH	113.06	25	ePKP	30	34.00	-0.7
TEGH	113.11	25	ePKP	30	34.00	-0.8
BAL	113.88	250	ePKP	30	34.50	-1.4
PDCR	114.86	72	ePdiff	26	50.70	1.3
			e	30	37.30	
			e	30	39.90	
MUN	115.25	250	ePKP	30	37.00	-1.5
RTCB	115.40	109	e(PKP)	30	38.50	-0.4
RTLL	115.43	109	ePKPc	30	37.60	-1.3
NWAO	115.52	248	ePKP	30	37.00	-2.0
	0.4s	8.00nm				
CFA	115.77	109	e(PKP)	30	38.00	-1.6
PEL	115.83	112	ePKP	30	38.50	-1.1
			epPKP	31	36.50	
			eSKP	33	52.00	
			eSKS	37	08.50	
			ScSP'	41	13.40	
SAN	116.09	112	ePKP	30	40.00	-0.1
TACH	116.12	112	ePKP	30	39.00	-1.1
LNV	116.14	113	ePKP	30	39.00	-1.1
FCH	116.17	111	ePKP	30	41.40	0.8
CHCH	116.49	112	ePKP	30	40.00	-0.9
BCAO	116.82	5	ePKPd	30	40.35	-1.7
	0.5s	20.00nm				
			id	31	22.40	
			ic	32	41.80	
			i	34	24.71	
NAI	121.60	344	iPKP	30	52.50	1.2
	1.0s	30.00nm				
SBA	138.25	191	e(PKP)	31	19.90	-1.1
BUL	141.15	352	iPKPc	31	21.20	-6.9X
			i	31	30.20	
			i	34	32.90	
			i	43	08.30	
AIA	141.69	137	ePKP	31	27.50	0.1
WIN	143.50	9	iPKPd	-31	29.50	-2.6X
	1.2s	265.63nm				
	Z 18s	3.44um			6.2Msz	
SLR	146.72	352	iPKPd	-31	36.50	-0.9
	1.0s	825.00nm				
	Z 18s	14.78um			6.8Msz	
BFS	147.97	354	iPKPd	31	36.00	-3.3X
SPA	148.67	180	iPKPc	31	34.90	-4.3X
	1.0s	76.50nm				
	Z 20s	3.69um			6.2Msz	
			i	32	36.80	
BLF	150.20	355	iPKPd	31	42.00	-0.7
	0.9s	192.31nm				
HVD	151.72	356	iPKPd	32	00.00	15.1X
SUR	153.49	4	iPKPd	31	48.00	0.6
	1.0s	180.00nm				
MAW	160.43	227	iPKPc	31	54.70	0.2
			e	32	38.00	
			e	33	33.00	

S.D. = 1.0 on 678 of 711 obs.

& MAY 01, 1990 17h 24m 25.30s
34.610 N 120.370 W
DEPTH = 9.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.1 (PAS), 3.1 (BRK). Felt (IV) at Lompoc.

SYP	0.33	104	iPc	24	31.80	-0.4
BCH	0.62	22	iPd	24	36.90	-0.9
ABL	0.98	75	eP	24	43.50	-0.6
PHAM	1.22	359	eP	24	46.40	-1.8
PKEM	1.46	8	eP	24	50.00	-1.9
SAO	2.32	338	eP	25	01.20	-3.1
			eS	25	28.90	
ARN	2.89	341	eP	25	09.30	-3.1
PLM	3.17	112	eP	25	13.50	-3.0
CMB	3.42	360	eP	25	18.50	-1.4
TNP	4.30	35	e(P)	25	35.00	2.5
KVN	4.79	22	eP	25	40.00	0.5
	11 obs. associated					

MAY 01, 1990 18h 53m 11.58± 0.67s
39.937 N ± 5.3km 23.939 E ± 5.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.7 (THE).

PAIG	0.20	267	ePg	53	16.10	0.1
			eSg	53	19.20	
OUR	0.40	5	ePg	53	20.40	0.7
NEO	0.84	221	ePb	53	27.50	-0.3
SOH	0.99	333	ePg	53	30.50	0.1
			eSg	53	43.20	
THE	1.02	313	ePg	53	31.40	0.6
			eSg	53	45.00	
LIT	1.12	279	ePg	53	32.80	0.1
			eSg	53	49.20	
SRS	1.21	347	ePb	53	34.00	-0.1
			eSb	53	51.20	
AGG	1.54	234	ePb	53	38.40	-0.8
			eSb	53	58.40	
MMB	1.66	355	iPc	53	40.00	-0.8
RDO	1.72	45	ePb	53	40.00	-1.6
VAY	1.73	323	ePn	53	42.30	0.4
ALN	1.87	59	ePn	53	46.50	2.6
KKB	2.03	342	iPc	53	46.00	-0.3
KDZ	2.05	33	eP	53	45.00	-1.4
FNA	2.13	294	ePn	53	48.50	0.7
			eSn	54	13.90	
PGB	2.62	4	eP	53	55.00	0.4
SKO	2.78	318	ePn	53	56.00	-0.9
ITM	3.17	210	ePn	54	03.00	0.5
MLR	5.74	14	eP	54	50.00	11.0X
	S.D. = 1.0 on 18 of 19 obs.					

---

* MAY 01, 1990 20h 14m 46.51± 2.76s
31.654 S ± 8.5km 68.173 W ±23.3km
DEPTH = 14.5 ± 6.7 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.07	310	eP	14	49.50	-0.1
RTCV	0.37	236	iPc	14	53.00	-1.3
			(S)	15	09.00	
RTLL	0.41	322	iPc	14	54.70	-0.3
ZON	0.44	284	iPd	14	55.70	0.1
			eS	15	07.00	
RTCB	0.56	287	eP	14	58.10	0.5
RTBS	1.09	269	ePd	15	06.90	0.3
FCH	2.45	226	iPd	15	28.50	1.6
			iS	16	02.10	
PEL	2.59	234	iPd	15	29.00	0.3
			iS	16	06.90	
TACH	3.07	229	iP	15	34.20	-1.2
			i	16	22.50	
CHCH	3.09	222	ePc	15	37.10	1.4
			iS	16	21.10	
LNV	3.56	229	eP	15	41.00	-1.4
			i	16	36.00	
	S.D. = 1.2 on 11 of 11 obs.					

---

* MAY 01, 1990 20h 42m 39.75± 0.57s
11.808 N ±12.4km 86.962 W ±10.8km
DEPTH = 33.0km (normal)
4.7mb (3 obs.)
NEAR COAST OF NICARAGUA (74)

OXX	10.81	300	(P)	45	15.00	-0.6
PPM	13.36	304	(P)	45	50.00	-0.1
III	13.72	300	(P)	45	54.00	-0.6
IIJ	14.59	304	(P)	46	07.00	0.7
UYO	23.28	344	iPd	47	47.00	1.5
MEO	25.20	337	e(P)	48	05.00	1.0
TUL	25.29	343	eP	48	05.20	0.4
	0.8s	61.00nm			5.3mb	

```
SIV     37.67 137 P      49 53.80   -0.2
FFC     44.42 348 eP     50 49.00   -0.1
        0.8s     10.00nm          4.7mb
SCH     45.76  16 eP     51 00.00    0.3
BAO     47.24 124 eP     51 11.50   -0.5
YKA     54.35 345 eP     52 03.00   -2.3
        0.8s      1.30nm          4.0mb
INK     63.96 343 eP     53 11.00   -0.6
MBC     66.72 352 eP     53 28.00   -1.3
WB5    139.52 253 ePKP   02 06.70    0.1
WRA    139.54 253 PKPc   02 08.10    1.5
        0.6s      6.30nm
HYB    147.63  26 ePKP   02 20.50    0.0
CHG    149.02 349 ePKP   02 27.00    4.3X
GBA    150.39  32 PKPd   02 25.80    1.0
        0.8s      3.30nm
      S.D. = 1.0  on  18 of  19 obs.
-------------------------------------
?  MAY  01, 1990  21h 18m 06.79± 1.09s
   29.694 S ±13.4km   71.054 W ±21.4km
   DEPTH = 208.8 ± 34.9 km
 NEAR COAST OF CENTRAL CHILE        (135)

RTBS    2.40 145 ePc     18 50.50    0.1
RTCB    2.64 133 eP      18 52.90   -0.4
ZON     2.76 133 eP      18 57.00    2.4X
RTLL    2.76 127 ePc     18 53.50   -1.1
RTCV    3.06 136 ePc     18 58.50    0.4
                 S       19 39.00
CFA     3.08 129 ePc     18 58.10   -0.3
IHA     3.36 188 eP      19 04.50    3.0X
                 iS      19 57.90
PEL     3.45 175 iPd     19 02.60   -0.2
                 i(S)    20 50.80
FCH     3.68 170 eP      19 07.70    1.9
                 i       19 53.00
TACH    3.95 179 eP      19 09.00    0.2
                 iS      19 58.00
LNV     4.26 184 eP      19 11.50   -1.1
                 i       20 10.00
ANT     5.99   6 e(P)    19 36.00    1.3
ZOBO   13.63  12 P       21 11.00   -2.5
SIV    16.44  36 P       21 49.00    1.6
      S.D. = 1.5  on  12 of  14 obs.
-------------------------------------
?  MAY  01, 1990  21h 43m 55.64± 2.73s
   32.641 S ±20.1km  177.055 E ±35.0km
   DEPTH =  33.0km  (normol)
   4.0mb (  1 obs.)
 NORTH OF NEW ZEALAND               (176)

HBZ     5.05 169 eP      45 11.20    0.2
NOZ     6.02 173 eP      45 23.70   -1.0
                 eS      46 32.00
PGZ     7.99 184 eP      45 54.00    1.7
MNG     8.06 189 eP      45 54.00    0.7
MTW     8.59 188 eP      46 00.20   -0.5
CAW     8.60 190 eP      46 00.30   -0.5
TCW     8.84 194 eP      46 05.00    0.9
KHZ    10.15 195 eP      46 20.40   -1.7
                 eS      48 13.10
WRA    40.08 278 Pc      51 29.90    0.1
        0.4s      1.30nm          4.0mb
WB5    40.08 278 eP      51 29.70   -0.1
      S.D. = 1.1  on  10 of  10 obs.
-------------------------------------
&  MAY  01, 1990  22h 30m 11.78s
   60.646 N          151.034 W
   DEPTH =  46.4km
 KENAI PENINSULA, ALASKA            ( 14)
      <AGS-P>.

NKA     0.14 314 iP      30 21.08    3.3
SLKM    0.42 109 iP      30 21.70   -0.3
RDT     0.68 264 iP      30 24.58   -0.7
                 eS      30 35.32
SPU     0.73 318 iP      30 25.36   -0.6
                 iS      30 36.39
CGLM    0.82 325 iP      30 26.61   -0.6
                 iS      30 38.57
CRP     0.83 319 iP      30 27.00   -0.4
SUA     0.83  10 iP      30 26.68   -0.7
                 iS      30 39.48
RED     0.89 256 iP      30 27.29   -0.9
                 iS      30 40.14
NCG     0.94 325 iP      30 28.36   -0.5
                 iS      30 41.94

PMS     0.94  49 iP      30 28.06   -0.7
                 iS      30 40.73
SEW     0.96 124 eP      30 27.79   -1.2
CNPM    1.13 185 iP      30 30.62   -0.8
                 iS      30 45.64
PWA     1.15  29 eP      30 31.52   -0.2
                 eS      30 47.62
PLRM    1.32  43 iP      30 33.20   -0.9
                 eS      30 50.79
SKT     1.36 350 iP      30 34.17   -0.5
                 eS      30 52.42
KNK     1.47  57 iP      30 35.26   -1.0
GHO     1.52  41 iP      30 36.10   -1.0
SML     1.75  47 eP      30 39.02   -1.2
CUT     1.80  11 eP      30 40.77   -0.1
GLI     1.95  81 iP      30 40.15   -2.9
CDD     2.17 219 eP      30 45.71   -0.4
VZW     2.23  77 iP      30 44.54   -2.5
SVW     2.29 284 iP      30 45.89   -2.0
VLZ     2.35  76 eP      30 46.37   -2.3
NCA     2.44  55 eP      30 48.85   -1.2
KLU     2.63  69 eP      30 50.39   -2.4
TOA     2.76  56 eP      30 53.26   -1.4
KTH     2.92   1 eP      30 57.48    0.6
TTA     3.29 316 iP      31 00.74   -1.4
GLB     3.60  74 eP      31 03.45   -3.1
        30 obs. associoted
-------------------------------------
*  MAY  01, 1990  22h 54m 17.36± 1.81s
   44.234 N ±13.1km    8.431 E ±13.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.3 (GEN).

FIN     0.16 261 P       54 21.08    0.0
                 S       54 25.59
PCP     0.32  15 P       54 23.95    0.0
                 S       54 30.00
ROB     0.41 279 P       54 25.59   -0.1
                 S       54 33.18
ENR     0.73 270 P       54 31.13   -0.6
                 S       54 42.21
STV     0.80 271 P       54 33.69    0.8
                 S       54 45.28
SBF     0.81 243 Pg      54 32.70   -0.4
                 Sg      54 53.73
FRF     1.45 243 Pg      54 44.00    0.3
                 Sg      55 04.00
      S.D. = 0.6  on   7 of   7 obs.
-------------------------------------
   MAY  02, 1990  01h 01m 24.93± 0.16s
   49.268 N ± 3.8km  155.624 E ± 3.0km
   DEPTH =  94.5km  ( 11 depth phases)
   5.2mb ( 62 obs.)
 KURIL ISLANDS                      (221)
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 29C
      Centroid Locotion:
      Origin Time        01:01:20.6 0.4
      Lat 49.21N 0.03 Lon 155.95E 0.08
      Dep  39.8 3.1 Half-duration  2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.31 0.04  Mtt=-0.44 0.05
        Mff=-0.87 0.07  Mrt= 0.04 0.10
        Mrf= 0.87 0.11  Mtf=-0.68 0.06
       Principal Axes:
        T  Val=  1.63  Plg=69  Azm=254
        N       -0.07       15       27
        P       -1.56       15      121
       Best Double Couple:Mo=1.6*10**17
        NP1:Strike=232 Dip=33 Slip= 118
        NP2:        19     62       73

KUSJ    9.76 235 P       03 37.40   -6.7X
                 S       05 20.60
ASAJ   10.29 245 P       03 50.10   -1.2X
HOOJ   11.01 236 P       03 55.80   -5.1X
                 S       05 54.40
SMY    12.14  66 P       04 09.00   -6.7X
MRRJ   12.23 241 eP      04 11.70   -5.2X
                 S       06 26.10
NIIJ   17.02 231 P       05 12.40   -5.8X
KAKJ   17.25 227 P       05 17.50   -3.6X
ADK    17.74  71 P       05 23.00   -3.9X
CHJJ   17.95 229 P       05 26.10   -3.5X
MAT    17.96 231 eP      05 26.00   -3.7X

       1.1s     96.20nm          4.9mb
    Z  20s      3.55um
                 eS      08 44.00
MTMJ   18.13 232 P       05 29.10   -2.8X
MDJ    18.33 265 Pc      05 32.70   -1.6X
       1.0s    100.00nm          5.0mb
    Z  14s      4.50um
    E  12s      0.90um
                 esP     05 46.00
                 iS      08 54.00
IIDJ   18.94 230 P       05 39.00   -2.0X
TSRJ   19.89 234 P       05 48.60   -2.3X
WKYJ   21.10 232 P       06 02.30   -1.1X
CN2    21.38 267 P       06 02.00   -4.0X
    Z  22s      3.50um          4.7Msz
    N  16s      1.60um
    E  16s      1.50um
                 S       10 28.00
YONJ   21.51 237 eP      06 06.70   -0.7
TKSJ   22.10 234 P       06 13.40    0.2
SNY    23.51 264 eP      06 23.00   -3.8X
    Z  20s      2.10um          4.6Msz
    N  18s      1.90um
    E  18s      1.60um
                 S       10 28.00
SHNJ   23.60 239 eP      06 28.40    0.6
KUMJ   24.94 237 eP      06 41.40    0.8
KAGJ   25.94 235 eP      06 50.50    0.6
BJI    29.25 267 eP      07 18.50   -1.2
       1.2s     23.00nm          4.7mb
    Z  20s      2.10um          4.8Msz
    N  15s      1.02um
TTA    29.43  44 iPc     07 20.30   -0.9
SVW    29.51  48 ePc     07 21.80   -0.2
IMA    30.78  38 iPc     07 32.00   -1.2
BRW    30.95  28 iPc     07 33.30   -1.1
SSE    31.60 240 P       07 40.00   -0.5
    Z  20s      1.40um          4.6Msz
    N  14s      0.80um
                 eS      12 46.00
                 eSS     14 36.00
HHC    31.85 272 P       07 41.00   -1.8
NJ2    32.37 252 Pc      07 46.60   -0.6
       1.2s    100.00nm          5.5mb
    Z  22s      0.80um          4.4Msz
PMR    32.63  47 ePc     07 49.50    0.3
    Z  20s      1.10um          4.6Msz
TIY    32.96 266 Pd      07 51.20   -1.2
       1.2s    100.00nm          5.5mb
    Z  30s      1.60um          4.5MszX
    E  21s      1.70um
BTO    32.99 272 eP      07 51.00   -1.7
    N  15s      0.80um
    E  15s      1.60um
F8A    33.15  41 iPc     07 53.10   -0.5
TOA    33.99  46 iPc     08 00.70   -0.4
WHN    36.22 254 Pd      08 19.50   -0.6
       1.0s    100.00nm          5.7mb
GUMO   36.66 198 eP      08 24.00    0.0
XAN    37.44 264 P       08 28.50   -1.9
    N  19s      1.60um
    E  15s      0.50um
QZH    37.66 243 eP      08 32.30    0.0
INK    38.62  34 iPc     08 40.00    0.1
       0.8s     49.00nm          5.4mb
LZH    39.52 270 P       08 47.50   -0.5
       1.4s     98.00nm          5.5mb
    Z  24s      2.40um          5.0MszX
    N  15s      1.30um
    E  13s      0.90um
                 pP      08 56.00   29kmX
                 eS      14 41.00
GTA    40.28 278 eP      08 53.40   -0.7
    Z  16s      3.50um          5.3MszX
    E  16s      2.20um
MBC    41.65  21 eP      09 04.50   -0.2
       0.5s     12.00nm          5.0mb
GZH    42.19 247 eP      09 08.60   -1.1
CD2    42.79 264 P       09 14.40   -0.2
GYA    43.91 257 iPc     09 24.00    0.1
                 S       15 50.00
WMQ    45.61 298 P       09 37.90    0.7
    Z  14s      1.53um          5.1MszX
    E  12s      0.86um
KMI    47.36 259 Pd      09 51.00   -0.4
    Z  20s      0.90um          4.7Msz
                 sP      10 10.00
QIZ    47.39 247 P       09 52.70    1.4
```

02d 01h

	N	15s	1.10um						0.7s	15.50nm	5.0mb			0.8s	13.45nm	4.8mb							
			S	16	42.00			Z	22s	1.00um	5.1Msz		ZLA	79.54	338	ePd	13	22.20	-0.2
YKA		47.90	39 eP	09	54.00	-0.8				e	13	30.90	154kmX	COO	79.55	183	eP	13	24.00	1.5
		0.7s	7.20nm			4.6mb				LR	38	00.00		BSF	79.59	339	P	13	22.24	-0.5
LSA		51.83	273 P	10	25.40	-0.4	KSP		74.38	335 eP	12	53.00	-0.6	RSCP	79.59	47	P	13	22.00	-0.9
PNT		52.38	55 eP	10	29.00	-0.1				e	13	18.30	97km	TRI	79.74	334	eP	13	22.40	-1.0
		0.9s	27.00nm			5.3mb	KOD		74.59	268 eP	12	56.00	0.3	ALT	79.76	320	eP	13	23.00	-0.7
EDM		53.37	49 iPc	10	35.70	-0.6	CLL		74.84	337 iPd	12	56.30	0.1	BBS	79.77	339	P	13	23.28	-0.3
DAG		54.19	358 eP	10	40.00	-2.0			1.3s	22.00nm	4.9mb			OSS	79.84	337	ePd	13	24.60	0.4
NEW		54.33	55 P	10	42.60	-0.9				pP	13	20.00	90km	NANU	79.92	217	iPd	13	26.00	1.4
		0.9s	14.25nm			5.0mb				eSg	30	22.00		LLS	79.96	337	ePd	13	25.00	0.2
CHG		54.33	257 iPc	10	43.90	0.1	WIT		74.94	341 eP	13	00.00	3.2X	CTI	80.03	335	P	13	24.50	-0.6
		1.0s	192.50nm			6.1mb				e	13	23.00	87km	LOMF	80.04	339	P	13	24.79	-0.3
CHTO		54.33	257 iPc	10	43.70	-0.1	BRG		74.99	336 eP	12	57.80	0.7	FLN	80.20	344	eP	13	25.70	-0.1
FHC		54.91	66 eP	10	48.70	0.9				e	13	17.60	74kmX		0.8s	37.60nm			5.3mb	
KEV		55.53	341 eP	10	53.00	1.2	ASPA		75.15	201 iPd	12	59.10	0.8	LDF	80.30	344	eP	13	26.20	-0.1
WDC		55.91	66 eP	10	55.70	0.7			1.0s	21.00nm	4.9mb				0.8s	32.25nm			5.2mb	
NST		55.92	253 eP	10	58.50	3.3X	FVM		75.35	48 P	12	59.00	-0.4	SRS	80.58	325	eP	13	28.00	0.0
GUN		56.46	275 P	10	58.20	-1.3	PRU		75.63	335 eP	13	00.00	-0.8	SKO	80.62	327	eP	13	28.50	0.4
PKI		57.00	275 P	11	02.00	-1.3		Z	20s	2.20um	5.5Msz				Z	22s	1.13um			5.2Msz	
		0.6s	26.00nm			5.5mb		N	20s	1.60um					N	21s	0.67um				
DMN		57.17	275 P	11	03.60	-0.8		E	19s	0.70um					E	22s	0.75um				
		1.0s	85.00nm			5.8mb				e	13	26.00	100km				i	13	54.00	97km
ORV		57.18	66 eP	11	04.00	0.0	WTS		75.68	341 eP	13	01.50	0.5	GRR	80.63	344	eP	13	28.30	0.2
GKN		57.21	276 P	11	03.50	-1.0			1.0s	13.00nm	4.7mb				0.9s	72.05nm			5.5mb	
SOD		57.51	339 eP	11	04.00	-1.9				e	13	25.50	92km	TMA	80.70	337	ePd	13	28.80	0.1
FFC		57.73	42 eP	11	07.00	-0.7	MOX		75.80	337 eP	13	02.50	0.7	SAL	80.73	336	P	13	28.30	-0.3
		0.9s	23.00nm			5.2mb		Z	24s	1.30um	5.2MszX			LOR	80.78	341	eP	13	28.90	0.0
SXM		58.81	54 eP	11	15.70	0.1	MLR		75.95	326 ePc	13	16.50	13.7X		1.0s	32.00nm			5.1mb	
CMB		58.82	67 eP	11	16.20	0.7	CMP		76.47	327 ePc	13	00.00	-5.6X	VAY	80.78	326	eP	13	29.00	0.0
PRS		59.33	69 eP	11	19.30	0.3	SRO		76.49	332 iP	13	06.30	0.7	MDI	80.79	337	P	13	36.50	7.6X
KVN		59.52	64 P	11	20.00	-0.6				i	13	32.20	100km	CVL	80.83	40	P	13	30.00	0.7
GDH		59.86	12 eP	11	20.00	-2.2	ZST		76.52	333 eP	13	06.20	0.5	GRC	80.92	341	P	13	29.57	0.0
FRI		59.91	67 e(P)	11	22.90	0.0				e	13	30.50	93km	SOH	80.93	325	eP	13	29.60	-0.3
TNP		60.68	65 P	11	28.40	-0.1	KHC		76.68	335 iP	13	07.50	0.8	VAI	80.95	337	P	13	30.00	0.2
		0.8s	13.73nm			5.1mb			1.0s	14.00nm	4.8mb			MMK	80.98	338	ePd	13	31.10	0.8
			pP	11	42.00	49kmX		Z	20s	1.80um	5.4Msz			LPF	81.00	344	eP	13	30.60	0.6
SUF		61.40	336 eP	11	28.00	-4.7X		N	20s	1.20um					1.0s	60.00nm			5.4mb	
BW06		61.92	56 P	11	36.50	-0.3		E	18s	0.70um				LBF	81.02	341	eP	13	29.90	-0.3
CLC		61.96	67 eP	11	37.00	0.1				e	13	32.60	96km		1.0s	16.00nm			4.8mb	
			e	11	50.00	46kmX	GRF		76.78	337 iPc	13	07.10	-0.1	SSF	81.05	341	eP	13	30.20	-0.1
FRB		62.11	21 eP	11	35.00	-2.4		Z	19s	0.80um	5.1Msz				0.8s	14.10nm			4.9mb	
		0.6s	32.00nm			5.5mb				e	13	08.60	5kmX	DIX	81.09	338	ePd	13	31.60	0.7
SNG		62.19	247 eP	11	39.20	0.7	WET		76.85	336 eP	13	08.20	0.6	OUR	81.12	325	eP	13	31.20	0.5
PAS		62.73	69 eP	11	55.00	13.0X	YRH		76.91	348 eP	13	08.00	0.2	EMS	81.21	339	ePd	13	31.90	0.5
MWC		62.75	68 eP	11	51.00	8.7X	ENN		77.03	341 eP	13	08.50	0.0	THE	81.24	326	eP	13	30.00	-1.4
GSC		62.78	67 eP	11	43.00	0.6			1.0s	35.00nm	5.2mb			AVF	81.34	341	eP	13	31.90	0.1
			e	11	56.00	46kmX				e	13	33.50	96km		0.9s	36.05nm			5.2mb	
RVR		63.32	68 eP	11	45.00	-0.9	SOP		77.14	333 eP	13	12.60	3.4X	SMF	81.37	341	eP	13	32.10	0.1
NUR		63.64	335 eP	11	44.00	-3.5X	MEM		77.16	341 P	13	09.80	0.6		1.0s	36.00nm			5.2mb	
RSSD		63.93	52 P	11	49.50	-0.5	ETA		77.25	349 eP	13	11.10	1.4	OHR	81.61	327	eP	13	32.50	-0.9
RSON		64.03	41 P	11	48.80	-1.5	BZS		77.36	329 eP	13	10.50	0.1		0.7s	460.00nm			6.4mb	X
		0.8s	10.02nm			4.8mb	KMR		77.50	335 iP+	13	11.00	-0.2	BGF	81.67	341	eP	13	33.80	0.2
TPC		64.05	67 eP	11	51.00	0.3				ipP	13	38.30	106kmX		0.8s	17.45nm			5.0mb	
PLM		64.07	68 P	11	50.00	-1.0	SNF		77.61	342 iP	13	11.28	-0.4	FNA	81.69	327	eP	13	34.20	0.4
			pP	12	04.00	50kmX	ECP		77.78	349 eP	13	14.00	1.4	LSD	81.73	338	P	13	34.62	0.4
BAR		64.65	69 eP	11	55.00	0.5	DOU		77.94	341 P	13	13.60	0.0	RSM	81.75	334	P	13	34.90	1.0
KGM		64.74	241 eP	11	57.00	1.7	BBTK		77.97	319 eP	13	00.00	-14.0X	ELL	81.78	319	eP	13	34.00	-0.5
GLA		65.51	67 P	12	00.00	-0.1	BBTK		77.97	319 iPc	13	16.00	2.0	LPL	81.78	338	eP	13	35.40	0.9
UPP		66.01	338 iP	12	05.30	2.6	BHG		78.15	335 iPd	13	16.30	1.5		0.8s	43.00nm			5.4mb	
GOL		66.32	56 P	12	06.00	0.5	GWF		78.32	339 P	13	15.13	-0.6	LPG	81.79	338	eP	13	35.50	0.9
		0.9s	22.73nm			5.1mb	KBA		78.61	335 iPd	13	18.50	1.0		1.0s	66.00nm			5.4mb	
NB2		66.37	342 P	12	03.50	-1.7			0.6s	46.70nm	5.5mb			BOB	81.80	336	Pc	13	34.90	0.5
		0.7s	4.20nm			4.5mb				i	13	21.20	9kmX	LIT	81.88	326	eP	13	34.40	-0.4
HFS		66.67	340 eP	12	05.00	-2.0				i	13	31.20		SFI	81.93	334	P	13	37.00	2.1
		0.5s	5.20nm			4.7mb				i	13	45.70		MME	82.00	335	P	13	36.80	1.2
MAIO		67.12	299 eP	12	12.00	1.7	WLS		78.92	339 P	13	18.68	-0.3	RSP	82.00	338	P	13	34.83	-0.6
			eS	21	04.00		PTJ		78.92	333 eP	13	18.60	-0.5	PGD	82.01	335	P	13	36.70	1.1
HYB		68.61	272 iPc	12	19.00	-0.8	CDF		78.93	339 P	13	18.75	-0.4	MAF	82.05	341	eP	13	36.30	0.7
		1.0s	70.00nm			5.5mb	ZAG		78.99	333 eP	13	18.70	-0.6		0.8s	23.50nm			5.1mb	
ANMO		69.10	61 P	12	23.00	0.2	SQTA		79.06	336 iPd	13	21.60	1.7	TCF	82.06	342	eP	13	35.90	0.3
ALQ		69.10	61 ePc	12	23.00	0.2			1.5s	100.00nm	5.4mb				0.9s	20.45nm			5.0mb	
		0.9s	11.76nm			4.7mb				i	13	45.80	92km	PLDF	82.06	341	P	13	36.21	0.5
			e	12	37.00	49kmX				i	14	37.80		AGO	82.09	341	P	13	36.56	0.8
SCH		70.35	24 eP	12	29.00	-0.8	RBL		79.13	334 P	13	19.70	-0.5	BDI	82.15	335	P	13	36.40	0.2
POO		70.87	276 eP	12	33.50	-0.1	ECH		79.15	339 P	13	19.79	-0.4	CRE	82.17	334	P	13	37.00	0.7
BOM		71.28	277 eP	12	34.00	-1.9	FVI		79.21	335 P	13	20.00	-0.5	MFF	82.22	343	eP	13	37.00	0.6
WB5		71.39	201 eP	12	35.50	-0.9	LJU		79.22	334 eP	13	21.00	0.4		1.0s	32.00nm			5.1mb	
WRA		71.46	201 Pc	12	36.00	-0.8	SLE		79.25	338 ePd	13	20.50	-0.3	BNI	82.23	338	P	13	37.40	0.7
		1.0s	15.20nm			4.8mb	FEL		79.26	338 P	13	20.31	-0.7	LSF	82.23	342	eP	13	36.70	0.2
DZM		71.67	169 iPc	12	36.20	-1.9	VOY		79.41	334 eP	13	20.70	-1.1		1.0s	52.00nm			5.4mb	
TEH		72.04	304 eP	13	00.00	19.5X	VITF		79.41	340 P	13	21.43	-0.2	PCP	82.24	337	P	13	36.16	-0.5
GBA		72.12	270 Pc	12	40.40	-0.6	WARB		79.44	206 eP	13	23.00	1.1	PYM	82.40	341	P	13	37.91	0.4
		1.2s	73.30nm			5.4mb	VBY		79.49	333 e(P)	13	23.20	1.1	CKI	82.42	337	P	13	37.40	-0.1
TAB		72.96	309 eP	12	44.00	-1.8	MOF		79.49	339 P	13	21.64	-0.6	SHMJ	82.44	312	Pd	13	39.00	1.2
KRA		74.00	332 eP	12	51.80	0.4	CEY		79.52	333 eP	13	22.60	0.3	ASS	82.48	334	P	13	38.00	0.1
TUL		74.23	53 eP	12	53.00	0.0	HAU		79.53	340 eP	13	22.10	-0.2	PII	82.48	335	P	13	38.00	0.2

DOI	82.61	338	P	13 37.70	-0.9
FIN	82.64	337	P	13 37.18	-1.5
ROB	82.65	337	P	13 38.11	-0.6
JSC	82.69	44	P	13 39.00	0.0
BURJ	82.81	312	Pc	13 40.00	0.1
ENR	82.82	338	P	13 37.80	-1.9
STV	82.83	338	P	13 38.00	-1.7
LBL	82.85	341	P	13 40.36	0.7
BRT	83.05	330	P	13 41.50	0.7
SALJ	83.06	312	Pd	13 42.00	0.9
MNS	83.10	333	P	13 40.90	-0.2
RJF	83.14	342	eP	13 41.60	0.4
	0.8s	24.20nm		5.2mb	
SBF	83.16	337	eP	13 41.50	0.1
	0.8s	34.85nm		5.3mb	
DUI	83.22	332	P	13 42.00	0.2
AZI	83.24	333	P	13 43.00	1.3
LCI	83.28	329	P	13 42.00	0.0
SDI	83.38	332	P	13 42.50	0.0
CAF	83.39	341	eP	13 43.50	1.0
	1.0s	39.00nm		5.3mb	
RMP	83.62	333	P	13 44.50	0.8
FRF	83.64	338	eP	13 44.20	0.4
	0.8s	17.45nm		5.1mb	
LFF	83.65	342	eP	13 44.60	0.8
	0.8s	32.25nm		5.3mb	
RDP	83.66	333	P	13 45.00	1.0
LPO	83.80	342	eP	13 45.40	0.8
	0.8s	32.25nm		5.3mb	
LRG	83.81	338	eP	13 45.20	0.6
	0.6s	34.25nm		5.5mb	
LMR	83.89	338	eP	13 45.60	0.6
	0.8s	4.30nm		4.4mb	
SGO	83.96	331	P	13 46.00	0.7
PGF	83.98	336	eP	13 46.00	0.4
	0.6s	18.05nm		5.2mb	
ORI	84.03	330	P	13 46.90	1.1
MGR	84.26	330	P	13 47.50	0.6
TDS	84.43	330	P	13 48.50	0.7
GRI	85.17	329	P	13 52.54	1.0
	0.7s	16.60nm		5.1mb	
EPF	85.56	342	eP	13 53.70	0.2
	0.8s	9.40nm		4.8mb	
MRWA	85.75	214	eP	13 55.60	1.3
ATN	86.08	330	P	13 55.50	-0.5
MNO	86.54	330	P	14 03.00	4.4X
ERC	87.12	332	P	14 02.10	0.9
TOL	89.43	344	eP	14 13.00	0.8
ZOBO	131.67	63	PKP	20 30.00	1.0
Z	25s	0.20um		4.7MszX	
		LR	05 44.00		
SIV	135.40	55	ePKP	20 35.00	-0.4
SPA	139.08	180	ePKP	20 31.90	-9.0X
	1.0s	5.50nm			
		i	20 55.80		
BAO	141.32	38	ePKP	20 41.00	-5.5X
PDCR	141.40	23	(PKP)	20 27.00	-19.5X
S.D. = 0.9		on 235 of 268 obs.			

MAY 02, 1990 01h 43m 14.82± 0.49s
1.389 N ± 7.5km 123.351 E ± 8.4km
DEPTH = 33.0km (normal)
4.4mb (5 obs.) 4.2Msz (1 obs.)
MINAHASSA PENINSULA (265)

MNI	1.49	88	iPc	43 38.50	-1.0
			eS	43 58.00	
DAV	6.08	21	eP	44 45.50	0.7
SNG	23.38	285	eP	48 32.80	11.2X
WB5	23.74	153	eP	48 25.30	0.2
WRA	23.78	154	Pd	48 26.00	0.5
	0.6s	5.10nm		4.2mb	
NANU	25.00	197	iPc	48 36.80	-0.4
	0.5s	6.00nm		4.4mb	
ASPA	26.94	158	eP	48 56.00	0.7
	0.4s	4.00nm		4.4mb	
Z	18s	0.56um		4.2Msz	
		LR	05 11.40		
GUN	44.49	310	P	51 25.50	0.0
	0.7s	19.00nm		5.1mb	
GKN	45.49	309	P	51 33.80	0.5
GBA	47.01	287	Pc	51 44.20	-1.0
	0.3s	0.60nm		4.1mb	
MAIO	68.28	309	eP	54 15.00	-0.1
S.D. = 0.7		on 10 of 11 obs.			

MAY 02, 1990 02h 16m 32.80± 0.51s
40.852 N ± 4.8km 24.236 E ± 4.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.4 (THE).

OUR	0.55	201	ePg	16 43.50	-0.5
			eSg	16 51.50	
SRS	0.55	299	ePg	16 43.70	-0.4
			eSg	16 51.20	
SOH	0.67	268	ePg	16 45.50	-0.6
			eSg	16 54.70	
MMB	0.83	333	iPgc	16 48.00	-0.9
RZN	0.91	23	iP	16 51.00	0.7
THE	0.99	258	ePg	16 51.30	-0.3
			eSg	17 05.90	
PAIG	1.02	205	ePg	16 52.00	0.0
			eSg	17 05.40	
KDZ	1.20	48	ePg	16 55.00	-0.1
PLD	1.30	16	iP	17 00.00	3.1X
VAY	1.34	291	ePn	16 58.40	0.9
ALN	1.37	88	ePb	16 57.70	-0.2
			eSb	17 19.60	
GRG	1.39	275	ePb	16 58.70	0.4
			eSb	17 17.80	
LIT	1.53	241	ePb	17 01.30	1.1
			eSb	17 23.10	
S.D. = 0.7		on 12 of 13 obs.			

MAY 02, 1990 03h 28m 46.62± 0.45s
10.457 S ± 7.4km 110.295 E ± 7.5km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)
SOUTH OF JAVA (282)

TRT	3.58	40	iPd	29 40.70	-0.5
			iS	30 15.60	
KHKI	5.64	69	ePd	30 10.50	0.2
			eS	31 14.50	
			e	33 37.50	
NANU	13.04	158	eP	31 46.30	-5.9X
			eS	34 03.00	
MBL	14.04	140	eP	32 01.00	-4.5X
			eS	34 23.00	
MRWA	19.41	165	eP	33 12.50	-0.6
WRA	25.02	115	Pc	34 09.80	0.5
	0.7s	9.50nm		4.5mb	
WB5	25.02	115	eP	34 09.00	-0.3
ASPA	26.06	123	eP	34 18.90	-0.1
	1.2s	15.00nm		4.5mb	
CHG	31.16	339	eP	35 06.30	1.3
CHTO	31.16	339	e(P)	35 06.30	1.3
	0.7s	1.43nm		3.9mb	
SHL	40.04	334	eP	36 20.50	-0.3
GBA	40.43	306	Pd	36 23.60	-0.2
	0.7s	36.00nm		5.2mb	
PKI	44.84	328	P	36 59.00	-1.1
GUN	44.87	329	P	37 00.10	-0.2
DMN	45.03	328	P	37 01.00	-0.5
GKN	45.59	328	P	37 05.20	-0.6
SPA	79.61	180	eP	40 53.00	1.0
	0.9s	5.45nm		4.6mb	
ZOBO	153.40	183	PKP	48 46.00	9.2X
S.D. = 0.8		on 15 of 18 obs.			

MAY 02, 1990 03h 30m 40.39± 0.82s
32.982 S ±16.3km 70.004 W ±14.9km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

FCH	0.42	215	iPd	31 54.10	64.0X
			iS	32 03.00	
			i	32 06.50	
PEL	0.59	254	iPd	30 53.90	1.5
			iS	31 05.00	
SAN	0.72	229	iPd	30 55.50	1.3
			iS	31 08.50	
TACH	1.03	229	iPc	31 58.20	59.6X
			iS	32 13.10	
CHCH	1.09	210	iPc	31 00.00	0.5
			iS	31 17.00	
IHA	1.38	268	eP	31 02.70	-0.8
			iS	31 21.60	
LNV	1.53	230	iPc	31 03.00	-2.6
			iS	31 23.00	
RTCB	1.81	35	iP	31 10.40	0.6
			eS	31 35.10	
ZON	1.82	38	eP	31 10.00	0.0
			eS	31 34.00	
CFA	2.03	48	ePc	31 12.80	-0.2
			(S)	31 39.10	
RTLL	2.10	39	iPd	31 13.50	-0.5
			eS	31 40.00	
S.D. = 1.4		on 9 of 11 obs.			

MAY 02, 1990 04h 13m 48.95± 0.75s
17.212 N ±14.4km 94.844 W ± 9.2km
DEPTH = 129.3 ± 12.3 km
3.4mb (1 obs.)
CHIAPAS, MEXICO (61)

PSM	0.54	201	iP	14 07.00	-1.5
			iS	14 20.00	
EVV	1.33	339	eP	14 14.68	-0.7
			iS	14 35.91	
OXX	1.80	266	iP	14 20.07	-1.1
			iS	14 44.53	
SCX	2.17	102	iP	14 26.31	0.9
			iS	14 52.33	
LVVM	2.94	329	iP	14 32.50	-2.8X
			(S)	15 07.43	
TPX	3.38	132	eP	14 42.00	0.8
			iS	15 22.50	
IIT	3.75	299	iP	14 47.65	1.1
			iS	15 31.50	
PPM	4.04	298	iP	14 51.82	1.2
			iS	15 38.00	
III	4.56	285	iP	14 57.02	-0.2
			(S)	15 49.00	
ACX	4.81	267	(P)	14 57.50	-3.0X
CRX	5.09	296	(P)	15 17.50	13.0X
IIJ	5.28	299	iP	15 08.48	1.2
UYO	16.89	1	iPc	17 38.60	-0.3
TUL	18.64	358	e(P)	18 18.50	19.1X
	1.0s	13.30nm			
ANMO	20.48	332	eP	18 18.90	0.3
YKA	47.30	348	eP	22 09.10	-1.8
	0.5s	0.40nm		3.4mb	
INK	56.60	344	eP	23 50.00	29.8X
S.D. = 1.3		on 12 of 17 obs.			

MAY 02, 1990 04h 13m 50.57± 0.81s
7.079 S ± 6.0km 129.973 E ±16.7km
DEPTH = 130.4 ± 10.0 km
4.8mb (8 obs.)
BANDA SEA (280)

MTN	5.84	169	iPd	15 18.00	1.8
KUPT	7.00	244	eP	15 42.50	10.6X
			eS	16 57.20	
KNA	8.70	188	eP	15 53.40	-1.4
	0.3s	114.00nm		6.1mb X	
			eS	17 22.00	
WB5	13.42	162	eP	16 55.00	-2.0
			eS	19 17.00	
WRA	13.47	162	Pd	16 56.20	-1.5
	0.5s	19.80nm		4.8mb	
QIS	16.33	146	eP	17 36.00	2.3X
			eS	20 26.00	
ASPA	16.92	168	iPd	17 41.60	0.6
	0.5s	73.00nm		5.2mb	
			eS	20 35.70	
M8L	17.09	214	eP	17 41.00	-2.0
			eS	20 40.00	
PMG	17.16	99	eP	17 54.50	10.6X
WARB	19.26	189	eP	18 09.00	1.5
	0.4s	15.00nm		4.7mb	
			eS	21 32.00	
NANU	20.75	221	eP	18 23.10	0.4
			eS	22 15.00	
MEKA	22.27	208	eP	18 39.00	1.3
			e	18 45.00	
PGP	22.32	336	ePd	18 40.00	1.8
MRWA	25.66	209	eP	19 10.70	0.7
			i	19 35.50	
			eS	23 54.00	
BAL	26.51	206	eP	19 21.50	3.8X
			e	19 48.00	
MUN	27.90	206	eP	19 31.00	0.7
			eS	24 51.00	
NWAO	28.31	203	eP	19 35.20	1.3
SSE	38.88	348	eP	21 05.00	0.2
CHG	39.97	311	iPc	21 13.80	-0.3
	0.9s	29.20nm		5.1mb	
CHTO	39.97	311	iPc	21 13.70	-0.3

02d 04h

0.7s 22.71nm 5.1mb
KMI 41.56 321 Pd 21 27.50 0.2
MAT 44.07 10 eP 21 47.00 -0.3
0.9s 14.29nm 4.7mb
XAN 45.50 335 Pd 21 59.00 0.4
TIY 47.47 341 eP 22 13.00 -1.2
Z 22s 0.90um 4.7Msz
N 15s 0.40um
BJI 48.58 346 eP 22 22.50 -0.1
1.0s 13.00nm 4.7mb
GUN 54.98 311 P 23 00.00 -11.1X
GBA 56.06 292 Pc 23 15.50 -3.1X
0.4s 2.50nm 4.5mb
YKA 107.83 26 ePKP 32 04.90 1.3
0.8s 0.80nm
NNA 147.29 125 ePKP 33 25.00 6.3X
0.8s 11.19nm
LPB 150.50 143 PKPc 33 34.00 9.9X
ZOBO 150.69 142 PKP 33 29.00 4.4X
CCH 150.94 147 PKP 33 35.40 10.8X
SIV 154.60 155 PKP 33 32.00 2.6X
S.D. = 1.3 on 22 of 33 obs.

MAY 02, 1990 04h 19m 40.79± 0.30s
0.019 N ± 3.9km 124.252 E ± 5.6km
DEPTH = 103.2 ± 2.5 km
5.3mb (21 obs.)
MINAHASSA PENINSULA (265)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 26C
Centroid Location:
Origin Time 04:19:39.4 0.4
Lat 0.01S 0.06 Lon 124.44E 0.06
Dep 73.3 3.8 Half-duration 1.7
Moment Tensor; Scale 10**16 Nm
Mrr= 9.93 0.79 Mtt=-0.57 0.97
Mff=-9.36 1.45 Mrt=-1.37 0.71
Mrf= 4.55 0.64 Mtf=-3.37 0.97
Principal Axes:
T Val= 11.32 Plg=73 Azm=233
N -0.09 14 14
P -11.23 11 106
Best Double Couple:Mo=1.1*10**17
NP1:Strike=213 Dip=36 Slip= 113
NP2: 5 57 74

MNI 1.53 23 ePd 20 06.00 -2.0
eS 20 28.50
DAV 7.14 11 eP 21 24.00 -0.3
TSM 7.45 304 iPd 21 19.00 -9.6X
0.2s 292.20nm 6.5mb X
KKM 10.01 307 ePc 22 03.50 0.2
0.7s 122.50nm 5.9mb
eS 22 25.50
PPR 11.14 331 ePc 22 20.00 1.7
KHKI 11.98 226 ePc 22 38.50 9.1X
e 25 55.00
PGP 13.79 346 ePc 22 55.00 1.9
1.0s 83.00nm 5.0mb
TRT 13.89 236 ePc 22 35.20 -19.2X
CVP 17.74 352 ePc 23 44.00 1.3
SZP 17.82 348 eP 23 46.00 2.3
0.8s 83.00nm 5.0mb
PIP 18.54 349 ePd 23 41.00 -11.3X
1.0s 180.00nm
KGM 21.02 276 ePc 24 19.60 1.6
MBL 21.49 191 eP 24 21.00 -1.6
WB5 22.12 154 eP 24 28.80 -0.1
eS 28 23.80
QIZ 23.60 324 P 24 44.70 1.4
N 13s 0.60um
E 12s 0.50um
eS 28 49.50
SNG 24.62 287 eP 24 54.40 1.3
e 35 46.80
GZH 25.26 336 eP 24 59.00 0.0
ASPA 25.34 159 eP 24 58.60 -1.2
0.6s 73.00nm 5.3mb
iS 29 20.90
QIS 25.37 145 iPc 24 59.20 -0.9
0.6s 122.00nm 5.6mb
QZH 25.37 348 eP 25 01.40 1.4
NST 28.44 304 eP 25 31.00 2.9X
SSE 31.04 355 eP 25 49.60 -1.3
CHG 31.08 308 ePc 25 51.50 0.0
1.0s 87.00nm 5.4mb

CHTO 31.08 308 iPc 25 51.50 0.0
0.9s 53.50nm 5.3mb
GYA 31.27 329 iPd 25 54.40 1.2
PcP 28 46.00
WHN 31.78 344 eP 25 59.20 1.8
NJ2 32.27 351 eP 26 03.00 1.4
Z 20s 0.30um 4.0Msz
KMI 32.49 322 Pc 26 05.00 1.0
1.5s 100.00nm 5.4mb
SHNJ 34.53 10 eP 26 20.30 -0.9
TKSJ 35.01 14 P 26 24.70 -0.6
WKYJ 35.64 16 P 26 30.30 -0.4
YONJ 36.03 13 P 26 33.70 -0.2
CD2 36.36 330 P 26 37.00 0.2
XAN 36.77 338 P 26 39.00 -1.2
TSRJ 36.99 16 P 26 41.40 -0.5
IIDJ 37.51 18 P 26 45.80 -0.5
CHJJ 38.38 19 P 26 51.90 -1.7
MTMJ 38.49 18 P 26 53.90 -0.8
MAT 38.58 18 iPc 26 53.70 -1.6
1.0s 197.00nm 5.9mb
eS 32 43.00
BRS 38.64 137 iPc 26 54.50 -1.4
0.5s 6.00nm 4.7mb
KAKJ 38.92 21 eP 26 56.00 -2.1
TIY 39.06 345 eP 26 58.20 -1.1
NIIJ 39.47 19 P 27 01.00 -1.6
COO 40.20 142 eP 27 10.00 1.3
SHL 40.27 312 iP 27 09.00 -0.6
iS 32 55.60
BJI 40.51 350 eP 27 10.00 -1.1
1.2s 57.00nm 5.3mb
eS 33 10.00
eSS 36 06.00
LZH 40.59 334 P 27 11.70 -0.3
1.4s 91.00nm 5.4mb
Z 22s 0.80um 4.5Msz
pP 27 33.50 92kmX
BWA 41.06 149 eP 27 17.00 1.2
SNY 41.62 359 Pc 27 19.60 -0.5
Z 26s 0.80um 4.5MszX
N 26s 0.70um
OFUJ 42.02 20 eP 27 24.70 1.2
CAN 42.06 149 eP 27 24.20 0.3
TOO 42.23 155 eP 27 26.00 0.7
HHC 42.24 346 eP 27 26.00 0.5
BTO 42.41 344 eP 27 27.20 0.3
CN2 43.60 1 P 27 35.00 -1.3
Z 24s 0.50um 4.3MszX
MDJ 44.66 5 Pc 27 44.50 -0.3
1.2s 100.00nm 5.5mb
MRRJ 44.85 18 eP 27 46.40 0.1
GTA 45.13 333 Pc 27 48.20 -0.6
1.0s 100.00nm 5.6mb
HOOJ 45.52 20 eP 27 53.20 1.6
GUN 46.05 310 P 27 56.10 -0.4
PKI 46.25 310 P 27 57.50 -0.5
DMN 46.50 309 P 27 59.60 -0.4
KUSJ 46.65 21 eP 28 01.10 0.6
ASAJ 46.87 18 eP 28 02.30 0.0
GKN 47.05 310 P 28 03.60 -0.6
KOD 47.62 284 eP 28 08.00 -1.0
HYB 48.17 294 eP 28 11.00 -1.9
0.8s 69.20nm 5.5mb
GBA 48.28 288 Pd 28 10.30 -3.4X
0.9s 20.70nm 5.0mb
POO 52.78 293 iPd 28 45.30 -2.6
WMQ 54.43 328 P 28 58.10 -1.6
Z 22s 0.67um 4.7Msz
KSH 58.97 318 P 29 31.90 -0.1
MAIO 69.84 309 eP 30 41.00 -1.5
eS 39 48.00
MAW 79.44 200 eP 31 38.00 1.2
SVW 85.21 29 iPc 32 07.80 1.1
TTA 85.31 27 iPc 32 08.10 0.9
BRW 86.45 18 iPc 32 13.80 1.2
IMA 86.76 24 iPc 32 15.00 0.6
SPA 90.02 180 eP 32 31.40 1.5
1.0s 20.00nm 5.2mb
KEV 92.50 340 eP 32 41.00 0.0
SOD 92.92 337 eP 32 42.00 -1.0
SUF 93.71 333 iP 32 45.50 -1.2
0.5s 9.80nm 5.5mb
NUR 94.72 331 eP 32 50.00 -1.4
MBC 96.09 12 eP 32 58.00 0.6
HFS 100.10 332 ePdiff33 13.30 -2.5X
0.7s 5.80nm 5.3mb

Z 19s 0.20um 4.6Msz
LR 15 46.00
DAG 100.58 352 iPdiff33 16.50 -1.1
NB2 100.96 333 Pdiff 33 17.40 -2.3X
1.0s 4.10nm 5.0mb
YKA 103.88 24 ePdiff33 32.90 0.4
0.8s 1.00nm 4.8mb
BSF 108.09 321 ePKP 37 58.80 0.4
0.8s 5.35nm
LPG 108.94 319 ePKP 38 01.10 0.8
0.8s 3.35nm
LPL 108.94 319 ePKP 38 01.00 0.8
0.6s 2.70nm
L8F 110.18 321 ePKP 38 02.90 0.7
0.6s 1.80nm
SMF 110.40 321 ePKP 38 03.00 0.4
0.6s 2.70nm
SSF 110.44 321 ePKP 38 03.40 0.7
0.6s 3.60nm
AVF 110.65 321 ePKP 38 03.40 0.3
0.6s 1.80nm
BGF 111.06 321 ePKP 38 04.70 0.8
0.6s 5.40nm
KVN 111.17 48 PKP 38 05.20 0.6
TCF 111.57 321 ePKP 38 05.50 0.6
0.6s 2.70nm
TNP 112.13 48 PKP 38 06.80 0.4
CAF 112.22 319 ePKP 38 07.00 0.8
1.0s 6.00nm
LPO 112.89 320 ePKP 38 08.40 1.0
0.6s 5.40nm
MFF 112.91 322 ePKP 38 07.70 0.3
0.8s 6.70nm
LFF 113.07 320 ePKP 38 08.70 1.0
0.6s 3.60nm
FFC 113.64 27 ePKP 38 09.00 0.4
0.6s 9.00nm
PTI 113.84 42 PKP 38 11.20 1.6
DUG 114.60 45 PKP 38 12.50 1.4
FRB 115.68 6 ePKP 38 12.00 -0.1
MSU 115.70 47 PKP 38 14.90 1.5
BW06 115.76 41 PKP 38 13.80 0.5
RSSD 118.62 38 PKP 38 17.90 -0.8
APHE 119.49 313 iPKPc 38 19.50 -1.0
AAPN 119.66 314 iPKPc 38 19.60 -1.1
ALOJ 119.73 314 iPKPc 38 20.50 -0.4
ATEJ 119.75 314 iPKPc 38 21.00 0.0
GOL 119.97 43 PKP 38 21.50 0.0
ANMO 121.33 48 PKP 38 24.40 0.3
ALQ 121.34 48 ePKP 38 24.20 0.1
SCH 124.60 8 ePKP 38 30.00 0.5
TUL 128.41 42 ePKP 38 38.50 1.0
1.3s 16.20nm
UYO 130.30 43 ePKP 38 42.00 0.9
RSNY 132.59 18 PKP 38 44.80 -0.3
BNH 133.49 15 PKP 38 48.50 1.6
EMM 134.23 12 PKP 38 51.50 3.3X
TBR 135.74 20 PKP 38 51.50 0.3
TACH 143.63 158 ePKP 39 04.40 -1.3
SAN 143.91 159 ePKP 39 05.00 -1.2
FCH 144.15 159 ePKP 39 07.10 0.1
PEL 144.18 158 iPKPc 39 05.50 -1.2
0.7s 23.97nm
PDCR 159.35 232 (PKP) 39 30.00 1.1
ZOBO 159.76 143 PKP 39 32.50 2.4X
SIV 163.28 162 PKP 39 34.60 1.7
S.D. = 1.1 on 120 of 130 obs.

? MAY 02, 1990 04h 24m 31.04± 6.75s
31.458 S ±20.1km 67.894 W ±42.8km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.33 243 ePc 24 38.10 0.2
RTLL 0.51 284 iPc 24 41.00 -0.4
ZON 0.68 262 eP 24 44.00 -0.5
eS 25 01.00
RTCV 0.68 234 iPc 24 44.30 -0.3
RTCB 0.77 268 iPc 24 46.80 0.6
RTBS 1.35 261 ePd 24 56.20 0.4
S 25 20.00
PEL 2.90 234 eP 25 18.00 -0.1
i(S) 26 01.10
S.D. = 0.5 on 7 of 7 obs.

MAY 02, 1990 04h 59m 02.49± 0.77s
37.666 N ± 6.4km 14.903 E ± 7.0km

DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.31	328	Pd	59	08.50	-0.5
			eSg	59	14.90	
MEU	0.56	178	Pd	59	13.40	-0.6
			eSg	59	22.80	
ATN	0.66	42	P	59	16.20	0.5
			eSg	59	26.70	
GIB	0.76	295	P	59	18.20	0.7
			eSg	59	29.90	
FAI	1.05	249	P	59	23.00	0.7
			eSn	59	37.00	
USI	1.71	308	P	59	31.80	-0.7
TDS	2.28	29	P	59	41.80	1.0
MGR	2.52	11	P	59	43.00	-1.1
			eSn	00	15.00	

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

---

* MAY 02, 1990 05h 08m 01.17± 1.06s
7.974 S ± 9.5km 123.564 E ± 9.4km
DEPTH = 352.6 ± 11.1 km
5.0mb (10 obs.)
BANDA SEA (280)

KUPT	2.16	179	eP	08	55.50	1.3
			eS	09	48.00	
MTN	8.88	124	iPd	10	00.70	-5.9X
			eS	11	35.00	
TRT	10.83	271	iPc	10	22.70	-7.4X
			iS	11	37.30	
MBL	13.60	195	iPc	10	48.50	-14.6X
			eS	13	38.00	
WB5	15.80	140	iPd	11	24.20	-2.6
			eS	14	13.40	
WRA	15.83	140	Pd	11	24.40	-2.7
	0.7s	96.40nm			5.2mb	
WARB	18.35	171	iPc	11	52.80	-0.1
	0.2s	34.00nm			5.3mb	
ASPA	18.49	149	iPd	11	54.10	-0.2
	0.6s	108.00nm			5.4mb	
			eS	15	07.40	
MEKA	19.14	194	eP	12	00.40	-0.4
	0.3s	32.00nm			5.1mb	
QIS	19.93	131	iPd	12	08.50	0.0
			e	15	35.00	
MRWA	22.30	198	eP	12	31.50	0.3
	0.3s	22.00nm			5.0mb	
			eS	16	53.00	
PMG	23.36	95	eP	12	40.50	-0.7
BAL	23.41	195	iPc	12	41.30	-0.2
	0.4s	35.00nm			5.0mb	
KLB	24.11	192	eP	12	48.00	0.0
MUN	24.85	195	eP	12	54.20	-0.4
NWAO	25.51	192	iPc	13	00.60	0.0
	0.5s	19.00nm			4.7mb	
RKG	26.66	192	eP	13	16.30	5.3X
RMQ	30.19	131	eP	13	42.00	-0.1
	0.5s	43.00nm			5.0mb	
BRS	33.72	129	iPd	14	13.00	0.6
	0.5s	6.50nm			4.2mb	
			i	15	35.00	
			e	16	33.00	
BFD	33.80	152	eP	14	14.00	1.1
COO	34.75	134	eP	14	23.80	2.8X
CHTO	36.03	318	iP	14	31.60	-0.2
	0.4s	1.59nm			3.7mb X	
DZM	43.55	114	iPc	15	33.70	0.3
GUN	50.99	316	P	16	30.20	-0.6
PKI	51.10	315	P	16	30.70	-0.9
	0.4s	5.00nm			4.2mb	
LTZ	54.94	137	P	17	00.60	1.7
THZ	54.95	136	P	17	00.70	1.6
KHZ	55.65	137	P	17	04.70	0.9
MNG	56.33	134	P	17	09.00	0.3
YKA	111.38	25	ePKP	25	55.70	1.0
	0.6s	0.30nm				
ZOBO	153.28	154	ePKP	27	23.00	10.4X
			LR	36	36.00	

S.D. = 1.1 on 25 of 31 obs.

& MAY 02, 1990 05h 40m 20.09s
62.113 N 150.314 W
DEPTH = 7.7km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.29	4	iP	40	26.48	0.4
			iS	40	30.61	
PWA	0.51	156	iPc	40	30.60	0.3
SKT	0.59	257	iP	40	31.87	0.0
SUA	0.68	198	iP	40	33.88	0.0
			iS	40	44.47	
GHO	0.74	117	iP	40	33.91	-1.0
			eS	40	44.59	
PLRM	0.77	132	iP	40	34.73	-0.5
			eS	40	45.24	
PMR	0.77	132	iPc	40	34.80	-0.4
HUR	0.92	20	eP	40	37.16	-0.8
PMS	0.94	157	iPc	40	37.70	-0.6
SML	0.98	107	iP	40	38.12	-0.9
			eS	40	51.53	
NCG	1.13	232	eP	40	41.11	-0.4
			iS	40	56.99	
CGLM	1.14	226	iP	40	41.58	-0.2
CRP	1.22	227	eP	40	42.99	-0.1
			eS	41	00.17	
SPU	1.25	222	iP	40	43.44	-0.1
			eS	40	59.69	
RND	1.46	27	eP	40	46.07	-0.8
			eS	41	04.80	
KTH	1.47	349	eP	40	46.87	-0.1
SLKM	1.61	178	eP	40	48.66	-0.3
NCA	1.65	93	eP	40	48.98	-0.5
RDT	1.84	214	eP	40	52.79	0.4
TOA	1.95	88	eP	40	54.11	0.2
GLI	1.98	127	eP	40	53.96	-0.3
RED	2.07	216	eP	40	56.57	0.9
VZW	2.09	119	eP	40	55.56	-0.3
VLZ	2.14	116	eP	40	56.26	-0.3
KLU	2.18	105	eP	40	56.84	-0.4
SVW	2.73	251	iPc	41	09.10	4.0
TTA	2.77	290	iPc	41	09.10	3.5
FBA	3.02	21	iPc	41	07.50	-1.5

28 obs. associated

? MAY 02, 1990 06h 39m 55.07± 1.69s
4.238 S ±43.0km 103.049 E ±50.6km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
SOUTHERN SUMATERA (274)

KGM	6.22	2	eP	41	49.50	22.5X
CHTO	23.26	350	eP	45	01.00	0.3
	0.7s	2.22nm			3.8mb	
WB5	34.24	120	eP	46	39.90	-0.4
WRA	34.25	120	Pd	46	39.80	-0.5
	0.5s	2.20nm			4.3mb	
ASPA	35.48	126	iPc	46	51.80	0.9
	0.4s	11.00nm			5.1mb	
PKI	35.91	333	P	46	54.40	-0.4
GUN	35.99	334	P	46	55.50	0.0
GKN	36.64	332	P	47	00.80	0.1

S.D. = 0.6 on 7 of 8 obs.

MAY 02, 1990 06h 39m 57.77± 0.93s
17.529 N ± 8.3km 61.826 W ± 8.3km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.4 (FDF). MD 3.4 (TRN).

CPB	0.11	0	eP	40	03.60	0.0
			eS	40	10.60	
BPA	0.48	184	eP	40	07.67	-0.5
			eS	40	14.42	
NEV	0.81	241	iPc	40	12.76	0.0
			S	40	22.90	
MGH	0.89	205	ePc	40	14.10	0.2
			S	40	25.80	
SKI	0.89	258	eP	40	13.91	-0.1
			eS	40	27.06	
SEG	1.16	165	eP	40	17.85	0.1
			S	40	32.30	
SFG	1.40	155	eP	40	21.00	-0.2
PAG	1.50	175	eP	40	22.60	-0.1
			S	40	41.00	
BBL	2.02	170	eP	40	30.80	0.5

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

---

* MAY 02, 1990 06h 50m 43.45± 0.66s
42.616 N ±14.8km 146.648 E ±12.0km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
OFF COAST OF HOKKAIDO, JAPAN (225)

MAT	8.98	230	(P)	52	53.00	0.3
			(S)	53	18.00	
BRW	39.68	25	iPc	58	13.10	-0.5
IMA	39.83	33	iPc	58	15.80	0.8
			e	58	28.00	
PMS	41.57	41	iPc	58	29.60	0.3
FBA	42.23	35	iPc	58	34.50	-0.1
INK	47.57	30	eP	59	18.00	0.8
YKA	56.95	33	eP	00	25.40	-2.1
	0.8s	1.70nm			4.1mb	
KEV	59.65	339	eP	00	49.00	2.8
SOD	61.37	338	iP	00	57.20	-0.8
NEW	63.36	48	P	01	11.40	-0.2
	0.9s	5.48nm			4.7mb	
SUF	64.78	334	eP	01	20.20	-0.3
FFC	66.83	36	iPd	01	33.70	-0.1
	0.7s	10.00nm			5.0mb	
NUR	66.88	333	eP	01	34.00	0.1
LRM	67.38	48	eP	01	38.10	0.4
KVN	68.24	57	P	01	43.40	0.2
NB2	70.53	339	P	01	55.70	-0.9
	0.8s	5.10nm			4.6mb	
HFS	70.59	337	eP	01	56.10	-0.8
	0.8s	3.80nm			4.5mb	
BW06	70.92	49	P	02	00.00	0.5
RSSD	73.01	45	P	02	11.50	-0.4
ALQ	77.97	53	eP	02	41.20	1.0
	1.0s	2.00nm			4.1mb	
CLL	78.15	332	e(P)	02	55.00	14.5X
SIV	144.41	50	PKP	10	17.00	-1.2

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

---

* MAY 02, 1990 07h 19m 10.45± 2.14s
37.837 N ±14.7km 20.623 E ±18.2km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)

ITM	1.23	122	ePb	19	33.20	-0.1
AGG	1.79	48	eP	19	42.60	1.0
KEK	1.98	341	ePb	19	44.60	0.2
VLI	2.16	120	ePg	19	53.50	6.6X
NEO	2.51	53	ePn	19	51.70	-0.3
OHR	3.27	2	ePn	20	12.00	9.2X
VAY	3.79	23	ePn	20	09.30	-0.8

S.D. = 1.0 on 5 of 7 obs.

---

* MAY 02, 1990 07h 35m 15.42± 0.77s
35.850 N ±20.6km 72.072 E ±14.3km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
PAKISTAN (710)

QUE	7.10	219	eP	37	25.00	25.2X
MAIO	10.19	276	eP	37	42.00	-0.6
GKN	13.22	123	P	38	24.40	0.9
	0.6s	14.00nm			5.1mb	
DMN	13.79	123	P	38	31.80	0.7
PKI	14.03	122	P	38	33.80	-0.5
GUN	14.14	120	P	38	35.00	-0.8
HFS	44.11	322	eP	43	24.80	2.8X
	0.6s	2.70nm			4.2mb	
NB2	45.42	323	P	43	34.70	2.2
	0.8s	1.50nm			4.0mb	
MBC	67.94	3	eP	46	11.50	-1.0
	1.0s	5.00nm			4.6mb	
YKA	81.85	3	eP	47	31.30	-0.9
	0.8s	0.80nm			3.8mb	

S.D. = 1.3 on 8 of 10 obs.

---

* MAY 02, 1990 07h 52m 44.56± 1.27s
39.982 N ±12.3km 142.513 E ±22.1km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

HOOJ	2.47	13	P	53	22.70	-0.6
			S	53	51.60	
MRRJ	2.67	336	P	53	27.40	1.3
			S	53	57.90	
MAT	4.82	226	iPc	54	01.70	5.0X
			(S)	54	59.00	
CHTO	42.90	254	eP	00	40.00	-1.8
	0.8s	1.46nm			3.8mb	
GUN	47.78	274	P	01	21.30	0.3
	0.7s	21.00nm			5.3mb X	
GKN	48.68	274	P	01	27.50	-0.3
WRA	60.10	189	P	02	52.00	1.1

02d 08h

0.6s 1.00nm 4.1mb
YKA 60.84 31 eP 03 07.00 11.5X
0.6s 0.40nm
GBA 62.33 265 P 03 07.00 0.8
NB2 71.80 337 P 04 04.60 -0.8
0.7s 1.20nm 4.0mb
S.D. = 1.2 on 8 of 10 obs.

% MAY 02, 1990 07h 55m 41.87± 1.07s
41.064 N ±15.9km 14.559 E ±23.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.33 145 Pc 55 50.00 1.3
eSg 55 55.50
DUI 0.60 353 P 55 54.50 0.4
eSg 56 04.00
SGO 0.76 131 P 55 56.10 -0.6
eSg 56 08.50
SDI 0.85 319 P 55 58.00 -0.3
eSn 56 11.00
MGR 1.20 140 Pc 56 03.40 -0.8
eSg 56 17.40
S.D. = 1.2 on 5 of 5 obs.

MAY 02, 1990 08h 13m 09.15± 0.75s
38.967 N ± 4.9km 23.378 E ±10.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (ATH).

NEO 0.36 341 iPbc 13 16.10 -0.5
AGG 0.82 274 eP 13 24.20 -0.8
PAIG 0.99 14 eP 13 28.30 0.4
eS 13 43.30
ATH 1.03 165 ePb 13 27.50 -1.1
LIT 1.32 329 ePc 13 33.90 0.3
eS 13 55.00
ITM 2.12 213 ePn 13 46.50 1.4
VLI 2.27 189 ePn 13 47.50 0.2
VAY 2.43 346 ePn 13 49.50 0.0
S.D. = 0.9 on 8 of 8 obs.

% MAY 02, 1990 08h 16m 51.47± 1.27s
40.237 N ±13.6km 21.490 E ±11.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG 1.00 44 ePg 17 10.20 -0.2
eSg 17 25.70
IGT 1.14 232 ePg 17 12.70 0.0
AGG 1.38 152 ePb 17 16.90 0.2
PAIG 1.71 100 ePn 17 20.00 -1.4
OUR 1.91 86 ePn 17 25.80 1.5
S.D. = 1.5 on 5 of 5 obs.

? MAY 02, 1990 08h 35m 52.35± 4.41s
47.531 N ± 7.4km 2.889 W ±38.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.4 (LDG).

LPF 1.34 67 Pg 36 17.40 0.3
Sg 36 32.30
GRR 1.61 57 Pn 36 21.10 0.2
Pg 36 22.50
Sg 36 40.80
FLN 2.03 52 Pn 36 26.70 -0.2
Pg 36 29.80
Sg 36 53.00
MFF 2.09 115 Pg 36 31.80 3.9X
Sg 36 57.00
LDF 2.14 59 Pn 36 28.40 -0.2
Pg 36 31.30
Sg 36 56.00
LSF 3.29 111 Pn 36 45.30 0.3
Sg 37 34.00
LFF 3.61 135 Pg 37 01.40 11.9X
Sg 37 46.80
TCF 3.71 108 Pn 36 50.50 -0.5
Sg 37 46.70
RJF 3.77 125 Pn 36 52.00 0.2
Pg 37 03.00
Sg 37 49.40
MAF 3.96 107 Pn 36 54.20 -0.3
Sg 37 54.80
LPO 4.02 134 Pg 37 09.00 13.8X

CAF 4.31 125 Pn 36 59.50 0.0
Sg 38 07.00
S.D. = 0.3 on 9 of 12 obs.

MAY 02, 1990 09h 16m 07.74± 0.20s
15.976 N ± 4.9km 147.395 E ± 4.0km
DEPTH = 33.0km (normal)
4.8mb (13 obs.)
MARIANA ISLANDS REGION (215)

GUMO 3.41 226 eP 17 00.20 0.3
PJG 3.41 226 eP 17 00.30 0.4
eS 17 37.00
GUA 3.41 225 eP 17 00.40 0.4
MAT 22.05 340 (P) 21 01.00 -0.4
1.1s 17.72nm 4.4mb
BJI 36.22 318 eP 23 09.00 -0.5
WB5 37.86 200 eP 23 22.20 -1.3
WRA 37.93 200 Pc 23 22.90 -1.2
1.1s 6.40nm 4.4mb
GYA 39.23 292 P 23 36.00 0.9
CD2 42.43 298 eP 24 01.00 -0.3
KMI 42.63 290 eP 24 03.50 0.3
LZH 43.52 306 eP 24 10.00 -0.3
1.5s 37.00nm 4.9mb
pP 24 19.00 30kmX
CHG 46.21 281 eP 24 31.50 -0.3
CHTO 46.21 281 eP 24 31.90 0.1
1.3s 9.40nm 4.6mb
WARB 46.51 206 eP 24 35.80 -0.2
SNG 46.56 265 eP 24 35.90 1.3
GTA 47.50 309 eP 24 43.20 1.3
WMQ 57.32 312 P 25 55.00 0.0
GUN 57.77 293 P 25 58.60 -0.2
PKI 58.20 293 P 26 00.70 -1.0
DMN 58.47 293 P 26 02.80 -0.7
0.5s 14.00nm 5.3mb
GKN 58.86 293 P 26 05.70 -0.5
IMA 63.11 23 P 26 33.50 -0.8
1.0s 5.63nm 4.6mb
PMR 63.53 29 P 26 35.40 -1.5
1.2s 22.73nm 5.2mb
BRW 64.34 17 P 26 42.20 0.1
FBA 65.04 25 P 26 45.70 -1.0
INK 71.24 23 eP 27 25.00 -0.3
MBC 75.37 14 eP 27 50.00 0.7
1.3s 11.00nm 4.7mb
BMW 78.17 45 P 28 06.50 0.9
GMW 78.27 44 P 28 06.90 0.9
RMW 78.94 44 P 28 10.00 0.2
MAIO 79.07 305 eP 28 11.00 0.3
LON 79.08 44 P 28 10.50 0.0
YKA 79.62 28 eP 28 11.80 -1.2
1.0s 6.50nm 4.6mb
PNT 79.98 42 eP 28 15.00 -0.3
VGB 80.04 46 P 28 16.10 0.4
MIN 80.59 51 eP 28 18.70 -0.2
ORV 80.84 52 eP 28 20.00 0.0
ARN 81.32 54 P 28 23.00 0.4
PRS 81.69 55 eP 28 24.90 0.4
NEW 81.83 42 P 28 24.20 -0.9
1.1s 17.75nm 5.0mb
CMB 82.04 53 eP 28 26.70 0.3
FRI 82.82 54 eP 28 30.70 0.3
KVN 83.52 51 P 28 33.50 -0.7
TNP 84.45 52 P 28 39.50 0.6
0.9s 3.42nm 4.5mb
LRM 85.59 44 ePc 28 45.20 0.7
PEC 85.65 56 P 28 44.60 -0.2
HPI 85.81 46 P 28 46.10 0.4
IMW 87.23 45 P 28 53.50 0.9
MSU 88.11 51 P 28 57.20 0.3
DAU 88.16 49 P 28 57.50 0.3
FFC 88.50 33 eP 28 58.00 -0.1
1.1s 22.00nm 5.4mb
BW06 88.56 46 P 28 59.00 0.0
RSSD 91.77 43 P 29 14.00 0.1
GOL 92.63 48 P 29 18.60 0.6
0.9s 6.63nm 5.1mb
LPB 145.95 96 PKP 35 49.00 2.7X
CCH 147.86 97 PKP 35 53.80 4.6X
SIV 152.64 94 PKP 36 03.40 7.3X
i 36 21.40
S.D. = 0.7 on 54 of 57 obs.

& MAY 02, 1990 10h 21m 49.34s
38.733 N 111.523 W
DEPTH = 0.0km
UTAH (478)
<SLC-P>. ML 2.6 (SLC).

MSU 0.56 247 eP 22 00.20 -0.2
DAU 1.69 7 eP 22 20.50 -0.1
DUG 1.77 326 eP 22 20.60 -1.0
BW06 4.31 20 eP 22 59.00 1.2
4 obs. associated

MAY 02, 1990 10h 43m 13.87± 0.15s
36.416 N ± 3.7km 71.124 E ± 2.7km
DEPTH = 254.0km (2 depth phases)
4.6mb (55 obs.)
AFGHANISTAN-USSR BORDER REGION (717)
Felt (II) at Kharog and Kulyab, USSR.

KSH 4.89 50 P 44 27.50 -1.6
S 45 22.50
QUE 7.13 211 iPc 44 57.00 0.0
eS 46 16.50
NDI 9.26 145 iPd 45 23.40 -0.6
0.8s 216.42nm 5.3mb
MAIO 9.38 273 iPd 45 24.00 -1.6
0.8s 31.48nm 4.4mb
eS 47 11.00
GKN 14.17 122 P 46 23.80 -1.5
WMQ 14.66 55 P 46 29.60 -1.5
S 49 09.70
DMN 14.74 123 P 46 31.00 -1.4
PKI 14.98 122 P 46 33.80 -1.4
GUN 15.09 120 P 46 35.00 -1.6
BOM 17.52 175 iP 47 04.50 1.1
eS 50 22.00
POO 17.98 172 iPd 47 08.80 0.6
iS 50 31.00
HYB 20.04 159 iPd 47 30.30 1.2
0.8s 84.60nm 5.3mb
eS 51 13.00
DHR 20.52 246 ePc 47 22.80 -10.9X
SHL 20.78 116 iP 47 36.50 0.0
iS 51 14.00
GTA 22.79 74 iPd 47 57.50 1.6
GBA 23.41 164 Pd 48 02.90 1.2
0.5s 21.00nm 4.9mb
RYD 24.04 248 iPc 48 05.70 -1.9
MJMA 24.42 252 ePc 48 11.10 0.0
QASM 25.66 254 eP 48 23.30 0.9
LZH 26.32 81 P 48 29.50 1.0
KOD 26.69 166 eP 48 33.00 0.9
CD2 27.63 92 P 48 41.00 0.9
KMSA 28.23 243 iPc 48 45.30 -0.3
KMI 29.28 104 Pd 48 55.00 0.0
CHG 30.09 118 eP 49 03.00 1.1
CHTO 30.09 118 iP 49 02.60 0.7
0.6s 7.86nm 4.5mb
pP 49 53.70 259km
BTO 30.55 70 eP 49 06.00 0.2
XAN 30.84 83 P 49 08.40 0.0
GYA 31.75 98 P 49 17.00 0.5
TIY 32.80 75 eP 49 25.90 0.5
ELL 32.92 283 eP 49 27.30 0.9
KHL 32.92 286 eP 49 27.10 0.7
LOE 33.01 117 eP 49 27.00 -0.2
VRI 34.36 300 eP 49 51.50 13.1X
e 12 10.70
MLR 34.91 299 ePc 49 57.00 13.8X
NUR 37.95 324 iP 50 08.00 -0.3
0.6s 87.40nm 5.5mb
SUF 38.05 328 iP 50 09.70 0.6
0.6s 63.50nm 5.3mb
GZH 38.69 98 Pc 50 16.00 1.2
KRA 38.94 307 iPd 50 17.50 0.9
0.8s 42.00nm 5.0mb
SOD 39.86 335 iP 50 24.70 0.8
SRO 40.07 303 iP 50 27.60 1.7
e 51 21.20
e 51 46.40
KEV 40.92 338 iP 50 33.00 0.5
0.7s 37.40nm 4.9mb
UPP 41.20 322 iP 50 35.10 0.2
KSP 41.27 308 ePc 50 36.00 0.3
e 52 17.60
VBY 42.40 300 e(P) 50 46.00 1.1
PRU 42.42 307 Pc 50 46.00 0.9
1.2s 21.50nm 4.4mb

```
                  e      51 37.00
TDS     42.71 292 P      50 48.80    1.3
BRG     42.75 308 iP     50 48.60    0.9
        1.0s     40.00nm          4.7mb
                  e      51 40.50
LJU     42.82 301 eP     50 49.00    0.6
CEY     42.94 301 e(P)   50 50.00    0.6
KHC     43.11 306 eP     50 48.50   -2.2
                  e      52 37.70
MGR     43.18 292 P      50 51.70    0.3
HFS     43.19 322 eP     50 51.00   -0.2
        0.4s     46.20nm          5.2mb
VOY     43.27 301 eP     50 52.70    0.6
SGO     43.27 293 P      50 52.50    0.5
CLL     43.32 309 iP     50 52.40    0.1
        1.6s     39.00nm          4.5mb
                  e      51 44.00
TRI     43.40 301 P      50 53.50    0.5
RBL     43.43 302 P      50 54.00    0.6
WET     43.57 306 eP     50 45.20   -9.2X
COP     43.57 315 iPd    50 55.40    1.2
        0.4s    101.69nm          5.5mb
BHG     43.73 304 iPc    50 56.10    0.5
        0.9s     23.00nm          4.5mb
ATN     43.75 290 P      50 57.00    1.1
FVI     43.95 302 Pd     50 57.50    0.2
SDI     44.11 295 P      50 58.00   -0.8
MOX     44.24 308 e(P)   51 01.00    1.4
AZI     44.33 296 P      51 02.00    1.7
ARV     44.37 298 P      51 01.00    0.3
MNO     44.40 290 P      51 02.50    1.3
NB2     44.51 323 P      51 01.10   -0.5
        0.6s     28.90nm          4.8mb
GRF     44.59 307 iPc    51 04.00    1.6
        1.6s     69.00nm          4.7mb
ASS     44.66 297 P      51 04.50    1.5
FUR     44.74 305 eP     51 04.60    1.0
CTI     44.81 302 P      51 04.50    0.2
GIB     44.89 290 P      51 03.50   -1.5
CRE     45.05 298 P      51 04.50   -1.7
SFI     45.06 299 P      51 07.50    1.4
OGA     45.10 303 iPc    51 06.40   -0.3
OSS     45.73 303 ePc    51 11.30   -0.3
BDI     45.92 299 P      51 13.00    0.0
PII     46.04 299 P      51 02.50  -11.4X
SAX     46.17 304 ePc    51 15.10   -0.1
VDL     46.22 303 ePc    51 15.20   -0.4
LLS     46.47 303 ePc    51 16.70   -0.8
BOB     46.57 300 P      51 19.10    0.9
SLE     46.65 305 ePc    51 18.30   -0.4
TMA     46.70 302 ePc    51 18.60   -0.7
VAI     46.82 302 P      51 17.60   -2.3
PCP     47.25 300 P      51 22.27   -1.1
MMK     47.33 302 ePc    51 23.70   -0.5
CDF     47.34 306 eP     51 24.00   -0.1
        0.6s      3.60nm          3.9mb
PGF     47.40 297 iPc    51 24.40   -0.2
        0.6s     14.45nm          4.5mb
CKI     47.46 300 P      51 15.00   -9.9X
FIN     47.56 300 P      51 24.32   -1.4
DIX     47.70 302 ePc    51 27.10    0.0
BSF     47.77 305 eP     51 27.30   -0.1
        0.8s     24.20nm          4.6mb
ROB     47.78 300 P      51 25.96   -1.5
RSP     48.01 301 P      51 28.12   -1.1
LSD     48.01 302 P      51 29.45    0.0
HAU     48.03 305 eP     51 29.40    0.1
        0.6s      8.10nm          4.2mb
EMS     48.03 303 ePc    51 29.40   -0.1
ENR     48.11 300 P      51 29.66   -0.4
DOI     48.16 300 P      51 28.50   -1.9
STV     48.17 300 P      51 29.14   -1.3
SBF     48.18 300 iPc    51 30.80    0.2
        0.8s     32.25nm          4.7mb
LPG     48.28 302 iPc    51 31.90    0.3
        0.8s     16.10nm          4.4mb
LPL     48.29 302 iPc    51 31.80    0.3
        0.8s     16.10nm          4.4mb
RRL     48.39 301 P      51 31.91   -0.4
BNI     48.43 301 P      51 32.20   -0.3
FRF     48.81 299 eP     51 35.00   -0.3
        0.6s     10.80nm          4.4mb
LRG     49.04 299 eP     51 36.80   -0.2
        0.7s      6.60nm          4.2mb
LBF     49.81 304 eP     51 42.40   -0.5
        1.0s      9.00nm          4.1mb
LOR     49.83 305 eP     51 42.50   -0.5
        1.0s      8.00nm          4.1mb
SMF     49.98 304 iPc    51 44.00   -0.2
        0.8s     25.90nm          4.7mb
SSF     50.11 305 eP     51 44.70   -0.4
        1.0s     14.00nm          4.3mb
AVF     50.28 304 iPc    51 46.10   -0.2
        0.7s     18.75nm          4.6mb
BGF     50.67 304 eP     51 49.00   -0.4
        0.6s      6.30nm          4.2mb
MAF     50.94 304 iPc    51 51.60    0.2
        0.8s     20.15nm          4.6mb
TCF     51.16 304 iPc    51 53.00   -0.1
        0.8s     19.50nm          4.6mb
CAF     51.63 302 iPc    51 56.70    0.1
        0.8s     13.45nm          4.4mb
LSF     51.63 304 eP     51 56.00   -0.5
        0.6s     10.80nm          4.5mb
RJF     51.89 303 iPc    51 58.70    0.2
        0.8s      8.05nm          4.2mb
LDF     52.11 307 eP     51 59.60   -0.4
        0.8s     13.45nm          4.4mb
LPO     52.29 302 eP     52 01.40    0.0
        0.8s      8.05nm          4.2mb
FLN     52.30 307 eP     52 00.70   -0.6
        0.8s     13.45nm          4.4mb
LFF     52.53 303 eP     52 03.20    0.1
        0.6s     14.45nm          4.6mb
GRR     52.63 307 eP     52 03.30   -0.5
        0.7s     17.65nm          4.6mb
MFF     52.65 305 eP     52 03.40   -0.6
        0.8s     10.75nm          4.3mb
MAT     52.89  68 (P)    52 03.00   -2.9
EPF     53.38 300 iPc    52 08.30   -1.2
        0.8s      8.05nm          4.2mb
DAG     54.87 344 iPc    52 18.90   -0.8
        0.7s     18.49nm          4.7mb
                  ipP    53 14.00 249km
BCAO    57.72 250 iPc    52 39.20   -1.4
        0.8s     74.00nm          5.4mb
                  ic     52 41.70
KRI     65.89 224 iPd    53 43.30    8.5X
BRW     67.36  15 iPc    53 43.20    0.1
MBC     67.42   3 ePc    53 44.00    0.6
        0.5s     26.00nm          5.2mb
BUL     69.12 223 iPd    53 54.30   -0.4
        1.0s     28.00nm          4.9mb
IMA     72.17  18 iPc    54 12.00   -0.4
        0.9s     12.50nm          4.6mb
MBL     73.46 133 iPc    54 20.60    0.4
INK     73.97   9 eP     54 23.00    0.4
        0.5s     15.00nm          5.0mb
TTA     74.07  20 iPc    54 23.80    0.4
FBA     74.52  16 iPc    54 25.80    0.0
        0.9s     29.20nm          5.0mb
FRB     75.17 343 eP     54 29.00   -0.5
SVW     75.63  21 ePc    54 33.50    1.3
PWA     76.77  19 iPc    54 38.30   -0.1
TOA     77.30  17 iPc    54 42.40    1.0
KDC     79.30  22 iPc    54 52.50    0.4
YKA     81.33   3 eP     55 02.50   -0.2
        0.7s      7.60nm          4.5mb
WB5     81.84 122 eP     55 05.90   -0.1
WRA     81.86 122 Pc     55 06.00   -0.2
        0.3s      2.20nm          4.4mb
ASPA    84.12 125 eP     55 17.50    0.0
        0.8s     11.00nm          4.7mb
FFC     89.03 356 iPc    55 41.50    0.6
        0.9s     16.00nm          4.9mb
EDM     90.65   3 ePc    55 49.00    0.5
PNT     94.11   7 eP     56 05.00    0.5
      S.D. = 0.9  on 145 of 152 obs.
-------------------------------------------
?  MAY  02, 1990  11h 44m 29.88± 0.91s
    38.178 N ± 8.9km     5.059 W ± 8.7km
    DEPTH =  10.0km  (geophysicist)
 SPAIN                                (377)
      mbLg 2.8 (MDD).

EHOR     0.39 203 ePg    44 37.60   -0.2
                  eSg    44 43.80
EBAN     1.00  90 ePg    44 49.00    0.1
                  eSg    45 03.60
EVAL     1.46 247 ePn    44 56.60    0.3
                  eSn    45 15.60
EPLA     2.05 337 ePn    45 04.60   -0.2
                  eSn    45 30.00
GUD      2.56  16 ePg    45 15.80    3.6X
                  eSg    45 46.00
      S.D. = 0.4  on   4 of   5 obs.
-------------------------------------------
*  MAY  02, 1990  11h 59m 42.16± 0.48s
    55.824 S ±13.7km    26.951 W ±12.6km
    DEPTH =  33.0km  (normal)
    5.1mb (  3 obs.)
 SOUTH SANDWICH ISLANDS REGION    (153)

AIA     20.32 227 eP     04 20.20    2.6
SPA     34.36 180 iPd    06 28.10    0.4
        1.0s     21.00nm          5.0mb
                  i      06 56.20
PDCR    44.22 343 eP     07 51.80    2.0
SIV     47.52 313 iPc    08 16.20    0.2
SLR     49.70  76 iPc    08 32.20   -0.8
LPB     50.13 305 P      08 37.00    0.4
ZOBO    50.37 305 iPc    08 38.90    0.3
BUL     54.38  72 iPd    09 09.80    1.7
        0.9s     14.29nm          5.0mb
BCAO    70.67  49 iPc    10 58.60    2.2
        0.6s     38.00nm          5.6mb
SRO    110.01  31 ePdiff14 08.80   -0.2
                  i      14 34.60
KSP    112.20  28 ePdiff14 18.50   -0.2
MSU    118.36 297 PKP    18 26.40   -0.9
RSSD   118.81 307 PKP    18 25.50   -2.5X
RSON   119.83 318 PKP    18 26.50   -2.9X
DUG    119.97 298 PKP    18 29.20   -1.0
NB2    120.35  20 Pdiff 14 43.20  -11.6X
        0.9s     12.30nm
TNP    120.61 294 PKP    18 30.00   -1.6
KVN    121.79 294 PKP    18 33.20   -0.6
IMW    121.85 302 PKP    18 32.50   -1.4
ARN    122.32 290 PKP    18 34.40   -0.2
HPI    122.75 301 PKP    18 35.00   -0.6
LON    129.22 298 PKP    18 46.20   -1.5
BMW    129.74 297 PKP    18 48.40   -0.3
MCW    131.03 299 PKP    18 50.50   -0.5
MBC    143.83 336 ePKPd 19 11.30   -2.4X
        0.5s     10.00nm
INK    145.71 321 ePKPc 19 17.00   -0.1
        0.7s     37.00nm
PMR    150.31 305 iPKP   19 28.60    4.1X
        0.8s     18.97nm
FBA    150.47 312 iPKP   19 28.40    3.7X
        0.7s     18.90nm
                  i      19 36.40
KDC    150.78 297 iPKP   19 30.00    4.7X
        0.5s     14.46nm
IMA    153.05 314 iPKP   19 35.30    6.7X
        0.7s      6.18nm
TTA    153.74 307 iPKP   19 36.90    7.3X
        0.5s      7.23nm
BRW    153.89 326 ePKP   19 36.90    7.5X
                  i      19 51.60
      S.D. = 1.2  on  22 of  32 obs.
-------------------------------------------
   MAY  02, 1990  12h 06m 04.11± 0.15s
   36.419 N ± 3.5km    71.134 E ± 2.7km
   DEPTH = 244.8km  (  6 depth phases)
   4.5mb ( 36 obs.)
 AFGHANISTAN-USSR BORDER REGION   (717)
      Felt (III) at Khorog, Obigarm
      and Dushanbe, USSR.

KSH      4.88  50 P      07 18.00   -1.0
QUE      7.13 211 iPd    07 47.90    0.7
                  eS     09 07.90
NDI      9.26 145 iPd    08 13.00   -1.3
        1.0s    750.00nm          5.7mb X
MAIO     9.39 273 iPd    08 14.50   -1.5
        0.9s     55.41nm          4.7mb
                  eS     10 02.00
GKN     14.17 122 P      09 14.20   -1.6
WMQ     14.66  55 P      09 20.40   -1.2
                  S      12 01.50
DMN     14.74 123 P      09 21.80   -1.1
PKI     14.97 122 P      09 24.40   -1.3
GUN     15.08 120 P      09 25.60   -1.5
BOM     17.52 175 eP     09 51.00   -3.3X
                  eS     13 12.00
POO     17.98 172 iPc    10 00.00    0.9
                  iS     13 25.00
LSA     18.05 106 iPd    10 01.00    0.7
                  iS     13 15.00
HYB     20.03 159 eP     10 21.00    1.0
```

02d 12h

	0.8s	23.10nm		4.8mb		
DHR	20.53	246	iPc	10 25.20	0.5	
SHL	20.78	116	iP	10 07.50	-19.9X	
			iS	14 05.00		
GTA	22.78	74	iPd	10 49.20	2.5	
	1.0s	100.00nm		5.3mb		
GBA	23.41	164	Pc	10 53.50	0.8	
	0.5s	13.50nm		4.7mb		
RYD	24.05	248	iPc	10 59.20	0.5	
LZH	26.31	81	Pc	11 20.00	0.6	
	1.2s	31.00nm		4.8mb		
			pP	12 11.00	268kmX	
KOD	26.69	166	eP	11 24.00	0.9	
CD2	27.62	92	P	11 31.80	0.7	
KMSA	28.24	243	ePc	11 36.30	-0.4	
KMI	29.27	104	eP	11 46.00	0.0	
CHG	30.09	118	eP	11 53.50	0.6	
CHTO	30.09	118	eP	11 53.80	0.9	
	0.4s	1.95nm		4.1mb		
			pP	12 43.90	253km	
BTO	30.54	70	P	11 57.00	0.2	
XAN	30.83	83	P	11 59.00	-0.3	
HHC	31.69	69	P	12 07.40	0.6	
GYA	31.75	98	iPd	12 08.00	0.6	
			PcP	14 52.00		
TIY	32.79	75	iPd	12 17.10	0.8	
MLR	34.92	299	ePc	12 48.00	13.7X	
BJI	35.28	70	eP	12 37.50	0.2	
	0.7s	17.00nm		4.7mb		
			ePcP	15 02.00		
			eS	17 50.00		
NUR	37.96	324	iP	13 00.00	0.6	
	0.5s	35.10nm		5.2mb		
SUF	38.05	328	iP	13 10.00	9.8X	
	0.4s	22.60nm		5.1mb		
KRA	38.95	307	eP	13 08.50	0.8	
			e	13 59.60		
NJ2	39.38	82	iPd	13 12.40	0.9	
			PcP	15 13.80		
SOD	39.86	335	iP	13 15.40	0.5	
UPP	41.20	322	iP	13 26.10	0.1	
SSE	41.58	82	Pc	13 30.70	1.2	
	1.0s	200.00nm		5.5mb		
KTK1	41.73	336	iPc	13 30.60	0.3	
PRU	42.43	307	P	13 37.30	1.1	
			e	14 28.50		
BRG	42.76	308	iP	13 38.70	-0.1	
	1.0s	16.00nm		4.3mb		
			i	14 30.50		
KHC	43.12	306	eP	13 43.20	1.3	
			e	14 35.00		
MGR	43.19	292	P	13 43.00	0.5	
HFS	43.20	322	eP	13 41.80	-0.5	
	0.3s	16.00nm		4.8mb		
CLL	43.33	309	iPd	13 44.00	0.6	
	1.4s	14.00nm		4.1mb		
			e	14 35.00		
FVI	43.95	302	P	13 48.50	0.1	
MOX	44.25	308	e(P)	13 52.00	1.2	
ARV	44.37	298	P	13 52.50	0.6	
NB2	44.51	323	P	13 52.30	-0.4	
	0.5s	5.30nm		4.1mb		
CTI	44.81	302	P	13 55.50	0.1	
BDI	45.92	299	P	14 04.00	-0.2	
BOB	46.58	300	P	14 10.50	1.2	
VAI	46.82	302	P	14 10.50	-0.5	
CDF	47.35	306	eP	14 15.60	0.4	
	0.6s	3.60nm		3.9mb		
PGF	47.40	297	eP	14 15.20	-0.5	
	0.6s	7.20nm		4.2mb		
BSF	47.77	305	eP	14 18.30	-0.2	
	0.6s	7.20nm		4.2mb		
SBF	48.19	300	eP	14 21.70	0.0	
	0.6s	12.65nm		4.5mb		
LPG	48.28	302	eP	14 22.70	0.0	
	0.8s	6.70nm		4.1mb		
LPL	48.29	302	eP	14 22.60	-0.1	
	0.8s	8.75nm		4.2mb		
BNI	48.44	301	P	14 23.50	-0.2	
SMF	49.99	304	eP	14 34.70	-0.6	
	0.8s	12.10nm		4.4mb		
AVF	50.28	304	eP	14 36.90	-0.6	
	0.8s	10.05nm		4.3mb		
MAF	50.95	304	eP	14 42.50	-0.1	
	0.8s	8.75nm		4.2mb		
TCF	51.17	304	eP	14 44.10	-0.2	
	0.8s	9.40nm		4.3mb		
CAF	51.63	302	eP	14 47.50	-0.2	
	0.8s	6.70nm		4.1mb		
LSF	51.64	304	eP	14 47.10	-0.6	
	0.8s	9.40nm		4.3mb		
LDF	52.11	307	eP	14 50.70	-0.4	
FLN	52.30	307	eP	14 51.60	-0.9	
	0.6s	7.20nm		4.3mb		
EKA	52.42	316	Pc	14 52.40	-0.9	
	1.2s	21.00nm		4.5mb		
MFF	52.66	305	eP	14 54.10	-1.0	
	0.8s	8.05nm		4.2mb		
MAT	52.88	68	(P)	14 55.00	-2.0	
DAG	54.86	344	iPc	15 10.00	-0.9	
	0.4s	23.73nm		5.1mb		
			ipP	16 04.00	244km	
KRI	65.90	224	iPd	16 24.90	-1.1	
BRW	67.35	15	iPc	16 34.10	-0.2	
MBC	67.41	3	ePc	16 34.90	0.3	
	0.5s	30.00nm		5.3mb		
BUL	69.13	223	iPd	16 45.90	-0.1	
			i	17 43.90		
NANU	72.10	137	eP	17 05.80	0.3	
IMA	72.17	18	iPc	17 03.00	-0.6	
			epP	17 59.80	242km	
MBL	73.45	133	iPc	17 31.30	19.9X	
INK	73.97	9	iPc	17 14.00	0.3	
	0.7s	31.00nm		5.1mb		
TTA	74.06	20	iPc	17 14.70	0.2	
FBA	74.52	16	iPc	17 16.70	-0.3	
			epP	18 13.40	241km	
SVW	75.62	21	iPc	17 24.20	0.8	
PMR	77.01	18	iPc	17 30.50	-0.4	
TOA	77.30	17	iPc	17 33.50	0.9	
			epP	18 31.00	243km	
KDC	79.29	22	iPc	17 43.40	0.1	
			epP	18 42.20	247km	
YKA	81.32	3	eP	17 53.50	-0.4	
	0.6s	9.90nm		4.7mb		
WB5	81.83	122	iPc	17 56.50	-0.7	
WRA	81.86	122	Pd	17 51.70	-5.7X	
	0.5s	2.10nm		4.1mb		
ASPA	84.12	125	iPc	18 08.30	-0.5	
	0.6s	40.00nm		5.4mb		
FORR	85.61	134	iPc	18 15.20	-0.7	
	0.4s	43.00nm		5.6mb	X	
FFC	89.03	356	eP	18 32.00	-0.2	
	1.0s	24.00nm		5.1mb		
EDM	90.64	3	iPc	18 40.40	0.7	
RSON	92.08	350	P	18 45.00	-1.3	
PNT	94.11	7	eP	18 48.00	-7.7X	
SPA	126.23	180	iPKPd	24 32.20	-5.8X	
	0.8s	7.92nm				
PEL	148.61	265	iPKPd	25 23.40	4.0X	
LNV	149.41	263	ePKP	25 20.50	0.0	
	S.D. = 0.8	on	90 of	99 obs.		

? MAY 02, 1990 12h 30m 17.27± 9.11s
9.474 S ±87.7km 129.091 E ±17.4km
DEPTH = 185.5 ± 28.5 km
4.2mb (2 obs.)
TIMOR SEA (290)

MTN	3.90	149	iPc	31 17.70	-0.2	
			eS	32 15.00		
KNA	6.25	183	eP	31 48.40	0.1	
			eS	33 04.00		
WB5	11.53	154	eP	32 58.20	0.6	
			eS	35 10.00		
WRA	11.58	155	Pc	32 58.40	0.2	
	0.3s	1.80nm		4.0mb		
MBL	14.64	216	eP	33 37.00	0.1	
			eS	36 16.00		
ASPA	14.84	163	eP	33 38.80	-0.7	
	0.4s	6.00nm		4.3mb		
			eS	36 33.10		
QIS	14.97	139	eP	33 44.00	2.9X	
			eS	36 35.00		
WARB	16.78	188	eP	34 10.00	6.8X	
NANU	18.40	223	eP	34 27.00	6.1X	
			eS	37 45.00		
	S.D. = 0.7	on	6 of	9 obs.		

& MAY 02, 1990 13h 42m 28.35s
62.228 N 150.829 W
DEPTH = 64.9km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.32	56	iP	42 38.72	-0.5	
SKT	0.41	233	iP	42 39.37	-0.7	
PWA	0.73	142	iPc	42 43.00	-0.5	
SUA	0.77	177	iP	42 43.60	-0.5	
			iS	42 57.02		
HUR	0.93	36	eP	42 45.20	-0.8	
			eS	42 58.23		
GHO	1.01	116	iP	42 46.52	-0.5	
			eS	43 02.95		
PLRM	1.03	128	eP	42 46.45	-0.7	
			eS	43 01.92		
PMR	1.03	128	iPc	42 46.60	-0.6	
NCG	1.04	218	eP	42 46.91	-0.6	
CGLM	1.08	212	eP	42 47.88	-0.1	
CRP	1.15	214	eP	42 48.73	-0.3	
PMS	1.16	148	iPc	42 49.00	0.0	
SPU	1.20	210	eP	42 48.87	-0.7	
			iS	43 06.17		
SML	1.25	109	eP	42 49.62	-0.6	
KTH	1.33	358	iP	42 50.63	-0.7	
			eS	43 07.46		
RND	1.49	37	eP	42 52.22	-1.3	
			eS	43 10.70		
MCK	1.74	29	eP	42 56.52	-0.4	
SLKM	1.75	170	eP	42 56.67	-0.4	
RDT	1.83	205	eP	42 57.67	-0.5	
NCA	1.90	95	eP	42 58.40	-0.7	
RED	2.04	208	eP	43 00.70	-0.5	
TOA	2.19	91	iPd	43 02.80	-0.4	
SEW	2.23	162	eP	43 02.95	-0.8	
GLI	2.24	125	eP	43 02.07	-1.8	
VZW	2.35	118	eP	43 03.76	-1.7	
VLZ	2.41	115	eP	43 04.33	-1.8	
KLU	2.44	105	iP	43 04.97	-1.7	
			eS	43 34.55		
TTA	2.50	289	iPc	43 05.60	-1.9	
SVW	2.55	246	iPd	43 06.50	-1.7	
PAX	2.59	71	eP	43 08.88	0.1	
CNPM	2.72	184	eP	43 10.92	0.4	
IMA	4.05	343	iPc	43 23.80	-5.6	
TGL	4.11	108	eP	43 29.23	-1.0	
BALM	4.22	103	eP	43 28.80	-3.0	
	34 obs. associated					

% MAY 02, 1990 13h 42m 36.62± 1.08s
41.224 N ±10.4km 14.863 E ±16.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.44	186	P	42 45.50	0.0	
			eSg	42 54.00		
DUI	0.53	325	P	42 47.40	0.0	
			eSg	42 55.50		
SGO	0.75	153	P	42 51.40	0.2	
			eSg	43 03.20		
SDI	0.92	302	P	42 54.30	0.0	
			eSg	43 04.90		
MGR	1.21	154	P	42 58.90	-0.2	
			eSn	43 14.40		
	S.D. = 0.2	on	5 of	5 obs.		

MAY 02, 1990 14h 03m 37.77± 0.20s
5.398 S ± 3.0km 150.505 E ± 4.5km
DEPTH = 142.2km (3 depth phases)
5.0mb (29 obs.)
NEW BRITAIN REGION (192)

RAB	2.05	54	iPd	04 13.20	-0.2	
			iS	04 30.00		
LAT	3.70	250	eP	04 35.50	0.9	
PMG	5.19	220	iPd	04 55.30	0.8	
			eS	05 32.00		
CTA	15.18	195	iPc	07 07.30	1.3	
	1.5s	166.67nm		5.1mb		
			e	07 32.00		
QIS	18.42	214	iPc	07 44.70	-0.2	
	0.6s	19.00nm		4.6mb		
			e	11 14.00		
GUA	19.62	344	ePd	07 58.70	1.2	
	1.0s	880.00nm		6.1mb	X	
GUMO	19.68	344	ePd	07 59.00	0.9	
	1.3s	686.27nm		5.9mb		
PJG	19.68	344	ePd	07 59.00	0.9	
MTN	20.50	248	eP	08 06.00	-0.4	
			e	11 47.00		
RMQ	21.04	184	iPc	08 12.20	0.4	
	0.9s	151.00nm		5.4mb		

		e	08	30.90	
WB5	21.30	226 eP	08	14.50	0.0
		eS	14	02.00	
BRS	21.98	175 iPd	08	21.50	0.4
	0.7s	25.00nm			4.7mb
DZM	22.64	139 iPc	08	27.80	0.2
KNA	23.69	243 iPd	08	38.70	1.0
	0.3s	42.00nm			5.4mb
ASPA	24.20	220 iPd	08	42.00	-0.6
	0.7s	23.00nm			4.8mb
		iS	12	49.50	
		LR	18	06.10	
COO	25.08	177 eP	08	51.00	0.2
BWA	28.95	184 eP	09	26.20	0.4
CAN	29.81	182 eP	09	33.00	-0.4
WARB	30.78	225 iPd	09	42.10	0.1
FORR	32.93	217 iPc	09	59.60	-1.1
	0.3s	22.00nm			5.4mb
MBL	33.61	239 iPd	10	06.00	-0.7
	0.4s	16.00nm			5.1mb
MEKA	37.08	232 iPd	10	35.90	-0.1
	0.4s	16.00nm			5.1mb
COOL	37.46	224 iPd	10	38.70	-0.5
	0.4s	10.00nm			4.9mb
PIP	37.74	309 ePd	10	41.00	-0.6
NANU	37.84	240 iPd	10	42.00	-0.4
	0.3s	16.00nm			5.3mb
MRWA	40.31	230 eP	11	02.40	-0.3
	0.4s	9.00nm			4.8mb
BAL	40.48	228 eP	11	03.00	-1.1
PUZ	41.17	146 eP	11	09.90	0.2
NWAO	41.35	224 eP	11	10.00	-1.3
NOZ	41.44	147 P	11	12.20	0.4
MUN	41.56	226 eP	11	12.30	-0.7
MNG	41.62	151 P	11	13.20	-0.1
	0.3s	12.00nm			5.0mb
WKYJ	41.85	341 eP	11	15.20	-0.1
PGZ	42.00	150 P	11	16.90	0.5
	0.3s	17.00nm			5.2mb
TKSJ	42.15	339 eP	11	17.70	0.0
RKG	42.16	223 eP	11	20.00	2.2
IIDJ	42.35	345 eP	11	18.10	-1.3
CHJJ	42.62	346 P	11	20.20	-1.3
MAT	43.28	346 iPd	11	25.60	-1.3
	1.1s	46.84nm			5.1mb
QZH	43.28	316 Pd	11	28.00	1.0
SHNJ	43.37	336 eP	11	28.70	1.1
MTMJ	43.42	345 eP	11	27.50	-0.6
YONJ	43.44	340 eP	11	28.80	0.6
NIIJ	43.75	347 eP	11	30.30	-0.4
SSE	45.84	324 P	11	47.50	0.2
	1.5s	50.00nm			5.0mb
GZH	46.03	309 P	11	50.40	1.4
QIZ	46.83	302 P	11	56.00	0.7
NJ2	47.91	323 Pd	12	04.60	1.1
WHN	49.74	318 Pd	12	18.50	0.9
	0.7s	20.00nm			5.0mb
TIA	51.87	326 eP	12	33.30	-0.4
GYA	52.96	309 P	12	42.80	0.8
SNY	53.03	335 Pd	12	41.60	-0.5
MDJ	53.22	341 iPc	12	44.50	1.1
CN2	53.94	338 Pd	12	48.50	-0.3
		epP	13	23.00	149km
BJI	55.16	328 Pc	13	00.50	2.9
	2.0s	140.00nm			5.5mb
KMI	55.45	305 Pc	13	00.50	0.2
XAN	55.50	318 P	13	00.00	-0.4
TIY	55.62	324 Pd	13	01.10	0.0
CHG	56.20	297 eP	13	05.20	-0.3
CHTO	56.20	297 eP	13	05.10	-0.4
	0.9s	2.56nm			4.2mb
		pP	13	36.50	133km
CD2	57.41	312 P	13	14.90	1.0
HHC	58.23	326 P	13	19.60	0.1
BTO	58.93	325 P	13	24.50	0.1
LZH	60.09	317 Pc	13	33.50	1.0
	1.5s	100.00nm			5.6mb
		pP	14	08.00	145km
PMO	61.20	104 iP	13	40.90	0.8
	1.2s	25.00nm			5.0mb
VAH	61.47	104 iP	13	42.30	0.4
	1.2s	10.00nm			4.6mb
TPT	61.47	104 iP	13	42.50	0.6
	1.2s	15.00nm			4.8mb
RUV	61.71	104 iP	13	43.90	0.4
	1.2s	25.00nm			5.0mb
GTA	64.56	318 eP	14	02.70	0.7
GUN	70.48	302 P	14	38.50	-1.1
	0.5s	15.00nm			5.1mb
PKI	70.78	301 P	14	39.90	-1.4
DMN	71.05	301 P	14	42.00	-0.9
GKN	71.56	302 P	14	44.60	-1.2
	0.5s	12.00nm			4.9mb
HYB	74.53	290 eP	15	01.80	-1.3
WMQ	74.64	318 P	15	03.50	0.2
G8A	74.93	286 Pd	15	04.40	-0.9
	0.5s	1.30nm			3.9mb X
MAW	84.14	203 iP	15	54.50	0.9
SPA	84.64	180 iPd	15	55.60	-0.8
	1.0s	6.00nm			4.4mb
INK	89.83	21 eP	16	20.00	-1.1
MBC	95.24	14 eP	16	45.00	-0.9
YKA	97.02	28 eP	16	52.50	-1.6
	0.5s	1.20nm			4.6mb
NB2	116.68	339 PKP	22	04.60	-1.8
	0.8s	1.50nm			
BUL	117.53	244 iPKPd	22	07.50	-1.9
	0.8s	12.31nm			
HYA	118.28	341 iPdiff	18	25.02	-3.8X
		eSg	19	21.03	
KHC	123.24	328 ePKP	22	19.90	0.7
BCAO	132.15	271 ePKPc	22	35.90	-1.5
	0.6s	9.00nm			
ZOBO	136.14	120 PKP	22	31.00	-14.5X
SIV	142.21	125 PKP	22	49.60	-6.3X
PDCR	159.78	152 (PKP)	23	22.00	0.5
CAI	165.91	147 ePKP	23	28.10	0.7
	S.D. = 0.9	on 87 of 90 obs.			

% MAY 02, 1990 14h 17m 25.77± 1.65s
57.401 N ±11.1km 6.131 E ±23.8km
DEPTH = 10.0km (geophysicist)
NORTH SEA (534)
MD 2.3 (BER).

KMY	1.88	346 iPc	17	57.66	-0.5
		eSg	18	20.80	
BLS1	2.03	10 iPgc	18	01.40	0.9
		eSg	18	25.20	
ODD1	2.53	6 eP	18	08.31	0.7
		eSg	18	43.21	
NRA0	4.36	38 Pn	18	33.00	-0.5
		Sn	19	23.20	
		Lg	19	41.90	
MOL	5.23	7 iP	18	45.17	-0.7
BRG	7.98	142 i(P)	19	24.60	0.1
	S.D. = 0.9	on 6 of 6 obs.			

? MAY 02, 1990 14h 22m 40.72± 1.85s
51.880 N ±30.2km 179.674 E ±10.3km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)
ML 3.3 (PMR). Felt on Amchitka.

ADK	2.26	88 iPc	23	17.10	0.7
SMY	3.52	286 iPd	23	34.60	0.2
IMA	19.53	33 iPc	27	09.30	1.2
TOA	20.97	48 ePc	27	22.80	-0.3
FBA	21.15	39 ePc	27	24.60	-0.2
MBC	33.50	22 eP	29	19.00	0.5
YKA	35.58	47 eP	29	34.40	-2.1
	0.4s	1.10nm			4.1mb
	S.D. = 1.3	on 7 of 7 obs.			

? MAY 02, 1990 15h 33m 28.50± 3.29s
6.328 S ±16.7km 130.491 E ±17.9km
DEPTH = 94.0 ± 35.2 km
3.9mb (3 obs.)
BANDA SEA (280)

MTN	6.51	174 iPd	35	04.80	1.4
		eS	36	13.00	
KNA	9.52	190 iPc	35	43.60	-0.9
	0.3s	37.00nm			5.8mb X
		eS	37	20.00	
WB5	13.99	165 eP	36	42.10	-1.7
		eS	39	09.00	
QIS	16.68	149 eP	37	18.00	0.1
		eS	40	09.00	
ASPA	17.55	170 iPd	37	29.20	0.5
	0.5s	20.00nm			4.6mb
		iS	40	29.30	
MBL	18.00	214 eP	37	34.00	-0.1
		eS	40	40.00	
WARB	20.08	190 eP	37	58.00	1.0
	0.4s	1.00nm			3.5mb
		eS	41	35.00	
NANU	21.65	220 iPd	38	12.50	-0.3
		eS	42	10.00	
CHTO	39.89	309 eP	40	55.80	0.9
	0.8s	1.10nm			3.8mb
GUN	54.88	311 P	42	51.60	-0.6
GKN	55.87	310 P	42	58.80	-0.3
	S.D. = 1.1	on 11 of 11 obs.			

MAY 02, 1990 16h 40m 25.72± 0.55s
36.469 N ± 5.8km 4.483 W ± 3.0km
DEPTH = 101.6 ± 6.0 km
4.0mb (2 obs.)
STRAIT OF GIBRALTAR (385)
mbLg 4.2 (MDD). Felt (III) in the Malaga area, Spain.

MAL	0.26	13 iPg	40	39.80	-0.6
EPRU	0.78	310 iPgd	40	44.70	0.4
		iSg	40	51.40	
EJIF	0.80	269 iPgc	40	44.70	0.3
		iSg	40	51.40	
MOMI	1.01	262 iP	40	46.50	-0.2
AFC	1.09	44 iPgc	40	48.30	0.6
		iSg	41	01.00	
GIBL	1.23	287 iP	40	50.00	0.8
EHOR	1.48	336 iPnc	40	52.00	-0.2
EMEL	1.70	133 iPnd	40	54.70	-0.3
		iSn	41	10.50	
EBAN	1.78	18 iPnc	40	56.10	0.1
ENIJ	1.89	74 iPnc	40	57.70	0.3
		iSn	41	19.50	
EVAL	2.13	302 iPnd	41	00.10	-0.4
		iSn	41	23.70	
EVIA	2.67	35 iPnc	41	07.80	-0.2
FIG	2.76	284 P	41	08.70	-0.3
		S	41	38.80	
FAR	2.86	282 P	41	10.20	-0.1
		S	41	40.80	
TOL	3.42	6 iPn	41	18.00	-0.1
		iPb	41	25.00	
		iPg	41	29.50	
		iSn	41	55.50	
		iSb	42	07.00	
		eSg	42	11.50	
MOE	3.70	305 iPd	41	33.50	11.7X
		S	42	22.60	
EPLA	3.80	341 iPnd	41	23.30	0.0
ACU	3.83	57 iPnc	41	24.10	0.5
		iSn	42	04.90	
ECHE	4.17	41 iPnc	41	28.30	0.0
		iSn	42	11.80	
GUD	4.18	3 iPnd	41	28.20	-0.3
		iSn	42	11.40	
LIS	4.33	303 iPd	41	30.30	-0.2
		iS	42	16.10	
MTH	4.45	304 P	41	32.00	-0.2
		S	42	18.70	
ETOR	4.74	23 iPnd	41	36.00	-0.2
		iSn	42	25.40	
PTO	5.66	327 iPnc	41	48.30	-0.6
		iSn	42	47.00	
EROO	5.79	40 iPnc	41	50.60	-0.1
		iSn	42	51.10	
EBR	5.83	40 ePn	41	51.00	-0.2
		eSg	45	52.00	
ECRI	6.32	13 iPnc	41	58.30	0.3
		iSn	43	04.90	
LHE	7.09	24 P	42	09.20	0.6
STS	7.13	335 iPnd	42	09.30	0.2
ISSF	7.14	22 P	42	09.70	0.5
BOH	7.14	21 P	42	09.40	0.1
ELYF	7.21	21 P	42	10.26	0.1
ATE	7.22	23 P	42	10.59	0.3
MADF	7.24	22 P	42	10.72	0.2
ESCF	7.25	23 P	42	11.78	1.0
JAU	7.28	25 P	42	12.06	0.8
EMON	7.29	343 iPnc	42	11.40	0.1
		iSn	43	28.00	
OGE	7.37	24 P	42	13.08	0.8
EPF	7.53	28 Pn	42	14.10	-0.5
		Sn	43	32.50	
ETER	8.13	42 iPnc	42	23.60	0.9
LPO	9.27	26 Pn	42	37.30	-0.8

02d 16h

			Sn	44 11.50		
LFF	9.34	23	Pn	42 38.70	-0.4	
			Sn	44 12.80		
CAF	9.80	28	Pn	42 44.00	-1.3	
			Sn	44 23.80		
RJF	9.92	25	Pn	42 45.40	-1.5	
			Sn	44 26.50		
LSF	10.76	23	Pn	42 57.80	-0.3	
			Sn	44 47.60		
TCF	11.02	25	Pn	43 00.80	-0.8	
			Sn	44 52.70		
MAF	11.08	26	Pn	43 01.30	-1.1	
			Sn	44 55.00		
BGF	11.47	26	Pn	43 05.80	-1.7	
			Sn	45 04.10		
SSF	12.14	27	Pn	43 15.40	-0.9	
			Sn	45 23.20		
LDF	12.53	13	Pn	43 21.60	0.1	
			Sn	45 30.40		
FLN	12.63	12	Pn	43 23.60	0.9	
			Sn	45 28.80		
DOU	15.12	23	iPc	43 56.60	1.7	
	0.6s		8.20nm		4.1mb	
EKA	18.89	2	P	44 42.00	1.3	
	0.9s		4.70nm		3.8mb	
	S.D. = 0.7	on	52 of	53 obs.		

• MAY 02, 1990 17h 24m 23.36± 1.26s
38.157 N ±11.6km 69.909 E ±19.6km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
TAJIK SSR (715)

QUE	8.32	198	eP	26 25.00	0.2	
MAIO	8.51	261	ePn	26 27.00	-0.4	
			eSn	28 02.00		
HFS	41.23	321	eP	32 07.00	0.6	
	0.5s		4.00nm		4.4mb	
NB2	42.54	322	P	32 17.40	0.2	
	0.7s		2.50nm		4.1mb	
YKA	79.63	2	eP	36 27.70	-0.7	
	0.4s		0.20nm		3.5mb	
	S.D. = 0.7	on	5 of	5 obs.		

MAY 02, 1990 17h 50m 48.89± 0.99s
22.430 N ± 8.6km 120.996 E ± 8.3km
DEPTH = 25.7 ± 5.5 km
4.3mb (6 obs.)
TAIWAN (244)

TWG	0.40	10	iPc	50 55.50	-1.9	
			eS	51 01.00		
TWM1	0.66	307	iPc	51 01.90	0.2	
			eS	51 11.00		
TWK	0.96	331	iPd	51 06.70	0.1	
TWF1	0.96	17	ePc	51 06.20	-0.4	
TWQ	1.84	355	ePc	51 21.00	1.7	
			eS	51 44.60		
TWC	2.31	20	eP	51 27.10	1.2	
TWZ	2.71	11	eP	51 32.90	1.2	
ANP	2.78	10	eP	51 34.00	1.2	
			eS	51 44.00		
QZH	3.33	319	ePn	51 39.60	-0.9	
			Pg	51 52.00		
			Sn	52 20.00		
CVP	4.76	170	eP	52 01.00	0.1	
HKC	6.32	270	iP	52 22.20	-0.6	
GZH	7.09	277	P	52 32.20	-1.5	
SSE	8.63	1	eP	52 52.80	-2.3	
Z	16s		0.80um			
N	11s		0.50um			
NJ2	9.77	349	iPc	53 08.00	-2.8	
Z	12s		0.60um			
QIZ	10.97	254	eP	53 27.60	0.2	
N	15s		0.50um			
E	14s		0.50um			
GYA	13.65	290	eP	54 08.00	4.6X	
XAN	15.70	320	eP	54 31.70	1.7	
BJI	18.03	348	eP	55 01.00	1.8	
	0.8s		10.00nm		4.0mb	
Z	12s		0.36um			
N	12s		0.32um			
HHC	20.02	339	P	55 24.00	1.3	
MAT	20.50	43	(P)	55 29.00	1.3	
	1.0s		13.00nm		4.3mb	
CN2	21.63	9	eP	55 38.00	-1.1	
KEV	70.54	338	eP	01 53.00	-10.2X	
SUF	72.50	331	iP	02 15.10	0.1	
	0.4s		2.70nm		4.6mb	
MBC	75.00	12	eP	02 28.50	-0.9	
HFS	79.01	331	eP	02 51.50	-0.4	
	0.8s		5.60nm		4.6mb	
NB2	79.69	332	P	02 55.30	-0.3	
	0.8s		3.10nm		4.4mb	
YKA	84.65	23	eP	03 20.70	-0.6	
	0.8s		0.70nm		3.9mb	
	S.D. = 1.4	on	25 of	27 obs.		

? MAY 02, 1990 18h 07m 16.76± 5.00s
33.686 S ±37.7km 178.883 E ±41.6km
DEPTH = 169.8 ± 30.8 km
4.9mb (2 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	3.93	187	eP	08 17.60	0.3	
PUZ	4.41	186	P	08 23.20	-0.3	
			S	09 29.70		
NOZ	4.97	188	P	08 30.90	0.1	
PGZ	7.23	196	eP	09 00.20	-0.5	
MNG	7.43	200	eP	09 03.30	-0.2	
			eS	10 42.70		
KHZ	9.68	204	P	09 33.40	0.3	
BRS	23.31	279	ePc	12 13.20	2.7	
QIS	37.10	280	iPc	14 11.00	-1.4	
ASPA	40.44	272	iPc	14 39.90	-0.1	
	0.8s		25.00nm		4.9mb	
WB5	41.74	278	iPc	14 49.30	-1.4	
SPA	56.49	180	iPd	16 43.70	0.6	
	0.9s		21.82nm		5.0mb	
	S.D. = 1.3	on	11 of	11 obs.		

? MAY 02, 1990 18h 44m 59.57± 3.64s
19.002 S ±66.5km 172.882 W ±34.3km
DEPTH = 33.0km (normal)
4.9mb (2 obs.)
TONGA ISLANDS REGION (174)

DZM	19.60	258	iPc	49 29.00	0.8	
BRS	32.57	249	e(P)	51 30.00	-0.2	
CAN	37.34	236	eP	52 13.10	2.2X	
BWA	37.58	238	eP	52 13.00	0.1	
ASPA	49.56	255	iPc	53 48.70	-1.0	
	1.1s		24.00nm		5.1mb	
WB5	49.58	260	eP	53 49.70	-0.2	
FORR	54.27	245	eP	54 24.00	-0.9	
NANU	66.44	253	eP	55 49.30	1.1	
SPA	71.12	180	eP	56 16.80	0.2	
	1.0s		7.50nm		4.7mb	
KSP	147.40	349	ePKP	04 45.50	6.6X	
CLL	147.43	353	ePKP	04 44.00	5.1X	
KHC	149.50	352	PKP	04 51.20	8.9X	
	S.D. = 0.9	on	8 of	12 obs.		

MAY 02, 1990 18h 50m 25.61± 0.46s
14.994 S ± 7.7km 71.939 W ± 5.9km
DEPTH = 138.1 ± 5.9 km
4.5mb (12 obs.)
PERU (116)

ARE	1.52	164	iPd	50 54.00	-1.2	
			eS	51 18.00		
PT03	3.87	284	eP	51 23.80	-0.8	
ZOBO	3.89	110	iPc	51 25.80	0.4	
			S	52 08.00		
LPB	4.00	113	iPc	51 28.00	1.2	
	1.0s		160.00nm			
PT06	4.41	285	iPc	51 31.00	-0.8	
			iS	52 15.00		
PT02	4.82	294	iPc	51 37.30	-0.1	
			eS	52 26.20		
PT08	5.40	303	iPd	51 46.70	1.1	
			eS	52 44.90		
NNA	5.63	301	iPc	51 47.50	-0.8	
	0.8s		100.75nm		5.1mb X	
			i	51 53.00		
			iS	52 49.00		
PT10	5.69	300	eP	51 50.50	1.4	
			eS	52 51.00		
CCH	6.05	114	P	51 54.60	0.3	
SIV	10.52	97	P	52 49.00	-5.0X	
FCH	18.31	176	iP	54 34.50	2.3	
TACH	18.60	177	eP	54 34.50	-0.4	
LNV	18.88	179	eP	54 37.00	-0.9	
BAO	23.10	95	eP	55 19.00	-1.4	
PDCR	31.95	90	eP	56 37.10	-3.5X	
			i	56 39.00		
TUL	55.43	337	e(P)	59 43.60	-4.3X	
	0.6s		3.20nm		4.4mb	
YKA	84.13	342	eP	02 43.20	1.3	
	0.5s		1.80nm		4.2mb	
LFF	88.66	43	eP	03 04.30	0.0	
	0.6s		5.40nm		4.8mb	
MFF	88.74	41	eP	03 04.60	-0.1	
	0.5s		2.90nm		4.6mb	
LPO	88.86	43	eP	03 05.20	-0.1	
	0.6s		3.60nm		4.6mb	
RJF	89.31	43	eP	03 06.90	-0.5	
	0.6s		3.60nm		4.6mb	
CAF	89.53	43	eP	03 08.40	-0.1	
	0.6s		2.70nm		4.5mb	
TCF	90.13	42	eP	03 10.70	-0.5	
	0.6s		2.70nm		4.5mb	
MAF	90.33	42	eP	03 12.10	0.0	
	0.6s		1.80nm		4.3mb	
BGF	90.63	42	eP	03 13.30	-0.2	
	0.6s		5.40nm		4.8mb	
AVF	91.04	42	eP	03 15.00	-0.3	
	0.6s		1.35nm		4.3mb	
SMF	91.31	42	eP	03 16.30	-0.3	
	0.6s		1.80nm		4.4mb	
MAT	145.63	314	ePKP	09 50.00	0.6	
	0.8s		8.96nm			
GBA	150.30	89	PKPc	10 04.00	6.7X	
	0.5s		4.50nm			
HYB	151.57	81	ePKP	10 06.50	7.3X	
GKN	154.71	55	PKP	10 14.00	10.5X	
	S.D. = 0.9	on	26 of	32 obs.		

? MAY 02, 1990 19h 03m 46.18± 5.13s
15.600 S ±72.2km 74.933 W ±48.5km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF PERU (115)

PT03	1.80	332	ePd	04 16.90	-0.7	
			iS	04 42.60		
PT06	2.22	322	iPc	04 23.60	0.0	
			iS	04 54.00		
PT02	3.02	331	eP	04 34.30	-0.6	
			eS	05 17.10		
PT08	3.94	336	iPd	04 48.20	-0.2	
			iS	05 41.80		
PT10	4.02	330	e(P)	05 05.50	16.3X	
			eS	05 55.00		
NNA	4.04	332	eP	04 51.00	1.5	
	0.5s		5.63nm			
			eS	05 43.30		
ZOBO	6.58	97	P	05 26.00	0.0	
	S.D. = 1.0	on	6 of	7 obs.		

% MAY 02, 1990 19h 29m 37.45± 1.59s
40.883 N ±25.9km 14.450 E ±24.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.29	109	P	29 43.30	-0.1	
			eSg	29 50.00		
SGO	0.73	116	P	29 52.00	0.3	
			eSg	30 02.60		
SDI	0.95	330	P	29 55.20	-0.4	
			eSg	30 08.80		
MGR	1.12	131	P	29 58.30	-0.2	
			eSg	30 15.00		
AZI	1.34	326	P	30 02.50	0.4	
	S.D. = 0.5	on	5 of	5 obs.		

MAY 02, 1990 19h 57m 08.13± 0.84s
30.412 N ± 5.0km 138.677 E ± 6.0km
DEPTH = 419.3 ± 8.8 km
4.5mb (14 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	6.13	356	iPd	58 43.40	-0.1	
	0.8s		69.40nm		4.8mb	
			eS	59 58.00		
MDJ	15.89	336	iPc	00 31.20	0.3	
	1.0s		50.00nm		4.9mb	
SNY	16.66	317	Pc	00 38.80	0.1	
CN2	17.00	325	P	00 42.00	-0.1	
PIP	20.35	238	ePc	01 14.50	-0.5	
BJI	20.69	304	eP	01 18.00	-0.3	
	1.5s		26.00nm		4.5mb	

```
TIY     22.88 296 Pd     01 39.30    0.5
XAN     25.39 286 P      02 02.00    0.4
GYA     28.37 270 P      02 28.20    0.0
CD2     29.97 280 P      02 41.40   -0.6
GTA     32.90 297 eP     03 06.60   -0.5
CHG     37.74 262 iPd    03 48.30    0.8
        0.8s     25.19nm          4.6mb
CHTO    37.74 262 iPd    03 48.20    0.7
        0.5s     19.52nm          4.7mb
WMQ     42.17 303 P      04 23.60    0.2
SNG     42.49 245 eP     04 27.00    1.0
GUN     45.83 281 P      04 53.00    0.3
        0.6s     24.00nm          4.7mb
PKI     46.33 280 P      04 56.00   -0.5
DMN     46.57 281 P      04 58.20   -0.1
GKN     46.86 281 P      05 00.40    0.0
WB5     50.17 185 eP     05 25.00   -0.2
ASPA    53.96 185 iPd    05 52.70   -0.2
        0.5s     20.00nm          4.7mb
MBL     54.38 202 iPd    05 55.80   -0.1
GBA     58.54 268 Pd     06 24.50   -0.4
        0.7s     4.20nm           4.0mb
FORR    61.75 190 iPc    06 45.60   -0.3
MBC     63.50  15 eP     06 57.00    0.2
KEV     68.83 340 eP     07 35.00    4.9X
SOD     70.19 338 eP     07 38.00   -0.3
YKA     70.69  28 eP     07 40.50   -0.8
        0.8s     2.00nm           3.8mb
SUF     72.87 334 iP     07 54.00    0.0
        0.5s     5.00nm           4.4mb
NUR     74.71 332 iP     08 04.00   -0.4
HFS     79.15 335 eP     08 28.00   -0.6
        0.4s     5.50nm           4.6mb
NB2     79.38 337 P      08 29.70   -0.2
        0.6s     2.50nm           4.1mb
FFC     80.52  31 eP     08 36.00    0.2
        0.7s     8.00nm           4.5mb
ALQ     90.64  48 eP     09 27.50    1.7
        0.9s     2.31nm           4.1mb
      S.D. = 0.5  on  33 of  34 obs.
-------------------------------------
*  MAY  02, 1990  20h 24m 01.53± 0.85s
   36.886 N ± 7.4km   29.892 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

ELL     0.14 174 iPg     24 04.90    0.0
                 iSg     24 16.90
BCK     0.80  44 ePn     24 17.20    0.1
KHL     1.46 349 ePn     24 28.30    0.2
CIN     1.61 297 eP      24 30.00    0.0
ALT     2.17   4 ePn     24 38.00   -0.3
      S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  MAY  02, 1990  20h 34m 03.18± 1.23s
   46.830 N ±24.0km  154.248 E ±16.4km
   DEPTH =  33.0km  (normol)
   4.8mb ( 21 obs.)
 KURIL ISLANDS REGION            (222)

MAT     15.76 235 (P)    37 43.00   -1.2X
CN2     20.43 272 eP     38 36.20   -3.9X
FBA     35.62  38 eP     40 59.50    0.2
XAN     36.30 266 P      41 05.00   -0.5
LZH     38.66 273 eP     41 25.40    0.0
GTA     39.73 280 eP     41 33.70   -0.5
CD2     41.66 266 P      41 50.00   -0.1
GYA     42.49 258 P      41 57.40    0.4
WMQ     45.62 292 P      42 20.70   -1.3
KMI     46.02 260 eP     42 25.00   -0.6
YKA     50.39  37 eP     42 57.60   -1.1
        0.7s     0.40nm           3.5mb X
LSA     51.05 274 P      43 05.40    0.7
CHTO    52.90 258 eP     43 19.00    0.8
        0.8s     1.46nm           4.0mb
                 pP       43 28.90   33kmX
GUN     55.77 276 P      43 38.80   -0.8
PKI     56.31 276 P      43 42.60   -0.8
        0.6s     23.00nm          5.4mb
DMN     56.49 276 P      43 44.00   -0.7
GKN     56.56 277 P      43 44.40   -0.6
DAG     56.60 358 iPd    43 42.30   -2.2
        0.3s     16.88nm          5.6mb
KEV     57.53 341 eP     43 52.00    0.9
SOD     59.46 339 iP     44 02.20   -2.4
KVN     61.44  62 eP     44 17.80   -1.0
SUF     63.26 336 iP     44 28.90   -1.3
        0.3s     5.00nm           5.1mb
NUR     65.47 335 iP     44 43.00   -1.6
        0.6s     17.00nm          5.3mb
UPP     67.93 338 iP     44 58.10   -2.1
NB2     68.40 342 P      45 01.50   -1.7
        0.8s     6.00nm           4.7mb
HFS     68.65 340 eP     45 02.70   -2.0
        0.5s     8.40nm           5.1mb
EKA     76.44 347 Pc     45 52.10    1.4
        0.5s     4.10nm           4.7mb
TUL     76.45  52 e(P)   45 48.80   -2.3
        0.5s     4.60nm           4.7mb
CLL     76.71 336 iP     45 51.30   -1.0
        0.9s     15.00nm          5.0mb
PRU     77.45 335 eP     45 56.00   -0.4
KHC     78.50 335 eP     46 02.40    0.1
GRF     78.66 337 iPc    46 02.60   -0.5
                  e       46 04.80
MEM     79.14 340 P      46 06.90    1.3
DOU     79.95 341 P      46 11.60    1.6
CDF     80.87 338 eP     46 16.40    1.3
        0.6s     3.60nm           4.5mb
LOR     82.77 340 eP     46 26.70    1.8
        0.6s     7.20nm           4.9mb
LBF     83.01 340 eP     46 27.70    1.5
        0.6s     3.15nm           4.6mb
SSF     83.05 340 eP     46 28.20    1.9
        0.6s     3.15nm           4.6mb
AVF     83.34 340 eP     46 29.80    2.0
        0.6s     3.60nm           4.7mb
SMF     83.36 340 eP     46 29.90    2.0
        0.8s     8.05nm           4.9mb
BGF     83.68 341 eP     46 32.20    2.7
        0.4s     2.30nm           4.7mb
MAF     84.06 341 eP     46 34.30    2.8X
        0.4s     5.15nm           5.0mb
TCF     84.07 341 eP     46 33.90    2.3
        0.6s     2.25nm           4.5mb
RJF     85.16 341 eP     46 39.70    2.7
CAF     85.40 341 eP     46 41.20    3.0X
        0.8s     4.05nm           4.7mb
LFF     85.68 341 eP     46 43.30    3.7X
        0.6s     3.60nm           4.8mb
      S.D. = 1.5  on  41 of  46 obs.
-------------------------------------
*  MAY  02, 1990  21h 15m 02.42± 0.85s
   54.068 N ±12.6km  159.587 E ±20.0km
   DEPTH =  33.0km  (normol)
   4.5mb ( 18 obs.)
 NEAR EAST COAST OF KAMCHATKA    (218)

KUSJ    14.71 228 eP     18 27.10   -2.6
                 eS      20 59.40
ASAJ    14.87 235 eP     18 36.60    4.8X
HOOJ    15.91 229 eP     18 44.20   -1.0
                 eS      21 31.30
MRRJ    16.90 234 eP     18 57.70   -0.1
NIIJ    22.01 228 P      19 55.80    0.5
MAT     22.94 229 iPc    20 05.10    0.6
        1.1s    101.27nm          5.2mb
CHJJ    23.01 227 P      20 06.80    1.6
MTMJ    23.08 230 P      20 07.20    1.2
IIDJ    23.96 228 P      20 15.20    0.8
MBC     36.27  24 eP     22 04.00    0.2
YKA     42.65  43 eP     22 55.50   -1.4
        0.7s     2.70nm           4.1mb
CHTO    57.81 257 eP     24 51.70   -1.1
        0.6s     0.70nm           3.9mb
SUF     57.98 337 eP     24 53.00   -0.5
NB2     62.52 343 P      25 24.30   -0.3
        0.7s     3.80nm           4.6mb
HFS     62.93 342 eP     25 25.90   -1.3
        0.4s     1.30nm           4.4mb
TUL     69.46  57 e(P)   26 00.70   -8.4X
        0.6s     3.20nm           4.6mb
EKA     70.04 350 P      26 12.00   -0.4
        0.6s     2.70nm           4.5mb
CLL     71.33 339 iP     26 20.20   -0.1
        1.1s    11.00nm           4.8mb
PRU     72.23 337 P      26 26.20    0.5
GRF     73.24 339 eP     26 32.00    0.4
        0.8s     9.00nm           4.8mb
KHC     73.26 337 eP     26 32.50    0.8
MEM     73.36 343 P      26 32.30    0.1
DOU     74.10 344 P      26 36.60    0.1
GRR     76.59 347 eP     26 50.40   -0.3
        0.6s     3.60nm           4.6mb
LOR     76.96 343 eP     26 52.70   -0.2
        0.8s     4.05nm           4.5mb
LBF     77.22 343 eP     26 53.80   -0.5
        0.6s     1.80nm           4.3mb
SSF     77.22 343 eP     26 54.10   -0.2
        0.8s     3.35nm           4.4mb
TCF     78.19 344 eP     26 59.60    0.0
        0.8s     2.70nm           4.3mb
CAF     79.54 344 eP     27 07.60    0.6
        0.8s     2.70nm           4.3mb
LPO     79.91 345 eP     27 09.50    0.5
        0.8s     5.35nm           4.6mb
FRF     80.03 340 eP     27 10.80    1 1
LRG     80.19 341 eP     27 11.00    0.5
        0.6s     6.30nm           4.8mb
LMR     80.28 340 eP     27 11.50    0.6
        0.8s     5.35nm           4.6mb
      S.D. = 0.9  on  31 of  33 obs.
-------------------------------------
%  MAY  02, 1990  22h 03m 01.06± 1.00s
   41.199 N ±10.0km   14.869 E ±15.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                  (390)

BSS     0.41 187 P       03 09.80    0.3
                 eSg     03 15.50
DUI     0.56 326 P       03 13.00    0.6
                 eSg     03 21.50
SGO     0.72 152 P       03 15.20    0.0
                 eSg     03 27.20
SDI     0.94 303 P       03 18.90   -0.1
                 eSg     03 33.40
MGR     1.18 154 Pc      03 22.90   -0.2
                 eSg     03 39.50
TDS     1.90 143 Pc      04 07.10   33.2X
MNS     2.02 307 P       03 35.00   -0.6
      S.D. = 0.5  on   6 of   7 obs.
-------------------------------------
%  MAY  02, 1990  22h 46m 24.26± 1.48s
   40.610 N ±16.6km   27.201 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

EDC     0.57 117 iPg     46 35.00   -0.8
                 iSg     46 43.00
EZN     1.03 221 iPn     46 43.70    0.0
CTT     1.08  60 iPn     46 44.10   -0.4
ISK     1.48  71 ePn     46 50.30   -0.6
YLV     1.65  91 iPn     46 55.20    1.7
HRT     1.89  83 ePn     46 57.00    0.1
      S.D. = 1.2  on   6 of   6 obs.
-------------------------------------
    MAY  02, 1990  22h 50m 29.56± 0.09s
    5.604 S ± 2.5km  150.164 E ± 2.6km
    DEPTH =  81.6km  (geophysicist)
    6.2mb ( 47 obs.)
 NEW BRITAIN REGION              (192)
      Mo=6.0*10**18 Nm (PPT). Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 45 Dip=82 Slip=-105
       NP2:        288     17      -29
       Principal Axes:
        T                Plg=35  Azm=148
        P                  51      298
      Comment: The focal mechanism is
       moderately well controlled and
       corresponds to normal faulting
       with a small strike-slip
       component. The preferred fault
       plane is not determined.
      MOMENT TENSOR SOLUTION
      Dep  83            No. of sta: 16
      Moment Tensor;   Scale 10**18 Nm
        Mrr=-3.63        Mtt= 3.60
        Mff= 0.03        Mrt=-3.63
        Mrf=-2.72        Mtf= 1.26
       Principal axes:
        T  Val=  5.99  Plg=25  Azm=156
        N       -0.09     10       61
        P       -5.89     63      310
      Best Double Couple:Mo=5.9*10**18
       NP1:Strike=268 Dip=22 Slip= -62
       NP2:       58     70      -101
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
```

02d 22h

L.P.B.: 15S, 39C M.W.: 20S, 39C
Centroid Locotion:
Origin Time 22:50:36.0 0.1
Lat 5.74S 0.01 Lon 150.12E 0.01
Dep 96.0 FIX Half-duration 7.3
Moment Tensor; Scale 10**18 Nm
Mrr=-0.88 0.06 Mtt= 2.02 0.05
Mff=-1.14 0.05 Mrt=-3.78 0.05
Mrf=-2.81 0.05 Mtf= 0.03 0.05
Principal Axes:
T Val= 5.08 Plg=37 Azm=160
N -0.12 17 56
P -4.96 48 306
Best Double Couple:Mo=5.0*10**18
NP1:Strike=307 Dip=18 Slip= -18
NP2: 55 84 -107

RAB	2.44	55	iPd-	51	11.00	2.9
LAT	3.31	252	eP	51	22.00	1.8
PMG	4.82	218	iPc	51	43.40	2.3
MNDI	6.50	265	eP	52	11.00	6.3X
HNR	10.42	112	eP	52	57.00	-1.2
			eS	54	48.00	
CTA	14.89	194	iPc+	53	57.80	0.7
			iS	56	42.00	
			i	58	01.00	
			iScP	02	29.00	
			i	03	00.00	
			iScS	06	09.00	
CTAO	14.89	194	iPc	53	58.49	1.4
QIS	18.06	214	iPc	54	37.00	0.3
			e	57	57.00	
GUA	19.72	345	ePd	54	58.50	3.2X
	1.2s	********	nm		7.1mb	
			eS	58	40.20	
			e	58	46.80	
GUMO	19.78	345	eP	54	59.40	3.5X
PJG	19.78	345	eP	54	59.30	3.4X
MTN	20.11	248	iPd	54	59.50	0.2
RMQ	20.81	184	iPc	55	06.60	0.1
			e	02	42.00	
WB5	20.91	226	iPd	55	08.10	0.5
			eS	58	55.00	
			iScP	02	41.60	
PVC	21.45	126	iPc	55	13.00	0.1
BRS	21.81	174	iPd-	55	16.20	-0.3
	1.3s	74.00nm			4.9mb X	
			iPP	55	39.00	
			iS	59	12.00	
			iScP	02	42.00	
			iPcS	02	47.00	
			eScS	06	25.00	
			e	06	31.00	
DZM	22.71	138	iPc	55	25.00	-0.5
			iS	59	17.70	
			ScP	02	49.00	
			ScS	06	36.80	
KNA	23.29	243	iPd	55	32.50	1.5
			eS	59	40.00	
COO	24.89	176	iPc	55	47.00	0.6
			e	02	54.00	
MNI	26.24	285	ePc	55	58.20	-0.8
KUPT	26.68	259	eP	56	17.50	14.5X
	0.7s	898.30nm				
DAV	27.59	297	eP-	56	10.00	-1.2
RIV	28.10	178	eP	56	18.00	2.4
	Z 16s	0.54um			4.2MszX	
			e	56	39.00	
			e	00	52.00	
BWA	28.72	183	iPc	56	20.70	-0.6
CNB	29.58	181	iPd	56	28.90	-0.1
	0.9s	359.00nm			6.1mb	
			e	56	47.00	
			e	03	08.00	
CAN	29.59	182	iPc	56	28.70	-0.4
			iScP	03	08.70	
WARB	30.39	225	iPc	56	36.80	0.6
	0.4s	119.00nm			6.0mb	
TOO	32.10	187	iPc	56	51.10	0.0
	1.0s	613.00nm			6.4mb	
			e	57	10.00	
			e	59	39.00	
			e	03	17.00	
BFD	32.19	191	iPc	56	51.10	-0.7
	0.9s	351.00nm			6.2mb	
			e	57	10.00	
			e	58	04.00	
			e	03	17.00	
FORR	32.56	217	eP	56	54.20	-0.9
	0.3s	156.00nm			6.3mb	
MBL	33.21	239	iPd	57	01.00	0.1
TSM	33.50	286	eP	57	03.50	0.0
KHKI	34.40	263	eP	57	08.20	-3.0X
PPR	34.85	296	iPd	57	15.00	0.0
	1.0s	152.00nm			5.9mb	
OCP	35.16	305	eP	57	18.50	0.8
KKM	35.81	288	ePd	57	21.50	-1.8
CVP	36.32	310	eP	57	29.60	2.2
	1.5s	1845.00nm			6.8mb	
BAG	36.54	307	ePd-	57	29.00	-0.5
	1.7s	4276.92nm			7.1mb	
			eS	03	03.00	
MEKA	36.69	232	iPd	57	31.20	0.7
COOL	37.08	224	eP	57	34.10	0.4
	0.4s	116.00nm			6.2mb	
TAU	37.24	183	iPc	57	35.13	0.3
			ipPc	57	53.01	72kmX
			esPc	58	04.27	
			iPP	59	04.96	
SZP	37.28	309	eP	57	35.20	-0.3
	1.0s	305.00nm			6.2mb	
TRT	37.33	265	iPc	57	37.40	1.4
	0.7s	127.90nm			6.0mb	
NANU	37.44	240	eP	57	37.20	0.4
PIP	37.61	310	ePc	57	39.00	0.8
	1.0s	416.00nm			6.3mb	
AFI	38.36	105	iPc	57	44.34	-0.4
			ipPc	58	02.38	74kmX
			isPd	58	11.82	
			S	03	32.00	
			e	09	00.00	
			e	10	00.00	
			e	13	36.00	
WLZ	39.56	148	P	57	55.10	0.8
			e	58	13.80	
KLB	39.86	226	eP	57	56.50	-0.4
	0.4s	33.00nm			5.6mb	
MRWA	39.92	230	eP	57	56.50	-0.9
	0.3s	60.00nm			6.0mb	
BAL	40.09	228	iPc	57	59.00	0.2
	0.4s	61.00nm			5.9mb	
HBZ	40.88	145	P	58	05.60	0.5
	0.8s	489.00nm			6.4mb	
NWAO	40.97	224	iPd	58	06.56	0.6
			ipPc	58	24.60	73kmX
MUN	41.17	226	iPd	58	08.00	0.3
	0.8s	568.00nm			6.5mb	
			i	58	27.80	
			eS	04	15.00	
PUZ	41.19	146	P	58	07.40	-0.3
THZ	41.32	154	eP	58	08.40	-0.3
ANP	41.38	319	iP	58	12.00	2.5
			iS	04	22.00	
NOZ	41.45	146	P	58	09.90	0.1
TCW	41.49	152	P	58	10.10	0.0
MNG	41.60	151	P	58	10.60	-0.5
MRW	41.71	152	eP	58	11.50	-0.3
RKG	41.77	223	iPd	58	16.30	3.7X
	0.7s	1147.00nm			6.8mb	
			e	58	35.00	
WEL	41.78	152	P	58	12.60	0.2
CAW	41.78	151	P	58	12.60	0.1
WDW	41.87	152	P	58	12.90	-0.3
LTZ	41.88	155	P	58	13.10	-0.3
PGZ	41.99	150	P	58	13.90	-0.3
	0.7s	320.00nm			6.3mb	
MTW	42.03	151	P	58	13.80	-0.7
MOW	42.11	152	P	58	14.40	-0.8
KHZ	42.12	154	P	58	14.80	-0.5
BLW	42.18	151	P	58	15.20	-0.5
MMCZ	42.60	160	P	58	19.20	-0.1
MHZ	42.70	160	P	58	19.90	-0.2
TLC	42.74	160	P	58	19.80	-0.7
MOZ	42.80	156	P	58	20.80	0.0
OZH	43.19	316	iPd	58	26.00	1.8
	5.0s	********	nm		7.0mb X	
	Z 38s	55.40um			6.2MszX	
	E 20s	13.80um				
			pP	58	46.00	83kmX
			S	04	49.00	
			sS	05	26.00	
SHK	43.20	339	iPd	58	26.07	1.9
	2.0s	5176.47nm			7.0mb	
MAT	43.39	346	iPd	58	26.80	1.1
			eS	04	45.00	
HKC	44.83	309	iPc	58	39.90	2.4
			iS	05	14.00	
SSE	45.81	325	iPd	58	47.00	2.0
	1.7s	3080.00nm			6.9mb	
	Z 20s	13.80um			5.9Msz	
	N 19s	7.00um				
			pP	59	08.00	87kmX
			sP	59	16.00	
			PP	00	35.00	
			ScP	04	09.00	
			S	05	24.00	
			sS	05	59.00	
GZH	45.90	310	Pd	58	47.70	1.8
	Z 37s	54.40um			6.2MszX	
	N 15s	17.20um				
	E 16s	14.00um				
			pP	59	07.00	79kmX
			S	05	21.00	
QIZ	46.65	303	Pd	58	52.00	0.1
	N 24s	21.00um				
			pP	59	15.50	99kmX
KGM	47.39	278	ePd	58	57.50	-0.4
NJ2	47.87	323	iPd	59	03.00	1.8
	6.5s	********	nm		6.9mb X	
	Z 21s	8.30um			5.7Msz	
	N 18s	7.70um				
	E 15s	7.40um				
			pP	59	23.00	81kmX
			PcP	00	28.00	
			PP	00	54.00	
			ScS	08	46.00	
KLM	49.23	279	eP	59	11.00	-1.0
WHN	49.66	319	iPd	59	17.50	2.4
	6.0s	2900.00nm			6.5mb X	
	Z 20s	16.30um			6.0Msz	
	N 12s	15.60um				
	E 16s	12.20um				
			pP	59	39.00	88kmX
			sP	59	47.00	
			iS	06	22.00	
			sS	06	58.00	
RAR	50.87	113	P	59	24.00	-0.5
			S	06	40.00	
SNG	51.04	284	eP	59	24.30	-1.6
	0.9s	136.13nm			6.0mb	
			eS	06	36.00	
DL2	51.57	332	iPd	59	32.00	2.5
	6.0s	9500.00nm			7.0mb X	
	Z 40s	30.90um			6.0MszX	
	N 14s	14.60um				
			sP	00	00.00	
TIA	51.85	326	iPd	59	32.60	0.9
	4.0s	7000.00nm			7.0mb X	
	Z 42s	39.70um			6.1MszX	
	N 16s	7.20um				
	E 16s	8.50um				
			pP	59	52.50	80kmX
			sP	00	04.00	
			ScP	04	33.70	
			S	06	46.00	
			sS	07	30.00	
YSS	52.81	354	iPd	59	39.00	0.5
			eS	07	00.00	
GYA	52.83	309	iPd	59	40.00	0.7
	6.0s	4600.00nm			6.7mb X	
	Z 38s	23.80um			6.0MszX	
	N 16s	15.30um				
	E 16s	8.70um				
			pP	00	04.00	99kmX
			PP	01	41.00	
			S	07	04.00	
			sS	07	44.00	
LOE	53.01	297	iPd	59	39.00	-1.6
SNY	53.08	335	iPd	59	42.00	1.4
	1.6s	2200.00nm			6.9mb	
	Z 40s	44.20um			6.2MszX	
	N 14s	4.10um				
	E 15s	4.10um				
			pP	00	04.50	92kmX
			sP	00	13.00	
			PP	01	45.00	
			S	07	02.50	
			sS	07	46.00	
MDJ	53.30	342	iPd	59	44.20	1.9
	1.5s	250.00nm			6.0mb	
	Z 46s	61.30um			6.3MszX	

```
                 epP   00 08.00   98kmX
                 esP   00 20.00
                 ePP   01 48.00
                 iS    07 08.00
                 sS    07 50.00
                 SS    10 48.00
CN2    54.00 338 iPd   59 48.80    1.4
       5.0s  ********nm          7.1mb X
     Z  40s    25.00um            6.0MszX
                 sP    00 20.00
                 PP    01 55.00
                 S     07 14.00
BJI    55.15 328 iPd   59 57.26    1.4
       6.0s  7300.00nm           6.9mb X
     Z  36s    49.00um            6.3MszX
     N  16s     6.03um
                 esPc  00 26.73
                 eScP  04 47.00
                 eS    07 30.00
                 esS   08 12.00
KMI    55.29 306 iPd   59 58.00    0.6
       7.0s  4100.00nm           6.6mb X
     Z  40s    59.80um            6.4MszX
     N  14s     3.30um
     E  16s     4.50um
                 esPc  00 28.13
                 iPP   01 59.23
                 iS    07 37.00
XAN    55.43 318 P     59 58.00   -0.1
       9.0s  5700.00nm           6.6mb X
     N  13s     4.40um
     E  16s     3.90um
                 pP    00 19.00   84kmX
                 PP    02 04.00
                 S     07 32.00
                 SS    11 25.00
TIY    55.58 324 iPd   00 00.00    0.9
       8.0s  6500.00nm           6.7mb X
     Z  38s    45.20um            6.3MszX
     N  20s    16.20um
                 pP    00 20.50   81kmX
                 sP    00 33.00
                 S     07 39.00
                 sS    08 14.50
CHG    55.99 297 ePd   00 01.90   -0.4
       1.0s   108.75nm            5.8mb
                 eS    07 46.00
CHTO   55.99 297 iPd   00 01.33   -0.9
                 ePP   02 07.95
                 epPP  02 30.13
CD2    57.30 312 iPd   00 11.70    0.3
       6.0s  5200.00nm           6.8mb X
     Z  36s    32.30um            6.2MszX
     N  15s    11.30um
                 pP    00 36.50 101kmX
                 S     08 02.00
HON    57.42  60 P     00 13.90    1.5
     Z  22s     8.33um            5.8Msz
KIP    57.45  60 eP    00 12.77    0.2
OPA    57.56  60 P     00 13.90    0.6
HHC    58.21 326 P     00 18.40    0.7
       6.0s  5300.00nm           6.8mb X
     Z  40s    44.50um            6.3MszX
     N  17s    11.20um
     E  17s     3.70um
                 pP    00 42.00   95kmX
                 S     08 14.00
PET    58.84   6 eP    00 21.00   -0.7
                 eS    08 20.00
BTO    58.91 325 iPd   00 24.00    1.4
       7.0s  6000.00nm           6.8mb X
     N  19s    10.60um
     E  19s    13.30um
                 pP    00 47.00   92kmX
                 PP    02 35.00
                 S     08 23.00
                 sS    09 04.00
                 SS    12 22.00
AFR    59.80 107 iP    00 29.50    0.6
       1.2s   370.00nm            6.4mb
PPT    59.99 107 iP    00 30.80    0.5
       1.2s   395.00nm            6.4mb
PAE    60.00 107 iP    00 30.70    0.4
       1.2s   305.00nm            6.3mb
LZH    60.01 317 iPd   00 31.64    1.3
       7.0s  6770.00nm           6.9mb X
     Z  50s    6.92um             5.4MszX

     N  16s     3.70um
     E  15s     4.10um
                 epPd  00 53.16   85kmX
                 esPc  01 01.11
                 PcP   01 16.00
                 ePP   02 40.75
                 e     03 10.05
                 S     08 29.00
                 SS    12 30.00
PPN    60.13 107 iP    00 31.90    0.7
TVO    60.32 107 iP    00 33.20    0.7
       1.2s   415.00nm            6.4mb
TBI    60.63 114 iP    00 36.40    1.9
       1.2s   350.00nm            6.3mb
HIA    60.73 338 iPd   00 36.43    1.6
                 epPd  00 58.94   89kmX
                 isPc  01 05.57
DRV    61.36 185 eP    00 39.20    0.4
PMO    61.48 104 iP    00 41.20    0.8
       1.2s   540.00nm            6.5mb
SMY    61.56  16 iPc   00 40.40    0.1
VAH    61.75 104 iP    00 42.60    0.4
       1.2s   220.00nm            6.1mb
TPT    61.75 104 iP    00 42.90    0.7
       1.2s   450.00nm            6.4mb
RUV    61.99 104 iP    00 44.20    0.4
       1.2s   360.00nm            6.4mb
ADK    63.87  22 iPd   00 54.50   -1.1
SHL    64.47 302 iP    00 58.50   -1.7
                 iS    09 32.00
GTA    64.49 319 iPd   01 01.00    0.9
       7.0s  5300.00nm           6.6mb X
     Z  42s    24.20um            6.1MszX
     N  14s     2.40um
                 S     09 31.00
LSA    66.55 306 iPd   01 13.60   -0.2
     E  12s     0.30um
                 pP    01 39.00 101kmX
                 S     09 58.00
GUN    70.31 302 P     01 36.20   -0.9
PKI    70.60 302 P     01 37.80   -1.0
DMN    70.87 302 P     01 39.80   -0.6
GKN    71.38 302 P     01 42.40   -0.9
S8A    72.73 176 iPc   01 52.00    1.8
                 S     11 14.70
SDN    73.09  27 iPd   01 51.60   -1.0
RKT    73.91 112 iP    01 59.20    1.2
       1.2s   360.00nm            6.2mb
KOD    74.08 282 eP    02 00.80    1.3
                 eS    11 24.00
HY8    74.28 290 eP    01 58.00   -2.3
       1.0s   140.00nm            5.8mb
                 eS    11 22.00
                 eP'P' 29 36.00
WMQ    74.57 318 iPd   02 02.39    0.8
                 ipPd  02 24.24   83kmX
                 iS    11 12.00
GBA    74.65 286 Pc    02 03.30    0.9
       1.2s    87.50nm            5.5mb
ILT    76.55  12 iPd   02 12.00   -0.2
                 iS    11 52.00
NDI    77.87 301 iPd   02 18.50   -1.8
       1.0s  2000.00nm            7.0mb
KDC    78.11  27 iPd   02 20.80   -0.1
SVW    78.59  24 iPd   02 24.50    0.9
POO    78.89 290 eP    02 23.50   -2.6
                 iS    12 13.50
TTA    79.48  22 iPd   02 28.90    0.4
BOM    79.91 290 eP    02 30.50   -1.0
                 iS    12 25.00
PMS    81.16  25 iPd   02 37.00   -0.3
PWA    81.22  25 iPd   02 36.50   -1.1
KSH    81.45 311 iPc   02 41.50    2.1
       6.0s  4300.00nm            6.5mb X
                 pP    03 04.00   84kmX
                 ePP   05 51.00
                 S     12 48.00
PMR    81.51  25 iPd   02 38.50   -0.5
     Z  19s     5.10um             5.9Msz
IMA    82.09  20 iPd   02 42.20    0.0
TOA    82.99  25 iPd   02 46.80   -0.1
FRU    83.28 314 iPd   02 49.00    0.3
                 eS    13 00.00
COL    83.61  22 iPd   02 48.47   -1.4
FBA    83.61  22 ePd   02 48.00   -1.9
MAW    83.82 203 iPd+  02 52.10    1.2
       1.0s   139.00nm            5.9mb

BRW    84.21  15 iPd   02 52.90    0.2
SPA    84.43 180 iPc   02 55.20    1.0
       1.0s   212.00nm            6.1mb
     Z  20s     3.87um             5.8Msz
                 i     03 16.00
SIT    86.33  32 iPd   03 04.30    0.8
DSH    86.75 309 iP    03 06.00   -0.1
                 iS    13 25.00
QUE    86.95 301 iP-   03 06.10   -1.3
                 eS    13 27.10
INK    90.14  21 iPd   03 20.50   -1.0
       1.2s   217.00nm            6.2mb
BKS    91.51  52 eP    03 28.90    0.5
     Z  20s     3.20um             5.8Msz
     E  20s     3.00um
                 e(SKKS13 58.00
                 iS    14 22.00
                 isS   15 03.00
                 i(SS) 20 33.00
                 isSS  21 05.00
                 e(SSS)23 58.00
                 iLQ   27 04.00
                 iLQ   28 22.00
                 eLR   32 00.00
WDC    91.55  50 eP    03 28.60    0.0
BMW    91.69  44 P     03 29.40    0.2
PGC    91.78  41 eP    03 30.00    0.6
MHC    91.93  53 eP    03 30.60    0.1
ARN    92.01  53 P     03 31.80    1.0
PRS    92.05  54 eP    03 31.40    0.4
MCW    92.19  41 P     03 31.80    0.4
MIN    92.24  50 eP    03 31.00   -1.0
ORV    92.25  51 eP    03 31.80    0.0
LLA    92.41  54 eP    03 32.90    0.2
PRI    92.60  54 eP    03 34.20    0.6
LON    92.69  43 P     03 32.30   -1.4
RMW    92.75  43 P     03 33.20   -0.9
PHAM   92.79  54 P     03 35.80    1.4
CMB    92.98  52 eP    03 35.20   -0.1
BCH    92.99  55 eP    03 36.80    1.3
                 iPKKP 21 23.20
SYP    93.02  56 eP    03 36.00    0.3
FRI    93.43  53 eP    03 37.50    0.2
MAIO   93.82 306 iPd-   03 38.50   -0.7
                 e     06 33.00
                 eS    13 56.00
ISA    94.33  55 eP    03 42.00    0.4
PNT    94.35  41 ePd   03 41.00   -0.3
PAS    94.48  56 iPd   03 43.10    0.9
                 e     04 05.00
MWC    94.58  56 eP    03 44.00    1.1
SBB    94.80  56 eP    03 44.00    0.2
                 e     04 10.00
KVN    94.84  51 iPd   03 43.90   -0.1
                 ipP   04 09.00   93kmX
                 isP   04 24.90
                 iPKKP 20 42.50
CLC    95.06  55 eP    03 45.00    0.1
                 e     04 05.00
RVR    95.13  56 eP    03 46.00    0.8
                 e     04 11.00
PEC    95.31  57 eP    03 46.20    0.1
                 epP   04 12.30   97kmX
TNP    95.48  52 iPd   03 47.00    0.0
                 e     20 39.90
                 iPKKP 21 12.00
MBC    95.52  14 ePc   03 46.00   -0.1
       1.0s    33.00nm            5.8mb
PLM    95.53  57 eP    03 47.00   -0.3
BAR    95.65  58 eP    03 49.00    1.3
GSC    95.67  55 eP    03 48.00    0.2
                 e     04 23.00
NEW    95.95  42 P     03 48.40   -0.3
       1.4s    86.96nm            6.1mb
TPC    96.24  56 eP    03 51.00    0.7
                 e     04 38.00
GLA    97.22  57 eP    03 56.00    1.3
YKA    97.36  28 eP    03 53.50   -1.1
       0.9s    18.30nm            5.6mb
EDM    98.34  37 iPd   03 59.90    0.6
LRM    99.14  45 eP    04 02.50   -0.9
IMW   100.27  47 Pdiff 04 09.00    0.3
BW06  101.33  48 iPdiff04 12.50   -0.9
       1.0s     9.00nm             5.4mb
                 ePKKP 20 44.70
PV09  101.84  52 ePdiff04 15.70   -0.1
                 iPKKP 20 44.00
```

02d 23h

ALQ	104.15	56	ePdiff	04	26.70	0.6	SWZ	117.54	236	iPKPd	08	59.50	-9.0X	SCH	122.65	24	ePKP	09	18.00	0.8
	Z 18s	2.06um			5.7Msz			1.0s	60.00nm					BCI	122.70	318	ePKP	09	16.80	-0.8
		i	20	34.00		MLR	117.56	319	ePKP	09	19.00	11.0X	OHR	122.72	316	iPKP	09	16.50	-1.3
		e	20	55.00		CMP	118.23	319	ePKPc	09	04.00	-5.1X		0.7s	42.00nm				
ANMO	104.15	56	ePdiff	04	27.00	0.9	BSD	119.05	332	ePKP	09	11.00	0.7				i	09	28.10	
		iPKKP	20	34.50		KRA	119.24	326	ePKP	09	10.10	-0.7				i	09	34.50	
TAB	104.33	308	ePdiff	04	26.00	-0.7	Z	24s	9.20um			6.3MszX					i	09	48.20	
		e	0B	48.00		E	24s	10.90um									i	12	44.80	
GOL	104.69	51	ePdiff	04	27.60	-0.8				e	09	13.60		PHP	122.73	317	iPKPd	09	15.00	-2.7X
	Z 22s	2.35um			5.7Msz					e	10	35.10		KHC	123.23	327	PKP	09	16.60	-1.9
		iPKKP	20	30.70						e	20	32.00			Z 20s	6.00um			6.2Msz	
GLD	104.80	50	ePdiff	04	29.40	0.6	DEV	119.36	320	ePKPc	09	15.00	3.8X		N 20s	2.50um				
	Z 22s	2.32um			5.7Msz		AKU	119.46	354	ePKP	09	12.90	2.2X		E 20s	4.60um				
		iPKKP	20	31.00				1.5s	77.78nm								i	09	18.50	
FFC	104.84	35	ePdiff	04	28.40	0.0				i	12	41.40					e	22	52.50	
	1.4s	38.00nm			6.2mb		CER	119.47	227	iPKPd	09	12.50	0.7	LACI	123.25	317	ePKP	09	18.60	-0.1
RSSD	105.22	46	ePdiff	04	30.40	-0.2		0.6s	46.43nm					TIR	123.26	317	ePKP	09	16.50	-2.3X
		ePP	09	24.20		BZS	120.29	321	ePKP	09	12.00	-0.9	MOX	123.35	330	ePdiff	05	50.00	-0.9X
		iPKKP	20	12.20		PSZ	120.30	324	ePKP	09	14.20	1.2		2.2s	69.00nm				
BHD	106.24	303	ePdiff	04	34.00	-1.1	KSP	120.82	328	ePKP	09	05.30	-8.5X		Z 22s	6.00um			6.2Msz	
		ePP	09	02.00				1.5s	118.00nm						N 24s	4.80um				
		eSKS	15	07.00						e	09	14.50			E 20s	3.10um				
		ePS	1B	10.00						e	10	16.00					e	09	10.00	
KEV	106.29	342	ePdiff	04	19.00	-15.4X				e	12	43.00		KMR	123.54	326	iPKP-	09	18.40	-0.7
KEV	106.29	342	iPKP	09	01.60	16.0X				e	23	00.00					i	10	58.40	
	1.4s	321.10nm					RSCP	120.86	52	ePKPd	09	12.50	-1.9				iPP	11	03.80	
		e	11	44.00						iPKKP	19	19.30					iPPP	13	41.60	
		e	15	06.00		BUD	121.03	323	e(PKP)	09	12.00	-2.3X	WET	123.60	328	iPKPc	09	19.00	-0.3
		e	15	34.00		SRO	121.28	324	iPKP	09	14.00	-0.8		Z 21s	7.00um			6.3Msz	
		e	19	38.00						i	09	55.40		PTJ	123.64	323	ePKP	09	18.90	-0.6
MSL	107.00	306	ePdiff	04	38.00	-0.4				e	10	33.40		ZAG	123.67	323	ePKP	09	19.00	-0.4
		ePP	09	02.50		REY	121.30	356	ePKP	09	16.70	2.4X	PRM	123.83	52	PKP	09	19.80	-0.3
		e	09	33.00		VAY	121.41	316	ePKP	09	13.00	-2.2X	GRF	124.14	329	iPKPd	09	19.10	-1.2
		eSKS	15	08.00		BRN	121.48	331	ePKP	09	16.00	1.0		Z 22s	8.00um			6.3Msz	
		eSKKS	15	41.00		ZST	121.79	325	ePKP	09	15.30	-0.4				e	10	31.00	
		ePS	18	21.00						e	09	56.60		WIT	124.24	334	ePKP	09	21.00	0.7
SOD	107.59	340	iPdiff	04	39.50	-0.8				i	10	48.60					e	11	07.50	
OBN	107.94	326	iPdiff	04	39.40	-2.7X	SKO	121.93	317	iPKP	09	15.00	-1.2	BLA	124.26	48	iPKPc	09	20.50	-0.5
	Z 22s	10.50um			6.4Msz			1.5s	101.00nm								iPKKP	19	06.00	
DAG	108.63	357	ePdiff	04	43.00	-1.7		Z 22s	3.45um			6.0Msz		VBY	124.27	323	ePKPd	09	20.20	-0.4
SUF	110.04	336	iPdiff	04	49.80	-1.5		N 22s	3.06um					LNV	124.40	138	iPKPd	09	21.50	0.3
	0.5s	5.00nm								LR	03	38.00		LJU	124.41	324	ePKP	09	20.00	-0.9
MEO	110.61	55	e(PKP)	08	47.50	-7.4X				i	09	25.80					e	11	04.00	
RSON	110.66	37	ePdiff	04	53.50	-0.9				i	09	32.00					ePP	13	48.00	
		ePP	09	28.80						e	10	40.00					eSKS	16	13.00	
		iPKKP	20	03.50						i	10	42.50		JSC	124.63	52	ePKPc	09	21.70	0.0
NUR	111.74	334	ePdiff	04	55.00	-3.9X				i	11	26.00					iPKKP	19	05.00	
TUL	112.70	53	Pdiff	05	11.00	7.2X				i	12	42.70		CEY	124.64	324	ePKP	09	20.50	-0.9
	Z 18s	4.15um			6.1Msz					i	13	30.00		WTS	124.75	333	ePKP	09	21.00	-0.3
		LR	43	00.00						i	20	44.00			1.1s	33.00nm				
TUL	112.70	53	ePKP	08	58.50	-0.2				i	21	09.00					e	11	05.50	
	1.3s	19.00nm								i	23	08.00		RBL	124.76	325	PKP	09	22.70	1.1
UYO	114.07	55	iPKPd	09	01.00	-0.5				i	27	43.00		VOY	124.80	324	ePKP	09	20.00	-1.7
BBTK	114.49	311	ePKP	09	04.00	1.7	BRG	122.03	329	iPKP	09	15.30	-0.8	TACH	124.90	138	iPKPd	09	22.40	0.2
UPP	115.05	336	iPKP	09	01.50	-1.0		1.8s	100.00nm					CHCH	124.91	138	ePKP	09	22.50	0.2
		i	09	35.20			Z 20s	7.50um			6.3Msz		LHS	124.92	52	PKP	09	22.20	0.0
		i	09	48.60			N 20s	6.50um					RSNY	125.01	38	ePKP	09	22.50	0.4
SLR	115.61	238	ePdiff	05	13.50	-3.7X		E 20s	2.00um					TRI	125.05	324	ePKP	09	21.30	-0.8
SLR	115.61	238	iPKPd	09	01.50	-3.4X				i	10	41.60					e	11	14.00	
	0.9s	117.65nm								i	11	25.50					e	14	54.00	
	Z 18s	7.22um			6.3Msz					i	12	43.40					e	21	08.00	
		i	09	24.00						i	13	30.20					e	33	44.00	
FRB	115.61	18	ePKP	09	02.00	-1.5				i	20	40.00		FVI	125.12	325	PKP	09	21.40	-0.8
HVD	116.04	232	iPKPc	09	22.50	16.9X				i	21	16.00		TNS	125.18	331	ePKPc	09	22.00	-0.3
BLF	116.09	234	iPKPd	09	22.50	16.8X				e	28	12.00		SAN	125.20	138	ePKP	09	23.50	0.6
SLL	116.35	338	ePdiff	05	17.20	-2.3X	VKA	122.20	325	e(PKP)	09	15.00	-1.5	DBN	125.39	334	ePKP	09	18.00	-4.5X
	1.2s	19.10nm						4.5s	2015.00nm						Z 24s	6.10um			6.2MszX	
HFS	116.43	337	ePKP	09	02.50	-2.7X		Z 26s	2.90um			5.8MszX					e	10	38.00	
	0.5s	4.00nm								e	10	09.00					ePP	11	06.00	
BFS	116.45	236	iPKPd	09	02.00	-4.4X				i	10	56.00					e	11	40.00	
	0.5s	84.51nm								i	11	20.10					ePPP	14	26.00	
FVM	116.47	50	ePKP	09	04.40	-1.6				e	12	44.00					ePS	21	13.00	
NB2	116.75	339	PKP	09	05.10	-0.7				e	13	32.00					eSS	29	00.00	
	0.7s	3.80nm								e	27	00.00		SQTA	125.64	327	iPKPd	09	22.10	-1.3
VRI	116.91	319	ePKP	09	08.00	1.4				LR	59	00.00			1.2s	51.30nm				
BUL	117.14	244	iPdiff	05	24.00	-0.1	PRU	122.23	328	PKP	09	16.00	-0.5				ic	09	22.60	
BUL	117.14	244	iPKPc	09	07.60	-0.3		Z 20s	7.30um			6.3Msz					i	09	40.30	
	0.9s	117.65nm						N 19s	2.10um								i	09	54.60	
		ipPKP	09	29.00				E 21s	6.10um								i	11	11.80	
		i	10	16.10						e	09	48.00		ABH	125.84	331	ePKP	09	22.94	-0.7
		iPP	10	44.00		TKL	122.24	51	PKP	09	16.70	-0.3	EKA	126.00	342	PKP	09	12.00	-11.7X
		iSKP	12	34.60		CLL	122.25	330	iPKP	09	15.70	-0.8		1.0s	3.80nm				
		iSKS	15	51.80			1.2s	25.00nm					ENN	126.00	333	ePKP	09	23.50	-0.3
		i	17	09.00			Z 21s	5.50um			6.2Msz			1.1s	50.00nm				
KRI	117.17	248	iPKPd	09	07.80	-0.2				PKKP	19	16.00					e	11	20.50	
KHL	117.32	310	ePKP	09	10.00	2.3X				SKKP	22	55.60		MEM	126.07	333	PKP	09	23.80	-0.1
ELL	117.42	309	ePKP	09	10.00	2.0	SOP	122.37	325	ePKP	09	18.10	1.3				e	11	08.30	

```
CTI   126.08 325 PKP    09 24.10  -0.2
CBN   126.09  46 ePKP   09 23.00  -1.4
ORI   126.16 317 PKP    09 26.50   2.0
RUP   126.20 331 ePKP   09 23.55  -0.8
WIN   126.24 237 iPKPd  09 25.70   0.3
       0.9s     96.64nm
     Z  20s      7.80um          6.4Msz
GWF   126.41 330 PKP    09 24.02  -0.7
TDS   126.42 316 PKP    09 21.40  -3.6X
UCC   126.68 334 PKP    09 24.00  -1.1
                  e     11 26.00
                  e     14 10.00
SGO   126.70 318 PKP    09 23.90  -1.6
MGR   126.74 317 PKP    09 18.20  -7.4X
ARV   126.74 322 PKP    09 25.00  -0.5
RSM   126.80 323 PKP    09 25.10  -0.4
WLS   126.91 330 PKP    09 22.56  -3.2X
FEL   126.93 329 ePKP   09 24.38  -1.5
CDF   126.95 330 PKP    09 24.17  -1.7
SAL   126.97 325 PKP    09 26.00   0.2
DOU   127.08 333 PKPc+  09 25.50  -0.4
                  e     11 16.00
                  e     14 13.00
SDI   127.12 320 PKP    09 25.00  -1.4
ASS   127.14 322 PKP    09 25.00  -1.4
ECH   127.14 330 PKP    09 24.58  -1.6
SFI   127.17 323 PKP    09 26.40   0.2
AZI   127.22 320 PKP    09 25.50  -0.9
CRE   127.27 323 PKP    09 25.00  -1.6
PGD   127.27 323 PKP    09 27.30   0.6
MDI   127.33 326 PKP    09 21.50  -5.0X
MOF   127.39 329 PKP    09 25.30  -1.4
MNS   127.49 321 PKP    09 25.20  -1.8
BSF   127.58 330 PKP    09 26.03  -1.1
RTCB  127.64 137 iPKPc  09 28.90   1.2
ZON   127.69 137 ePKP   09 29.00   1.2
RMP   127.78 320 PKP    09 28.00   0.5
VAI   127.80 327 PKP    09 15.90 -11.5X
RDP   127.80 320 PKP    09 26.50  -1.2
BDI   127.83 324 PKP    09 26.50  -1.2
RTLL  127.96 137 ePKPc  09 28.30   0.0
PII   128.07 323 PKP    09 27.50  -0.5
BOB   128.09 325 PKP    09 27.40  -0.7
MAO   128.43 322 PKP    09 28.10  -0.6
YRH   128.57 341 ePKP   09 29.00   0.3
CKI   128.96 325 PKP    09 29.20  -0.5
ETA   129.19 342 ePKP   09 32.00   2.2X
DOI   129.49 326 PKP    09 28.50  -2.3
LBF   129.56 330 ePKP   09 30.40  -0.4
       1.2s     26.80nm
ECP   129.69 341 ePKP   09 33.00   2.2X
SSF   129.74 331 ePKP   09 30.60  -0.5
LDF   130.27 334 ePKP   09 31.80  -0.2
       1.2s     47.60nm
FLN   130.30 335 ePKP   09 31.60  -0.5
       1.2s     71.40nm
PT03  130.41 114 e(PKP) 09 34.90   1.6
UPA   130.62  83 iPKPd-09 33.00  -0.7
       1.5s    388.89nm
     Z  20s      2.13um          5.8Msz
GRR   130.74 335 ePKP   09 32.80  -0.1
       1.2s     65.45nm
ANT   130.85 128 ePKP   09 35.00   1.1
TCF   130.91 331 ePKP   09 33.10  -0.3
       1.2s     26.80nm
LPF   131.10 335 ePKP   09 33.40  -0.2
       1.2s    101.15nm
VC1   131.11  96 ePKP   09 36.80   1.4
CAYA  131.62  95 ePKP   09 37.50   1.2
MFF   131.79 333 ePKP   09 34.50  -0.5
       1.2s     35.70nm
BCAO  131.81 271 ePKPd  09 23.10 -12.9X
       0.7s    168.00nm
                  ic    09 36.10
                  id    10 47.90
                  id    12 53.70
                  id    22 26.30
CAF   131.95 330 ePKP   09 35.20  -0.2
       1.3s     28.90nm
RJF   131.96 330 ePKP   09 35.00  -0.4
       1.2s     23.80nm
PSO   132.41  93 ePKP   09 36.00  -1.7
LFF   132.60 331 ePKP   09 36.50  -0.1
       1.4s     34.85nm
EPF   134.18 329 ePKP   09 39.50  -0.2
       1.3s     21.65nm
EBR   135.66 327 ePKP   09 28.00 -14.5X

                        ePP   12 20.00
                        e     12 59.00
BOG   135.94  89 ePKP   09 48.00   3.7X
LPB   136.23 121 PKP    09 34.50 -10.3X
                        PKS   13 12.00
                        LR    54 40.00
ZOBO  136.33 120 PKP    09 32.00 -13.2X
                        LR    54 42.00
BMG   137.01  86 ePKP   09 33.50 -12.5X
ECHE  137.32 327 e(PKP) 09 47.80   2.0
CCH   137.48 123 PKP    09 38.00  -9.0X
                        i     13 16.00
GUD   138.20 330 e(PKP) 09 38.20  -9.3X
STS   138.37 336 e(PKP) 09 50.00   2.4X
TOL   138.73 330 ePKP   09 39.00  -9.3X
                        epP   10 15.00
                        iPP   12 38.00
                        ipPP  13 12.00
                        iPPP  15 43.00
                        iPS   22 44.00
                        iPPS  24 54.00
                        eSS   31 10.00
SDV   139.41  83 ePKP   09 42.90  -7.6X
PTO   139.84 335 ePKP   09 43.00  -7.2X
TOV   140.21  81 ePKP   09 49.00  -2.8X
ASMO  140.43 327 iPKPc  09 43.50  -8.1X
AAPN  140.67 327 iPKPc  09 44.50  -7.6X
APHE  140.69 326 ePKP   09 45.00  -7.1X
ALOJ  140.81 327 iPKPc  09 44.00  -8.3X
ATEJ  140.90 326 iPKPc  09 43.50  -9.0X
MAL   141.26 327 iPKP+  09 48.00  -4.9X
                        iPP   12 57.00
EPRU  141.52 328 e(PKP) 09 49.50  -4.0X
MORO  141.58  80 ePKP   09 48.00  -6.3X
EVAL  141.84 330 e(PKP) 09 49.50  -4.5X
PORP  142.01  68 iPKP   09 49.00  -5.8X
SIV   142.37 125 PKP    09 50.00  -5.5X
PLAV  142.45  81 ePKP   09 52.00  -4.0X
CAR   142.97  80 iPKP   09 50.00  -6.7X
LLAV  143.09  80 ePKP   09 50.00  -6.9X
OLLA  143.13  81 iPKPd  09 53.50  -3.5X
GUAN  144.27  81 iPKPc  09 56.50  -2.4X
CUM   145.68  80 iPKPc  09 59.50  -1.6
                        i     10 23.00
SKI   145.78  67 ePKP   10 05.36   4.1X
MGH   146.43  68 ePKP   10 01.00  -1.3
CPB   146.53  66 ePKP   10 03.50   1.1
BPA   146.67  67 ePKP   10 01.00  -1.7
PAG   147.10  69 ePKP   10 03.00  -0.5
BBL   147.42  70 ePKP   10 04.00   0.1
FDF   147.91  71 ePKP   10 05.10   0.4
TCE   148.02  79 ePKP   10 05.24   0.3
BIM   148.03  72 ePKP   10 05.00   0.1
SVB   148.12  74 ePKP   10 07.41   2.4X
CRM   148.13  71 ePKP   10 05.47   0.4
SVV   148.14  74 ePKP   10 07.64   2.6X
FCV   148.14  74 ePKP   10 07.12   2.0
MVM   148.19  71 ePKP   10 04.80  -0.4
SLB   148.21  73 ePKP   10 08.69   3.4X
TPP   148.35  79 ePKP   10 07.55   2.1X
TRN   148.37  79 ePKP   10 06.18   0.7
       1.2s    736.40nm
PIG   148.85  78 ePKP   10 10.66   4.5X
TPR   148.91  78 ePKP   10 10.90   4.6X
BOT   148.97  78 ePKP   10 11.12   4.7X
TEGH  150.31 272 ePKP   10 08.30  -0.2
SHGH  150.36 272 ePKP   10 08.10  -0.4
LEGH  150.49 272 ePKP   10 08.80   0.1
KOGH  150.56 272 ePKP   10 08.00  -0.9
WEGH  150.63 271 ePKP   10 09.00   0.0
KUK   150.68 273 ePKP   10 07.00  -2.1
BAO   152.28 140 ePKP   10 13.00   1.5
CFTV  152.84 328 iPKP   10 14.00   2.2
                        i     10 21.00
TBT   154.42 335 iPKP   10 24.20  10.2X
                        i     10 38.10
PDCR  159.76 153 iPKPd  10 21.90   1.0
                        e     10 24.60
                        e     10 43.70
                        e     11 22.90
MBO   164.61 306 iPKPd  10 27.70   2.1X
CAI   165.92 149 iPKPd  10 28.50   1.7
     S.D. = 1.0  on 348 of 429 obs.
-------------------------------------
*  MAY  03, 1990  00h 00m 34.79± 1.13s
    5.607 S ±13.5km  150.345 E ±12.6km
   DEPTH = 133.6 ± 13.9 km

    4.4mb (  5 obs.)
 NEW BRITAIN REGION                (192)
RAB     2.30  52 iPc    01 12.00  -1.1
LAT     3.49 252 eP     01 30.50   1.9
PMG     4.93 220 iPc    01 44.00  -3.9X
                eS      02 37.00
QIS    18.16 214 eP     04 38.00  -1.8
WB5    21.04 226 eP     05 08.50  -1.1
WRA    21.10 226 Pc     05 09.20  -1.0
       0.6s     15.50nm          4.6mb
BRS    21.79 174 iPc    05 18.00   1.0
       0.9s      6.00nm          4.0mb
                  i     05 34.50
DZM    22.59 138 iPc    05 26.00   1.1
NANU   37.60 240 iPc    07 38.40   0.2
       0.5s     10.00nm          4.9mb
MAT    43.44 346 (P)    08 26.00   0.0
       1.0s     11.00nm          4.5mb
YKA    97.27  28 eP     13 54.20   0.9
       0.6s      0.30nm          4.0mb
     S.D. = 1.5  on  10 of  11 obs.
-------------------------------------
?  MAY  03, 1990  00h 11m 40.34± 2.39s
    4.982 S ±32.1km  150.336 E ±15.4km
   DEPTH =  33.0km  (normal)
   5.0mb (  3 obs.)
 NEW BRITAIN REGION                (192)
PMG     5.41 215 iPd    13 02.20   1.3
                eS      13 55.50
WB5    21.47 225 eP     16 27.20  -1.1
WRA    21.53 225 Pd     16 27.80  -1.1
       0.7s     14.80nm          4.5mb
BRS    22.41 174 iPc    16 36.50  -1.1
DZM    23.06 139 iPc    16 45.00   0.9
KNA    23.73 242 eP     16 51.50   0.9
MBL    33.68 239 eP     18 20.40  -0.2
       0.4s      8.00nm          5.0mb
NANU   37.90 239 iPc    18 56.90   0.4
       0.5s     25.00nm          5.3mb
     S.D. = 1.2  on   8 of   8 obs.
-------------------------------------
*  MAY  03, 1990  00h 59m 47.73± 1.07s
    6.309 S ±11.2km  143.039 E ±15.7km
   DEPTH =  33.0km  (normal)
   4.6mb (  1 obs.)
 PAPUA NEW GUINEA                  (202)
     ML 4.8 (PMG).

LAT     3.95  95 eP     00 48.00   0.4
PMG     5.11 127 eP     01 03.50  -0.5
                eS      01 58.00
GUA    19.80   5 eP     04 18.60   0.1
       1.3s    430.77nm          5.6mb X
GUMO   19.85   5 eP     04 18.70  -0.3
       1.4s    253.85nm          5.3mb X
PJG    19.85   5 eP     04 19.00   0.0
BRS    22.92 157 iPc    04 36.50 -13.5X
       0.6s     10.00nm
                  i     04 53.00
SPA    83.73 180 iPc    12 15.00   0.3
       1.0s      5.00nm          4.6mb
INK    93.39  22 eP     12 41.00 -19.5X
SIV   147.43 133 PKP    19 09.40 -18.9X
BAO   155.61 153 ePKP   19 38.00  -2.4X
     S.D. = 0.5  on   6 of  10 obs.
-------------------------------------
*  MAY  03, 1990  00h 59m 52.05± 1.05s
    5.519 S ±13.4km  150.257 E ±10.7km
   DEPTH = 116.7 ± 14.1 km
   4.8mb (  5 obs.)
 NEW BRITAIN REGION                (192)

RAB     2.32  55 e(P)   00 30.00   0.1
QIS    18.18 214 iPd    03 58.20  -0.3
MTN    20.23 248 iPd    04 19.30  -0.8
WB5    21.04 226 iPd    04 28.10  -0.2
                e       04 45.20
WRA    21.10 226 Pd     04 28.50  -0.4
       0.7s     18.20nm          4.5mb
DZM    22.71 138 iPc    04 44.90   0.1
KNA    23.41 243 eP     04 52.60   1.1
WARB   30.52 225 iPc    05 56.80   0.4
       0.6s      9.00nm          4.7mb
MBL    33.34 239 iPd    06 21.00   0.0
       0.5s     18.00nm          5.1mb
```

03d 01h

NANU	37.56	240	iPd	06	57.20	0.4
	0.5s		42.00nm			5.6mb
SPA	84.52	180	iPd	12	35.90	22.9X
	0.9s		12.27nm			
YKA	97.24	28	eP	13	12.10	-0.3
	0.6s		0.80nm			4.4mb
S.D. = 0.6 on 11 of 12 obs.						

MAY 03, 1990 01h 03m 37.87± 0.17s
43.315 N ± 1.9km 19.890 E ± 1.9km
DEPTH = 5.0km (geophysicist)
4.1mb (8 obs.)
YUGOSLAVIA (383)

ML 4.3 (THE), 4.2 (ROM), 4.0 (TTG). Felt (VI) in the Sjenico oreo ond (V) in the Trstenik-Nova Voros-Kraljevo oreo.

PLE	0.36	273	iPgd	03	44.90	-0.3
			iSg	03	50.00	
IVA	0.44	179	iPgc	03	46.50	-0.3
			iSg	03	52.80	
PVY	0.72	175	iPgc	03	51.40	-0.9
			iSg	04	02.00	
NKY	0.82	233	iPgd	03	53.00	-1.4
			iSg	04	05.00	
BCI	0.96	172	iPgc	03	55.70	-0.8
TTG	1.00	208	iPgd	03	56.30	-0.9
			iSg	04	11.00	
BRY	1.07	248	iPgd	03	57.10	-1.5
			iSg	04	13.20	
PUK	1.27	180	iPnc	04	01.20	-0.7
BDV	1.29	218	ePg	04	01.60	-0.7
			eSg	04	22.00	
KKS	1.30	163	iPn	04	02.50	0.2
SDA	1.33	193	iPnc	04	02.90	0.0
ULC	1.43	199	ePg	04	04.90	0.4
			eSg	04	25.50	
BEO	1.56	15	iPn	04	06.20	-0.1
			iSg	04	27.50	
PHP	1.68	166	iPnd	04	08.50	0.6
LACI	1.68	185	iPnd	04	09.50	1.4
SKO	1.76	139	iPnc	04	10.30	1.0
	0.9s	287.00nm				
			i	04	12.00	
			i	04	20.60	
			iSn	04	34.00	
			iSg	04	37.70	
			i	04	47.00	
TIR	1.97	181	iPnd	04	14.00	1.8
OHR	2.30	163	iPnc	04	18.60	1.5
			iSg	04	50.50	
			Lg	04	57.00	
HVAR	2.52	268	iPn	04	21.00	0.9
			i	04	22.80	
			iSn	04	49.90	
VTS	2.54	105	iP	04	21.00	0.4
TIM	2.60	21	eP	04	23.00	1.7
BERA	2.61	179	iPnd	04	23.30	1.9
BZS	2.61	28	iPc	04	21.50	0.1
FNA	2.76	156	ePn	04	24.80	1.1
KKB	2.77	120	iP	04	25.00	1.3
KBN	2.78	165	ePn	04	25.10	1.3
VAY	2.81	134	iPn	04	24.60	0.2
VLO	2.86	186	iPn	04	26.90	1.9
GRG	3.01	141	ePn	04	27.60	0.5
TPE	3.02	178	ePn	04	27.50	0.3
KNT	3.10	133	ePn	04	28.70	0.3
BAI	3.14	227	P	04	29.00	0.1
BRT	3.15	220	P	04	29.60	0.5
PGB	3.23	102	iP	04	31.00	0.7
LCI	3.31	207	P	04	30.20	-1.2
MMB	3.32	120	iPc	04	32.00	0.4
DRA	3.43	65	eP	04	36.00	2.9
SRN	3.43	179	ePn	04	34.60	1.5
SRS	3.52	127	ePn	04	34.20	-0.1
			eSn	05	35.50	
THE	3.53	138	ePn	04	34.20	-0.2
SOH	3.59	133	ePn	04	35.60	0.3
			eSn	05	41.80	
KEK	3.60	181	ePn	04	35.60	0.1
PLD	3.75	107	iPd	04	34.00	-3.6X
ZAG	3.75	313	ePn	04	38.00	0.4
			iSg	05	45.00	
LIT	3.76	148	ePn	04	38.00	0.3
PTJ	3.82	314	ePn	04	38.20	-0.5
			e(Sn)	05	32.10	
RZN	3.92	113	iP	04	40.00	-0.2
VBY	3.98	305	ePnd	04	42.00	1.2
			iSg	05	56.00	
PVL	3.98	90	iPc	04	40.00	-0.8
ORI	4.15	220	P	04	43.60	0.4
CMP	4.18	60	ePc	04	52.00	8.3X
BUD	4.21	352	eP	04	48.00	3.9X
DUI	4.34	249	P	04	47.00	0.9
SGO	4.39	233	P	04	46.60	-0.1
			eSn	05	35.40	
KDZ	4.41	110	iP	04	46.00	-1.1
PAIG	4.42	139	ePn	04	46.80	-0.3
RIY	4.44	299	e(Pn)	04	48.40	1.0
			iSn	05	51.20	
TDS	4.52	217	P	04	49.30	0.7
			eSn	05	38.10	
MGR	4.54	227	P	04	48.00	-0.8
			eSn	05	41.50	
CEY	4.60	304	ePn	04	50.00	0.3
			eSg	06	08.50	
PSZ	4.61	0	iPn	04	49.00	-0.8
SRO	4.63	347	ePn	04	49.60	-0.5
			i	05	19.50	
			i	05	31.20	
AGG	4.67	156	ePn	04	51.60	0.9
LJU	4.69	307	ePn	04	51.50	0.5
			e	05	06.50	
			eSg	06	12.00	
RDO	4.72	115	ePn	04	50.60	-0.8
NEO	4.73	147	ePn	04	50.50	-1.0
SDI	4.77	252	P	04	52.20	0.0
			eSn	05	47.00	
MLR	4.85	61	eP	05	06.00	12.6X
AZI	4.94	257	P	04	56.00	1.5
SOP	4.96	333	ePn	04	55.60	0.9
JMB	4.99	97	eP	04	54.00	-1.2
TRI	4.99	301	P	04	54.50	-0.7
TRI	4.99	301	ePn	04	57.90	2.7X
			ePg	05	13.30	
			eSn	05	52.20	
			eSg	06	19.40	
			e(SgSg	06	24.00	
			e(RRSg	06	36.50	
ARV	5.07	274	P	04	56.10	-0.2
VOY	5.07	304	ePn	04	56.40	0.0
			eSg	06	27.00	
ALN	5.18	116	ePn	04	57.10	-0.7
GRI	5.20	211	P	04	57.31	-0.9
ZST	5.26	339	e(Pn)	05	01.00	2.0
			i	05	10.00	
			i	05	20.30	
			i	05	50.30	
			i	06	07.70	
ASS	5.29	270	P	04	59.20	-0.4
MNS	5.38	263	P	05	00.50	-0.3
			eSn	06	02.00	
RBL	5.47	307	P	05	02.50	0.4
VRI	5.51	60	eP	05	04.50	1.9
RMP	5.52	257	P	05	04.00	1.3
RDP	5.52	256	P	05	04.00	1.2
VKA	5.54	334	eP	05	05.00	2.0
	6.5s	922.00nm				5.6mb X
			i	05	11.70	
			i	05	14.10	
			i	05	22.40	
			i	05	35.70	
			i	06	08.40	
			i	07	06.50	
CRE	5.79	276	P	05	07.50	1.0
SFI	5.87	279	P	05	08.20	0.7
EZN	5.95	124	iP	05	07.60	-1.2
PGD	5.96	278	Pd	05	09.70	0.7
			eSn	06	15.40	
FVI	6.02	305	Pc	05	09.50	-0.1
TLB	6.02	75	eP	05	21.50	11.9X
PSN	6.04	84	eP	05	08.00	-2.1
ATH	6.08	150	ePn	05	10.50	0.0
ATN	6.15	215	P	05	09.90	-1.6
			eSn	06	18.50	
CLI	6.16	56	eP	05	23.50	11.7X
CFR	6.22	70	eP	05	00.00	-12.6X
KMR	6.22	322	ePn	05	13.00	0.4
			iSn	06	22.00	
			i	07	09.60	
ITM	6.32	165	ePn	05	12.70	-1.4
CTI	6.48	298	P	05	15.60	-0.7
MAO	6.48	265	P	05	15.80	-0.5
BHG	6.61	314	eP	05	18.40	0.3
EDC	6.65	114	eP	05	20.00	1.3
MNO	6.67	218	P	05	16.00	-3.2X
CTT	6.70	106	eP	05	24.00	4.7X
KRA	6.74	0	eP	05	19.10	-0.8
			e	05	26.80	
BDI	6.78	280	P	05	18.80	-1.7
PII	6.82	277	P	05	20.20	-0.8
GIB	6.94	222	P	05	23.00	0.2
VLI	6.99	159	ePn	05	21.20	-2.2
SAL	7.08	292	P	05	22.50	-2.1
OGA	7.21	303	eP	05	27.20	0.5
SQTA	7.26	306	iPc	05	27.80	0.5
	0.8s	46.90nm				5.7mb X
			id	05	28.20	
			i	05	32.70	
			i	05	41.10	
			i	06	09.30	
			i	06	52.80	
			i	07	28.50	
KHC	7.28	325	Pn	05	27.00	-0.4
			e	05	34.90	
YLV	7.58	108	eP	05	35.00	3.2X
PRU	7.62	333	Pn	05	31.50	-0.7
			e	05	55.10	
			Sg	07	11.00	
BOB	7.66	285	P	05	32.70	-0.2
KSP	7.92	343	eP	05	36.00	-0.4
			e	07	05.50	
GRB5	8.12	318	ePn	05	38.10	-1.2
VAI	8.34	292	P	05	40.50	-1.7
CKI	8.46	282	P	05	43.20	-0.8
BRG	8.58	334	e(P)	05	08.00	-37.5X
ALT	8.80	115	eP	05	47.00	-1.8
DOI	9.21	282	P	05	53.00	-1.4
MOX	9.26	325	eP	05	56.00	1.1
			e	06	10.00	
CLL	9.26	332	e(Pg)	06	09.00	14.0X
			e	08	44.00	
MEM	11.95	312	P	06	33.30	1.5
DOU	12.49	308	P	06	40.30	1.3
LDF	14.87	298	eP	07	15.20	4.7X
	0.8s	5.35nm				4.1mb
FLN	15.14	298	eP	07	17.10	3.1X
	0.8s	10.75nm				4.3mb
GRR	15.31	297	eP	07	17.60	1.5
	0.8s	5.35nm				4.0mb
LPF	15.36	295	eP	07	20.50	3.7X
	0.8s	10.75nm				4.3mb
NUR	17.46	8	iP	07	43.00	-0.4
NB2	18.50	347	P	07	55.30	-1.1
	0.8s	1.90nm				3.3mb
EKA	19.14	317	P	08	03.00	-1.1
	1.3s	7.40nm				3.8mb
SUF	19.78	9	eP	08	10.00	-1.5
BCAO	38.74	182	iPd	11	00.30	-4.5X
	0.6s	6.00nm				4.4mb
GKN	53.52	84	P	13	00.10	-1.7
GUN	54.47	83	P	13	07.80	-1.2
YKA	68.41	339	eP	14	40.50	-1.7
	0.9s	1.10nm				4.1mb
CHTO	69.49	83	eP	14	49.00	-0.5
S.D. = 1.1 on 123 of 140 obs.						

? MAY 03, 1990 03h 17m 58.60± 2.92s
37.326 N ±11.9km 30.642 E ±28.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BCK	0.14	343	iPg	18	00.70	-1.3
ELL	0.82	226	iPn	18	14.20	-0.4
KHL	1.33	319	iPn	18	23.70	0.5
ALT	1.78	347	ePn	18	30.30	0.7
IZM	2.88	293	ePn	18	46.00	0.6
BBTK	3.01	33	eP	18	58.00	10.7X
S.D. = 1.2 on 5 of 6 obs.						

? MAY 03, 1990 03h 49m 14.63± 2.29s
52.338 N ±45.4km 171.509 E ±15.7km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	1.63	75	eP	49	41.00	-0.4
TTA	20.12	46	e(P)	53	50.50	2.3
IMA	22.11	38	e(P)	54	08.00	-0.5
FBA	24.13	43	e(P)	54	28.00	0.0

YKA 38.88 45 eP 56 37.10 -1.0
0.8s 0.50nm 3.3mb
GUN 65.85 285 P 00 00.00 0.6
N82 65.88 350 P 59 57.60 -1.1
0.8s 1.90nm 4.2mb
S.D. = 1.4 on 7 of 7 obs.

MAY 03, 1990 04h 22m 52.07± 1.09s
5.655 S ± 6.4km 150.374 E ±10.2km
DEPTH = 119.4 ± 11.5 km
4.7mb (8 obs.)
NEW BRITAIN REGION (192)

RAB 2.31 51 iPd 23 29.50 -0.4
LAT 3.50 253 eP 23 48.00 2.3
PMG 4.91 220 iPc 24 02.30 -2.6X
eS 24 56.00
CTA 14.90 195 iPd 26 17.50 -0.3
i 26 21.50
QIS 18.13 214 iPc 26 56.10 -1.7
GUA 19.82 344 e(P) 27 17.20 1.4
0.9s 161.34nm 5.4mb
GUMO 19.88 344 e(P) 27 14.00 -2.4
PJG 19.88 344 e(P) 27 14.00 -2.4
RMQ 20.78 184 eP 27 25.50 0.1
WB5 21.03 226 eP 27 26.90 -1.1
eS 31 13.80
eScP 34 59.80
WRA 21.09 226 Pd 27 27.00 -1.6
0.6s 15.00nm 4.5mb
DZM 22.54 138 iPc 27 43.90 1.0
BWA 28.68 183 eP 28 40.90 1.0
CAN 29.55 182 eP 28 47.80 0.2
MBL 33.37 240 iPd 29 19.80 -1.3
0.4s 6.00nm 4.7mb
NANU 37.60 240 iPd 29 56.10 -0.8
0.4s 14.00nm 5.2mb
OZH 43.37 316 eP 30 44.10 -0.2
MAT 43.49 346 eP 30 44.00 -1.2
1.0s 20.00nm 4.8mb
WHN 49.84 318 eP 31 36.50 1.5
TIA 52.01 326 eP 31 53.00 1.6
MDJ 53.42 342 Pc 32 02.90 1.3
CN2 54.13 338 P 32 07.20 0.3
BJI 55.31 328 eP 32 15.00 -0.4
1.2s 13.00nm 4.8mb
XAN 55.61 318 P 32 17.50 -0.3
TIY 55.75 324 eP 32 18.80 0.0
CHTO 56.20 297 e(P) 32 23.80 1.6
CD2 57.49 312 P 32 31.40 0.2
BTO 59.07 325 eP 32 43.00 0.9
FBA 83.58 22 ePc 35 06.60 -1.2
0.7s 6.69nm 4.6mb
YKA 97.30 28 eP 36 11.90 -0.5
0.6s 0.50nm 4.2mb
BAO 152.10 140 e(PKP) 42 31.00 2.0
S.D. = 1.3 on 30 of 31 obs.

? MAY 03, 1990 04h 40m 57.25± 4.35s
12.273 S ± 9.3km 77.150 W ±49.4km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)

PT10 0.27 42 iPc 41 04.50 -0.1
iS 41 13.50
NNA 0.41 47 iPd 41 06.30 -0.3
iS 41 16.50
PT08 0.67 62 iPd 41 11.10 0.6
iS 41 23.60
PT02 0.96 134 eP 41 14.60 0.1
iS 41 31.30
PT06 1.74 153 iP 41 26.50 0.9
iS 41 56.30
PT03 2.16 142 iPc 41 30.50 -1.1
iS 42 01.10
S.D. = 0.9 on 6 of 6 obs.

MAY 03, 1990 04h 57m 58.00± 0.38s
41.166 N ± 4.8km 14.752 E ± 4.9km
DEPTH = 11.1 ± 3.0 km
SOUTHERN ITALY (390)
ML 3.0 (VIE), 2.9 (ROM).

BSS 0.38 174 Pd 58 05.20 -0.6
eSg 58 13.00
DUI 0.54 336 P 58 10.70 1.7
RFI 0.59 283 P 58 10.43 0.5
SGO 0.74 145 P 58 11.10 -1.3
eSg 58 22.70
SDI 0.89 308 P 58 15.80 0.8
MGR 1.20 149 P 58 19.80 -0.4
eSg 58 38.40
AZI 1.28 310 P 58 22.20 0.5
AQU 1.56 320 P 58 26.60 0.9
BAI 1.60 91 P 58 26.00 -0.2
eSg 58 49.00
RDP 1.64 292 P 58 26.90 0.0
RMP 1.67 293 P 58 28.50 1.2
BRT 1.88 98 P 58 30.70 0.4
eSn 58 52.70
TDS 1.93 141 P 58 31.70 0.6
MNS 1.97 309 P 58 31.70 0.0
HVAR 2.37 32 i(Pn) 58 36.60 -0.8
ASS 2.46 321 P 58 39.50 0.8
LCI 2.57 108 P 58 40.50 0.3
GRI 2.67 151 P 58 44.25 2.5
ARV 2.69 331 P 58 43.00 1.0
MAO 2.97 296 P 58 45.10 -0.8
ATN 3.05 169 P 58 47.30 0.3
eSn 59 21.70
CRE 3.22 321 P 58 50.50 1.0
SFI 3.49 323 P 58 53.50 0.3
PGD 3.51 321 P 58 53.00 -0.7
PII 4.04 311 P 59 01.50 0.5
BDI 4.22 315 P 59 01.50 -2.2
VBY 4.35 5 eP 59 04.70 -0.8
eSn 59 55.40
OHR 4.57 89 ePn 59 09.30 0.7
0.6s 36.00nm
ZAG 4.73 10 eP 59 22.00 11.1X
PTJ 4.81 10 eP 59 16.50 4.4X
LJU 4.88 358 e(Pn) 59 15.00 2.0
eSn 00 09.00
VOY 4.90 353 ePn 59 12.80 -0.6
eSn 00 06.00
BOB 5.30 315 P 59 16.50 -2.5
CTI 5.37 336 P 59 19.00 -1.1
eSn 00 18.00
FVI 5.61 346 P 59 21.00 -2.3
eSn 00 25.00
VAI 6.40 319 P 59 31.50 -2.9X
SQTA 6.57 338 iPnc 59 38.50 1.6
iSg 00 46.10
KHC 8.01 354 eP 59 57.60 0.6
e 01 24.00
S.D. = 1.2 on 35 of 38 obs.

% MAY 03, 1990 05h 14m 37.00± 0.59s
41.198 N ± 7.8km 14.837 E ±10.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.41 183 P 14 45.10 -0.2
eSg 14 52.20
DUI 0.54 329 P 14 47.50 -0.5
eSg 14 56.50
SGO 0.73 151 P 14 51.50 0.1
eSg 15 03.20
SDI 0.92 304 P 14 55.20 0.6
eSg 15 09.90
MGR 1.19 152 P 14 59.20 0.0
eSg 15 15.50
AZI 1.31 307 P 15 01.50 0.2
eSg 15 19.50
ORI 1.67 132 P 15 07.00 0.6
TDS 1.92 143 P 15 09.50 -0.5
MNS 2.00 307 P 15 11.00 -0.3
S.D. = 0.5 on 9 of 9 obs.

% MAY 03, 1990 05h 20m 22.23± 0.91s
18.336 N ± 8.0km 99.495 W ±11.5km
DEPTH = 5.0km (geophysicist)
GUERRERO, MEXICO (59)

III 0.05 33 iP 20 23.39 -0.4
iS 20 26.26
PPM 1.10 48 eP 20 43.16 -0.5
(S) 21 07.61
IIT 1.32 59 eP 20 47.76 0.6
(S) 21 06.10
IIJ 1.41 351 iP 20 49.01 0.0
(S) 21 07.91
IIC 1.44 9 (P) 20 49.78 0.4
ACX 1.50 193 eP 20 49.75 -0.1
eS 21 10.15
OXX 2.92 115 (P) 21 20.00 9.6X
(S) 21 54.50
S.D. = 0.6 on 6 of 7 obs.

% MAY 03, 1990 05h 20m 47.39± 1.42s
41.304 N ±10.8km 15.019 E ±16.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.54 197 P 20 58.50 0.2
eSg 21 05.80
DUI 0.55 310 P 20 59.00 0.4
eSg 21 06.90
SGO 0.78 163 P 21 02.10 -0.4
eSg 21 13.90
SDI 0.99 294 P 21 05.60 -0.6
eSg 21 19.60
MGR 1.23 161 P 21 10.60 0.3
eSg 21 25.90
AZI 1.37 300 P 21 12.50 0.0
S.D. = 0.5 on 6 of 6 obs.

MAY 03, 1990 05h 31m 42.70± 1.29s
1.328 N ± 6.9km 123.157 E ± 8.6km
DEPTH = 37.0 ± 12.5 km
4.6mb (5 obs.) 4.5Msz (2 obs.)
MINAHASSA PENINSULA (265)

TSM 5.84 300 eP 33 08.50 -0.6
DAV 6.21 23 eP 33 14.90 0.5
KKM 8.36 304 eP 33 45.00 0.4
PPR 9.48 332 eP 34 00.00 0.1
QIZ 21.90 324 eP 36 31.00 -3.6X
N 14s 1.30um
SNG 23.21 285 eP 36 57.80 10.3X
GZH 23.63 337 P 36 52.10 0.6
eS 41 05.00
WB5 23.77 153 eP 36 52.10 -0.8
e 36 54.00
WRA 23.82 153 P 36 54.00 0.6
1.0s 15.90nm 4.5mb
GUMO 24.70 59 e(P) 37 14.00 12.1X
1.2s 200.00nm
PJG 24.70 59 e(P) 37 10.00 8.1X
NANU 24.88 197 iPc 37 02.80 -0.8
0.5s 32.00nm 5.2mb
QIS 27.07 144 eP 37 23.00 -0.9
CHG 29.42 308 eP 37 45.00 -0.3
CHTO 29.42 308 eP 37 44.10 -1.1
1.0s 3.25nm 4.0mb
XAN 35.16 339 eP 38 33.00 -2.2
N 17s 1.10um
TIY 37.53 346 eP 38 53.80 -1.4
Z 20s 1.00um 4.6Msz
N 20s 1.00um
SHL 38.59 311 iP 39 04.00 -0.4
LZH 38.95 335 eP 39 04.00 -3.2X
2.5s 60.00nm 4.9mb
Z 20s 0.50um 4.3Msz
E 15s 0.50um
PP 40 40.50
eS 45 04.00
BJI 39.05 351 eP 39 07.00 -0.8
BRS 40.34 137 iP 39 18.50 -0.2
BTO 40.87 345 eP 39 25.00 2.1
N 15s 0.40um
E 15s 0.40um
BWA 42.74 149 eP 39 41.90 3.6X
GTA 43.48 334 eP 39 44.60 0.3
CAN 43.74 149 eP 39 47.80 1.5
GUN 44.38 310 P 39 52.50 0.4
PKI 44.57 309 P 39 53.70 0.1
DMN 44.83 309 P 39 55.70 0.1
GKN 45.38 309 P 39 59.90 0.0
KOD 46.25 283 eP 40 08.00 0.9
HYB 46.65 293 eP 40 16.00 6.1X
GBA 46.84 287 P 40 13.00 1.7
0.5s 2.30nm 4.4mb
WMQ 52.75 328 P 40 57.20 0.8
MAIO 68.17 309 eP 42 41.00 -0.8
MAW 80.29 200 eP 43 52.00 1.0
INK 93.69 21 eP 45 07.00 10.6X
BUL 94.72 250 iPd 45 01.40 -0.9
S.D. = 1.0 on 29 of 37 obs.

& MAY 03, 1990 05h 52m 22.25s

03d 05h

38.733 N 111.515 W
DEPTH = 1.0km
UTAH (478)
<SLC-P>. CL 2.7 (SLC).

MSU	0.56	247	eP	52 33.00	-0.5
DAU	1.69	7	eP	52 53.00	-0.3
DUG	1.77	326	eP	52 53.40	-1.0

3 obs. associated

MAY 03, 1990 06h 33m 44.65± 0.38s
53.996 N ±15.0km 35.246 W ± 4.8km
DEPTH = 15.8km (3 depth phases)
4.4mb (18 obs.)
NORTH ATLANTIC OCEAN (402)

EKA	18.52	73	P	38 02.00	0.1
	1.1s	9.50nm		3.9mb	
FRB	19.55	313	eP	38 15.00	0.9
CBM	21.94	265	P	38 39.00	0.1
LPF	22.18	92	eP	38 41.60	0.4
	0.8s	5.35nm		4.0mb	
TCF	24.97	93	eP	39 09.00	0.5
	1.0s	9.00nm		4.4mb	
BGF	25.21	91	eP	39 10.80	0.1
	1.0s	22.00nm		4.8mb	
MAF	25.22	92	eP	39 11.30	0.5
	1.0s	12.00nm		4.5mb	
TOL	25.30	111	eP	39 10.50	-1.2
SSF	25.34	90	eP	39 12.30	0.4
	1.0s	11.00nm		4.5mb	
AVF	25.38	91	eP	39 12.60	0.2
	1.0s	10.00nm		4.4mb	
LOR	25.44	89	eP	39 13.00	0.0
	1.0s	8.00nm		4.3mb	
LBF	25.65	90	eP	39 15.00	0.0
	0.8s	5.35nm		4.3mb	
RSON	34.91	289	P	40 40.00	2.9
	0.7s	5.19nm		4.5mb	
MBC	37.05	337	eP	40 55.00	0.1
	1.0s	6.00nm		4.3mb	
FFC	37.56	299	eP	40 59.00	-0.4
	0.6s	5.00nm		4.5mb	
FVM	40.44	270	eP	41 24.00	0.3
	0.7s	13.61nm		4.8mb	
OLY	42.74	268	P	41 42.00	-0.5
INK	44.14	328	eP	41 52.00	-1.4
MEO	47.44	273	iPc	42 20.00	-0.1
GOL	48.06	283	eP	42 25.70	0.5
			ipP	42 30.30	15km
8W06	48.42	289	eP	42 26.40	-1.5
	0.7s	2.63nm		4.4mb	
			epP	42 31.00	15km
PNT	49.60	301	eP	42 44.00	7.4X
ANMO	51.94	279	P	42 55.80	0.9
	0.7s	1.71nm		4.1mb	
ALQ	51.95	279	P	42 55.20	0.3
	1.0s	3.25nm		4.2mb	
KVN	55.70	291	P	43 21.00	-1.5
TNP	55.89	289	iP	43 23.60	-0.3
	0.7s	3.33nm		4.5mb	
			epP	43 28.70	17km
BCAO	65.81	118	ePc	44 35.30	4.1X
	0.9s	9.00nm		4.9mb	
GKN	83.29	51	P	46 00.00	-11.9X
WRA	145.08	17	PKPc	53 21.30	-1.4
	0.7s	1.60nm			

S.D. = 1.0 on 26 of 29 obs.

% MAY 03, 1990 06h 57m 12.36± 1.82s
41.299 N ±13.9km 14.994 E ±20.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.53	196	P	57 23.60	0.6
			eSg	57 28.90	
DUI	0.54	312	P	57 24.50	1.2
			eSg	57 31.00	
SGO	0.78	162	Pc	57 27.50	0.0
			eSg	57 38.60	
SDI	0.97	295	P	57 29.50	-1.4
			eSg	57 42.50	
MGR	1.24	160	P	57 35.00	-0.3
			eSg	57 52.00	

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

MAY 03, 1990 07h 03m 27.50± 0.82s
40.317 N ± 5.5km 22.018 E ± 7.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.6 (THE).

LIT	0.42	121	ePg	03 35.10	-1.0
			eSg	03 41.90	
GRG	0.70	24	ePg	03 40.80	-0.6
			eSg	03 52.30	
KNT	1.08	38	ePg	03 47.70	-0.1
			eSg	04 05.00	
VAY	1.09	23	ePn	03 48.40	0.5
SOH	1.14	63	ePg	03 49.10	0.3
OHR	1.22	311	iPn	03 49.70	-0.5
	0.4s	83.00nm			
			iSn	04 09.30	
AGG	1.32	169	ePb	03 52.70	0.9
			eSb	04 12.10	
PAIG	1.33	106	ePb	03 51.60	-0.5
			eSb	04 10.40	
SRS	1.44	56	ePb	03 54.60	1.0
			eSb	04 15.10	
SKO	1.71	345	ePn	03 53.00	-4.5X

S.D. = 0.8 on 9 of 10 obs.

MAY 03, 1990 07h 22m 32.84± 0.33s
40.305 N ± 3.5km 22.069 E ± 2.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.3 (THE), 2.8 (SKO).

LIT	0.38	122	ePg	22 39.60	-1.1
			eSg	22 44.10	
GRG	0.70	21	ePgd	22 45.40	-1.3
			eSg	22 58.70	
THE	0.76	64	ePgc	22 47.30	-0.3
			eSg	22 58.60	
KBN	1.01	289	iPgd	22 51.00	-0.9
KNT	1.06	36	ePg	22 52.60	-0.3
			eSg	23 09.30	
VAY	1.08	20	iPn	22 53.00	-0.2
			iSn	23 10.30	
SOH	1.11	62	ePgc	22 54.00	0.4
			eSg	23 09.50	
LSK	1.14	263	ePg	22 55.60	-0.6
OHR	1.26	310	iPnc	22 55.00	-1.3
	0.8s	553.00nm			
			iSg	23 14.80	
			Lg	23 20.60	
PAIG	1.29	106	ePbd	22 56.50	-0.3
			eSb	23 14.60	
AGG	1.30	171	ePbd	22 57.50	0.6
			eSb	23 15.60	
NEO	1.34	138	ePn	22 57.00	-0.5
SRS	1.41	54	ePbd	22 59.90	1.3
			eSb	23 19.10	
OUR	1.46	88	ePbd	23 00.40	1.2
			eSb	23 19.40	
IGT	1.54	241	ePbd	23 02.90	2.5X
			eSb	23 25.70	
TPE	1.57	270	iPnc	23 01.50	0.6
BERA	1.66	285	ePn	23 03.10	1.0
SKO	1.73	344	iPn	23 02.90	-0.3
	0.6s	185.00nm			
			iSn	23 24.00	
			i	23 27.00	
			Lg	23 31.50	
KKB	1.74	26	iPc	23 04.00	0.7
MMB	1.80	44	ePd	23 04.00	-0.1
KEK	1.84	252	ePn	23 05.00	1.3
PHP	1.85	319	iPnc	23 04.70	-0.1
TIR	1.97	303	ePn	23 09.20	2.6X
VTS	2.44	20	iP	23 14.00	0.5
SDA	2.59	312	ePn	23 14.90	-0.5
RDO	2.77	71	ePn	23 17.00	-1.0
TTG	3.00	316	ePn	23 22.10	0.9
			eSn	24 02.00	
ALN	3.08	78	ePn	23 23.70	1.2
			eSn	24 01.10	
ITM	3.12	182	ePb	23 26.60	3.6X
VLI	3.65	169	ePn	23 29.50	-1.0

S.D. = 0.9 on 27 of 30 obs.

% MAY 03, 1990 07h 23m 00.58± 1.01s
41.257 N ± 9.7km 14.968 E ±13.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.48	195	P	23 10.00	-0.4
			eSg	23 17.10	
DUI	0.56	317	P	23 11.80	-0.1
			eSg	23 20.70	
SGO	0.74	160	P	23 16.10	1.0
			eSg	23 26.50	
SDI	0.98	298	P	23 19.00	-0.2
			eSg	23 33.50	
MGR	1.20	158	P	23 23.20	0.2
			eSg	23 40.10	
AZI	1.36	303	P	23 26.00	0.5
			eSn	23 44.50	
TDS	1.91	146	P	23 32.50	-0.9

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

MAY 03, 1990 07h 45m 43.02± 0.81s
36.439 N ± 3.4km 140.510 E ± 3.0km
DEPTH = 64.2 ± 6.8 km
5.4mb (94 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)
Felt (IV JMA) at Mito; (III JMA) at Tokyo, Choshi, Onahama and Utsunomiyo; (II JMA) at Chiba and Yokohama.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centraid Location:
Origin Time 07:45:50.3 0.6
Lat 36.25N 0.07 Lon 140.35E 0.05
Dep 43.7 6.3 Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr= 5.61 0.38 Mtt= 0.97 0.52
Mff=-6.58 0.49 Mrt= 2.73 0.71
Mrf= 3.06 0.85 Mtf=-3.76 0.55
Principal Axes:

	Val=	Plg=	Azm=
T	7.01	68	342
N	2.15	15	208
P	-9.16	15	114

Best Double Couple:Mo=8.1*10**16
NP1:Strike=183 Dip=33 Slip= 61
NP2: 37 62 107

MAT	1.86	274	iPd-	46 14.70	1.5
			eS	46 30.00	
SHK	6.67	256	eP	47 21.80	1.2
MDJ	11.64	318	eP	48 28.60	0.1
	1.0s	200.00nm		6.1mb	
	Z 28s	2.80um			
	E 12s	0.60um			
		epP	48 33.00		
		ePP	48 40.00		
		SS	50 45.00		
CN2	13.66	307	Pd	48 55.20	0.1
	1.0s	200.00nm		5.7mb	
	Z 30s	2.30um			
	N 10s	0.50um			
	E 10s	0.70um			
		pP	49 02.00		
		sP	49 08.00		
SNY	14.20	297	iPd	49 03.80	1.7
	1.6s	200.00nm		5.3mb	
	Z 30s	2.60um			
	N 11s	0.80um			
	E 13s	1.10um			
		eS	51 43.00		
DL2	15.16	285	P	49 17.00	2.4
	1.0s	100.00nm		5.0mb	
	Z 18s	1.20um			
	E 16s	1.50um			
		pP	49 27.00		
		sP	49 34.00		
		eS	52 07.00		
SSE	16.92	257	eP	49 37.00	0.1
	Z 20s	1.40um			
	E 12s	0.50um			
		sP	49 55.00		
		sS	53 04.00		
NJ2	18.42	263	Pd	49 54.50	-0.9
	0.9s	100.00nm		5.0mb	
	Z 18s	0.70um			
TIA	18.84	276	Pd	49 58.50	-2.0
	Z 28s	1.10um			
	N 12s	0.50um			
		pP	50 13.00		
		S	53 30.00		
BJI	19.43	288	eP	50 04.00	-2.9

		1.0s	67.00nm		4.9mb			0.7s	26.16nm		5.4mb		IMW	77.11	45 P	57	32.00	0.6
	Z	36s	1.25um				KSH	50.00	294 P	54	34.50	1.6	ISA	77.42	55 eP	57	32.00	-1.0
	E	12s	0.37um				NDI	53.07	281 iP	54	55.20	-0.8	FRB	77.52	13 ePc	57	32.20	-0.6
			esP	50	24.00			0.7s	30.82nm		5.4mb		KAS	77.61	312 eP	57	35.50	1.6
			eS	53	34.00		INK	55.25	27 iPc	55	11.00	-0.3	CLC	77.91	54 eP	57	36.00	0.4
QZH		22.01	245 Pd	50	30.70	-2.5		0.8s	26.00nm		5.3mb		COP	78.13	333 iPc	57	37.80	1.5
TIY		22.41	282 eP	50	35.00	-2.2	WB5	56.31	187 iPc	55	18.50	-1.0		0.8s	161.19nm			6.0mb
	Z	19s	2.00um		4.6Msz		WRA	56.38	187 Pc	55	18.40	-1.6	DUG	78.29	49 P	57	38.00	0.2
	E	18s	1.40um					0.6s	29.60nm		5.5mb			0.8s	7.64nm			4.7mb
			PP	51	02.50		QIS	56.69	181 iPc	55	21.00	-1.2	SBB	78.42	55 eP	57	39.00	0.5
WHN		22.56	262 eP	50	38.50	-0.2	MBC	57.30	16 ePc	55	25.00	-0.9	BW06	78.59	45 P	57	39.00	-0.5
	Z	20s	1.30um		4.4Msz			1.0s	25.00nm		5.3mb			0.7s	2.34nm			4.2mb X
	E	12s	0.70um				HYB	57.46	268 iPc	55	27.00	-0.9	VRI	78.71	319 ePd	57	52.00	12.3X
			sP	50	54.00			1.0s	150.00nm		6.1mb		GSC	78.73	54 eP	57	41.00	0.8
			eS	54	40.00				i	55	42.30		REY	78.80	352 iP	57	42.10	2.3
HHC		22.98	290 eP	50	40.20	-2.7	QUE	60.43	287 eP	55	47.90	-0.5	MJMA	79.03	294 ePc	57	41.70	-0.2
	N	10s	0.30um				GBA	60.44	265 Pc	55	48.10	-0.3	DAU	79.09	48 P	57	42.70	0.3
	E	12s	0.40um					0.9s	109.00nm		6.0mb		BBTK	79.16	312 iPc	57	43.00	0.5
			S	54	37.00		MBL	60.53	202 iPc	55	48.40	-0.4	KRA	79.18	326 iPc	57	42.20	0.0
GUMO		23.09	169 e(P)	50	47.70	3.8X	POO	60.66	272 iPc	55	51.00	1.0		0.8s	66.00nm			5.6mb
PJG		23.09	169 e(P)	50	47.20	3.3X		0.7s	57.53nm		5.8mb				e	57	44.80	
GUA		23.14	169 eP	50	53.20	8.7X	KBS	61.13	350 iPd	55	52.40	0.1			e	57	47.90	
		0.8s	137.31nm		5.4mb		BOM	61.31	273 iPd	55	53.60	-0.7	MSU	79.72	50 P	57	46.50	0.8
BTO		24.15	289 eP	50	51.00	-3.2X	KOD	62.34	262 iPc	56	01.20	-0.4	PLM	79.86	56 eP	57	46.00	-0.4
	N	13s	0.30um					1.0s	60.00nm		5.7mb		TPC	79.95	55 eP	57	47.00	0.3
	E	13s	0.70um				RMQ	63.07	172 eP	56	05.00	-0.8	KSP	80.22	328 iPc	57	48.40	0.6
			eS	55	07.50		DZM	63.14	153 iPc	56	09.20	2.8		1.0s	93.00nm			5.7mb
PIP		25.16	229 iPd	51	02.50	-1.3	MAIO	63.24	297 iPc	56	07.20	0.2			e	00	49.00	
XAN		25.85	274 Pd	51	09.20	-1.1	NANU	63.25	206 eP	56	07.00	0.0	BAR	80.39	57 eP	57	50.00	0.9
			pP	51	27.00	78kmX	WARB	63.64	194 iPc	56	10.00	0.4	PSZ	80.72	324 eP	57	52.00	1.4
BAG		26.66	227 eP	51	15.10	-2.8X		0.5s	12.00nm		5.2mb		RSSD	80.76	41 P	57	50.20	-0.8
GZH		26.97	248 eP	51	20.40	-0.1	KEV	63.74	339 iP	56	08.90	-0.8	BRG	81.19	329 iPc	57	53.20	0.3
LZH		29.46	280 Pd	51	42.20	-0.8		0.9s	43.90nm		5.5mb			1.0s	54.00nm			5.4mb
		1.3s	43.00nm		5.0mb		BRS	64.53	168 iP	56	15.50	0.2			i	58	07.40	
	Z	19s	1.20um		4.5Msz		YKA	64.69	30 eP	56	14.00	-2.0	ALT	81.24	312 eP	57	54.00	0.5
	N	14s	0.60um					0.8s	5.20nm		4.6mb		CLL	81.25	330 iPc	57	53.30	0.2
	E	16s	1.00um				SOD	65.23	337 iP	56	18.90	-0.5		1.1s	125.00nm			5.8mb
			pP	51	56.70	59kmX	DAG	66.31	355 iPc	56	25.00	-1.2	HRI	81.34	305 iPc	57	55.00	0.9
			sP	51	59.70			0.6s	34.67nm		5.5mb		GLA	81.40	55 eP	57	55.00	0.6
GYA		30.41	261 iPc	51	50.40	-1.1	FORR	67.94	192 eP	56	36.30	-0.6	BUD	81.44	324 eP	57	54.80	0.6
		1.0s	100.00nm		5.5mb			0.4s	22.00nm		5.5mb		LFK	81.53	308 iP	57	55.30	0.3
	N	15s	0.50um				SUF	68.19	333 iP	56	37.60	-0.6	SRO	81.53	325 iP	57	54.80	0.1
	E	15s	0.40um					0.7s	71.50nm		5.7mb				e	01	03.00	
			PcP	54	49.80		GMW	68.21	46 P	56	39.00	0.4	PRU	81.61	328 iPc	57	55.70	0.6
			S	56	44.00		BMW	68.49	48 P	56	40.30	-0.2		1.0s	46.30nm			5.4mb
			sS	57	08.00		RMW	68.83	46 P	56	42.80	0.3	ZST	81.81	326 iP	57	56.80	0.7
CD2		30.95	271 P	51	55.40	-0.7	PNT	69.10	44 ePc	56	43.00	-1.1			e	01	05.20	
		0.8s	100.00nm		5.6mb			0.7s	6.00nm		4.6mb		BURJ	81.92	304 Pd	57	57.00	-0.2
	Z	20s	0.60um		4.3Msz		LON	69.19	47 P	56	44.20	-0.5	BCK	81.98	311 eP	57	57.20	-0.2
QIZ		32.02	246 P	52	06.30	0.8	NUR	70.13	332 iP	56	49.00	-1.1	MDSJ	82.00	303 Pd	57	58.00	0.4
			eS	57	09.00			0.8s	79.20nm		5.7mb		KHL	82.07	312 iP	57	57.80	0.0
GTA		32.05	288 eP	52	04.00	-1.8	EDM	70.26	38 iPc	56	50.40	-0.7	SALJ	82.15	304 Pc	57	58.40	0.1
	Z	30s	0.90um		4.3MszX		BWA	70.88	173 eP	56	56.30	1.3	KDZ	82.23	317 iPc	58	00.00	1.5
			PcP	54	54.60				e	57	17.80		KFNJ	82.24	304 Pc	57	58.70	0.0
KMI		34.16	261 Pc	52	23.00	-1.3	NEW	71.06	44 P	56	55.30	-0.8	ALN	82.38	316 eP	58	00.00	0.7
		3.0s	300.00nm		5.7mb			0.9s	15.90nm		4.9mb		ZNT	82.44	305 iPc	58	00.50	0.7
	Z	23s	1.10um		4.5MszX		CAN	71.83	173 eP	57	01.20	0.6	HOF	82.47	330 eP	58	00.30	0.7
			sP	52	42.50		WDC	72.01	53 eP	57	02.00	0.2		1.0s	73.00nm			5.6mb
LOE		39.10	251 eP	53	05.00	-0.8	SES	73.08	39 ePc	57	07.70	-0.3	WIT	82.48	334 eP	58	01.00	1.5
CHG		40.44	256 iPc	53	17.00	0.2	UPP	73.17	334 iPc	57	07.50	-0.7	RZN	82.59	317 iPc	58	02.00	1.4
		1.0s	27.50nm		5.1mb				i	57	23.00		KHC	82.67	328 iPc	58	01.50	0.8
CHTO		40.44	256 iP	53	17.00	0.2	ORV	73.24	53 eP	57	08.70	-0.3		1.0s	37.50nm			5.3mb
		0.8s	17.75nm		5.0mb		SLY	73.42	302 iPd	57	10.00	-0.1			e	58	16.00	
WMQ		40.46	297 P	53	17.50	0.6	BKS	73.68	55 eP	57	12.20	0.6	VTS	82.78	319 iP	58	02.00	0.5
	Z	22s	0.52um		4.3Msz		GDH	74.11	5 iPc	57	14.00	0.5	ELL	82.86	311 eP	58	02.00	0.0
			sP	53	31.50			1.0s	54.00nm		5.4mb		WET	82.95	328 iPc	58	02.80	0.7
			PP	54	54.80		HFS	74.33	335 eP	57	14.30	-0.7		1.2s	69.00nm			5.5mb
			S	59	22.00			1.0s	80.80nm		5.6mb		GOL	82.99	45 P	58	02.80	0.0
NST		41.36	251 eP	53	27.10	2.7	Z	19s	0.33um		4.6Msz			0.8s	7.74nm			4.7mb
LSA		41.54	275 iPd	53	27.20	0.9			LR	29	12.00		WTS	83.09	333 iP	58	02.90	0.2
			sP	53	47.00		NB2	74.45	337 P	57	15.30	-0.5		0.8s	35.00nm			5.4mb
			S	59	39.00			0.9s	93.30nm		5.7mb		MMB	83.20	318 ePc	58	05.00	1.5
PMG		46.03	171 eP	53	54.50	-7.4X	MSL	74.58	304 iPd	57	16.50	-0.4	GRF	83.22	330 iPc	58	04.30	0.8
TTA		46.32	34 P	54	03.40	-0.5	FFC	74.60	32 iPc	57	16.50	-0.1		0.9s	124.00nm			5.9mb
		0.8s	7.76nm		4.7mb			1.0s	37.00nm		5.3mb		EKA	83.45	340 Pc	58	04.80	0.3
BRW		47.24	23 P	54	11.00	0.0	CMB	74.81	54 eP	57	18.40	0.2		0.8s	17.60nm			5.1mb
IMA		47.57	30 P	54	11.20	-2.6	LRM	75.08	44 iPc	57	20.20	0.3	NOH	83.45	303 iPc	58	06.10	1.1
		0.9s	8.33nm		4.7mb		PRS	75.12	56 eP	57	20.20	0.2	SRS	83.59	317 eP	58	05.70	0.2
KDC		48.08	42 P	54	16.50	-1.1	LLA	75.24	55 eP	57	20.80	0.1	TNS	83.90	331 ePc	58	07.30	0.3
		0.6s	17.24nm		5.2mb		BHD	75.47	301 ePd	57	23.00	1.0	OUR	83.92	317 eP	58	07.70	0.6
IPM		48.14	238 ePc	54	19.90	1.2	KVN	75.70	52 P	57	23.30	-0.2	SOH	83.93	317 eP	58	07.40	0.1
		0.9s	43.70nm		5.4mb		FRI	75.84	54 eP	57	24.00	0.0	KNT	83.94	318 eP	58	07.80	0.5
KGM		48.50	234 eP	54	22.90	1.5	HPI	75.98	46 P	57	25.60	0.5	VAY	84.01	318 iPc	58	08.50	0.9
PMR		49.53	36 P	54	27.40	-1.4	TNP	76.82	52 P	57	29.80	0.0		0.8s	155.00nm			6.1mb
		1.0s	24.50nm		5.2mb			0.9s	11.39nm		4.8mb		PTJ	84.04	325 iPc	58	07.70	-0.1
MTN		49.81	192 iPd	54	31.40	0.0	AKU	76.86	351 iPc	57	30.80	1.7	BHG	84.04	327 iPc	58	08.60	0.9
FBA		49.99	32 P	54	31.70	-0.6		1.0s	48.00nm		5.4mb			1.4s	117.00nm			5.7mb

03d 07h

MBH	84.07	303	iPc	58	09.00	0.9
ZAG	84.09	325	iP	58	08.50	0.6
SKO	84.16	319	iPc	58	09.50	1.2
	1.0s	129.00nm			5.9mb	
TOD	84.26	331	eP	58	08.97	0.3
HQL	84.27	302	ePc	58	09.90	0.8
GRG	84.35	318	eP	58	09.50	0.1
PAIG	84.37	316	eP	58	09.80	0.4
FUR	84.39	329	eP	58	10.00	0.6
	0.8s	83.00nm			5.8mb	
ENN	84.41	333	iPc	58	09.60	0.2
	0.8s	45.00nm			5.6mb	
MEM	84.51	333	Pc	58	09.80	-0.1
ABH	84.52	332	eP	58	10.24	0.2
VBY	84.66	325	e(P)c	58	11.20	0.4
KTD	84.77	331	eP	58	11.32	0.0
RUP	84.86	332	eP	58	11.95	0.2
LIT	84.90	317	eP	58	11.40	-0.7
FVI	84.95	327	P	58	11.50	-0.7
OHR	85.10	319	iPc	58	13.40	0.2
	1.0s	171.00nm			6.1mb	
WAJH	85.14	299	ePc	58	13.70	0.2
TRI	85.19	326	P	58	12.00	-1.4
GWF	85.22	331	P	58	13.89	0.3
DOU	85.45	333	P	58	14.90	0.3
ANMO	85.53	49	P	58	16.30	0.7
	1.0s	8.75nm			4.8mb	
ALQ	85.53	49	eP	58	16.50	0.9
	1.0s	10.00nm			4.9mb	
AGG	85.75	316	eP	58	15.70	-0.7
CDF	85.82	331	P	58	16.64	0.0
SLE	85.85	330	ePc	58	16.70	0.0
SAX	85.91	329	ePc	58	17.20	-0.2
FEL	85.96	330	eP	58	17.11	-0.3
OSS	86.02	328	ePc	58	17.90	0.1
YRH	86.06	340	iPc	58	18.00	0.3
	0.9s	95.00nm			5.9mb	
ZLA	86.12	330	ePc	58	17.90	-0.2
SCH	86.13	15	eP	58	18.00	0.0
MOF	86.33	331	P	58	18.88	-0.3
LLS	86.36	329	ePc	58	19.10	-0.4
VDL	86.47	329	ePc	58	19.90	-0.1
BSF	86.48	331	eP	58	19.50	-0.4
	0.6s	11.70nm			5.2mb	
VITF	86.48	331	P	58	19.58	-0.1
IGT	86.48	318	eP	58	19.50	-0.4
HAU	86.51	331	eP	58	19.80	-0.2
	0.8s	28.20nm			5.5mb	
ETA	86.62	340	eP	58	21.20	0.8
	1.0s	67.00nm			5.7mb	
SAL	86.71	327	P	58	21.00	0.1
TMA	87.02	329	ePc	58	22.00	-0.7
ECP	87.13	340	eP	58	23.50	0.7
	0.9s	76.00nm			5.9mb	
VAI	87.25	329	P	58	23.10	-0.4
ARV	87.26	325	P	58	24.00	0.3
SFI	87.43	326	P	58	25.80	1.4
MMK	87.44	329	ePc	58	25.00	0.2
PGD	87.53	326	P	58	26.10	0.9
CRE	87.62	325	P	58	26.00	0.5
DIX	87.65	329	ePc	58	25.90	0.1
ASS	87.72	325	P	58	26.00	0.1
MME	87.74	326	P	58	26.70	0.4
ORX	87.77	329	P	58	24.82	-1.4
BOB	87.84	327	P	58	26.50	0.0
EMS	87.85	330	ePc	58	26.40	-0.3
BDI	87.89	326	P	58	26.20	-0.6
DUI	87.94	323	P	58	27.50	0.5
LOR	88.07	332	eP	58	27.20	-0.3
	1.0s	24.00nm			5.3mb	
AZI	88.18	323	P	58	28.50	0.5
PII	88.19	326	P	58	26.00	-2.1
SDI	88.22	323	P	58	28.00	-0.3
MNS	88.24	324	P	58	27.50	-0.9
LSD	88.26	329	P	58	28.61	-0.1
LBF	88.26	332	eP	58	27.90	-0.6
	1.0s	11.00nm			5.0mb	
GRC	88.34	333	P	58	28.93	0.2
SGO	88.35	321	P	58	28.80	-0.1
FLN	88.35	335	eP	58	28.20	-0.6
	1.0s	18.00nm			5.2mb	
LDF	88.38	335	eP	58	28.60	-0.3
	0.8s	8.05nm			5.0mb	
SSF	88.38	332	eP	58	28.60	-0.3
	1.0s	19.00nm			5.3mb	
LPL	88.38	329	eP	58	29.10	-0.2
	0.8s	14.80nm			5.2mb	
LPG	88.39	329	eP	58	29.30	-0.1
	0.8s	20.15nm			5.4mb	
PCP	88.41	328	P	58	28.30	-0.9
RSP	88.46	329	P	58	28.41	-1.1
TDS	88.50	320	P	58	30.50	0.9
MGR	88.54	321	P	58	28.90	-0.9
SMF	88.60	332	eP	58	29.90	-0.1
	1.0s	18.00nm			5.3mb	
CKI	88.62	328	P	58	29.20	-0.9
AVF	88.66	332	eP	58	30.40	0.1
	0.8s	26.85nm			5.5mb	
BNI	88.78	329	P	58	30.90	-0.2
GRR	88.80	335	eP	58	31.00	0.1
	1.0s	24.00nm			5.4mb	
FIN	88.82	328	P	58	29.43	-1.7
RRL	88.84	329	P	58	31.28	-0.3
ROB	88.89	328	P	58	30.15	-1.4
DOI	88.99	329	P	58	30.00	-2.0
BGF	89.05	332	eP	58	32.30	0.1
	0.8s	12.10nm			5.2mb	
ENR	89.14	328	P	58	29.84	-2.9X
STV	89.17	328	P	58	29.43	-3.4X
LPF	89.17	335	eP	58	33.00	0.3
	0.8s	24.20nm			5.5mb	
PLDF	89.24	332	P	58	33.23	0.0
AGO	89.36	332	P	58	33.85	0.2
SBF	89.43	328	eP	58	33.40	-0.7
	1.0s	28.00nm			5.5mb	
MAF	89.43	332	eP	58	34.50	0.5
	0.8s	20.15nm			5.4mb	
TCF	89.51	333	eP	58	34.40	0.0
	1.0s	14.00nm			5.2mb	
PYM	89.66	332	P	58	35.32	0.1
LSF	89.79	333	eP	58	35.10	-0.6
PGF	89.80	326	eP	58	35.40	-0.5
	0.8s	18.80nm			5.4mb	
LBL	90.00	331	P	58	36.94	0.3
FRF	90.01	328	eP	58	36.10	-0.6
	0.8s	10.75nm			5.2mb	
MFF	90.10	334	eP	58	37.10	0.0
	0.8s	26.85nm			5.6mb	
LRG	90.21	328	eP	58	37.40	-0.2
	0.8s	24.20nm			5.5mb	
LMR	90.25	328	eP	58	37.50	-0.3
	1.0s	36.00nm			5.6mb	
MEO	90.29	45	eP	58	38.50	0.3
RJF	90.60	332	eP	58	39.60	0.2
	0.8s	25.50nm			5.6mb	
CAF	90.72	332	eP	58	40.60	0.6
	1.0s	30.00nm			5.6mb	
LFF	91.20	333	eP	58	42.60	0.4
	0.8s	26.85nm			5.7mb	
LPO	91.25	332	eP	58	42.80	0.4
	1.0s	24.00nm			5.5mb	
EPF	92.98	332	eP	58	50.50	0.0
	0.8s	5.35nm			5.0mb	
HBVT	94.01	23	P	58	54.40	-0.7
BNH	94.37	22	P	58	56.90	0.1
BCAO	112.36	294	ePKPc	04	14.00	0.2
	0.6s	6.00nm				
BUL	119.01	265	iPKPc	04	24.90	-1.6
SLR	122.04	260	ePKP	04	29.00	-3.1X
BFS	123.77	260	iPKPd	04	31.50	-3.9X
	0.6s	13.33nm				
SWZ	125.06	260	ePKP	04	29.00	-8.9X
SPA	126.25	180	iPKPc	04	23.90	-15.1X
	1.0s	11.00nm				
HVD	126.41	256	ePKP	04	36.00	-4.5X
WIN	129.50	270	e(PKP)	04	49.00	2.4X
ARE	145.36	63	ePKP	05	12.00	-3.9X
CCH	149.75	58	ePKP	05	25.00	2.1X
CAI	150.15	355	iPKPc	05	29.80	6.5X
ANT	150.51	73	ePKP	05	30.00	6.5X
SIV	152.02	49	PKP	05	26.60	0.6
			i	05	32.60	
PDCR	156.19	359	(PKP)	05	32.00	0.3
	S.D. = 0.9	on 269 of 288 obs.				

---

* MAY 03, 1990 08h 05m 32.01± 0.73s
15.645 S ±18.6km 72.067 W ±11.3km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
SOUTHERN PERU (117)
Felt (II) at Arequipa.

ARE	0.98	146	iPd	05	50.30	0.5
			e(S)	06	06.00	
PT03	3.96	294	iPc	06	31.50	-0.6
			eS	07	16.30	
PT06	4.50	293	iP	06	38.10	-1.6
			iS	07	38.60	
PT02	5.02	302	eP	06	48.30	1.3
PT08	5.69	310	iPd	07	02.90	6.1X
			eS	08	14.10	
NNA	5.89	307	eP	07	05.00	5.6X
	0.7s	13.01nm			4.7mb X	
			i	07	11.00	
			eS	08	24.50	
PT10	5.94	306	e(P)	07	06.00	6.0X
			e	07	12.50	
			eS	08	32.00	
CCH	5.94	108	P	07	00.90	0.6
			i	07	09.90	
SIV	10.59	93	P	08	03.00	-1.6
			i	08	08.20	
FVM	56.06	343	eP	15	11.80	1.6
	0.8s	16.67nm			5.1mb	
ALQ	59.98	328	P	15	38.00	0.1
	1.0s	3.25nm			4.4mb	
SES	74.13	335	eP	17	17.00	10.2X
PNT	77.12	330	eP	17	39.00	15.2X
YKA	84.71	342	eP	18	03.30	-0.2
	0.8s	1.00nm			4.1mb	
	S.D. = 1.3	on 9 of 14 obs.				

& MAY 03, 1990 08h 40m 19.31s
60.039 N 152.881 W
DEPTH = 105.7km
SOUTHERN ALASKA (2)
<AGS-P>.

RED	0.39	8	iP	40	34.49	-0.8
			iS	40	46.88	
RDT	0.59	24	iP	40	35.93	-0.7
AUL	0.72	203	iP	40	36.88	-0.8
AUE	0.73	200	eP	40	36.80	-0.9
NNL	0.80	89	eP	40	38.56	0.2
XLV	0.83	134	eP	40	37.73	-1.0
			eS	40	52.63	
CNPM	0.98	121	iP	40	39.55	-0.7
NKA	1.08	48	iP	40	42.48	1.2
CDD	1.18	200	eP	40	41.30	-1.2
SPU	1.22	19	iP	40	42.33	-0.6
CRP	1.28	16	eP	40	43.52	-0.3
			eS	41	01.36	
CGLM	1.34	18	iP	40	44.04	-0.4
SLKM	1.41	69	eP	40	44.19	-1.0
			iS	41	03.50	
NCG	1.41	14	eP	40	45.20	-0.1
SEW	1.72	86	eP	40	47.82	-1.2
SVW	1.73	310	iP	40	47.82	-1.3
SUA	1.77	35	eP	40	49.56	-0.3
			eS	41	13.08	
PMS	2.03	52	iP	40	52.64	-0.5
			iS	41	17.09	
SKT	2.06	18	eP	40	53.06	-0.3
PWA	2.19	41	eP	40	54.68	-0.3
PLRM	2.41	48	eP	40	56.64	-1.3
GHO	2.60	46	eP	40	59.20	-1.4
			iS	41	29.43	
CUT	2.69	27	eP	41	01.86	0.2
SML	2.84	49	eP	41	02.14	-1.7
GLI	2.99	71	eP	41	03.09	-2.7
VZW	3.29	69	eP	41	07.44	-2.5
VLZ	3.41	68	eP	41	09.26	-2.2
NCA	3.54	54	eP	41	11.86	-1.5
KTH	3.65	14	eP	41	14.00	-0.8
KLU	3.71	64	eP	41	13.43	-2.3
TOA	3.86	55	eP	41	15.00	-2.7
RND	3.88	28	eP	41	17.91	-0.1
GLB	4.67	69	eP	41	26.22	-2.6
	33 obs. associated					

% MAY 03, 1990 08h 57m 28.54± 1.26s
41.242 N ±10.7km 14.935 E ±16.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.46	192	P	57	38.10	0.2
			eSg	57	43.10	
DUI	0.55	320	P	57	40.00	0.2
			eSg	57	50.00	
SGO	0.74	157	Pd	57	43.40	0.4
			eSg	57	54.50	

SDI 0.96 299 P 57 46.50 -0.4
eSg 58 01.50
MGR 1.20 157 P 57 50.40 -0.5
eSg 58 08.00
S.D. = 0.5 on 5 of 5 obs.

? MAY 03, 1990 09h 06m 17.57± 2.33s
43.112 N ±19.9km 0.607 W ±11.5km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ESCF 0.04 145 Pg 06 18.96 0.0
Sg 06 19.87
ATE 0.08 250 Pg 06 19.22 -0.2
MADF 0.16 282 Pg 06 20.95 0.0
Sg 06 23.75
ISSF 0.16 239 Pg 06 21.12 0.1
Sg 06 23.98
S.D. = 0.2 on 4 of 4 obs.

? MAY 03, 1990 09h 33m 23.05± 2.18s
40.632 N ±22.3km 27.415 E ± 9.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC 0.44 130 iPg 33 32.00 -0.1
iSg 33 39.60
KCT 0.81 118 iPg 33 39.00 0.2
iSg 33 52.00
EZN 1.16 226 ePn 33 44.70 0.0
YLV 1.49 92 iPn 33 49.90 -0.1
S.D. = 0.2 on 4 of 4 obs.

MAY 03, 1990 10h 02m 22.22± 0.27s
42.790 N ± 5.4km 76.880 E ± 5.2km
DEPTH = 33.0km (normal)
4.7mb (22 obs.)
ALMA-ATA REGION (330)
Felt (V) 35 km south of Almo-Ato
and (IV) at Almo-Ato.

KSH 3.40 192 Pn 03 19.00 4.6X
Sg 04 05.50
WMQ 7.96 79 P 04 17.40 -1.1
NDI 14.08 179 eP 05 42.50 1.1
QUE 14.88 216 eP 05 44.90 -7.2X
MAIO 14.89 250 eP 05 49.00 -3.0X
GKN 16.04 154 P 06 07.20 0.1
GUN 16.55 151 P 06 11.80 -1.9
PKI 16.69 153 P 06 14.00 -1.5
LSA 17.38 134 P 06 25.40 1.2
GTA 17.60 93 eP 06 25.60 -1.0
Z 16s 0.90um
SHL 21.14 140 iP 07 06.00 -0.8
eS 11 13.00
LZH 21.82 99 Pc 07 14.00 0.5
1.0s 33.00nm 4.7mb
Z 12s 0.50um 4.1MszX
E 10s 0.50um
pP 07 19.50 20kmX
CD2 24.45 110 P 07 41.30 2.1
BTO 24.76 84 eP 07 43.00 0.9
HHC 25.82 82 eP 07 52.80 0.7
XAN 26.46 99 P 07 58.00 0.0
TIY 27.47 89 eP 08 07.20 0.0
Z 13s 0.70um 4.4MszX
N 15s 0.40um
GYA 29.23 114 eP 08 24.00 0.7
CHG 30.32 135 eP 08 32.50 -0.4
CHTO 30.32 135 eP 08 31.70 -1.2
0.8s 2.01nm 4.0mb
WHN 32.19 100 P 08 49.50 0.3
CN2 34.96 71 eP 09 15.00 2.0
SUF 35.37 322 iP 09 15.90 -0.4
0.5s 4.50nm 4.7mb
NUR 35.78 318 eP 09 12.00 -7.8X
i 09 19.50
KEV 36.90 334 eP 09 28.00 -1.1
KRA 39.08 301 eP 09 47.50 -0.1
e 09 50.10
UPP 39.26 317 iP 09 48.00 -1.0
HFS 41.22 317 eP 10 04.70 -0.4
0.5s 3.80nm 4.4mb
NB2 42.36 319 P 10 13.90 -0.6
1.0s 15.10nm 4.7mb
PRU 42.48 302 eP 10 16.80 1.2
e 10 52.40
KHC 43.31 301 eP 10 24.00 1.6
e 11 05.50
BSF 48.01 302 eP 10 59.90 0.0
0.8s 8.05nm 4.8mb
LPG 48.92 299 eP 11 10.30 3.1X
0.8s 8.05nm 4.8mb
LPL 48.92 299 eP 11 10.10 3.0X
0.6s 4.05nm 4.6mb
DAG 50.06 343 iPc 11 14.00 -1.2
0.7s 9.59nm 4.9mb
AVF 50.57 301 eP 11 19.00 -0.4
0.6s 6.30nm 4.8mb
BGF 50.98 301 eP 11 22.20 -0.3
0.4s 3.45nm 4.7mb
EKA 51.08 314 Pc 11 20.10 -3.1X
0.6s 2.00nm 4.3mb
RJF 52.35 300 eP 11 32.80 -0.2
0.8s 5.35nm 4.6mb
ECP 54.08 311 eP 11 47.80 2.2
MBC 60.79 4 ePc 12 32.00 -0.7
0.6s 11.00nm 5.2mb
BCAO 64.08 251 iPd 12 50.80 -4.6X
0.9s 14.00nm 5.1mb
IMA 64.71 20 P 12 57.50 -1.5
INK 66.90 12 eP 13 13.00 0.2
FBA 67.11 19 P 13 13.50 -0.7
0.9s 9.38nm 4.9mb
PMR 69.52 22 P 13 27.90 -1.2
0.8s 5.52nm 4.7mb
FRB 70.33 344 eP 13 33.50 -0.5
YKA 74.66 6 eP 13 58.50 -1.1
0.6s 7.20nm 4.8mb
WB5 81.75 127 eP 14 38.90 -0.1
WRA 81.78 127 Pc 14 38.80 -0.3
0.6s 2.80nm 4.5mb
FFC 82.85 359 iPc 14 44.80 0.6
0.9s 17.00nm 5.1mb
EDM 83.96 6 iPc 14 50.50 0.5
SES 86.94 5 eP 15 05.00 0.1
GMW 88.38 13 P 15 12.60 0.8
NEW 88.49 9 P 15 12.70 0.3
1.0s 6.88nm 4.9mb
RMW 88.63 13 P 15 13.70 0.6
LON 89.32 13 P 15 16.90 0.5
IMW 93.41 6 P 15 36.80 1.1
RSSD 93.47 1 P 15 36.20 0.4
BW06 94.62 5 P 15 40.80 -0.4
0.5s 0.89nm 4.5mb
ALQ 102.58 3 e(Pdif16 19.00 2.0X
S.D. = 1.0 on 52 of 61 obs.

? MAY 03, 1990 10h 04m 52.65± 3.25s
45.673 N ±38.1km 7.674 E ±12.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN).

ORX 0.22 100 P 04 57.46 0.0
S 06 01.43
LSD 0.42 240 P 05 01.08 -0.3
S 05 06.99
RSP 0.60 210 P 05 04.35 -0.5
S 05 12.51
RRL 0.98 220 P 05 12.17 0.7
S 05 23.89
S.D. = 0.9 on 4 of 4 obs.

• MAY 03, 1990 10h 28m 06.89± 1.28s
14.157 N ± 7.7km 61.122 W ±29.9km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
ML 2.2 (FDF).

SLB 0.34 166 eP 28 15.21 0.0
eS 28 20.59
BIM 0.36 8 iPc 28 15.38 -0.1
S 28 21.00
MVM 0.45 29 iPc 28 16.84 0.0
S 28 23.50
FDF 0.57 357 iPd 28 18.66 0.1
S 28 26.50
CRM 0.63 19 eP 28 19.34 0.1
S 28 28.10
S.D. = 0.1 on 5 of 5 obs.

% MAY 03, 1990 10h 44m 23.02± 1.38s
41.246 N ±11.8km 14.928 E ±18.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.46 191 P 44 32.70 0.2
eSg 44 38.00
DUI 0.54 320 P 44 34.50 0.4
eSg 44 42.00
SGO 0.74 157 P 44 38.40 0.8
eSg 44 48.70
SDI 0.95 299 P 44 40.70 -0.5
eSg 44 55.00
MGR 1.21 156 P 44 44.50 -1.0
eSg 45 01.50
S.D. = 1.0 on 5 of 5 obs.

• MAY 03, 1990 11h 11m 53.36± 1.68s
50.999 N ±20.7km 15.786 E ± 6.3km
DEPTH = 5.0km (geophysicist)
CZECHOSLOVAKIA (547)
ML 2.9 (KRA).

KSP 0.36 116 iP 11 59.40 -1.1
iS 12 07.50
iLR 12 13.50
BRG 1.17 265 iPg 12 15.10 -0.6
iSg 12 34.80
PRU 1.29 219 Pn 12 17.60 -0.1
Pg 12 20.30
Sn 12 37.00
Sg 12 44.00
KHC 2.35 218 Pn 12 33.50 0.2
Pg 12 40.30
eSg 13 08.30
WET 2.64 226 iPc 12 37.70 0.4
KRA 2.81 108 eP 12 41.00 1.2
eS 13 17.90
ZST 2.93 163 eP 13 08.00 26.5X
e 13 40.80
S.D. = 1.0 on 6 of 7 obs.

? MAY 03, 1990 11h 30m 03.82± 6.82s
60.923 N ±11.8km 1.746 E ±60.2km
DEPTH = 10.0km (geophysicist)
NORTH SEA (534)
MD 2.0 (BER).

SUE 1.48 83 eP 30 29.99 -0.4
eSg 30 44.95
FRO 1.73 60 iP 30 33.79 -0.2
iS 30 51.87
HYA 2.17 82 eP 30 40.76 0.3
iS 31 02.36
KMY 2.45 133 iP 30 44.30 -0.2
iS 31 10.60
BLS1 2.97 119 eP 30 52.20 0.3
eS 31 23.00
MOL 3.22 57 eP 30 55.57 0.3
eS 31 28.28
S.D. = 0.4 on 6 of 6 obs.

% MAY 03, 1990 11h 53m 00.60± 3.99s
11.060 N ±18.3km 61.757 W ±26.3km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.2 (TRN).

TCE 0.36 179 eP 53 08.25 0.2
eS 53 23.59
TRN 0.54 140 eP 53 11.64 0.2
eS 53 23.59
TPP 0.80 158 eP 53 15.65 -0.4
eS 53 27.77
TPR 0.97 82 eP 53 19.31 0.3
eS 53 39.32
BOT 1.03 84 eP 53 19.74 -0.2
eS 53 39.83
S.D. = 0.4 on 5 of 5 obs.

% MAY 03, 1990 12h 59m 15.38± 0.80s
44.302 N ±13.1km 8.013 E ± 5.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

ROB 0.10 266 P 59 18.60 0.4
S 59 20.24

03d 12h

FIN	0.17	123	P	59 19.21	0.0
			S	59 21.37	
ENR	0.43	260	P	59 24.65	0.4
			S	59 31.62	
PCP	0.45	58	P	59 24.54	0.0
			S	59 31.72	
STV	0.50	264	P	59 24.75	-0.8
			S	59 32.13	

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

• MAY 03, 1990 13h 11m 31.16± 0.93s
5.897 S ±10.4km 147.692 E ± 9.4km
DEPTH = 108.5 ± 9.4 km
4.3mb (5 obs.)
EAST PAPUA NEW GUINEA REGION (207)

LAT	1.02	222	iPc	11 52.70	0.0
PMG	3.53	189	iPc	12 23.80	-1.2
			eS	13 04.00	
MNDI	4.02	266	eP	12 34.00	2.0
RAB	4.77	69	iPd	12 41.70	-0.4
	0.7s		1369.86nm		
QIS	16.55	208	eP	15 18.00	-0.2
			eS	18 18.00	
MTN	17.73	246	eP	15 32.00	-0.7
			e	18 50.00	
WB5	19.00	222	eP	15 46.00	-1.1
			eS	19 11.40	
WRA	19.06	222	Pc	15 46.50	-1.3
	0.4s		4.60nm	4.2mb	
RMQ	20.50	177	eP	16 05.00	2.3
KNA	20.99	241	eP	16 06.50	-1.1
BRS	21.92	168	iPc	16 17.50	0.7
	0.8s		2.00nm	3.5mb	
			i	16 21.00	
WARB	28.48	223	eP	17 19.00	0.8
	0.4s		4.00nm	4.4mb	
FORR	30.90	214	eP	17 39.70	0.2
MBL	30.96	238	eP	17 40.20	0.0
	0.4s		3.00nm	4.4mb	
NANU	35.18	239	iPc	18 17.10	0.4
	0.4s		17.00nm	5.3mb	
MAT	43.14	349	eP	19 22.00	-0.5
SIV	144.17	128	PKP	30 54.60	-2.2X

S.D. = 1.2 on 16 of 17 obs.

% MAY 03, 1990 13h 16m 42.67± 0.85s
39.290 N ± 6.5km 29.415 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.59	113	ePg	16 55.00	0.3
			eSg	17 03.40	
KHL	0.97	175	iPn	17 00.90	-0.3
GPA	1.21	34	ePn	17 05.00	-0.3
KCT	1.26	320	iPn	17 06.30	0.2
YLV	1.28	359	iPn	17 06.30	-0.1

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

? MAY 03, 1990 13h 25m 28.00±11.04s
11.718 S ±53.0km 78.239 W ±73.7km
DEPTH = 10.0km (geophysicist)
OFF COAST OF PERU (114)
Felt (III) at Limo.

PT10	1.29	106	iPd	25 52.50	0.5
			i(S)	26 00.00	
NNA	1.39	101	iPc	25 53.00	-0.5
			eS	26 00.00	
PT08	1.67	98	iPc	25 56.90	-0.9
PT02	2.14	125	iPd	26 03.20	-1.1
PT06	2.81	139	iP	26 13.60	-0.1
			iS	26 41.00	
PT03	3.28	134	iPc	26 20.10	-0.5
			eS	26 48.60	
ZOBO	10.81	116	P	28 09.00	2.5

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

? MAY 03, 1990 14h 02m 37.65± 5.00s
59.011 N ±43.3km 5.932 E ± 9.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.3 (BER).

KMY	0.41	300	iP	02 45.92	0.0
			eS	02 50.87	
BLS1	0.60	50	eP	02 49.80	0.0
			eS	02 57.28	
ODD1	0.97	21	eP	02 56.00	-0.1
			eS	03 08.01	
HYA	2.17	3	eP	03 14.40	0.2
			eS	03 40.65	

S.D. = 0.2 on 4 of 4 obs.

• MAY 03, 1990 14h 26m 45.43± 1.16s
17.078 N ±14.7km 62.585 W ±17.2km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)

SKI	0.29	330	eP	26 53.16	0.0
			eS	27 04.57	
MGH	0.50	135	eP	26 59.00	2.9X
			S	27 15.70	
BPA	0.70	93	eP	26 58.50	-0.3
			S	27 14.10	
SEG	1.23	123	eP	27 07.00	0.6
PAG	1.36	140	eP	27 08.80	0.5
			S	27 33.50	
BBL	1.88	145	eP	27 15.00	-0.8

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

% MAY 03, 1990 17h 54m 56.60± 1.69s
47.251 N ±10.6km 0.836 W ±20.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.0 (LDG).

LPF	0.79	350	Pg	55 11.60	-0.4
			Sg	55 20.90	
MFF	0.80	144	Pg	55 12.00	-0.2
GRR	1.14	359	Pg	55 17.80	-0.1
			Sg	55 31.50	
LDF	1.43	19	Pg	55 22.80	0.3
			Sg	55 40.40	
FLN	1.53	9	Pg	55 24.50	0.5
			Sg	55 43.40	
LSF	1.91	121	Pg	55 32.30	2.8
			Sg	55 57.20	
TCF	2.30	114	Pn	55 39.50	4.3X
			Sg	56 07.70	
RJF	2.54	139	Pg	55 43.00	4.5X
			Sg	56 16.40	
MAF	2.56	113	Pn	55 38.20	-0.6
			Pg	55 43.50	
			Sg	56 14.90	
LFF	2.56	154	Pg	55 45.60	6.8X
			Sg	56 19.60	
BGF	2.62	104	Pg	55 45.40	5.7X
			Sg	56 16.90	
AVF	2.90	98	Pn	55 42.70	-1.0
			Pg	55 49.60	
			Sg	56 24.00	
LPO	2.93	150	Pg	55 52.40	8.3X
			Sg	56 30.50	
SSF	2.97	92	Pg	55 52.30	7.7X
			Sg	56 26.40	
CAF	3.08	138	Pn	55 45.20	-1.0
			Pg	55 54.50	
			Sg	56 33.50	
LOR	3.20	88	Pn	55 47.50	-0.4
			Pg	55 55.80	
			Sg	56 34.90	
SMF	3.26	99	Pg	55 55.70	6.9X
			Sg	56 35.10	
LBF	3.30	93	Pg	55 57.60	8.2X
			Sg	56 36.00	

S.D. = 1.2 on 10 of 18 obs.

MAY 03, 1990 17h 56m 20.69± 0.67s
38.939 N ± 6.0km 22.043 E ± 4.6km
DEPTH = 12.7 ± 3.1 km
GREECE (364)
ML 3.1 (THE).

AGG	0.24	70	ePgc	56 26.40	0.4
NEO	0.99	68	eP	56 40.20	1.0
			eS	56 57.30	
LIT	1.21	16	ePbc	56 43.30	0.3
			eSb	57 02.60	
IGT	1.45	295	ePb	56 45.80	-0.9
			eSb	57 06.40	
PAIG	1.61	52	ePnd	56 48.60	-0.2
			eSn	57 11.50	
ITM	1.76	183	eP	56 51.00	-0.1
THE	1.83	22	ePn	56 51.60	-0.5
KEK	1.90	295	eP	56 54.00	0.8
FNA	1.91	345	ePnd	56 53.20	-0.1
GRG	2.03	8	ePn	56 55.10	0.0
			eSn	57 25.20	
OUR	2.05	46	ePn	56 54.30	-0.9
			eSn	57 23.10	
TPE	2.07	311	ePn	56 56.00	0.4
SOH	2.13	28	ePnd	56 56.80	0.3
			eSn	57 25.30	
KNT	2.32	16	ePnd	56 59.20	0.1
			eSn	57 31.30	
OHR	2.37	337	ePn	57 01.50	1.6
BERA	2.39	318	ePn	57 04.50	4.4X
VAY	2.41	9	ePn	57 01.70	1.2
SRS	2.48	28	ePn	57 01.00	-0.4
			eSn	57 33.30	
TIR	2.93	326	ePn	57 15.00	7.3X
MMB	2.94	25	iPd	57 08.00	0.0
SKO	3.06	352	ePn	57 08.00	-1.7
RZN	3.42	36	iP	57 15.00	0.0

S.D. = 0.8 on 20 of 22 obs.

? MAY 03, 1990 18h 41m 13.45± 2.89s
37.558 N ±15.6km 15.896 E ±25.1km
DEPTH = 33.0km (normal)
SICILY (398)

ATN	0.69	330	Pc	41 27.00	0.2
			eSn	41 37.10	
MEU	0.90	240	Pc	41 29.80	0.0
			eSn	41 39.90	
MNO	1.02	292	P	41 31.60	-0.1
			eSn	41 43.20	
GIB	1.54	287	P	41 39.00	0.0
			eSn	41 57.00	
MGR	2.59	354	P	41 53.80	-0.1
			eSn	42 23.50	

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

MAY 03, 1990 19h 14m 26.05± 0.28s
0.439 S ± 4.7km 132.820 E ± 7.8km
DEPTH = 22.7km (5 depth phases)
5.2mb (16 obs.) 4.3Msz (3 obs.)
WEST IRIAN REGION (196)

MTN	12.44	188	eP	17 23.00	-1.7
			eS	19 39.00	
KNA	15.73	195	iPd	18 07.00	-1.0
	0.7s		352.00nm	5.7mb	
			eS	20 49.00	
PMG	16.82	122	eP	18 12.20	-9.7X
KKM	17.78	291	ePd	18 35.50	1.5
PGP	18.17	320	eP	18 52.50	13.8X
GUA	18.34	40	eP	18 36.00	-4.8X
GUMO	18.35	40	eP	18 36.70	-4.2X
			e	18 43.00	
QCP	18.96	323	eP	18 32.40	-16.0X
WB5	19.38	176	eP	18 52.30	-1.2
			eS	22 22.30	
WRA	19.44	176	Pc	18 53.30	-0.9
	0.5s		30.70nm	4.8mb	
8AG	20.64	325	eP	19 09.00	1.9
			eS	22 56.00	
QIS	21.07	162	iPc	19 10.10	-1.1
			e	19 14.00	14km
			e	23 03.00	
CTA	23.54	147	iPd	19 37.60	1.8
	1.0s		97.00nm	5.3mb	
			eS	23 56.00	
			i	27 37.50	
MBL	24.19	211	eP	19 43.40	1.4
NANU	27.69	216	iPd	20 16.30	1.6
	0.5s		33.00nm	5.3mb	
RMQ	30.10	151	eP	20 35.00	-1.4
IPM	32.15	279	ePd	20 56.10	1.5
MRWA	32.82	208	eP	21 00.00	-0.1
BRS	32.94	146	iPc	21 00.50	-0.8
	1.0s		7.00nm	4.5mb	
			i	21 07.50	24km
			e	25 00.00	
			e	29 36.00	
SSE	33.25	342	eP	21 04.50	0.7
	Z 22s		0.50um	4.2Msz	
			eS	26 22.00	
NJ2	34.91	339	eP	21 19.00	0.8
COO	35.02	151	eP	21 19.00	-0.2

LOE		35.38	302	iPc	21	22.00	-0.4
WHN		35.47	332	eP	21	24.50	1.6
NST		36.03	298	eP	21	30.20	2.3
GYA		36.75	319	P	21	34.40	0.4
BWA		36.83	158	eP	21	35.40	1.0
MAT		37.13	7	(P)	21	33.00	-3.9X
	Z	20s		0.71um			4.5Msz
BFD		37.64	167	iPd	21	41.70	0.5
CAN		37.84	158	eP	21	43.30	0.4
CHG		38.37	302	iPc	21	48.00	0.4
		1.0s		32.50nm			5.1mb
CHTO		38.37	302	iPd	21	47.90	0.3
		1.0s		32.50nm			5.1mb
				pP	21	53.10	18km
KMI		38.63	313	Pd	21	51.00	1.0
		1.2s		100.00nm			5.4mb
				pP	21	58.50	25km
				eS	27	52.00	
TOO		38.76	164	eP	21	51.80	1.2
TIA		39.28	340	eP	21	55.30	0.4
DL2		40.48	347	eP	22	08.00	3.2X
		1.0s		100.00nm			5.5mb
				S	28	11.00	
				esS	28	23.00	
XAN		40.98	329	P	22	08.00	-1.0
CD2		41.64	321	P	22	14.00	-0.5
TIY		42.38	336	eP	22	20.40	-0.1
	Z	10s		0.60um			4.8MszX
	N	15s		0.30um			
SNY		42.89	350	eP	22	23.50	-1.0
	Z	27s		0.80um			4.5MszX
	N	27s		0.80um			
				S	28	44.00	
BJI		43.06	341	eP	22	25.00	-0.9
		1.0s		48.00nm			5.2mb
	Z	28s		0.35um			4.1MszX
				eS	28	44.00	
CN2		44.54	352	eP	22	37.40	-0.4
	Z	22s		0.40um			4.3Msz
				pP	22	47.00	32km
				eS	29	11.00	
MDJ		44.95	357	eP	22	40.50	-0.6
LZH		45.24	326	P	22	43.60	-0.2
		2.0s		79.00nm			5.3mb
	Z	14s		0.20um			4.2MszX
	N	10s		0.10um			
				pP	22	56.00	45kmX
HHC		45.41	337	Pc	22	46.00	1.0
BTO		45.81	336	eP	22	49.00	0.8
	N	12s		0.30um			
	E	12s		0.30um			
				eS	29	33.00	
GTA		49.85	326	Pc	23	19.20	-0.5
GUN		53.08	306	P	23	43.60	-1.1
DMN		53.59	305	P	23	47.20	-1.1
GKN		54.13	306	P	23	50.80	-1.3
KOD		56.07	283	eP	24	04.00	-2.5
HYB		56.27	291	iPc	24	05.80	-1.8
		1.0s		25.00nm			5.2mb
GBA		56.60	287	Pc	24	07.40	-2.5
		0.8s		4.20nm			4.5mb
WMQ		59.64	324	P	24	30.70	-0.3
NDI		60.48	304	iP	24	35.00	-1.9
		0.6s		13.33nm			5.2mb
QUE		69.50	302	eP	25	35.20	-0.3
MAIO		76.86	307	eP	26	19.00	0.5
SBA		79.45	173	e(P)	26	32.80	1.1
TTA		81.90	26	eP	26	44.00	-1.0
MAW		82.04	201	iPd	26	47.40	1.8
IMA		83.75	23	eP	26	53.50	-1.1
PMR		84.70	28	eP	27	00.30	1.1
FBA		85.89	25	e(P)	27	05.00	-0.1
SPA		89.56	180	iPd	27	23.90	0.9
		1.0s		14.50nm			5.2mb
INK		91.76	22	eP	27	33.00	0.1
MBC		94.62	13	eP	27	45.00	-1.0
YKA		100.66	26	ePdiff	28	13.60	0.1
		0.6s		0.50nm			4.2mb
LKO		137.64	284	PKP	33	50.04	-1.3
NNA		148.07	114	ePKP	34	09.50	0.2
		1.0s		18.00nm			
ARE		150.72	126	ePKP	34	21.00	7.3X
LPB		153.35	130	ePKP	34	19.00	1.4
ZOBO		153.49	130	PKPc	34	19.80	1.8
		1.0s		20.50nm			
CCH		154.26	134	ePKP	34	23.70	5.0X
		S.D. = 1.2		on 64 of 73 obs.			

? MAY 03, 1990 19h 21m 12.36± 4.97s
15.066 N ± 9.3km 60.535 W ±48.5km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 2.8 (FDF).

CRM		0.48	230	iPc	21	22.87	0.2
				S	21	30.90	
MVM		0.62	214	iPd	21	24.51	-0.1
				S	21	33.90	
FDF		0.68	241	iPd	21	25.64	0.1
				S	21	35.90	
BIM		0.75	224	iPd	21	26.51	0.0
				S	21	37.20	
BBL		1.02	297	eP	21	30.00	-0.4
				S	21	43.00	
PAG		1.46	311	eP	21	37.00	0.3
				S	21	55.00	
		S.D. = 0.3		on 6 of 6 obs.			

---

* MAY 03, 1990 19h 54m 29.15± 1.09s
15.616 N ±18.8km 147.854 E ±18.8km
DEPTH = 33.0km (normol)
3.6mb (3 obs.)
MARIANA ISLANDS REGION (215)

GUA		3.52	234	eP	55	22.50	-0.4
				eS	56	05.30	
GUMO		3.53	236	eP	55	22.80	-0.2
PJG		3.53	236	eP	55	23.50	0.5
WRA		37.75	201	P	01	44.00	0.0
		0.4s		0.50nm			3.7mb
CHTO		46.72	281	eP	02	57.20	0.0
		0.6s		0.42nm			3.6mb
YKA		79.73	28	eP	06	35.00	0.0
		0.6s		0.40nm			3.6mb
		S.D. = 0.4		on 6 of 6 obs.			

& MAY 03, 1990 20h 15m 25.98s
59.992 N 152.731 W
DEPTH = 99.5km
SOUTHERN ALASKA (2)
<AGS-P>.

RED		0.43	357	iP	15	40.80	-0.8
RDT		0.61	15	eP	15	42.13	-0.7
AUL		0.71	211	eP	15	42.81	-0.9
AUE		0.71	207	eP	15	42.56	-1.1
NNL		0.72	85	eP	15	44.43	0.6
XLV		0.74	136	eP	15	43.00	-1.0
CNPM		0.89	121	iP	15	44.82	-0.7
				eS	15	59.55	
NKA		1.06	44	iP	15	48.65	1.4
CDD		1.16	204	eP	15	47.66	-0.9
SPU		1.24	15	eP	15	48.94	-0.5
CRP		1.31	12	eP	15	50.10	-0.3
SLKM		1.35	66	eP	15	50.56	-0.3
CGLM		1.37	15	eP	15	50.74	-0.3
NCG		1.44	11	eP	15	51.82	-0.2
SEW		1.65	85	eP	15	53.52	-0.9
SUA		1.77	33	eP	15	56.42	0.3
SVW		1.81	309	eP	15	54.85	-1.8
PMS		2.01	50	eP	15	59.04	-0.1
SKT		2.08	16	eP	15	59.48	-0.6
PWA		2.17	39	eP	16	01.62	0.3
PLRM		2.39	46	eP	16	03.14	-1.0
MTU		2.55	88	eP	16	06.45	0.0
GHO		2.58	45	eP	16	05.87	-1.0
SML		2.82	48	eP	16	09.18	-0.9
GLI		2.93	70	eP	16	08.88	-2.7
		25 obs. ossocioted					

? MAY 03, 1990 20h 19m 21.54± 2.49s
31.761 S ±19.4km 66.807 W ±37.2km
DEPTH = 128.9 ± 23.9 km
LA RIOJA PROVINCE, ARGENTINA (138)

CFA		1.23	277	e(P)	19	46.90	-0.1
RTCV		1.48	266	iPd	19	49.90	0.2
ZON		1.61	277	iPc	19	51.00	-0.3
				eS	20	11.00	
FCH		3.33	241	iPc	20	14.20	0.7
				iS	20	53.90	
PEL		3.56	246	eP	20	15.50	-0.7
				iS	20	56.50	
PCH		3.63	238	iPd	20	18.00	0.7
				iS	20	59.50	
SAN		3.66	242	eP	20	18.00	0.4
				e	20	55.50	
				i	20	59.50	
CHCH		3.89	235	ePc	20	21.00	0.3
				i	21	06.40	
TACH		3.96	240	iPd	20	21.30	-0.3
				iS	21	06.00	
LNV		4.45	239	eP	20	27.00	-1.1
				eS	21	16.00	
ZOBO		15.47	355	P	22	55.00	0.5
SIV		16.55	20	Pd	23	07.00	-0.4
		S.D. = 0.7		on 12 of 12 obs.			

& MAY 03, 1990 20h 19m 49.01s
38.176 N 112.606 W
DEPTH = 16.3km
UTAH (478)
<SLC-P>. CL 3.0 (SLC).

MSU		0.48	45	iPc	19	58.50	-0.3
DUG		2.02	355	e(P)	20	20.00	-3.0
DAU		2.47	25	e(P)	20	27.30	-2.2
		3 obs. ossocioted					

% MAY 03, 1990 20h 24m 35.58± 2.79s
39.236 N ±19.9km 23.520 E ±17.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.2 (THE).

PAIG		0.70	10	ePgd	24	50.60	1.2
				eSg	25	01.00	
AGG		0.95	257	ePgc	24	53.90	0.2
OUR		1.15	18	ePbd	24	57.60	0.5
LIT		1.17	318	ePbd	24	57.80	0.3
				eSb	25	13.90	
THE		1.46	343	ePb	25	01.20	-0.7
SOH		1.59	355	ePbc	25	03.70	-0.1
				eSb	25	26.00	
SRS		1.88	2	ePn	25	06.20	-1.8
GRG		1.92	334	ePnd	25	08.60	-0.1
KNT		1.98	346	ePn	25	10.10	0.6
		S.D. = 1.0		on 9 of 9 obs.			

MAY 03, 1990 21h 05m 15.68± 0.24s
39.599 N ± 3.6km 38.447 E ± 3.3km
DEPTH = 10.0km (geophysicist)
4.6mb (49 obs.) 3.9Msz (2 obs.)
TURKEY (366)
Felt at Elozig.

KAS		3.98	298	eP	06	19.50	1.3
BBTK		4.39	275	ePn	06	25.00	1.0
				i	06	38.00	
				iS	07	39.00	
MSL		4.91	129	ePnd	06	29.50	-1.8
				e	06	35.00	
LFK		5.82	224	iP	06	42.90	-1.3
GPA		6.29	279	eP	06	51.00	0.2
TAB		6.34	101	eP	06	58.00	6.4X
ALT		6.49	268	eP	06	54.40	0.7
HRI		6.68	200	eP	06	57.00	0.6
HRT		6.83	283	eP	07	01.30	2.9X
SLY		6.88	123	ePd	07	02.00	3.0X
				i	07	27.00	
				iS	08	46.00	
				i	09	05.50	
YLV		7.03	281	iP	07	00.90	-0.3
KHL		7.07	262	eP	07	03.00	1.2
RUWJ		7.12	177	Pc	07	00.30	-2.1
SHMJ		7.19	198	Pc	07	03.40	0.0
ATZ		7.23	202	eP	07	04.00	0.0
				eS	09	04.50	
ELL		7.30	250	eP	07	11.00	5.9X
SHBJ		7.32	186	Pc	07	02.90	-2.3
ISK		7.32	285	eP	06	53.00	-12.2X
ZNT		7.85	202	eP	07	12.40	-0.2
				eS	09	19.00	
SALJ		7.90	197	Pc	07	12.80	-0.6
BHD		7.92	141	ePn	07	16.00	2.4
				ePg	07	56.00	
				eSn	09	01.00	
				eS*	09	38.00	
MKRJ		8.35	197	Pc	07	18.80	-0.9
CSTJ		8.58	190	Pc	07	19.00	-3.9X
IZM		8.79	266	eP	07	33.00	7.2X

03d 21h

TLB	9.21	306	eP	07	41.00	9.6X
EZN	9.35	275	eP	07	33.90	0.5
CFR	9.44	310	eP	07	31.00	-3.6X
PRNI	9.66	198	iP	07	38.70	1.0
MBH	10.23	198	eP	07	47.00	1.4
PPE	10.33	313	eP	07	58.00	11.1X
CLI	10.71	314	eP	08	10.00	17.8X
AYN	10.89	191	eP	07	53.00	-1.6
HLW	11.33	213	eP	08	06.00	5.3X
VAY	12.22	283	eP	08	11.30	-1.3
SKO	13.11	286	eP	08	25.80	1.3
	1.5s	51.00nm			5.4mb	
Z	10s	1.56um				
N	13s	2.76um				
E	13s	2.06um				
		i		08	35.00	
		LR		13	55.00	
OHR	13.55	282	eP	08	40.50	10.1X
BUD	16.11	306	eP	09	05.50	1.8
RYD	16.35	153	eP	09	04.30	-2.7X
SRO	16.68	306	eP	09	11.70	0.8
KRA	16.74	315	eP	09	09.50	-2.1
	1.2s	100.00nm			4.8mb	
		e		09	14.20	
		e		09	40.70	
MAIO	16.92	95	eP	09	16.00	1.9
		eS		12	28.00	
TDS	17.03	277	P	09	21.50	6.1X
ZST	17.58	306	eP	09	23.00	0.8
MGR	17.58	279	P	09	29.00	6.7X
PTJ	17.65	298	eP	09	22.40	-0.8
SGO	17.73	281	P	09	27.00	2.9X
ATN	17.95	273	P	09	29.50	2.6
VBY	18.05	297	e(P)	09	34.70	6.7X
VKA	18.09	306	iPc	09	29.30	0.7
	3.0s	157.00nm			4.6mb	
		i		09	36.00	
DUI	18.31	284	P	09	35.50	4.0X
LJU	18.65	298	e(P)	09	41.50	6.0X
CEY	18.66	297	e(P)	09	36.50	0.8
SDI	18.79	284	P	09	38.00	0.7
AZI	19.07	285	P	09	37.50	-3.1X
VOY	19.08	298	e(P)	09	42.80	1.9
TRI	19.12	297	P	09	43.50	2.4
KSP	19.15	313	ePc	09	40.20	-1.4
	1.5s	59.00nm			4.6mb	
KMR	19.41	304	eP	09	45.00	0.2
ARV	19.46	290	P	09	44.80	-0.5
FAI	19.53	271	P	09	48.00	1.8
RDP	19.61	285	P	09	46.00	-1.2
MNS	19.63	286	P	09	47.00	-0.3
ASS	19.65	289	P	09	47.50	0.0
PRU	19.81	309	Pc	09	48.20	-0.9
	1.5s	33.50nm			4.4mb	
Z	16s	0.80um				
E	14s	0.60um				
		e		10	07.20	
		eS		13	32.00	
FVI	19.95	299	P	09	49.50	-1.0
KHC	20.09	306	iP	09	51.00	-1.1
	1.0s	14.00nm			4.2mb	
BHG	20.13	302	iPc	09	52.20	-0.3
CRE	20.18	290	P	09	47.50	-5.7X
PGD	20.36	291	Pd	09	56.20	1.1
BRG	20.51	311	iP	09	55.20	-1.2
	2.0s	66.00nm			4.6mb	
		i		10	15.00	
WET	20.53	306	iPc	09	55.30	-1.4
	1.3s	29.00nm			4.5mb	
CTI	20.63	297	P	09	57.00	-0.8
SQTA	21.13	300	iPd	10	02.50	-0.5
	1.0s	42.00nm			4.8mb	
		i		10	05.20	
		i		10	25.80	
BDI	21.18	291	P	09	58.50	-4.9X
OGA	21.19	299	eP	10	03.90	0.3
PII	21.22	290	P	10	06.00	2.3
CLL	21.23	312	iPc	10	03.20	-0.6
	1.7s	115.00nm			5.0mb	
		i		10	07.50	
FUR	21.29	303	eP	10	03.60	-0.8
SAL	21.35	295	P	10	05.40	0.4
GRF	21.73	307	iPc	10	08.60	-0.3
Z	22s	0.30um			3.7Msz	
		e		10	11.60	
OSS	21.76	298	ePc	10	10.60	1.3
MOX	21.80	309	eP	10	10.00	0.5
	1.6s	37.00nm			4.6mb	
Z	15s	1.20um			4.4MszX	
		e		14	15.00	
MDI	21.94	296	P	10	10.50	-0.4
BOB	22.04	293	P	10	14.00	1.9
SAX	22.38	300	ePc	10	16.30	0.6
TMA	22.55	296	ePc	10	18.70	1.4
LLS	22.56	298	ePc	10	18.00	0.6
VAI	22.60	296	P	10	17.90	0.4
NUR	22.64	342	iP	10	17.00	-0.7
	1.0s	50.00nm			5.0mb	
		i		10	21.10	
CKI	22.86	292	P	10	25.50	5.4X
FIN	22.90	291	P	10	24.44	3.9X
SLE	23.04	301	ePc	10	22.40	0.5
ZLA	23.06	300	ePc	10	22.60	0.5
ROB	23.15	292	P	10	25.67	2.7
MMK	23.18	296	ePc	10	24.40	0.9
FEL	23.38	301	eP	10	24.82	-0.4
SBF	23.46	291	eP	10	26.50	0.5
	1.2s	23.80nm			4.6mb	
ENR	23.47	291	P	10	25.98	-0.2
STV	23.54	292	P	10	27.21	0.4
DIX	23.56	296	ePc	10	27.50	0.2
COP	23.58	322	iPd	10	28.00	1.0
	0.9s	77.31nm			5.3mb	
TNS	23.60	307	ePc	10	27.70	0.4
DOI	23.60	292	P	10	27.30	-0.1
RSP	23.61	294	P	10	29.47	1.9
LSD	23.70	295	P	10	29.16	0.6
EMS	23.89	296	ePc	10	30.20	-0.2
RRL	23.94	293	P	10	30.90	0.1
CDF	23.95	302	eP	10	29.70	-1.1
LPG	23.98	295	eP	10	31.70	0.3
	1.2s	38.70nm			4.9mb	
LPL	24.00	295	eP	10	31.70	0.3
	1.0s	18.00nm			4.6mb	
BNI	24.02	294	P	10	32.20	0.7
FRF	24.03	290	eP	10	31.80	0.3
	1.0s	18.00nm			4.6mb	
ABH	24.08	305	eP	10	31.60	-0.3
UPP	24.14	334	iP	10	32.00	-0.3
		i		10	40.40	
LMR	24.14	289	eP	10	32.80	0.3
	1.2s	11.90nm			4.4mb	
BSF	24.18	300	eP	10	31.00	-2.0
	1.0s	12.00nm			4.5mb	
LRG	24.25	290	eP	10	33.90	0.4
	1.2s	17.85nm			4.6mb	
SUF	24.31	346	eP	10	34.00	0.0
RUP	24.34	305	eP	10	33.99	-0.5
HAU	24.50	301	eP	10	34.20	-1.9
	1.0s	16.00nm			4.6mb	
WTS	25.08	310	eP	10	43.00	1.5
	1.0s	18.00nm			4.7mb	
QUE	25.11	103	eP	10	42.00	-0.2
MEM	25.21	307	Pc	10	45.10	2.4
ENN	25.30	307	eP	10	45.00	1.4
	1.0s	65.00nm			5.3mb	
		e		10	49.00	
		e		10	56.00	
WIT	25.42	312	eP	10	46.00	1.3
		e		10	51.00	
HFS	25.74	331	eP	10	46.50	-1.1
	1.1s	39.40nm			5.0mb	
Z	17s	0.23um			3.8MszX	
		LR		20	42.00	
DOU	25.99	305	iPc	10	51.30	1.3
		S		15	43.00	
LBF	25.99	298	eP	10	48.80	-1.4
	0.6s	6.30nm			4.5mb	
SMF	26.07	297	eP	10	49.90	-1.0
	0.8s	9.40nm			4.5mb	
LOR	26.10	298	eP	10	50.00	-1.1
	0.8s	12.75nm			4.7mb	
SSF	26.32	298	eP	10	52.10	-1.1
	0.6s	5.40nm			4.4mb	
AVF	26.41	297	eP	10	52.60	-1.4
	0.8s	12.10nm			4.6mb	
BGF	26.75	297	eP	10	55.50	-1.6
	1.0s	9.00nm			4.4mb	
MAF	26.93	296	eP	10	58.00	-0.8
	1.0s	10.00nm			4.5mb	
TCF	27.18	296	eP	11	00.20	-0.9
	0.8s	4.05nm			4.2mb	
NB2	27.26	331	P	10	59.80	-1.9
	0.9s	5.80nm			4.3mb	
LSF	27.65	296	eP	11	04.10	-1.3
	0.8s	4.05nm			4.2mb	
SOD	28.59	350	iP	11	34.00	20.4X
KSH	28.82	78	P	11	21.00	4.9X
LDF	28.86	301	eP	11	14.10	-2.1
	0.6s	3.60nm			4.3mb	
FLN	29.11	301	eP	11	16.10	-2.3
GRR	29.34	300	eP	11	18.40	-2.1
	0.6s	12.65nm			4.9mb	
LPF	29.44	300	eP	11	19.30	-2.2
	0.6s	3.60nm			4.4mb	
EKA	31.67	314	Pc	11	39.70	-1.3
	0.9s	4.20nm			4.4mb	
TOL	32.45	284	eP	11	48.00	-0.1
NDI	33.65	97	eP	12	02.00	3.4X
BCAO	39.37	212	iPc	12	45.90	-1.2
	0.3s	10.00nm			5.0mb	
		id		12	52.70	
GKN	39.69	92	P	12	49.40	-0.5
DMN	40.25	93	P	12	54.00	-0.6
GUN	40.70	92	P	12	59.00	0.6
GBA	42.92	116	Pc	13	18.60	2.3
	0.9s	3.10nm			4.0mb	
SHL	46.51	91	iP	13	47.00	1.7
LZH	50.74	72	Pc	14	21.80	3.9X
	1.5s	42.00nm			5.2mb	
Z	18s	0.20um			4.2Msz	
		sP		14	25.90	
CD2	52.99	78	P	14	38.20	3.4X
BTO	53.31	64	eP	14	39.20	2.1
HHC	54.28	63	eP	14	44.40	0.2
XAN	55.38	72	P	14	54.00	1.8
CHG	55.67	93	eP	14	57.00	2.5
CHTO	55.67	93	eP	14	55.20	0.7
	1.0s	5.25nm			4.5mb	
TIY	56.24	66	Pd	14	58.30	-0.1
BJI	57.80	62	eP	15	09.00	-0.3
WHN	61.09	73	eP	15	30.50	-1.7
FRB	62.08	331	eP	15	37.00	-1.4
CN2	62.15	55	eP	15	38.00	-1.2
IMA	74.25	5	P	16	53.80	-0.5
	1.2s	6.63nm			4.5mb	
MAT	74.28	56	(P)	16	43.00	-11.9X
FBA	75.72	3	P	17	02.50	-0.1
	0.9s	11.67nm			5.0mb	
YKA	75.97	347	eP	17	02.00	-2.0
	1.2s	7.50nm			4.7mb	
PMR	78.97	4	P	17	19.50	-1.1
	0.8s	10.34nm			4.9mb	
FFC	80.12	338	iPc	17	26.90	-0.1
	0.7s	8.00nm			4.8mb	
RSON	80.65	332	P	17	28.70	-1.2
	1.5s	17.28nm			4.8mb	
SES	86.46	341	ePc	17	59.50	-0.1
NEW	89.87	344	P	18	16.00	0.0
	0.9s	18.91nm			5.3mb	
GMW	91.64	347	P	18	25.30	1.2
LON	92.24	347	P	18	27.00	0.0

S.D. = 1.2 on 144 of 175 obs.

---

* MAY 03, 1990 21h 31m 13.37± 0.80s
42.175 N ± 6.4km 19.630 E ± 7.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (TTG).

ULC	0.35	233	ePg	31	20.50	-0.2
			eSg	31	27.00	
TTG	0.37	313	ePg	31	21.30	0.3
			eSg	31	28.30	
PVY	0.49	31	ePg	31	23.50	0.1
			eSg	31	31.30	
IVA	0.72	16	ePg	31	27.30	-0.4
			eSg	31	38.50	
OHR	1.38	140	eP	31	38.80	0.1

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

% MAY 03, 1990 22h 10m 29.52± 0.90s
41.175 N ±10.2km 14.797 E ±16.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.38	179	P	10	37.30	-0.1
			eSg	10	45.70	
DUI	0.55	332	P	10	40.50	-0.1
			eSg	10	50.10	
SGO	0.73	148	P	10	44.10	0.3

			eSg	10 54.50		
SDI	0.91	306	P	10 47.10	0.1	
			eSg	11 01.20		
MGR	1.19	151	P	10 51.40	-0.2	
			eSg	11 08.60		
	S.D. = 0.3		on 5 of 5 obs.			

% MAY 03, 1990 22h 13m 27.18± 1.23s
41.242 N ±11.4km 14.881 E ±17.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.45	187	P	13 36.90	0.5	
			eSg	13 42.60		
DUI	0.53	323	P	13 38.50	0.7	
			eSg	13 45.90		
SGO	0.76	154	P	13 41.90	0.0	
			eSg	13 53.40		
SDI	0.92	300	P	13 44.10	-0.8	
			eSg	13 58.00		
MGR	1.22	155	P	13 49.50	-0.3	
			eSg	14 06.00		
	S.D. = 0.8		on 5 of 5 obs.			

• MAY 03, 1990 22h 25m 38.76± 2.99s
34.517 N ±23.5km 120.523 W ±11.4km
DEPTH = 5.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
ML 2.5 (BRK).

BCH	0.76	28	iPd	25 54.10	0.1	
ABL	1.12	72	eP	26 00.30	-0.1	
PHAM	1.32	4	eP	26 03.00	-0.6	
PRI	1.62	356	eP	26 08.40	0.2	
PRS	1.94	339	eP	26 12.90	0.2	
LLA	2.12	351	eP	26 15.70	0.3	
SAO	2.37	342	eP	26 18.40	-0.5	
FRI	2.56	15	eP	26 21.80	0.3	
			eS	26 50.40		
KVN	4.92	23	eP	27 05.00	9.6X	
	S.D. = 0.4		on 8 of 9 obs.			

% MAY 03, 1990 22h 34m 06.41± 0.87s
41.165 N ±10.6km 14.766 E ±17.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.38	175	P	34 14.30	0.2	
			eSg	34 21.00		
DUI	0.55	335	P	34 17.60	0.1	
			eSg	34 26.10		
SGO	0.73	146	P	34 21.20	0.4	
			eSg	34 31.30		
SDI	0.90	307	P	34 23.50	-0.1	
			eSg	34 37.50		
MGR	1.19	149	Pc	34 28.00	-0.6	
			eSg	34 45.00		
	S.D. = 0.5		on 5 of 5 obs.			

MAY 03, 1990 22h 39m 50.87± 0.80s
24.674 N ± 7.5km 122.521 E ± 9.1km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
TAIWAN REGION (243)

TWC	0.61	264	ePc	40 02.20	-0.9	
			eS	40 11.20		
TWZ	0.95	296	ePc	40 08.20	0.3	
			eS	40 21.90		
TWD	1.03	235	ePc	40 09.40	0.4	
ANP	1.04	299	eP	40 10.00	0.7	
			eS	40 23.00		
TWK	2.33	233	eP	40 30.20	2.5X	
OZH	3.58	275	Pn	40 46.00	0.6	
			Sn	41 28.50		
SSE	6.50	350	eP	41 22.00	-4.7X	
Z	10s	0.50um				
N	12s	0.40um				
			sP	41 36.00		
NJ2	8.03	337	Pc	41 46.80	-1.3	
N	10s	0.40um				
E	10s	0.60um				
GYA	14.42	280	eP	43 10.20	-4.6X	
TIY	15.59	329	eP	43 29.00	-0.8	
Z	14s	0.70um				
N	16s	0.80um				
BTO	19.02	330	eP	44 16.50	3.8X	
N	13s	0.30um				
E	13s	0.60um				
CN2	19.23	6	P	44 16.40	1.3	
LZH	19.69	310	eP	44 16.80	-3.6X	
	2.0s	33.00nm		4.3mb		
Z	12s	0.30um				
E	10s	0.20um				
WB5	45.76	164	eP	48 10.90	-0.2	
WRA	45.82	164	Pc	48 11.40	-0.2	
	0.9s	5.90nm		4.5mb		
	S.D. = 0.9		on 10 of 15 obs.			

% MAY 03, 1990 23h 14m 50.50± 1.08s
41.219 N ±10.8km 14.846 E ±17.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.43	184	P	14 59.50	0.2	
			eSg	15 06.00		
DUI	0.53	327	P	15 01.50	0.3	
			eSg	15 10.50		
SGO	0.75	152	P	15 05.50	0.4	
			eSg	15 16.20		
SDI	0.91	302	P	15 07.70	-0.3	
			eSg	15 21.50		
MGR	1.21	153	P	15 12.40	-0.6	
			eSg	15 29.00		
	S.D. = 0.6		on 5 of 5 obs.			

MAY 04, 1990 00h 19m 33.39± 0.56s
43.073 N ± 7.2km 0.651 W ± 4.3km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ATE	0.04	290	Pg	19 35.35	-0.2	
			Sg	19 37.18		
ESCF	0.06	84	Pg	19 35.51	-0.1	
			Sg	19 37.33		
ISSF	0.11	247	Pg	19 37.11	0.7	
			Sg	19 39.75		
MADF	0.14	301	Pg	19 36.11	-0.7	
			Sg	19 38.82		
LHE	0.16	172	Pg	19 37.62	0.5	
OGE	0.16	54	Pg	19 36.29	-0.8	
JAU	0.21	99	Pg	19 37.51	-0.5	
BOH	0.27	277	Pg	19 38.41	-0.6	
EPF	0.73	93	Pg	19 47.50	-0.2	
			Sg	19 56.60		
LFF	2.12	28	Pg	20 11.30	2.0	
			Sg	20 38.10		
	S.D. = 1.0		on 10 of 10 obs.			

% MAY 04, 1990 00h 37m 55.66± 1.00s
41.173 N ±10.0km 14.855 E ±16.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.38	185	P	38 03.70	0.2	
			eSg	38 10.20		
DUI	0.57	329	P	38 07.50	0.2	
			eSg	38 15.50		
SGO	0.70	151	P	38 09.80	0.3	
			eSg	38 20.80		
SDI	0.95	305	P	38 13.50	-0.2	
			eSg	38 29.00		
MGR	1.16	153	P	38 17.00	-0.4	
			eSn	38 33.30		
	S.D. = 0.4		on 5 of 5 obs.			

• MAY 04, 1990 01h 22m 29.01± 0.78s
39.621 N ±16.6km 70.607 E ±13.9km
DEPTH = 33.0km (normal)
4.1mb (10 obs.)
TAJIK SSR (715)
Felt (V) ot Dushanbe.

MAIO	9.38	253	eP	24 46.00	1.0	
			eS	26 35.00		
GKN	16.41	131	P	26 20.00	1.4	
	0.8s	40.00nm		4.6mb		
GUN	17.22	128	P	26 34.20	5.2X	
	0.8s	43.00nm		4.6mb		
GBA	26.61	165	Pd	28 05.30	-0.9	
	0.7s	1.40nm		3.7mb		
CHTO	32.05	122	e(P)	28 54.10	-0.8	
	0.5s	0.38nm		3.6mb		
HFS	40.45	320	ePKP	30 06.70	1.0	
	0.6s	1.20nm		3.8mb		
NB2	41.73	321	P	30 17.80	1.6	
	0.8s	2.00nm		3.9mb		
AVF	48.19	302	eP	31 06.70	-1.3	
	0.8s	2.70nm		4.3mb		
MAF	48.88	301	eP	31 12.60	-0.7	
	0.8s	3.35nm		4.4mb		
TCF	49.09	301	eP	31 13.80	-1.2	
	0.6s	2.25nm		4.4mb		
MBC	64.24	3	eP	33 10.50	8.1X	
YKA	78.15	2	eP	34 32.50	6.6X	
	0.6s	0.90nm		4.8mb		
	S.D. = 1.4		on 9 of 12 obs.			

? MAY 04, 1990 02h 00m 01.04± 1.41s
85.312 N ±23.3km 91.040 E ±16.1km
DEPTH = 10.0km (geophysicist)
4.0mb (4 obs.)
NORTH OF SEVERNAYA ZEMLYA (651)

DAG	15.55	306	iPc	03 41.20	-0.2	
	0.8s	7.46nm		4.8mb		
MBC	18.07	23	eP	04 15.00	1.8	
KEV	18.77	257	eP	04 28.00	6.3X	
SUF	25.76	254	eP	05 32.00	-0.9	
FBA	27.97	51	eP	05 54.00	1.0	
	1.0s	1.00nm		3.6mb		
NUR	28.07	254	eP	05 38.00	-15.9X	
YKA	31.98	22	eP	06 27.20	-1.5	
	0.9s	1.90nm		4.0mb		
EKA	35.47	281	Pc	07 00.20	1.3	
	1.1s	2.60nm		4.0mb		
KRA	38.82	257	eP	07 27.80	0.7	
RSSD	50.64	14	eP	09 01.00	-1.0	
ALQ	59.75	17	eP	10 06.80	-1.3	
	S.D. = 1.4		on 9 of 11 obs.			

• MAY 04, 1990 02h 09m 50.14± 0.94s
50.696 N ±12.0km 5.701 E ± 6.7km
DEPTH = 10.0km (geophysicist)
BELGIUM (541)
ML 2.7 (LDG).

ENN	0.16	63	iPgc	09 53.20	-0.6	
	0.5s	35.00nm				
			iSg	09 57.00		
MEM	0.21	114	iPc	09 55.71	1.0	
SNF	0.92	259	iP	10 09.58	1.9	
			iS	10 25.60		
DOU	0.93	230	P	10 11.10	3.2X	
			iS	10 27.90		
LOR	3.64	200	Pn	10 47.60	-0.1	
SSF	3.92	203	Pn	10 51.70	0.1	
FLN	4.45	247	Pn	10 58.70	-0.5	
			Sn	11 46.80		
BGF	4.55	206	Pn	11 00.00	-0.6	
GRR	4.86	244	Pn	11 03.80	-1.1	
	S.D. = 1.2		on 8 of 9 obs.			

MAY 04, 1990 02h 59m 23.86± 2.26s
1.481 N ± 4.9km 123.585 E ± 6.4km
DEPTH = 30.0 ± 17.0 km
5.0mb (12 obs.) 4.4Msz (3 obs.)
MINAHASSA PENINSULA (265)

DAV	5.91	20	eP	00 52.00	0.3	
TSM	6.14	296	iPd	00 55.20	0.2	
KKM	8.64	302	eP	01 30.00	0.0	
KNA	17.87	164	eP	03 32.60	0.6	
QIZ	22.03	323	eP	04 21.70	3.9X	
N	13s	1.60um				
			eS	08 19.00		
			sS	08 25.00		
			SS	08 57.00		
IPM	22.73	278	ePd	04 26.00	1.2	
MBL	22.80	189	eP	04 23.80	-1.6	
GZH	23.67	336	eP	04 37.00	3.2X	
N	13s	1.10um				
E	13s	1.40um				
WB5	23.72	154	eP	04 34.00	-0.3	
WRA	23.76	154	Pc	04 34.60	-0.2	
	0.7s	37.60nm		5.0mb		
GUA	24.27	59	eP	04 19.70	-20.0X	
NANU	25.15	198	eP	04 47.00	-1.1	
	0.3s	9.00nm		4.9mb		
PMG	25.85	115	eP	04 54.00	-0.7	

04d 03h

QIS	26.94	145	iPc	05	04.20	-0.6
	0.8s	40.00nm			5.1mb	
CHG	29.67	307	ePc	05	29.80	0.4
	0.9s	12.60nm			4.7mb	
CHTO	29.67	307	eP	05	29.00	-0.4
GYA	29.69	328	P	05	36.20	6.5X
N	15s	1.30um				
E	15s	0.70um				
		S		10	30.00	
CD2	34.77	329	P	06	14.00	0.1
Z	20s	0.50um			4.3Msz	
		S		11	44.00	
XAN	35.18	339	P	06	18.00	0.7
N	14s	1.20um				
		S		11	50.00	
MAT	37.42	20	eP	06	35.00	-1.2
	1.6s	60.00nm			5.2mb	
Z	20s	0.71um			4.5Msz	
		(S)		12	18.00	
TIY	37.49	345	Pd	06	37.60	0.8
Z	16s	0.80um			4.6MszX	
N	12s	0.80um				
		S		12	29.00	
SHL	38.81	311	iP	06	48.00	-0.2
BJI	38.97	351	eP	06	49.00	-0.1
	1.0s	16.00nm			4.7mb	
Z	16s	0.35um			4.3MszX	
N	15s	1.02um				
		eS		12	44.00	
		eSS		15	32.00	
LZH	38.99	334	P	06	50.70	1.1
	2.0s	47.00nm			4.9mb	
Z	14s	1.20um			4.9MszX	
N	15s	0.70um				
E	13s	0.60um				
		PP		08	22.50	
		eS		12	46.00	
		eSS		15	29.00	
BRS	40.16	138	iPc	06	59.00	-0.2
	0.8s	4.00nm			4.2mb	
SNY	40.17	360	eP	06	57.20	-1.7
Z	22s	0.80um			4.5Msz	
N	24s	0.80um				
HHC	40.67	346	eP	07	04.30	1.0
BTO	40.83	344	eP	07	03.50	-1.1
N	15s	0.80um				
E	12s	0.30um				
		eS		13	13.00	
BWA	42.65	149	eP	07	21.80	2.3
GTA	43.53	333	Pc	07	28.00	1.2
Z	15s	0.90um			4.8MszX	
E	13s	0.50um				
CAN	43.65	149	eP	07	28.30	0.7
GUN	44.61	310	P	07	35.80	-0.2
	0.6s	23.00nm			5.2mb	
PKI	44.81	309	P	07	43.80	6.2X
	0.6s	23.00nm			5.2mb	
DMN	45.07	309	P	07	40.00	0.5
KOD	46.64	283	eP	07	51.80	-0.3
HYB	46.99	293	eP	07	54.50	-0.1
GBA	47.20	287	Pc	07	55.20	-1.0
	0.8s	6.20nm			4.7mb	
QUE	60.73	304	eP	09	34.50	-1.1
MAIO	68.41	309	iPc	10	25.00	-0.3
		eS		19	32.00	
MAW	80.58	200	iP	11	35.10	0.5
KEV	90.91	340	eP	12	33.00	7.3X
SPA	91.47	180	eP	12	29.10	0.6
	1.5s	22.73nm			5.3mb	
SUF	92.11	333	eP	12	30.00	-1.3
PEL	145.77	158	ePKP	19	02.80	1.0
ZOBO	161.32	143	PKP	19	25.00	0.9
S.D. = 0.9 on 39 of 45 obs.						

---

* MAY 04, 1990 04h 00m 45.33± 1.05s
38.805 N ± 7.5km 31.297 E ±10.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.96	285	iPg	01	02.70	-0.9
			iSg	01	15.00	
BCK	1.45	203	ePn	01	11.30	-0.4
KHL	1.47	251	ePn	01	11.00	-1.0
BBTK	1.54	47	eP	01	12.00	-0.9
			iS	01	38.00	
GPA	1.67	333	iPn	01	14.10	-0.6
YLV	2.30	320	iPn	01	23.40	-0.6
ELL	2.33	209	ePn	01	26.00	1.6
HRT	2.37	329	ePn	01	24.50	-0.4
GBZT	2.44	325	eP	01	28.30	2.5
KCT	2.69	303	iPn	01	36.40	6.9X
ISK	2.84	323	ePn	01	33.00	1.5
EZN	3.99	286	ePn	01	47.00	-0.8
S.D. = 1.4 on 11 of 12 obs.						

& MAY 04, 1990 04h 03m 08.09s
39.527 N 111.101 W
DEPTH = 1.3km
UTAH (478)
<SLC-P>. CL 3.0 (SLC).

DAU	0.89	352	eP	03	25.00	-0.9
MSU	1.31	220	eP	03	32.00	-1.4
DUG	1.48	297	eP	03	35.30	-0.7
3 obs. associated						

? MAY 04, 1990 04h 17m 26.68± 2.73s
17.356 S ±38.0km 72.638 W ±15.2km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
NEAR COAST OF PERU (115)
Felt (II) at Arequipo.

ARE	1.41	51	iPd	17	49.50	-1.1
			i(S)	18	01.80	
LPB	4.42	80	P	18	40.00	6.4X
ZOBO	4.46	77	eP	18	35.80	1.5
Z	20s	0.09um				
		i		18	39.00	
		LR		19	12.00	
CCH	6.20	91	P	19	04.70	6.0X
		i		19	34.00	
NNA	6.71	322	eP	19	06.50	0.9
0.7s	18.49nm				5.0mb	
		eS		20	23.70	
SIV	11.17	85	P	20	07.00	-0.2
YKA	86.15	342	eP	30	04.20	-1.2
0.5s	0.30nm				3.8mb	
S.D. = 1.7 on 5 of 7 obs.						

? MAY 04, 1990 04h 28m 49.21± 2.43s
12.057 N ±27.4km 92.592 E ±13.4km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
ANDAMAN ISLANDS REGION (703)

CHG	9.09	42	eP	31	03.00	1.8
CHTO	9.09	42	eP	31	00.30	-0.9
SHL	13.46	357	eP	31	58.60	-1.9
			iS	34	19.00	
HYB	14.58	293	eP	32	15.00	-0.2
GBA	14.86	278	Pd	32	19.20	0.5
0.5s	4.50nm				4.1mb	
DMN	16.99	337	P	32	46.80	0.5
GKN	17.53	336	P	32	54.20	1.3
QUE	29.84	311	eP	35	08.30	12.3X
NB2	75.36	330	P	40	29.90	-1.2
0.7s	1.30nm				4.0mb	
EKA	83.44	325	P	41	27.00	12.4X
1.0s	2.40nm					
S.D. = 1.5 on 8 of 10 obs.						

% MAY 04, 1990 05h 51m 21.98± 1.40s
1.083 S ± 9.9km 78.298 W ±28.4km
DEPTH = 33.0km (normal)
ECUADOR (107)

TUNG	0.36	204	iP	51	30.80	-0.1
			S	51	36.20	
VC1	0.45	347	iP+	51	30.80	-1.6
			eS	51	36.00	
GECU	0.77	8	eP	51	36.20	-0.7
			eS	51	45.60	
QUR	0.93	346	eP	51	39.60	0.5
			eS	51	51.70	
GGP	0.95	342	eP	51	40.60	1.1
			eS	51	52.80	
CAYA	1.20	15	P	51	43.60	0.6
S.D. = 1.2 on 6 of 6 obs.						

MAY 04, 1990 06h 57m 41.86± 0.34s
38.926 N ± 3.5km 15.806 E ± 3.0km
DEPTH = 105.6 ± 5.7 km
3.5mb (3 obs.)

SICILY (398)

MSI	0.75	195	Pd	58	00.00	-0.4
ATN	0.81	200	Pd	57	59.90	-1.2
			eSg	58	13.60	
TDS	0.84	29	Pd	58	01.80	0.5
			iSg	58	14.50	
MGR	1.23	351	Pc	58	05.70	0.2
			eSg	58	23.50	
ORI	1.24	23	Pd	58	05.90	0.2
			eSg	58	24.50	
MNO	1.32	222	Pd	58	07.10	0.2
			eSg	58	24.00	
SGO	1.67	347	P	58	12.20	1.3
GIB	1.68	237	Pc	58	10.80	-0.4
			eSg	58	32.50	
MEU	1.95	201	P	58	14.10	-0.5
BSS	2.01	338	P	58	16.00	0.7
LCI	2.17	49	Pc	58	18.40	1.0
			eSg	58	44.10	
BRT	2.23	28	Pd	58	17.10	-1.0
			eSg	58	43.30	
BAI	2.34	20	P	58	19.00	-0.5
DUI	2.92	340	P	58	28.50	1.0
SDI	3.17	332	P	58	31.50	0.7
KEK	3.19	75	eP	58	31.60	0.5
			eS	59	05.60	
SRN	3.39	72	ePn	58	34.00	0.3
TPE	3.52	66	ePn	58	34.40	-1.2
AZI	3.55	330	P	58	35.50	-0.5
IGT	3.57	79	ePgd	58	36.70	0.5
TIR	3.94	51	iPnd	58	40.70	-0.6
ULC	4.01	40	ePn	58	40.80	-1.5
			eSn	59	20.00	
LACI	4.03	47	ePn	58	42.50	0.0
BDV	4.07	33	ePn	58	41.40	-1.6
			eSn	59	22.00	
HCY	4.07	29	ePn	58	41.20	-1.8
			eSn	59	23.50	
SDA	4.18	41	ePn	58	43.80	-0.7
TTG	4.38	36	ePn	58	46.30	-0.9
			eSn	59	32.80	
OHR	4.41	59	iPn	58	48.30	0.5
BRY	4.48	27	ePn	58	47.50	-1.3
			eSn	59	34.00	
FNA	4.67	65	ePbd	58	52.30	0.9
ASS	4.77	331	P	58	52.50	-0.3
PVY	4.84	39	ePn	58	53.80	0.0
			eSn	59	42.00	
ARV	5.05	336	P	58	58.00	1.4
AGG	5.09	87	ePbc	58	58.80	1.7
ITM	5.14	108	eP	58	58.00	0.2
PLE	5.17	30	ePn	58	58.60	0.4
			eSn	59	50.00	
LIT	5.30	75	ePbc	59	00.50	0.4
GRG	5.46	66	ePnc	59	02.50	0.2
VAY	5.71	63	ePn	59	05.60	0.0
THE	5.77	71	ePnc	59	06.20	-0.3
NEO	5.78	84	eP	59	07.00	0.3
KNT	5.88	65	ePnc	59	08.10	0.0
VLI	6.06	109	iPc	59	12.00	1.5
PAIG	6.18	78	ePnc	59	11.10	-1.0
ATH	6.28	96	eP	59	14.50	1.0
			eS	00	20.00	
KKB	6.28	60	iPc	59	14.00	0.4
SRS	6.36	67	ePnc	59	13.80	-0.9
OUR	6.47	75	ePnd	59	15.80	-0.2
MMB	6.62	64	iPd	59	19.00	0.8
VTS	6.71	55	iP	59	20.00	0.5
PTJ	6.97	1	eP	59	50.50	27.5X
PGB	7.31	58	iP	59	27.00	-0.6
RZN	7.35	65	iPd	59	29.00	0.7
VAM	7.57	115	eP	59	30.00	-1.1
ALN	8.11	73	eP	59	37.80	-0.7
HFS	21.27	357	eP	02	21.20	0.3
0.4s	1.50nm				3.7mb	
NB2	22.32	354	P	02	31.80	0.5
0.7s	1.60nm				3.5mb	
YKA	71.37	338	eP	08	50.70	-1.0
0.4s	0.20nm				3.3mb	
S.D. = 0.9 on 57 of 58 obs.						

& MAY 04, 1990 07h 09m 58.40s
60.907 N 150.732 W
DEPTH = 40.4km
KENAI PENINSULA, ALASKA (14)
<AGS-P>. ML 3.5 (PMR).

NKA	0.30	237	iP	10	08.32	1.7			iSg	28	15.00				eSn	30	32.50		
SLKM	0.47	148	iP	10	08.59	-0.3	ATH	2.70	100	ePn	27	40.50	-1.0	LJU	8.69	332	ePn	29	04.00	-1.4
SUA	0.56	359	iP	10	09.42	-0.7	VLI	2.71	130	ePb	27	46.00	4.4X				eSn	30	36.50	
			eS	10	18.83		TIR	2.88	353	iPnc	27	45.70	1.6	TRI	8.72	328	e(Pn)	29	03.50	-2.2
PMS	0.66	59	iPc	10	10.90	-0.5	GRG	2.93	32	eP	27	45.40	0.5				e(Sn)	30	39.50	
SPU	0.70	294	iP	10	11.27	-0.7				eS	28	21.20		VRI	8.76	31	eP	29	21.00	14.6X
			eS	10	21.82		THE	2.95	42	ePd	27	44.90	-0.1	VOY	8.93	330	iPnd	29	06.70	-2.0
CRP	0.78	298	iP	10	12.77	-0.4				eS	28	21.50					eSn	30	39.70	
NCG	0.85	306	iP	10	13.56	-0.6	PAIG	2.96	60	ePc	27	44.10	-1.1	FVI	9.84	328	P	29	20.40	-0.6
PWA	0.85	29	iPc	10	13.60	-0.4				eS	28	21.10		CTI	9.93	322	P	29	20.10	-2.4
RDT	0.89	249	iP	10	13.75	-0.9	GRI	3.10	277	P	27	47.72	0.5	BOB	10.29	311	P	29	29.00	1.6
			iS	10	26.52		LACI	3.19	351	iPnd	27	49.00	0.6	MDI	10.74	316	P	29	33.50	0.1
NNL	0.91	198	eP	10	15.50	0.6	VAY	3.31	30	iPn	27	49.80	-0.3	CKI	10.82	307	P	29	34.50	-0.1
SEW	1.03	141	eP	10	15.53	-0.9				i	27	55.00		DOI	11.52	306	P	29	46.00	2.0
PLRM	1.04	48	iP	10	15.67	-0.9	KNT	3.32	35	eP	27	50.20	-0.1	KHC	11.71	338	eP	29	44.50	-1.9
			eS	10	28.76					eS	28	30.10		PRU	12.23	342	eP	29	51.40	-1.9
PMR	1.04	48	iPc	10	15.70	-0.9	TDS	3.34	292	P	27	52.00	1.4	HFS	22.08	351	eP	31	51.60	0.3
RED	1.12	245	iP	10	17.00	-0.9				eSn	28	36.50			0.7s		10.60nm			4.4mb
			eS	10	32.22		OUR	3.36	56	eP	27	50.20	-0.7	Z	15s		0.05um			3.1MszX
SKT	1.14	341	iP	10	17.14	-1.1				eS	28	30.40					LR	40	45.00	
			eS	10	33.43		BRT	3.41	316	P	27	52.10	0.6	NUR	22.21	6	eP	31	52.00	-0.6
GHO	1.23	44	iP	10	18.74	-0.7	ORI	3.41	299	P	27	53.00	1.3	EKA	23.10	324	Pc	32	03.30	1.9
			eS	10	35.67		ULC	3.57	347	ePn	27	53.00	-0.9	NB2	23.29	349	P	32	04.80	1.5
CNPM	1.41	191	iP	10	21.60	-0.4				eSn	28	33.00			0.5s		1.90nm			3.8mb
			eS	10	40.03		SKO	3.58	13	iPn	27	54.50	0.5	SUF	24.52	6	iP	32	16.20	1.1
SML	1.47	51	iP	10	21.92	-0.9				i	28	05.50			0.5s		4.80nm			4.3mb
			eS	10	41.63					i	28	10.50		BCAO	33.93	183	iPc	33	40.00	0.1
CUT	1.52	8	iP	10	23.24	-0.2	SDA	3.59	350	iPnc	27	55.20	1.2		0.4s		7.00nm			4.9mb
GLI	1.78	89	iP	10	24.82	-2.4	SRS	3.63	43	ePc	27	53.80	-0.8	LKO	37.04	226	P	34	06.64	0.3
			eS	10	46.23					eS	28	36.40			0.4s		7.00nm			4.9mb
AUE	2.04	222	eP	10	31.16	0.2	BAI	3.76	316	P	27	58.00	1.6	YKA	73.06	340	eP	38	26.30	0.8
AUL	2.04	223	eP	10	31.45	0.4	ATN	3.86	267	P	27	57.50	-0.4		0.6s		0.30nm			3.4mb
VZW	2.04	84	eP	10	28.83	-2.3				eSn	28	45.80			S.D. = 1.2		on	90	of	96 obs.
			eS	10	53.97		BCI	3.88	357	iPn	27	59.40	1.2							
HUR	2.14	14	eP	10	33.20	0.7	BDV	3.97	343	ePn	27	58.50	-0.9							
VLZ	2.15	82	eP	10	30.52	-2.1				eSn	28	41.00		%	MAY 04, 1990 08h 44m 15.19± 1.03s					
NCA	2.17	58	iP	10	31.51	-1.4	KKB	3.97	31	iP	27	59.00	-0.5		39.255 N ± 8.9km			27.732 E ±11.4km		
SVW	2.39	277	iPc	10	34.20	-1.8	TTG	4.03	348	ePn	28	00.40	0.2		DEPTH = 10.0km (geophysicist)					
KLU	2.40	74	iP	10	34.19	-2.1				eSn	28	46.50		TURKEY						(366)
SHU	2.43	200	eP	10	36.82	0.3	MMB	4.04	39	iPd	28	00.00	-0.5							
CDD	2.47	218	iP	10	36.86	-0.2	MGR	4.07	295	P	28	01.80	0.9	IZM	0.93	203	ePg	44	33.10	0.1
TOA	2.49	59	eP	10	36.50	-1.0	PVY	4.12	356	ePn	28	02.10	0.5				eSg	44	48.10	
KTH	2.66	358	eP	10	39.81	0.0				eSn	28	50.00		EDC	1.10	5	ePn	44	35.20	-0.6
RND	2.66	19	eP	10	40.34	0.5	APE	4.34	107	ePn	28	06.00	1.3	KCT	1.10	26	iPn	44	37.20	1.3
MCK	2.96	16	eP	10	45.19	1.2	VAM	4.35	134	ePn	28	06.00	1.2	EZN	1.23	298	iPn	44	38.00	0.0
TTA	3.22	311	eP	10	46.00	-1.8	IVA	4.40	356	ePn	28	05.60	0.1	YLV	1.82	43	ePn	44	46.00	-0.8
PAX	3.24	48	eP	10	46.59	-1.5				eSn	28	57.00			S.D. = 1.2		on	5	of	5 obs.
KDC	3.29	197	eP	10	46.30	-2.5	SGO	4.41	300	P	28	07.30	1.6							
GLB	3.40	78	eP	10	47.55	-2.7	MNO	4.49	265	Pd	28	06.60	-0.3							
DDM	3.68	36	eP	10	54.81	0.5				eSn	29	02.10			MAY 04, 1990 09h 39m 10.34± 0.53s					
TGL	3.87	89	eP	10	53.76	-3.4	MEU	4.51	254	Pc	28	04.90	-2.2		39.302 N ± 4.9km			23.229 E ± 5.2km		
HDA	3.92	25	iP	10	56.92	-0.8				eSn	28	59.60			DEPTH = 10.0km (geophysicist)					
CCB	3.99	18	eP	10	57.61	-1.0	PZI	4.55	253	P	28	02.35	-5.2X		3.7mb (1 obs.)					
BALM	4.09	85	eP	10	56.56	-3.6	BRY	4.62	343	ePn	28	07.30	-1.4	AEGEAN SEA						(365)
DOT	4.16	46	eP	10	59.04	-2.0				eSn	28	57.00			ML 3.5 (THE), 3.4 (ATH).					
FBA	4.23	17	eP	11	01.40	-0.6	RZN	4.63	45	iPc	28	08.00	-0.9							
GLM	4.37	19	eP	11	02.88	-1.2	VTS	4.64	27	iP	28	09.00	0.0	NEO	0.01	317	iPgd	39	11.70	-0.5
IMA	5.35	347	eP	11	15.50	-2.4	RDO	4.80	55	ePn	28	10.00	-1.1	PAIG	0.72	29	ePc	39	25.30	0.9
YKA	17.06	69	eP	13	53.10	-2.1	EZN	4.83	72	ePn	28	12.00	0.4				eS	39	36.70	
	0.5s		0.20nm			2.5mb	BSS	4.86	300	Pd	28	13.40	1.4	AGG	0.75	249	iPgd	39	22.70	-2.4
	48 obs. associated						PGB	4.99	34	iP	28	13.00	-1.0				eSg	39	33.10	
							GIB	5.00	266	P	28	11.50	-2.7	LIT	0.98	325	iPc	39	27.80	-1.2
	MAY 04, 1990 07h 26m 59.62± 0.41s						KDZ	5.01	49	iP	28	12.00	-2.1				eS	39	41.70	
	38.485 N ± 4.0km			20.351 E ± 2.7km			ALN	5.01	59	eP	28	12.80	-1.3	OUR	1.18	29	eP	39	32.70	0.3
	DEPTH = 52.5 ± 7.8 km									eS	29	10.80		THE	1.34	351	eP	39	34.10	-1.0
	4.3mb (6 obs.)						SMG	5.17	97	ePn	28	17.00	0.6				eS	39	51.70	
GREECE						(364)	MCT	5.37	263	P	28	17.70	-1.7	ATH	1.38	164	ePbc	39	37.00	1.4
	MD 4.0 (THE), 3.9 (ATH).									eSn	29	20.50		SOH	1.52	4	eP	39	38.00	0.4
							IZM	5.43	89	ePn	28	21.00	1.0				eS	39	58.10	
IGT	1.05	359	ePc	27	18.80	0.6	DUI	5.52	307	P	28	21.50	0.1	GRG	1.77	339	ePc	39	40.40	-0.8
			eS	27	33.70		HVAR	5.54	329	iPn	28	19.70	-1.9				eS	40	03.10	
KEK	1.30	341	iPnd	27	23.70	2.0				iSn	29	24.90		SRS	1.83	9	eP	39	42.10	0.0
SRN	1.42	349	iPn	27	25.00	1.6	SDI	5.95	305	P	28	28.50	1.1				eS	40	05.80	
AGG	1.64	70	ePc	27	27.30	0.8	PVL	6.05	37	eP	28	25.00	-3.7X	KNT	1.88	352	eP	39	42.80	0.1
			eS	27	47.00		AZI	6.34	306	P	28	33.50	0.7				eS	40	06.70	
LSK	1.67	7	iPnd	27	26.50	-0.6	KHL	7.21	88	eP	28	45.00	0.0	FNA	2.05	317	ePnc	39	45.00	-0.4
ITM	1.80	136	ePn	27	29.00	0.2	ASS	7.42	311	P	28	47.00	-0.9	VAY	2.08	346	iPn	39	45.70	0.0
TPE	1.83	352	ePn	27	29.00	-0.1	ARV	7.51	314	P	28	48.50	-0.7	IGT	2.26	277	ePd	39	49.90	1.6
KBN	2.17	9	iPnd	27	36.30	2.4	KSL	7.73	105	ePn	28	50.50	-1.6	MMB	2.32	9	iPc	39	49.00	-0.1
LIT	2.31	45	ePc	27	37.30	1.3	ELL	7.78	100	eP	28	55.00	2.0	ITM	2.35	206	ePn	39	50.00	0.3
			eS	28	05.70		VBY	7.97	333	ePnd	28	55.30	-0.1	EZN	2.45	77	iPn	39	52.00	1.0
NEO	2.39	69	ePn	27	36.30	-0.8				eSn	30	20.60		RDO	2.55	43	ePn	39	51.00	-1.4
FNA	2.43	19	ePnc	27	38.90	1.2	ZAG	8.01	338	eP	28	54.00	-1.9	KKB	2.56	358	iPc	39	52.00	-0.6
			eSn	28	10.30		PTJ	8.09	338	eP	28	54.30	-2.9X	VLI	2.59	185	iPnc	39	51.20	-1.8
LCI	2.62	316	P	27	40.40	0.1	MLR	8.14	29	eP	29	12.00	14.1X	OHR	2.59	315	ePn	39	59.00	5.9X
			eSn	28	16.70		SFI	8.40	313	P	29	01.50	0.2				eSn	40	32.20	
OHR	2.65	7	iPn	27	42.40	1.7	CEY	8.48	331	ePnc	29	01.00	-1.4	RZN	2.64	25	iPd	39	54.00	0.1
														ALN	2.68	53	eP	39	53.50	-0.8
																	eS	40	28.40	

04d 09h

KEK	2.69	280	ePb	39 57.20	2.8	
APE	2.87	140	ePb	40 02.00	4.9X	
KDZ	2.88	35	iP	39 56.00	-1.1	
SKO	3.00	334	ePn	39 01.20	-57.5X	
PLD	3.02	21	eP	40 01.00	2.0	
IZM	3.28	105	ePn	40 13.00	10.2X	
VTS	3.29	360	iP	40 03.00	0.0	
LCI	4.19	286	P	40 22.50	6.8X	
PVL	4.22	21	eP	40 08.00	-8.1X	
TDS	5.34	276	P	40 34.00	1.9	
MGR	5.98	280	P	40 39.50	-1.4	
NB2	23.01	345	P	44 16.80	0.7	
	0.7s		1.60nm		3.7mb	
	S.D. = 1.3		on 29 of 35 obs.			

MAY 04, 1990 10h 12m 06.86± 0.52s
11.754 N ± 7.7km 40.964 E ± 3.8km
DEPTH = 10.3 ± 3.9 km
5.0mb (45 obs.) 4.8Msz (3 obs.)
ETHIOPIA (558)
ML 5.2 (AAE). Felt strongly at Dubti.

HLD	1.45	96	eP+	12 32.16	-0.8	
KSU	1.47	99	eP+	12 32.62	-0.8	
DAF	1.54	95	eP+	12 33.58	-0.8	
GBR	1.59	112	eP+	12 35.13	0.1	
SGH	1.67	101	eP+	12 35.78	-0.5	
			eS	13 01.33		
TDD	1.90	88	eP+	12 38.95	-0.7	
MKL	2.14	91	eP+	12 42.06	-1.0	
ATA	2.22	97	eP+	12 43.48	-0.7	
AAE	3.47	219	ePn	13 04.00	1.8	
NAI	13.59	198	iPd	15 35.00	12.7X	
ANAL	14.02	327	eP	15 30.00	2.2	
AWAL	14.05	327	eP	15 30.00	1.9	
AGMR	14.20	327	eP	15 29.00	-1.1	
AKRL	14.21	328	eP	15 34.00	3.8X	
LWI	18.42	222	ePd	16 41.00	16.6X	
LWI	18.42	222	iPc	16 42.00	17.6X	
MKT	19.84	345	eP	16 42.00	1.1	
KOT	19.98	336	eP	16 44.50	2.2	
HLW	20.11	335	eP	16 43.80	0.1	
			e	22 24.00		
MKRJ	20.31	347	Pc	16 45.10	-0.7	
DSI	20.38	346	eP	16 47.00	0.5	
SALJ	20.74	347	Pc	16 49.80	-0.5	
HRI	21.94	348	e(P)	17 04.00	1.5	
BCAO	23.35	254	iPd	17 17.60	1.2	
	1.2s		82.00nm		5.2mb	
			ic	23 39.80		
			ic	24 15.50		
			ic	25 10.70		
TEH	25.67	20	eP	17 41.00	2.2	
TAB	26.64	9	e(P)	17 48.00	0.3	
			e	22 38.00		
BBTK	28.90	347	eP	18 10.00	1.9	
MAIO	29.61	31	eP	18 15.00	0.5	
			eS	23 20.00		
QUE	30.29	49	eP	18 21.90	1.1	
KDZ	32.75	338	eP	18 43.00	1.0	
RZN	33.04	337	iP	18 46.00	1.3	
DIM	33.05	339	eP	18 45.00	0.4	
VAY	33.58	335	eP	18 49.20	0.0	
KKB	33.83	336	iPc	18 51.00	-0.4	
OHR	34.19	332	eP	18 45.50	-9.0X	
VTS	34.39	337	iP	18 57.00	0.6	
SKO	34.60	334	iP	18 57.60	-0.4	
	1.2s		55.00nm		5.3mb	
ATN	34.78	323	P	19 01.10	1.5	
CFR	35.07	344	eP	19 00.00	-2.0	
FAI	35.28	321	P	19 05.50	1.6	
TDS	35.32	326	P	19 03.50	-0.7	
GIB	35.52	322	P	19 07.00	0.9	
GBA	35.61	83	Pc	19 07.50	0.6	
	1.2s		18.80nm		4.8mb	
MLR	35.98	342	eP	19 25.00	15.1X	
MGR	36.09	326	P	19 10.70	0.0	
VRI	36.10	343	iPc	19 25.50	14.8X	
HYB	36.77	77	eP	19 16.50	-0.2	
BZS	37.56	338	eP	19 22.50	-0.5	
DUI	37.75	327	P	19 26.00	1.3	
SDI	38.13	326	P	19 27.50	-0.4	
AZI	38.53	326	P	19 32.50	1.4	
RDP	38.76	326	P	19 34.50	1.3	
MNS	39.21	326	P	19 37.00	0.1	
ASS	39.68	327	P	19 39.50	-1.4	
ARV	39.83	328	P	19 42.80	0.8	
BUD	40.11	337	eP	19 45.00	0.8	
VBY	40.14	332	e(P)	19 45.40	0.8	
SRO	40.65	337	eP	19 49.00	0.3	
CEY	40.71	331	eP	19 50.00	0.8	
LJU	40.88	332	eP	19 51.00	0.4	
TRI	41.00	331	eP	19 51.70	0.2	
SPC	41.09	339	eP	19 52.00	-0.5	
VOY	41.17	331	ePc	19 53.50	0.4	
PII	41.27	326	P	19 50.50	-3.3X	
ZST	41.44	336	eP	19 55.40	0.3	
BDI	41.46	327	P	19 44.50	-11.0X	
KRA	41.93	340	ePc	19 58.90	-0.2	
	1.0s		56.00nm		5.2mb	
			e	20 00.40		
			e	20 12.40		
FVI	42.11	331	P	20 01.50	0.9	
KBA	42.20	332	e(P)	20 00.00	-1.6	
	1.0s		11.60nm		4.6mb	
			i	20 02.20		
			i	20 06.50		
CTI	42.27	330	P	20 02.50	0.4	
SAL	42.54	328	P	20 06.50	2.4	
BOB	42.54	327	P	20 09.00	4.6X	
KMR	42.58	333	iP-	20 05.20	0.7	
			i	20 27.10		
BHG	42.89	332	iPc	20 06.90	-0.2	
	1.0s		23.00nm		4.9mb	
CKI	42.96	325	P	20 07.00	-0.7	
MDI	43.07	328	P	20 08.00	-0.5	
OGA	43.15	330	iPc	20 10.40	0.9	
	1.2s		47.00nm		5.1mb	
OSS	43.47	329	ePc	20 12.80	0.8	
DOI	43.59	325	P	20 11.50	-1.4	
VAI	43.62	327	P	20 12.60	-0.4	
KHC	43.63	334	iPd	20 12.40	-0.7	
	1.0s		14.00nm		4.7mb	
TMA	43.73	328	ePc	20 14.20	0.1	
GKN	43.88	62	P	20 15.20	-0.3	
KSP	43.89	338	ePc	20 14.80	-0.3	
PRU	43.89	336	P	20 14.20	-0.9	
	1.2s		16.50nm		4.7mb	
WET	43.95	334	eP	20 14.60	-1.0	
	1.2s		27.00nm		4.9mb	
LLS	44.17	329	ePc	20 17.40	-0.3	
MMK	44.17	327	ePc	20 17.60	-0.2	
DMN	44.20	62	P	20 18.60	0.3	
SAX	44.25	329	ePd	20 17.50	-1.0	
PKI	44.45	63	P	20 20.00	-0.4	
LPG	44.48	326	eP	20 18.90	-1.5	
	0.8s		6.70nm		4.6mb	
DIX	44.49	327	ePd	20 19.50	-0.9	
LPL	44.50	326	eP	20 19.10	-1.4	
	1.0s		10.00nm		4.7mb	
EMS	44.74	326	ePc	20 21.30	-1.0	
BRG	44.82	336	iP	20 22.00	-0.6	
	1.2s		22.00nm		4.9mb	
			i	20 37.20		
ZLA	44.89	329	ePc	20 22.70	-0.6	
GUN	44.93	62	P	20 23.40	-0.9	
	1.0s		58.00nm		5.5mb	
SLE	45.03	329	ePc	20 23.80	-0.6	
GRF	45.08	333	eP	20 23.90	-0.9	
	1.0s		20.00nm		5.0mb	
Z	19s		0.30um		4.2Msz	
CLL	45.53	336	iP	20 27.70	-0.6	
	1.5s		26.00nm		5.0mb	
			e	20 41.00		
MOX	45.61	334	ePc	20 28.00	-1.0	
	1.5s		31.00nm		5.1mb	
LKO	45.77	272	P	20 30.44	-0.3	
	1.4s		52.50nm		5.3mb	
BSF	45.93	328	eP	20 31.10	-0.6	
	1.2s		47.60nm		5.4mb	
CDF	46.06	329	eP	20 32.00	-0.7	
	1.0s		16.00nm		5.0mb	
HAU	46.27	328	eP	20 33.60	-0.7	
	1.2s		29.75nm		5.2mb	
SMF	46.79	325	eP	20 37.10	-1.2	
	1.0s		8.00nm		4.7mb	
CAF	46.85	322	eP	20 38.90	0.0	
	1.1s		23.20nm		5.2mb	
LBF	46.91	326	eP	20 38.30	-1.1	
	1.2s		35.70nm		5.3mb	
EPF	46.95	319	eP	20 39.30	-0.4	
	1.0s		7.00nm		4.7mb	
AVF	47.15	325	eP	20 40.00	-1.1	
	1.0s		10.00nm		4.9mb	
LOR	47.15	326	eP	20 40.20	-1.0	
	1.2s		31.25nm		5.3mb	
APHE	47.22	310	iPc	20 43.10	1.1	
SSF	47.22	325	eP	20 40.60	-1.1	
	1.2s		19.35nm		5.1mb	
LPO	47.25	322	eP	20 42.10	0.1	
	1.0s		22.00nm		5.2mb	
MAF	47.27	324	eP	20 41.80	-0.3	
	1.2s		11.90nm		4.9mb	
BGF	47.30	325	eP	20 41.90	-0.5	
	1.0s		28.00nm		5.3mb	
RJF	47.38	322	eP	20 42.60	-0.5	
	1.0s		12.00nm		4.9mb	
ASMO	47.40	310	iPc	20 43.50	0.1	
ATEJ	47.45	310	iPc	20 43.60	-0.3	
TCF	47.51	324	eP	20 43.60	-0.5	
	1.0s		6.00nm		4.6mb	
ALOJ	47.58	310	iPc	20 45.40	0.5	
LFF	47.66	322	eP	20 45.40	0.2	
	1.0s		34.00nm		5.4mb	
AAPN	47.66	310	iPc	20 45.50	0.0	
LSF	47.89	324	eP	20 46.60	-0.4	
	1.0s		16.00nm		5.1mb	
ENN	48.28	331	eP	20 50.00	0.1	
	1.0s		28.00nm		5.3mb	
TOL	48.55	313	iPc	20 53.00	0.8	
WTS	48.69	332	eP	20 53.00	0.0	
	1.0s		27.00nm		5.2mb	
MFF	49.05	323	eP	20 55.20	-0.8	
	1.0s		8.00nm		4.7mb	
LDF	50.10	325	eP	21 02.60	-1.4	
	1.0s		12.00nm		4.8mb	
NUR	50.14	350	eP	21 03.00	-1.1	
LPF	50.32	324	eP	21 04.40	-1.3	
	1.0s		18.00nm		5.0mb	
FLN	50.40	325	eP	21 04.90	-1.3	
	0.9s		19.65nm		5.1mb	
GRR	50.41	325	eP	21 05.00	-1.3	
	0.8s		17.45nm		5.1mb	
UPP	51.06	345	eP	21 09.00	-2.1	
WMQ	51.28	42	P	21 12.50	-0.7	
Z	26s		1.37um		4.9MszX	
SUF	51.98	351	eP	21 11.00	-7.1X	
NB2	53.80	343	P	21 29.80	-1.8	
	1.2s		21.80nm		5.0mb	
EKA	55.40	331	Pd	21 41.80	-1.6	
	1.0s		10.10nm		4.8mb	
LZH	61.30	55	eP	22 24.80	-0.4	
Z	18s		0.70um		4.9Msz	
N	15s		0.40um			
GYA	63.19	66	P	22 39.60	1.7	
XAN	65.29	58	P	22 50.00	-1.5	
BTO	66.56	51	eP	23 02.00	2.5	
HHC	67.75	51	eP	23 08.00	0.9	
TIY	68.28	54	eP	23 13.20	2.8	
Z	20s		0.80um		4.9Msz	
N	13s		0.70um			
E	15s		0.90um			
BJI	71.24	52	eP	23 29.00	0.7	
	1.5s		21.00nm		5.0mb	
SNY	76.79	50	eP	24 03.40	2.9	
CN2	78.01	47	eP	24 09.50	2.3	
MBC	91.39	355	eP	25 15.00	1.2	
	S.D. = 1.1		on 138 of 149 obs.			

? MAY 04, 1990 10h 15m 14.61±11.36s
50.939 N ±96.4km 1.805 E ±15.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.1 (LDG).

FLN	2.63	215	Pn	15 58.10	0.2
			Sn	16 38.60	
LDF	2.66	209	Pn	15 58.40	0.1
			Sn	16 39.10	
GRR	3.08	215	Pn	16 04.10	-0.1
LPF	3.45	214	Pn	16 09.20	-0.2
LOR	3.91	159	Pn	16 16.40	0.3
SSF	4.04	163	Pn	16 17.90	0.1
LBF	4.21	159	Pn	16 20.20	-0.1
AVF	4.28	166	Pn	16 21.30	0.1
BGF	4.44	171	Pn	16 23.70	0.2
SMF	4.50	162	Pn	16 23.90	-0.5
TCF	4.66	177	Pn	16 26.60	-0.2
	S.D. = 0.3		on 11 of 11 obs.		

---

* MAY 04, 1990 10h 15m 33.00± 1.63s
39.258 N ±15.1km 23.076 E ±12.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

AGG	0.63	248	ePg	15 45.60	0.0
			eSg	15 56.40	
PAIG	0.82	35	ePg	15 48.40	-0.4
			eSg	15 59.40	
LIT	0.96	332	ePg	15 50.90	-0.3
			eSg	16 05.40	
OUR	1.28	33	ePb	15 56.70	0.0
SOH	1.58	8	ePb	16 01.80	0.7
CIN	4.27	111	ePgc	17 31.00	51.5X
			iSg	17 38.00	

S.D. = 0.6 on 5 of 6 obs.

& MAY 04, 1990 11h 29m 03.70s
58.115 N 154.174 W
DEPTH = 78.5km
4.1mb (1 obs.)
ALASKA PENINSULA (12)
<AGS-P>.

CDD	0.86	19	iP	29 20.19	-1.1
KDC	0.97	112	iPc	29 21.70	-0.8
AUE	1.32	18	iP	29 25.97	-0.9
AUL	1.33	17	iP	29 25.95	-1.1
XLV	1.85	43	iP	29 32.88	-1.2
			eS	29 56.10	
CNPM	2.08	46	iP	29 35.73	-1.5
			eS	30 00.18	
RED	2.42	17	eP	29 40.00	-2.0
			eS	30 09.91	
NNL	2.44	36	iP	29 41.15	-1.0
RDT	2.63	19	iP	29 42.49	-2.3
			iS	30 13.80	
NKA	3.03	28	eP	29 49.56	-0.8
SVW	3.09	347	iPc	29 48.20	-3.0
SLKM	3.14	39	eP	29 48.85	-3.0
SEW	3.15	49	iP	29 48.81	-3.1
			iS	30 24.12	
SPU	3.26	18	iP	29 50.97	-2.6
CRP	3.32	17	iP	29 52.20	-2.4
NCG	3.45	16	iP	29 53.86	-2.5
SUA	3.78	26	iP	29 58.22	-2.7
			eS	30 41.64	
MTU	3.86	58	eP	29 59.41	-2.4
PMS	3.91	35	ePd	29 59.50	-3.2
SKT	4.10	18	eP	30 01.74	-3.5
PWA	4.15	30	iPc	30 03.10	-2.9
MID	4.29	69	eP	30 05.10	-2.7
PLRM	4.32	34	eP	30 04.14	-4.1
PMR	4.32	34	eP	30 04.20	-4.1
SDN	4.46	234	iPc	30 06.70	-3.5
GHO	4.52	34	eP	30 06.95	-4.3
GLI	4.55	49	iP	30 07.20	-4.4
HIN	4.55	57	eP	30 08.30	-3.3
CUT	4.72	23	eP	30 11.17	-2.7
SML	4.73	36	eP	30 10.14	-3.9
VZW	4.87	49	iP	30 11.97	-4.1
TTA	4.92	350	eP	30 13.10	-3.6
CVA	4.95	57	iP	30 13.62	-3.5
VLZ	5.00	49	eP	30 13.85	-3.9
SGAM	5.18	59	iP	30 16.87	-3.5
NCA	5.36	40	eP	30 18.71	-4.1
KLU	5.37	47	iP	30 19.29	-3.8
RAGM	5.38	61	iP	30 19.76	-3.4
TOA	5.66	42	eP	30 23.30	-3.7
KTH	5.68	15	eP	30 23.73	-3.7
RND	5.91	24	eP	30 25.89	-4.7
MCK	6.19	22	eP	30 30.89	-3.4
GLB	6.20	53	iP	30 30.57	-4.1
WAX	6.26	63	eP	30 31.46	-3.9
CYK	6.34	67	eP	30 33.97	-2.4
TGL	6.36	61	eP	30 33.15	-3.7
PAX	6.49	38	eP	30 34.11	-4.5
WRH	7.02	22	eP	30 39.69	-6.0
HDA	7.20	26	eP	30 42.93	-5.4
FBA	7.46	21	ePc	30 45.90	-5.9
IMA	7.99	1	eP	30 54.70	-4.5
HYT	8.91	65	P	31 09.30	-2.5
DWY	9.28	44	P	31 13.30	-3.5
INK	13.73	34	P	32 11.00	-4.9
YKA	19.85	61	eP	33 25.80	-4.6
	0.7s		7.10nm		4.1mb

55 obs. associated

% MAY 04, 1990 12h 18m 28.75± 0.93s
42.464 N ± 9.6km 7.000 W ± 9.6km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.8 (MDD).

EMON	1.00	346	eP	18 47.80	0.1
			eS	19 03.00	
STS	1.22	291	eP	18 51.90	0.5
			eS	19 10.00	
EZAM	1.30	257	eP	18 52.00	-0.8
EPLA	2.49	164	eP	19 11.10	1.0
			eS	19 38.80	
GUD	2.81	129	eP	19 13.80	-0.8
			eS	19 48.00	

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

% MAY 04, 1990 12h 34m 00.64± 0.88s
38.885 N ± 8.2km 29.176 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.62	154	iPg	34 12.40	-0.8
			iSg	34 21.00	
ALT	0.75	77	ePg	34 16.00	0.6
KCT	1.50	335	iPn	34 27.40	-0.2
IZM	1.58	253	ePn	34 30.00	1.3
GPA	1.65	32	ePn	34 29.00	-0.8
YLV	1.69	5	iPn	34 29.90	-0.5
EDC	1.78	326	ePn	34 30.00	-1.6
HRT	1.97	11	ePn	34 36.50	2.0
ISK	2.18	358	ePn	34 41.00	3.6X

S.D. = 1.4 on 8 of 9 obs.

& MAY 04, 1990 13h 13m 34.56s
65.026 N 148.650 W
DEPTH = 21.5km
ALASKA (676)
<AGS-P>.

FBA	0.39	109	iP	13 42.83	0.1
			iS	13 48.07	
NEA	0.49	202	iP	13 44.70	0.3
			iS	13 52.25	
GLM	0.54	94	iP	13 45.18	-0.1
WRH	0.61	156	iP	13 47.08	0.7

4 obs. associated

MAY 04, 1990 13h 52m 22.37± 0.65s
42.126 N ± 6.8km 24.541 E ± 5.6km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

PLD	0.12	100	ePg	52 26.00	0.6
			iSg	52 29.00	
RZN	0.46	163	iPgc	52 30.00	-1.7
PGB	0.51	327	ePg	52 31.00	-1.6
DIM	0.74	96	eP	52 38.00	1.1
KDZ	0.81	126	iP	52 38.00	-0.1
VTS	1.09	296	iPgd	52 44.00	1.0
KKB	1.12	257	eP	52 44.00	0.7
PVL	1.24	28	eP	52 45.00	-0.3
VAY	1.68	242	ePn	52 52.30	0.4

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

? MAY 04, 1990 14h 49m 37.68± 1.09s
37.333 N ±13.0km 70.967 E ±10.6km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.87	206	eP	51 32.90	0.0
			e(S)	52 50.00	
GKN	14.79	125	P	53 06.60	0.3
	0.4s		14.00nm		4.7mb
DMN	15.36	125	P	53 14.00	0.1
	0.4s		13.00nm		4.5mb
PKI	15.58	124	P	53 16.60	-0.2
	0.4s		6.00nm		4.1mb
GUN	15.67	123	P	53 17.80	-0.2
	0.4s		9.00nm		4.3mb
YKA	80.42	3	eP	01 46.90	0.0
	0.5s		0.40nm		3.7mb

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

MAY 04, 1990 14h 53m 54.80± 0.63s
43.351 N ±10.8km 17.309 E ± 7.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (TTG).

HVAR	0.65	255	iPgc	54 07.90	0.1
			iSg	54 19.40	
BRY	1.01	116	ePg	54 13.20	-0.8
			eSg	54 29.00	
BDV	1.55	133	ePg	54 22.00	-0.4
			eSg	54 45.00	
TTG	1.70	122	ePn	54 25.50	0.8
			eSn	54 50.00	
PVY	2.10	110	ePn	54 31.00	0.5
			eSn	55 00.50	
VBY	2.61	326	eP	54 38.00	0.3
			eSn	55 13.00	
PTJ	2.72	340	eP	54 52.40	12.9X
CEY	3.15	320	eP	55 24.00	38.6X
			e(Sn)	55 42.00	
VOY	3.62	319	ePn	54 51.70	-0.5
			eSn	55 38.30	

S.D. = 0.7 on 7 of 9 obs.

? MAY 04, 1990 15h 32m 52.94± 0.92s
44.341 N ±11.9km 8.133 E ± 6.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

FIN	0.14	158	P	32 56.32	0.0
			S	32 58.79	
ROB	0.19	256	P	32 57.14	-0.1
			S	32 59.81	
PCP	0.36	56	P	33 00.32	0.0
			S	33 06.07	
ENR	0.52	258	P	33 03.71	0.1
			S	33 10.78	

S.D. = 0.2 on 4 of 4 obs.

---

* MAY 04, 1990 17h 31m 39.26± 2.11s
20.159 N ± 8.4km 121.984 E ±35.4km
DEPTH = 129.8 ± 10.8 km
4.8mb (2 obs.)
PHILIPPINE ISLANDS REGION (248)

PIP	2.23	215	iPc	32 15.70	-0.9
			iS	32 46.50	
TWG	2.78	342	ePd	32 23.00	-0.6
SZP	2.97	209	iPd	32 26.80	0.7
			iS	33 03.50	
TWM1	3.02	332	iPd	32 27.70	0.9
TWK	3.39	336	iPc	32 31.50	-0.2
			eS	32 54.40	
TWQ	4.23	346	ePc	32 42.40	-0.6
TWC	4.43	358	eP	32 46.30	0.7
CHTO	21.76	270	eP	36 22.50	1.0
	0.6s		0.84nm		3.3mb X
GUN	33.77	290	P	38 11.40	0.3
	0.4s		9.00nm		4.9mb
PKI	34.16	290	P	38 13.60	-0.8
DMN	34.43	290	P	38 16.20	-0.4
GKN	34.87	290	P	38 20.00	-0.3
	0.4s		5.00nm		4.7mb

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

---

* MAY 04, 1990 17h 58m 37.29± 0.96s
30.739 S ± 7.2km 69.072 W ±10.3km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTCB	0.78	163	ePd	58 53.00	0.4
RTLL	0.78	139	ePd	58 52.80	0.2
ZON	0.87	157	iPd	58 53.00	-1.1
			eS	59 08.00	
RTBS	0.98	199	ePd	58 54.80	-1.0
CFA	1.12	141	eP	58 58.50	0.2
			(S)	59 14.80	
RTCV	1.21	158	eP	59 00.20	0.4
			S	59 19.00	
PEL	2.76	209	iPc	59 23.50	1.0
			i	59 33.00	
			iS	00 02.00	
ZOBO	14.43	4	eP	02 04.00	-0.2

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

---

* MAY 04, 1990 18h 24m 12.81± 1.12s

04d 18h

23.910 N ±19.1km 123.880 E ± 9.1km
DEPTH = 10.0km (geophysicist)
4.6mb (4 obs.) 4.2Msz (1 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.98	291	ePc	24	46.20	-0.5
			eS	25	03.10	
TWD	2.10	275	ePc	24	47.40	-1.0
TWZ	2.41	300	ePc	24	53.50	0.6
ANP	2.50	301	eP	24	55.00	0.8
TWK	3.18	259	ePc	25	04.60	0.8
CHTO	23.76	262	eP	29	26.50	0.3
	0.5s		0.51nm			3.4mb X
INK	72.55	22	eP	35	42.00	0.5
MBC	72.98	13	ePd	35	44.20	0.2
	0.4s		3.00nm			4.7mb
HFS	79.00	331	eP	36	16.90	-1.3
	0.5s		4.00nm			4.7mb
Z	18s		0.11um			4.2Msz
			LR	13	13.00	
NB2	79.61	333	P	36	20.40	-1.1
	0.7s		3.90nm			4.5mb
YKA	82.25	24	eP	36	36.20	0.8
	0.6s		1.10nm			4.1mb

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

% MAY 04, 1990 18h 45m 35.72± 0.92s
44.327 N ±10.9km 8.255 E ± 8.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

FIN	0.12	196	P	45	38.81	0.0
			S	45	40.86	
ROB	0.28	263	P	45	41.88	0.3
			S	45	45.78	
PCP	0.30	44	P	45	41.99	0.0
			S	45	46.09	
ENR	0.61	261	P	45	47.83	-0.2
			S	45	55.73	
STV	0.67	263	P	45	49.06	-0.1
			S	45	57.88	

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

& MAY 04, 1990 18h 54m 04.76s
61.500 N 149.727 W
DEPTH = 31.8km
SOUTHERN ALASKA (2)
<AGS-P>.

PWA	0.17	334	iP	54	10.95	0.1
			iS	54	15.38	
PMS	0.27	163	iP	54	12.10	0.0
PLRM	0.30	72	iP	54	11.70	-0.7
			iS	54	17.93	
GHO	0.47	54	iP	54	13.76	-1.2
			iS	54	21.80	
SUA	0.49	266	iP	54	14.60	-0.7
			iS	54	23.04	
SML	0.73	64	eP	54	17.07	-1.7
SKT	0.98	300	iP	54	21.20	-1.2
			iS	54	34.89	
SLKM	1.02	194	iP	54	21.82	-1.2
NKA	1.06	225	eP	54	24.14	0.8
CGLM	1.11	261	eP	54	23.72	-0.6
SPU	1.17	255	iP	54	24.11	-0.9
			eS	54	39.88	
NCG	1.17	266	iP	54	24.50	-0.6
CRP	1.19	260	eP	54	25.16	-0.3
SEW	1.41	174	eP	54	26.78	-1.6
GLI	1.42	115	iP	54	26.95	-1.6
			iS	54	45.34	
NCA	1.47	69	iP	54	28.10	-1.2
VZW	1.60	105	eP	54	29.61	-1.6
RDT	1.60	236	eP	54	30.16	-1.1
			eS	54	50.84	
VLZ	1.68	101	eP	54	30.40	-1.9
			eS	54	52.05	
TOA	1.79	69	iP	54	33.71	-0.3
			eS	54	58.22	
KLU	1.83	89	iP	54	32.56	-2.0
			iS	54	56.40	
RED	1.84	235	eP	54	33.65	-1.1
			iS	54	57.99	
RND	1.96	12	eP	54	35.58	-0.8
CNPM	2.12	201	iP	54	39.51	0.9

24 obs. associated

MAY 04, 1990 20h 06m 02.99± 1.02s
30.908 S ± 8.5km 69.030 W ± 7.7km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTCB	0.61	161	iP	06	15.50	0.1
RTLL	0.64	131	iPc	06	15.40	-0.4
ZON	0.70	155	iPd	06	17.30	0.4
			eS	06	30.00	
RTBS	0.83	206	ePd	06	17.20	-1.9
CFA	0.97	136	eP	06	21.10	-0.4
RTCV	1.04	156	ePc	06	23.00	0.4
			(S)	06	39.00	
JACH	2.21	217	iPd	06	42.00	1.6
			iS	07	15.00	
PEL	2.64	212	iPc	06	46.20	-0.2
			iS	07	22.50	
FCH	2.64	204	iPd	06	49.00	2.3
			iS	07	28.50	
PCH	2.98	205	iPd	06	51.70	0.4
			iS	07	34.50	
TACH	3.18	210	eP	06	53.50	-0.5
CHCH	3.31	204	iPd	06	56.20	0.2
			i	07	20.50	
LNV	3.65	213	eP	06	58.50	-2.1
CCH	13.72	12	(P)	09	38.00	17.7X
ZOBO	14.60	3	P	09	32.00	0.0

S.D. = 1.2 on 14 of 15 obs.

• MAY 04, 1990 21h 00m 50.47± 1.58s
36.797 N ± 8.8km 6.453 W ±13.3km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.4 (MDD). ML 3.2 (LDG).

CNIL	0.54	143	iP	01	01.00	-0.3
EVAL	0.82	344	iPnc	01	08.30	2.0
			eSn	01	26.10	
EJIF	0.86	113	iPgd	01	07.70	0.6
			eSg	01	23.10	
PLAT	0.88	140	iP	01	03.00	-4.3X
EPRU	0.99	80	iPnd	01	18.80	9.5X
			eSn	01	44.00	
OJEN	1.01	133	iP	01	12.00	2.3X
MAL	1.64	92	iPg	01	41.30	21.9X
AFC	2.37	78	iPnc	01	31.20	1.0
			eSn	02	04.20	
EBAN	2.52	56	iPnc	01	33.90	1.7
			eSn	02	27.00	
EPLA	3.28	5	ePn	01	43.20	0.3
			eSn	02	27.00	
ENIJ	3.40	86	iPnd	01	43.80	-0.9
EVIA	3.63	58	iPnd	01	48.50	0.5
			eSn	02	36.80	
GUD	4.24	24	iPnd	01	58.40	1.7
			eSn	02	52.10	
ACU	5.09	69	ePn	02	08.10	-0.5
ECHE	5.14	56	iPnd	02	09.50	0.1
ETOR	5.28	39	iPnc	02	12.90	1.5
ECRI	6.55	26	ePn	02	30.60	1.3
EROQ	6.70	51	iPnd	02	31.70	0.4
EPF	8.12	38	Pn	02	52.10	0.8
			Sn	04	21.20	
LPO	9.78	34	Pn	03	13.90	-0.2
LFF	9.78	32	Pn	03	14.20	0.0
CAF	10.36	36	Pn	03	21.30	-0.9
RJF	10.41	33	Pn	03	21.70	-1.1
MFF	10.87	24	Pn	03	28.40	-0.6
MAF	11.58	33	Pn	03	37.30	-1.5
LPF	11.91	18	Pn	03	43.20	0.0
BGF	11.97	33	Pn	03	41.80	-2.2
GRR	12.29	18	Pn	03	47.60	-0.7
LDF	12.67	19	Pn	03	51.60	-1.8
FLN	12.73	18	Pn	03	52.80	-1.4

S.D. = 1.2 on 26 of 30 obs.

• MAY 04, 1990 22h 00m 59.09± 0.77s
6.887 N ± 7.2km 72.877 W ±12.5km
DEPTH = 157.4 ± 7.2 km
4.4mb (4 obs.)
NORTHERN COLOMBIA (99)

BMG	0.27	313	eP	01	22.00	0.0
BOG	2.54	208	iPd	01	42.50	0.6
			iS	02	14.00	
UPA	6.91	288	ePc	02	39.00	-0.1
PSO	7.19	218	eP	02	42.50	-0.7
ZOBO	23.48	168	Pc	05	56.00	-0.4
	0.9s		9.08nm			4.3mb
LPB	23.74	169	P	06	00.00	1.3
CCH	25.02	165	eP	06	40.00	29.5X
SIV	25.56	153	P	06	14.20	-1.0
			e	06	49.00	
ALQ	41.63	317	eP	08	33.00	-0.6
	0.7s		2.57nm			3.9mb
LRM	51.66	325	ePd	09	52.20	0.1
SES	53.76	331	ePd	10	07.60	0.4
FRB	56.84	2	eP	10	28.00	-1.0
PNT	57.63	326	eP	10	35.00	0.1
YKA	63.29	340	eP	11	12.20	-0.7
	0.6s		11.30nm			5.0mb
INK	73.05	340	ePd	12	14.00	0.9
MBC	73.78	350	ePd	12	18.30	1.0
	0.5s		6.00nm			4.6mb

S.D. = 0.8 on 15 of 16 obs.

MAY 04, 1990 22h 01m 48.34± 0.35s
40.320 N ± 3.9km 25.801 E ± 3.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 4.0 (ATH), 3.3 (THE).

ALN	0.61	18	ePgc	02	00.10	-0.4
			eSg	02	07.80	
EZN	0.64	141	iPg	02	00.20	-0.9
			iSg	02	08.20	
RDO	0.85	346	iPc	02	04.50	-0.2
			eS	02	16.50	
KDZ	1.36	348	iPc	02	14.00	0.7
OUR	1.39	271	ePbd	02	13.50	-0.2
			eSb	02	34.80	
EDC	1.58	88	iPn	02	16.60	0.2
RZN	1.59	329	iP	02	18.00	1.2
PAIG	1.67	257	ePnd	02	17.20	-0.6
DIM	1.74	353	eP	02	19.00	0.3
SRS	1.86	296	ePn	02	20.10	-0.4
			eSn	02	48.40	
SOH	1.93	286	ePnd	02	21.40	-0.2
			eSn	02	48.40	
PLD	1.97	335	ePg	02	26.00	4.0X
MMB	2.02	310	iPc	02	23.00	0.2
DMK	2.11	44	iPn	02	22.60	-1.5
JMB	2.22	15	iP	02	30.00	4.2X
NEO	2.23	244	eP	02	32.00	6.1X
IZM	2.23	149	ePn	02	27.30	1.4
KNT	2.36	292	ePn	02	28.00	0.2
PG8	2.54	332	eP	02	35.00	4.6X
LIT	2.54	266	ePn	02	30.10	-0.3
KK8	2.57	308	iP	02	31.00	0.3
ISK	2.59	72	ePn	02	36.00	5.1X
VAY	2.65	293	ePn	02	32.00	0.2
			i	02	40.30	
SMG	2.73	162	eP	02	33.00	0.0
YLV	2.74	84	ePn	02	36.30	3.1X
ATH	2.85	215	eP	02	40.00	5.3X
PVL	2.92	353	eP	02	37.00	1.4
VTS	2.99	320	iP	02	37.00	0.2
ALT	3.56	109	iPn	02	45.20	0.4
SKO	3.68	298	ePn	02	52.00	5.4X
OHR	3.88	283	ePn	02	57.50	8.1X
MLR	5.17	1	eP	03	20.00	12.3X
BZS	6.12	331	ePc	03	19.00	-1.9
WB5	116.55	94	ePKP	20	34.10	-0.3

S.D. = 0.8 on 24 of 34 obs.

• MAY 04, 1990 22h 21m 54.36± 1.23s
22.198 N ± 6.0km 122.237 E ±12.8km
DEPTH = 16.6 ± 9.4 km
3.7mb (3 obs.)
TAIWAN REGION (243)

TWG	1.24	300	ePc	22	16.90	0.0
			eS	22	32.40	
TWF1	1.44	323	iPc	22	18.30	-1.4
TWC	2.43	352	ePc	22	32.30	-1.6
TWZ	2.95	348	ePc	22	40.10	-1.2
ANP	3.04	348	eP	22	41.00	-1.7
PIP	4.14	202	ePd	22	58.50	0.2
QZH	4.32	310	Pnc	23	00.20	-0.6
			Sn	23	48.40	
CVP	4.49	185	eP	23	02.00	-1.2
			eS	23	57.00	
SSE	8.91	354	eP	24	07.00	1.8

E 14s 0.30um
GYA 14.81 290 eP 25 37.00 12.0X
XAN 16.63 318 eP 25 51.00 2.7X
BJI 18.52 345 eP 26 11.00 -0.7
1.5s 26.00nm 4.2mb
CD2 18.65 302 eP 26 17.00 3.5X
HHC 20.67 337 eP 26 36.00 -0.1
CN2 21.71 6 eP 26 46.00 -0.5
CHTO 22.07 265 e(P) 26 49.50 -0.8
0.6s 0.28nm 2.9mb
YKA 84.41 23 eP 34 30.30 3.4X
0.8s 0.50nm 3.8mb
S.D. = 1.1 on 13 of 17 obs.

% MAY 04, 1990 23h 10m 00.19± 0.99s
41.184 N ±10.1km 14.844 E ±16.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.39 184 P 10 08.20 -0.1
eSg 10 15.00
DUI 0.56 329 P 10 11.50 -0.1
eSg 10 19.00
SGO 0.72 150 P 10 14.10 -0.2
eSg 10 25.80
SDI 0.93 304 P 10 18.10 0.1
eSg 10 31.80
MGR 1.18 152 P 10 22.40 0.2
eSg 10 39.70
S.D. = 0.2 on 5 of 5 obs.

% MAY 04, 1990 23h 10m 43.84± 1.25s
41.214 N ±11.7km 14.880 E ±18.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.43 188 P 10 51.90 -0.6
eSg 10 59.20
DUI 0.55 325 P 10 54.00 -0.9
eSg 11 04.50
SGO 0.73 153 P 10 58.30 0.1
eSg 11 09.60
SDI 0.94 302 P 11 02.90 1.1
eSg 11 16.00
MGR 1.19 154 P 11 06.40 0.3
eSg 11 23.00
S.D. = 1.2 on 5 of 5 obs.

---

* MAY 04, 1990 23h 22m 40.38± 0.79s
40.845 N ±11.2km 73.427 E ±11.2km
DEPTH = 33.0km (normal)
4.2mb (7 obs.)
KIRGHIZ SSR (716)
Felt (V) in the Kok-Yongok oreo
ond (IV) at Fergona.

MAIO 11.81 252 eP 25 28.00 -1.5
eS 27 37.00
QUE 11.86 208 eP 25 32.40 2.0
NDI 12.52 164 eP 25 39.30 0.2
GKN 15.78 141 P 26 20.40 -1.5
0.4s 13.00nm 4.4mb
DMN 16.34 140 P 26 28.00 -1.1
0.4s 6.00nm 4.1mb
GUN 16.47 138 P 26 31.40 0.5
0.4s 15.00nm 4.5mb
PKI 16.52 140 P 26 30.40 -1.0
0.4s 5.00nm 4.0mb
SHL 21.63 129 eP 27 32.00 2.1
HYB 23.76 168 eP 27 55.50 4.8X
HFS 40.94 319 eP 30 20.70 -0.3
0.4s 1.30nm 4.0mb
KHC 42.14 302 eP 30 36.50 5.5X
NB2 42.16 320 P 30 31.20 0.1
0.6s 1.10nm 3.8mb
MBC 62.90 3 eP 33 05.50 0.5
0.8s 5.00nm 4.7mb
S.D. = 1.4 on 11 of 13 obs.

---

* MAY 04, 1990 23h 44m 52.67± 0.74s
23.016 S ± 5.9km 68.798 W ±14.2km
DEPTH = 104.5 ± 7.9 km
4.7mb (4 obs.)
NORTHERN CHILE (123)

ANT 1.64 245 iPc 45 22.20 1.0
iS 45 43.20
CCH 6.13 24 P 46 24.50 1.8
i 46 43.00
LPB 6.48 6 P 46 28.00 0.4
i 46 45.20
ZOBO 6.74 6 P 46 29.00 -2.2
Z 18s 0.21um
LR 48 16.00
ARE 7.00 338 eP 46 29.00 -5.5X
e 47 42.80
RTLL 8.29 178 ePc 46 51.00 -0.8
RTCB 8.44 180 e(P) 46 53.80 -0.1
CFA 8.57 177 ePc 46 55.10 -0.6
PEL 10.23 189 eP 47 21.50 3.5X
LNV 11.14 191 eP 47 30.00 0.0
NNA 13.38 324 eP 48 03.50 3.9X
0.7s 4.11nm 4.0mb
e 50 18.00
ALQ 67.82 327 eP 55 40.00 -1.7
0.8s 5.60nm 4.5mb
e 56 06.00
FRI 76.57 320 eP 56 37.90 4.7X
epP 57 13.60 144kmX
PRI 76.57 319 e(P) 56 34.10 0.7
LLA 77.05 319 eP 56 36.50 0.6
PRS 77.12 319 eP 56 37.00 0.7
epP 57 15.20 154kmX
CMB 77.67 321 e(P) 56 42.10 2.8X
epP 57 17.10 140kmX
GCC 77.96 319 eP 56 41.70 0.9
LRM 79.15 331 eP 56 47.90 0.4
ORV 79.34 321 eP 56 49.00 0.7
epP 57 27.00 153kmX
WDC 80.61 322 eP 56 54.00 -1.1
epP 57 31.60 151kmX
SES 82.08 334 eP 57 02.00 -0.5
pP 57 28.00 99kmX
FFC 82.49 341 eP 57 04.00 -0.5
1.3s 19.00nm 4.8mb
MAW 82.86 163 iP 57 09.20 2.9X
FRB 86.47 0 eP 57 23.00 -1.1
YKA 92.64 341 eP 57 52.00 -1.2
0.7s 3.70nm 4.8mb
KOD 145.36 106 ePKP 04 22.00 1.0
GBA 146.68 100 PKPc 04 24.30 1.6
0.7s 10.40nm
S.D. = 1.2 on 22 of 28 obs.

% MAY 04, 1990 23h 56m 11.23± 0.95s
41.189 N ±11.0km 14.786 E ±17.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.40 178 P 56 18.90 -0.5
eSg 56 27.90
DUI 0.53 333 P 56 21.50 -0.5
eSg 56 30.00
SGO 0.74 148 Pd 56 26.30 0.5
eSg 56 37.10
SDI 0.89 306 P 56 29.00 0.6
eSg 56 41.00
MGR 1.20 151 P 56 33.50 -0.1
eSg 56 51.50
S.D. = 0.8 on 5 of 5 obs.

? MAY 05, 1990 00h 05m 00.09± 1.01s
36.182 N ±29.2km 25.993 E ± 9.7km
DEPTH = 156.0km (geophysicist)
DODECANESE ISLANDS (369)

VAM 1.65 243 eP 05 32.10 0.1
eS 05 55.20
VLI 2.52 283 eP 05 41.60 -0.6
KSL 2.91 90 eP 05 47.00 0.0
ITM 3.42 288 eP 05 54.10 0.5
S.D. = 0.8 on 4 of 4 obs.

MAY 05, 1990 00h 50m 31.46± 0.39s
44.531 N ± 4.2km 10.210 E ± 3.5km
DEPTH = 21.0 ± 3.7 km
NORTHERN ITALY (545)
ML 2.9 (LDG), 2.7 (KBA).

MME 0.49 134 Pc 50 41.80 0.3
eSg 50 50.20
BOB 0.59 294 P 50 43.10 0.0
eSg 50 54.00
SAL 1.10 12 P 50 52.00 0.4
eSg 51 08.00
PCP 1.19 271 P 50 52.98 0.0
S 51 05.65
PGD 1.27 121 P 50 56.10 1.9
eSg 51 12.10
FIN 1.47 258 P 50 56.47 -0.4
S 51 10.99
VAI 1.68 323 P 51 00.30 0.4
eSg 51 21.80
ROB 1.69 263 P 50 59.65 -0.5
S 51 17.15
CTI 1.83 33 Pc 51 01.40 -0.7
eSg 51 24.60
TMA 1.84 330 ePc 51 03.00 0.7
ORX 1.92 306 P 51 05.82 2.2
S 51 26.31
ENR 2.02 262 P 51 04.78 -0.2
S 51 24.81
VDL 2.02 345 ePd 51 06.30 1.2
STV 2.09 263 P 51 05.80 -0.1
S 51 26.15
SBF 2.10 252 Pn 51 06.00 -0.1
OSS 2.16 359 ePc 51 07.50 0.5
PGF 2.17 204 Pn 51 07.00 -0.1
Sn 51 33.10
RSP 2.19 287 P 51 07.55 0.1
S 51 29.31
MMK 2.20 315 ePc 51 10.60 3.0X
ASS 2.30 129 P 51 09.50 0.6
eSg 51 38.00
LSD 2.36 294 P 51 10.83 0.9
S 51 34.98
RRL 2.47 280 P 51 10.82 -0.7
DIX 2.51 309 ePc 51 15.00 2.9X
LPG 2.64 293 Pn 51 14.60 0.7
LPL 2.66 293 Pn 51 14.30 0.2
FVI 2.74 40 P 51 15.30 0.2
FRF 2.75 251 Pn 51 14.30 -0.9
Sn 51 45.50
TRI 2.78 64 P 51 13.80 -1.8
eSn 51 47.50
EMS 2.78 305 ePc 51 18.10 2.3
SAX 2.79 348 ePc 51 17.60 1.6
LMR 2.93 247 Pn 51 16.80 -0.9
Sn 51 49.60
LRG 2.98 250 Pn 51 18.00 -0.4
Sn 51 52.90
VOY 3.00 59 ePn 51 15.00 -3.9X
eSn 51 52.70
KBA 3.36 40 ePn 51 24.00 -0.1
e 51 33.50
SLE 3.45 340 ePc 51 23.80 -1.4
CDF 4.38 333 Pn 51 37.00 -1.4
HAU 4.39 324 Pn 51 37.40 -1.1
Sn 52 26.40
LBF 5.00 302 Pn 51 47.00 -0.2
Sn 52 40.20
KHC 5.15 25 eP 51 47.00 -2.3
LOR 5.21 304 Pn 51 49.20 -0.9
Sn 52 45.70
S.D. = 1.1 on 37 of 40 obs.

MAY 05, 1990 01h 26m 20.10± 0.86s
18.284 S ± 6.1km 177.973 W ± 4.3km
DEPTH = 523.8 ± 10.0 km
5.0mb (19 obs.)
FIJI ISLANDS REGION (181)

DZM 15.11 253 iPc 29 31.20 0.1
PUZ 19.99 189 eP 30 19.50 1.2
NOZ 20.56 189 eP 30 24.30 0.9
MNG 22.96 193 eP 30 43.90 -1.5
WDW 23.69 193 eP 30 51.10 -0.8
MRW 23.72 194 eP 30 51.50 -0.7
TCW 23.80 195 eP 30 52.90 0.0
THZ 24.67 197 eP 30 59.90 -0.9
KHZ 25.12 195 eP 31 03.70 -1.0
LTZ 25.79 197 P 31 09.50 -1.2
AFR 26.83 93 iP 31 20.40 0.4
0.8s 20.00nm 4.7mb
PAE 27.00 93 iP 31 21.80 0.2
0.8s 25.00nm 4.8mb
PPT 27.02 93 iP 31 22.20 0.5
0.8s 45.00nm 5.1mb
BRS 28.38 246 iPd 31 34.00 0.4
0.9s 6.00nm 4.2mb
i 31 52.00

05d 01h

MMCZ	28.74	199	P	31	36.10	-0.5	KSP	145.58	344	ePKP	44	59.20	-0.4	VBY	150.71	341	ePKP	45	08.00	0.3
MHZ	28.74	199	P	31	36.10	-0.5		1.1s		86.00nm							e	45	14.40	
TLC	28.92	199	eP	31	37.50	-0.7				id	45	00.90		CEY	150.75	342	ePKP	45	07.60	-0.2
PMO	28.98	88	iP	31	39.40	0.6	VRI	145.71	329	ePKPc	45	13.00	13.0X				e	45	13.50	
	0.8s	25.00nm			4.8mb		SPC	145.84	339	ePKP	45	00.80	0.5	OSS	150.89	348	ePKPc	45	08.40	0.2
VAH	29.19	89	iP	31	40.60	0.0	BBTK	145.87	315	ePKP	45	00.00	-0.6	LLS	150.92	350	ePKPd	45	08.00	-0.3
	0.8s	25.00nm			4.8mb		CLL	145.92	348	iPKPd	45	01.30	1.2	TRI	150.97	343	PKP	45	10.00	1.9
TPT	29.25	88	iP	31	41.80	0.7		1.1s		97.00nm				LOR	151.05	357	ePKP	45	07.70	-0.5
	0.8s	30.00nm			4.9mb		BRG	146.13	346	ePKP	45	00.40	0.0	VAY	151.08	327	ePKP	45	14.20	5.8X
RUV	29.44	89	iP	31	43.40	0.7		1.1s		52.00nm				SKO	151.16	329	iPKP	45	14.60	6.1X
	0.8s	40.00nm			5.0mb					i	45	02.20			0.9s		49.00nm			
COO	29.94	240	iPc	31	48.40	1.3	WTS	146.15	355	ePKP	45	02.00	1.6				i	45	25.20	
RMO	31.76	249	iPc	32	03.60	1.1		1.0s		63.00nm				CTI	151.19	346	PKP	45	08.00	-0.6
CAN	33.81	233	eP	32	21.00	1.3	HRI	146.35	303	iPKPc	45	04.80	3.3X	SSF	151.28	358	ePKP	45	08.20	-0.3
BWA	33.94	235	eP	32	20.00	-0.8	MLR	146.37	329	iPKPc	45	15.00	13.8X	LBF	151.33	357	ePKP	45	08.10	-0.6
TOO	37.26	231	iPd	32	50.00	1.8	JARJ	146.48	301	PKP	45	03.20	1.5	AVF	151.55	358	ePKP	45	08.10	-0.8
BFD	39.34	233	eP	33	07.00	1.8	SHMJ	146.49	302	PKPc	45	04.60	3.0X	SMF	151.68	357	ePKP	45	08.70	-0.4
WB5	44.95	260	eP	33	49.00	-0.9	LWI	146.67	235	ePKPd	45	06.40	3.7X	TMA	151.68	350	ePKPc	45	09.30	-0.1
GUA	48.37	308	eP	34	14.00	-1.9	MASJ	146.81	300	PKPc	45	04.30	2.1	MFF	151.70	3	ePKP	45	08.40	-0.7
	0.8s	214.93nm			5.7mb		PRU	146.81	345	PKP	45	01.50	-0.1		0.9s		8.20nm			
		e		34	16.20		PRU	146.81	345	PKP	45	04.10	2.5X	BGF	151.80	359	ePKP	45	08.90	-0.4
GUMO	48.43	308	eP	34	14.80	-1.6	MOX	146.82	349	ePKP	45	02.00	0.4		0.7s		3.85nm			
	0.7s	127.06nm			5.5mb		DSI	147.13	300	iPKPc	45	06.20	3.6X	SAL	151.85	347	PKP	45	16.00	6.7X
		e		34	16.50		GPA	147.23	318	ePKP	45	05.10	2.5X	MMK	151.88	351	ePKPc	45	10.50	0.7
PJG	48.43	308	eP	34	14.70	-1.7	ENN	147.44	355	ePKP	45	05.50	3.0X	DIX	151.92	352	ePKPd	45	11.00	1.1
		e		34	16.50			0.9s		30.00nm				VAI	151.93	350	PKP	45	09.30	-0.1
FORR	50.19	245	eP	34	28.00	-1.3	UCC	147.51	357	PKPd	45	05.90	3.3X	TCF	152.07	360	ePKP	45	09.10	-0.6
NANU	62.02	254	eP	35	51.10	-0.1	MEM	147.59	355	iPKPd	45	06.00	3.2X		1.0s		7.00nm			
MAT	68.45	323	iPd	36	29.50	-1.7	SRO	147.68	339	iPKP	45	06.60	3.6X	FNA	152.08	327	ePKPd	45	16.20	6.2X
	0.9s	54.62nm			5.1mb					i	45	10.90		LSF	152.11	1	ePKP	45	08.90	-0.9
OZH	75.23	303	eP	37	11.00	0.5	NOH	147.71	299	iPKPc	45	08.00	4.3X		0.8s		4.70nm			
PRS	76.21	44	eP	37	16.20	0.5	ZST	147.74	341	e(PKP)	45	05.20	2.1	OHR	152.13	329	ePKP	45	04.20	-5.8X
SSE	76.30	310	P	37	15.50	-0.7				i	45	07.10			1.1s		81.00nm			
PRI	76.57	44	eP	37	18.50	0.7				e	45	11.30					i	45	16.20	
FRI	77.68	44	eP	37	23.50	-0.1	GRF	147.81	349	ePKP	45	06.60	3.4X				i	08	29.50	
CMB	77.83	43	eP	37	24.50	0.0	KHC	147.84	346	PKPc	45	03.40	0.1	MAF	152.14	359	ePKP	45	09.80	0.0
WDC	77.96	40	eP	37	25.20	0.1	VKA	147.91	342	ePKP	45	06.50	3.1X	LPL	152.57	353	ePKP	45	11.00	0.3
ORV	78.00	41	eP	37	25.20	-0.1				i	45	07.70		LPG	152.58	353	ePKP	45	11.00	0.2
NJ2	78.50	309	Pc	37	29.00	0.9				e	45	12.00		BOB	152.87	348	PKP	45	10.50	-0.5
	0.9s	100.00nm			5.2mb					e	45	17.00		RJF	153.06	1	ePKP	45	10.80	-0.3
MDJ	78.73	325	Pd	37	29.30	0.3	MBH	148.00	297	iPKPc	45	08.80	4.7X		1.0s		8.00nm			
	1.0s	100.00nm			5.2mb		ALT	148.03	316	ePKP	45	07.00	3.0X	LFF	153.40	2	ePKP	45	11.20	-0.4
SNY	80.54	320	Pd	37	38.60	0.1	JMB	148.13	324	iPKPd	45	08.00	4.1X	CAF	153.44	360	ePKP	45	11.60	-0.1
CN2	80.57	322	Pd	37	39.00	0.4	ABH	148.17	353	ePKP	45	07.63	3.8X		1.1s		7.35nm			
	1.0s	100.00nm			5.3mb		DOU	148.20	357	PKPc	45	07.70	3.9X	LPO	153.67	1	ePKP	45	11.70	-0.2
WHN	81.16	306	eP	37	42.00	0.1	BZS	148.25	333	ePKP	45	03.50	-0.5	DUI	154.39	338	PKP	45	17.00	3.9X
TIA	81.81	312	eP	37	45.30	0.2	TOD	148.28	352	ePKP	45	07.61	3.6X	AZI	154.45	340	PKP	45	21.50	8.5X
BJI	84.34	315	eP	37	58.00	0.3	SOP	148.36	341	ePKP	45	04.60	0.5	SDI	154.57	339	PKP	45	08.00	-5.3X
	1.0s	50.00nm			5.1mb		RUP	148.40	354	ePKP	45	08.29	4.1X	PGF	155.10	348	ePKP	45	13.30	-0.8
PNT	84.81	34	eP	38	00.00	0.2	BCK	148.53	313	iPKP	45	07.90	3.1X		1.0s		10.00nm			
GYA	85.58	300	P	38	05.40	1.2	KTD	148.66	352	ePKP	45	08.58	4.0X	BCAO	158.78	232	iPKPc	45	19.30	0.0
TIY	85.83	312	iPd	38	06.00	1.0	KMR	148.71	344	iPKP-	45	09.50	4.9X		0.7s		10.00nm			
ALQ	86.00	51	eP	38	06.00	-0.1	KHL	148.81	315	ePKP	45	09.70	4.5X	LKO	168.60	139	PKP	45	27.60	-0.4
	1.0s	4.00nm			4.1mb		KDZ	149.32	324	ePKP	45	11.00	5.2X		S.D. = 0.9		on 128 of 179 obs.			
XAN	86.82	307	P	38	10.90	1.1	BHG	149.33	346	iPKPc	45	10.40	4.8X	----------						
CHG	89.52	290	eP	38	24.10	1.5		1.0s		33.00nm				&	MAY 05, 1990		01h 42m 04.60s			
	0.6s	9.17nm			4.9mb		ELL	149.35	313	ePKP	45	11.00	4.9X		60.787 N			152.165 W		
CHTO	89.52	290	eP	38	23.90	1.3	PGB	149.37	327	iPKPd	45	11.00	5.1X		DEPTH = 120.8km					
	1.0s	11.75nm			4.7mb		BEO	149.38	334	iPKP	45	09.50	3.8X		SOUTHERN ALASKA					(2)
CD2	89.62	303	P	38	24.20	1.3	FLN	149.53	3	ePKP	45	05.00	-0.8		<AGS-P>.					
INK	92.14	15	ePd	38	32.50	-1.1		1.1s		12.20nm										
YKA	94.50	25	eP	38	42.60	-1.9	RZN	149.68	325	iPKPd	45	11.00	4.4X	RDT	0.24	209	iP	42	20.91	0.8
	0.9s	2.30nm			4.3mb		LDF	149.72	3	ePKP	45	05.50	-0.6				iS	42	33.94	
GTA	95.59	310	eP	38	50.60	0.4		1.1s		9.75nm				SPU	0.40	8	iP	42	21.34	-1.1
WMQ	105.49	311	Pdiff	39	32.20	-2.1X	KBA	149.81	345	ePKP	45	06.50	-0.1				eS	42	35.23	
QUE	120.31	295	ePKP	44	13.90	0.3		0.8s		20.50nm				NKA	0.46	95	iP	42	24.26	1.7
KEV	126.31	349	ePKP	44	17.00	-6.6X				i	45	12.20					iS	42	38.73	
MAIO	126.62	302	iPKPc	44	25.00	-0.4				i	45	16.50		RED	0.48	219	iP	42	22.13	-0.7
SOD	128.45	348	ePKP	44	18.00	-9.8X	VTS	149.83	328	iPKPc	45	12.00	5.3X	CRP	0.48	1	iP	42	22.15	-0.8
SUF	132.56	345	ePKP	44	34.00	-1.7	GRR	149.88	4	ePKP	45	05.80	-0.6				iS	42	37.17	
BUL	133.76	216	iPKPd	44	36.50	-3.0X		0.9s		6.55nm				NCG	0.62	0	eP	42	22.94	-0.9
NUR	134.82	344	ePKP	44	39.00	-1.1	FEL	150.08	352	ePKP	45	11.87	5.0X	SUA	0.97	45	iP	42	26.62	-0.2
NB2	136.80	353	PKP	44	34.70	-9.2X	SLE	150.12	351	ePKPc	45	06.50	-0.3				iS	42	43.21	
	0.8s	2.90nm					PTJ	150.13	340	ePKP	45	07.90	0.9	SLKM	1.00	105	iP	42	26.66	-0.4
HFS	137.36	351	ePKP	44	33.50	-11.4X	HAU	150.15	354	ePKP	45	06.10	-0.7	SKT	1.24	14	iP	42	28.49	-1.0
	0.8s	5.90nm					LPF	150.22	4	ePKP	45	06.40	-0.5				eS	42	47.22	
EKA	142.81	5	PKP	44	49.00	-5.7X		1.0s		8.00nm				CNPM	1.35	159	eP	42	30.58	-0.1
	1.1s	4.30nm					BSF	150.27	354	ePKP	45	06.40	-0.7				eS	42	50.45	
KAS	144.44	317	ePKP	44	58.70	0.6	FVI	150.41	345	PKPc	45	06.40	-0.8	PMS	1.35	69	iP	42	30.43	-0.3
CLI	144.96	329	ePKPd	45	11.00	12.3X	ZLA	150.42	351	ePKPc	45	06.50	-0.8				iS	42	50.68	
YRH	145.13	7	ePKP	44	58.20	-0.6	KKB	150.42	327	iPKPd	45	13.00	5.6X	PWA	1.41	51	iP	42	31.06	-0.3
SHBJ	145.14	301	PKPd	44	59.60	0.0	LJU	150.44	342	ePKP	45	07.40	0.1				iS	42	52.36	
KRA	145.20	340	ePKP	44	58.20	-0.8				e	45	12.60		PLRM	1.68	60	iP	42	33.34	-1.2
		e		45	02.50		SAX	150.49	350	ePKPc	45	07.00	-0.7				eS	42	56.53	
WIT	145.35	355	ePKP	45	01.00	1.9	VOY	150.63	343	ePKP	45	07.00	-0.7	GHO	1.85	56	iP	42	35.73	-1.1
ECP	145.54	9	ePKP	44	59.90	0.5				e	45	13.20					iS	42	59.99	
	1.0s	62.00nm								e	45	21.60		CUT	1.86	28	eP	42	36.21	-0.6

			eS	43	00.29	
CDD	2.01	202	eP	42	37.53	-1.1
			eS	43	02.21	
SML	2.11	59	eP	42	38.74	-1.3
GLI	2.49	86	iP	42	42.60	-2.2
			eS	43	13.78	
VZW	2.75	82	iP	42	46.99	-1.4
KTH	2.84	11	iP	42	47.35	-2.1
VLZ	2.87	81	eP	42	48.43	-1.3
RND	3.06	29	iP	42	50.96	-1.4
KLU	3.11	74	iP	42	51.59	-1.5
TOA	3.17	63	iP	42	53.71	-0.2
PAX	3.85	52	eP	43	02.25	-0.9
GLB	4.11	77	iP	43	05.10	-1.4
WRH	4.15	25	iP	43	04.93	-2.1
DDM	4.21	42	iP	43	08.19	0.3
HDA	4.36	31	iP	43	08.09	-1.8
CCB	4.36	25	iP	43	07.70	-2.2
TGL	4.58	86	eP	43	12.30	-0.7
GLM	4.75	25	eP	43	12.97	-2.2
BALM	4.80	83	iP	43	15.91	-0.1

33 obs. ossociated

% MAY 05, 1990 01h 42m 40.73± 1.11s
41.213 N ±11.1km 14.848 E ±17.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS	0.42	184	P	42	48.90	-0.5
			eSg	42	56.80	
DUI	0.54	327	P	42	51.00	-0.6
SGO	0.74	152	P	42	55.00	-0.2
			eSg	43	08.60	
SDI	0.92	303	P	42	59.00	0.7
MGR	1.20	153	P	43	03.70	0.6
			eSn	43	21.20	

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

MAY 05, 1990 02h 37m 52.24± 0.43s
45.501 N ± 6.5km 104.307 E ± 5.9km
DEPTH = 33.0km (normol)
4.6mb (9 obs.) 4.3Msz (1 obs.)
MONGOLIA (334)

BTO	6.44	138	Pn	39	26.50	-0.8
GTA	6.93	210	iPnd	39	33.00	-1.2
			Pg	39	59.80	
			Sg	41	30.00	
HHC	7.05	129	Pn	39	35.00	-0.9
			Sn	40	52.00	
LZH	9.41	182	P	40	10.50	1.8
Z	10s		1.76um			
E	10s		5.96um			
TIY	9.87	139	iPd	40	15.20	0.2
BJI	10.29	118	eP	40	20.00	-0.5
	1.0s		24.00nm		5.4mb	
WMQ	11.95	268	P	40	40.80	-2.5
XAN	11.98	161	P	40	44.80	1.1
TIA	13.41	129	eP	41	02.00	-0.6
Z	11s		1.00um			
SNY	14.42	98	eP	41	16.20	0.4
Z	10s		1.20um			
CD2	14.57	182	P	41	14.00	-3.9X
E	11s		3.00um			
CN2	15.14	89	eP	41	25.00	-0.2
			epP	41	28.50	
NJ2	17.54	135	Pd	41	59.50	3.8X
MDJ	17.87	84	eP	42	01.30	1.6
Z	10s		1.00um			
GYA	19.10	174	P	42	19.80	4.8X
N	10s		0.40um			
E	10s		1.50um			
SSE	19.50	132	eP	42	15.00	-4.4X
Z	12s		0.50um			
N	16s		1.00um			
E	16s		0.50um			
			sS	46	00.00	
KMI	20.37	184	eP	42	28.00	-0.9
N	10s		0.40um			
E	12s		2.40um			
			eS	46	19.00	
KSH	21.68	264	P	42	45.00	2.9X
SHL	22.26	211	eP	42	41.60	-6.4X
GUN	22.85	226	P	42	53.70	-0.3
PKI	23.37	226	P	42	58.90	-0.1
GKN	23.42	228	P	42	58.80	-0.5
DMN	23.49	227	P	43	00.60	0.5
	0.8s		32.00nm		4.9mb	
CHG	26.98	191	eP	43	34.00	1.2
CHTO	26.98	191	eP	43	33.10	0.3
	1.0s		2.75nm		3.8mb	
GBA	39.09	224	Pc	45	17.40	-0.6
	0.6s		1.80nm		4.0mb	
HFS	52.29	321	eP	46	58.40	-3.9X
	0.7s		4.90nm		4.6mb	
Z	16s		0.17um		4.2MszX	
			LR	06	32.00	
NB2	52.95	322	P	47	03.90	-3.3X
	0.7s		4.00nm		4.5mb	
MBC	55.36	12	eP	47	25.00	0.4
BRG	56.83	311	e(P)	47	36.50	1.0
CLL	57.09	312	eP	47	38.00	0.7
KHC	57.98	309	P	47	45.50	1.8
INK	58.62	22	eP	47	45.00	-2.8
GRF	58.94	311	eP	47	50.00	-0.4
Z	19s		0.20um		4.3Msz	
EKA	62.43	322	Pd	48	15.20	1.2
	2.1s		23.40nm		4.9mb	
YKA	67.94	18	eP	48	46.50	-2.9
	0.9s		4.40nm		4.6mb	
FRB	70.95	357	eP	49	09.00	1.3
BCAO	83.90	270	ePd	50	22.30	2.0
	0.6s		4.00nm		4.8mb	

S.D. = 1.3 on 30 of 38 obs.

• MAY 05, 1990 02h 39m 48.67± 2.42s
43.612 N ±13.8km 126.371 W ±15.0km
DEPTH = 10.0km (geophysicist)
2.4mb (1 obs.)
OFF COAST OF OREGON (30)

NLO	3.23	39	P	40	40.40	-0.1
GT2	3.32	61	P	40	42.16	0.4
TCO	3.49	80	P	40	43.84	-0.4
RVW	3.62	44	P	40	45.32	-0.6
BMW	3.63	37	P	40	45.41	-0.7
VLMM	3.65	57	P	40	46.61	0.2
TDH	3.68	61	P	40	47.12	0.1
VBEM	3.73	65	P	40	47.87	0.2
LVP	3.74	48	P	40	47.87	0.1
ONR	3.75	28	P	40	46.58	-1.2
MTMW	3.82	49	P	40	48.82	-0.1
VLL	3.83	59	P	40	49.47	0.4
FL2	3.85	46	P	40	49.58	0.2
VFP	3.90	62	P	40	49.86	-0.3
SHW	3.91	47	P	40	50.58	0.4
HSR	3.93	48	P	40	50.82	0.4
JLK	3.93	48	P	40	50.39	0.0
ERK	3.93	45	P	40	50.15	-0.3
CZM	3.93	43	P	40	50.85	0.4
REMW	3.94	48	P	40	51.34	0.6
STD	3.95	47	P	40	50.70	0.0
YEL	3.95	47	P	40	50.99	0.2
ESD	3.96	48	P	40	51.18	0.3
APM	3.96	56	P	40	51.53	0.7
CDFW	3.96	49	P	40	50.80	-0.1
SOSW	3.99	47	P	40	51.67	0.4
APW	4.02	40	P	40	51.33	-0.3
TDL	4.02	46	P	40	51.53	-0.2
CPW	4.06	33	P	40	51.37	-0.9
CROR	4.10	69	P	40	51.84	-1.0
KOSW	4.11	45	P	40	53.02	0.1
GULW	4.11	54	P	40	53.53	0.5
LMW	4.20	42	P	40	54.09	-0.2
ASR	4.24	52	P	40	54.79	-0.1
VIPM	4.24	76	P	40	53.74	-1.2
VGB	4.43	63	P	40	58.39	0.9
GLK	4.48	47	P	40	58.33	0.1
RVC	4.55	41	P	40	59.28	0.0
GL2	4.59	57	P	40	59.57	-0.3
WPW	4.60	46	P	40	59.67	-0.3
FMW	4.69	43	P	41	01.17	-0.2
GSM	4.82	40	P	41	02.83	-0.3
JBO	5.02	66	P	41	05.62	-0.3
YKA	20.13	16	eP	44	25.80	0.5
	0.5s		0.10nm		2.4mb	

S.D. = 0.5 on 44 of 44 obs.

MAY 05, 1990 02h 44m 43.08± 0.92s
47.668 N ± 6.8km 7.470 E ± 5.4km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.0 (LDG). MD 2.0 (STR).

MOF	0.29	309	Pg	44	49.36	0.1
			Sg	44	53.52	
FEL	0.42	60	ePg	44	51.72	0.0
BSF	0.49	290	Pg	44	52.85	-0.1
			Sg	44	59.02	
LOMF	0.54	234	Pg	44	54.00	0.0
			Sg	45	01.31	
ECH	0.59	339	Pg	44	54.86	-0.1
			Sg	45	02.77	
WLS	0.75	354	Pg	44	57.84	0.0
			Sg	45	07.78	
CDF	0.76	350	Pg	44	57.92	0.0
HAU	0.83	295	Pg	44	59.20	0.1
			Sg	45	09.50	

S.D. = 0.1 on 8 of 8 obs.

? MAY 05, 1990 04h 22m 25.74± 4.45s
16.004 N ±45.0km 94.014 W ±15.0km
DEPTH = 153.6 ± 39.9 km
OAXACA, MEXICO (60)

PSM	1.21	305	iP	22	52.50	-0.6
			iS	23	11.00	
SCX	1.51	61	eP	22	56.00	0.0
			iS	23	15.00	
EVV	2.75	333	(P)	23	11.00	0.4
			(S)	23	30.00	
OXX	2.81	293	iP	23	12.50	0.9
			iS	23	44.00	
PPM	5.35	305	eP	23	44.50	-0.8

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

• MAY 05, 1990 05h 46m 12.51± 0.73s
51.480 N ±13.7km 159.336 E ±11.3km
DEPTH = 33.0km (normol)
4.8mb (17 obs.)
OFF EAST COAST OF KAMCHATKA (219)

MAT	21.19	233	iPc	50	57.00	-0.3
	1.2s		62.50nm		4.9mb	
INK	35.44	36	eP	53	07.00	0.0
TIY	35.49	266	Pc	53	07.70	-0.2
Z	14s		1.00um		4.7MszX	
N	16s		1.40um			
MBC	38.71	22	eP	53	34.50	0.1
XAN	40.03	264	P	53	45.50	-0.4
LZH	41.88	271	P	54	00.00	-1.2
	1.2s		24.00nm		4.8mb	
Z	16s		0.70um		4.6MszX	
E	12s		0.30um			
			pP	54	11.80	43kmX
GTA	42.34	278	eP	54	04.80	-0.1
YKA	44.68	41	eP	54	23.10	-0.3
	1.0s		0.90nm		3.6mb X	
CD2	45.36	265	eP	54	29.40	0.1
GYA	46.71	258	P	54	40.80	0.7
WMQ	47.08	290	P	54	43.00	0.2
KMI	50.09	261	eP	55	06.00	-0.5
	1.5s		100.00nm		5.6mb	
			sP	55	18.50	
DAG	52.02	359	ePd	55	19.10	-1.1
	0.6s		9.33nm		4.9mb	
KEV	54.20	342	eP	55	47.00	10.6X
LRM	55.15	58	eP	55	51.20	7.1X
SOD	56.26	340	iP	55	48.10	-3.3X
KVN	56.45	68	eP	55	53.10	-0.3
SHL	56.53	270	iP	55	53.50	-0.6
CHG	57.13	259	eP	55	59.00	0.8
			e	01	36.70	
			e	04	29.00	
			e	18	42.90	
CHTO	57.13	259	iP	55	59.00	0.8
	1.0s		10.50nm		4.8mb	
GUN	58.60	276	P	56	08.40	-0.5
PKI	59.14	276	P	56	12.30	-0.3
FRB	59.18	23	eP	56	09.00	-2.9
DMN	59.30	277	P	56	13.70	0.1
GKN	59.31	277	P	56	11.40	-2.2
SUF	60.31	337	eP	56	19.00	-0.7
NUR	62.58	337	eP	56	34.00	-1.0
NB2	64.96	344	P	56	49.40	-1.3
	0.9s		5.60nm		4.7mb	
HFS	65.34	342	eP	56	51.80	-1.3
	0.8s		9.00nm		4.9mb	
Z	16s		0.16um		4.3MszX	
			LR	28	51.00	
ALQ	65.97	64	e(P)	57	02.00	4.3X

05d 05h

HYB	70.87	274	eP	57 28.80	0.7
EKA	72.56	350	Pc	57 40.70	3.0X
	0.6s	3.50nm		4.5mb	
KSP	73.34	337	eP	57 42.50	0.2
CLL	73.69	339	eP	57 44.00	-0.3
	1.5s	17.00nm		4.8mb	
BRG	73.88	338	e(P)	57 48.20	2.8X
GBA	74.45	272	Pd	57 49.50	0.3
	1.0s	8.20nm		4.7mb	
PRU	74.56	337	P	57 49.50	0.1
KHC	75.59	338	Pd	57 56.60	1.3
	1.1s	6.00nm		4.5mb	
MEM	75.80	343	P	57 57.70	1.3
DOU	76.54	344	P	58 03.50	2.9X
KBA	77.56	337	eP	58 07.50	0.9
	1.1s	19.80nm		5.1mb	
		i		58 09.90	
CDF	77.65	341	eP	58 07.10	0.2
HAU	78.23	342	eP	58 10.10	0.1
LOR	79.40	343	eP	58 16.30	-0.1
	1.0s	6.00nm		4.5mb	
LBF	79.65	343	eP	58 17.80	0.0
SSF	79.66	343	eP	58 18.00	0.2
AVF	79.95	343	eP	58 19.60	0.3
	1.1s	6.10nm		4.5mb	
SMF	80.01	343	eP	58 19.90	0.3
BGF	80.27	344	eP	58 21.60	0.6
LPL	80.53	341	eP	58 25.50	2.8
	0.9s	6.55nm		4.6mb	
LPG	80.54	341	eP	58 26.00	3.1X
	1.2s	14.90nm		4.9mb	
TCF	80.64	344	eP	58 23.40	0.4
MAF	80.64	344	eP	58 24.00	1.0
OHR	80.97	330	eP	58 24.00	-0.9
CAF	81.98	344	eP	58 31.20	1.1
	1.0s	6.00nm		4.6mb	
LFF	82.19	345	eP	58 32.00	0.9
LPO	82.37	344	eP	58 32.90	0.8
S.D. = 1.0 on 49 of 57 obs.					

? MAY 05, 1990 05h 51m 51.98± 0.94s
51.620 N ±15.3km 158.642 E ±20.5km
DEPTH = 33.0km (normal)
4.6mb (12 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

MAT	20.93	232	iPd	56 35.10	1.0
	1.3s	69.23nm		4.9mb	
INK	35.58	36	eP	58 43.00	-4.7X
			pP	59 02.00	78kmX
SOD	55.98	340	eP	01 28.00	-0.9
CHTO	56.73	258	eP	01 36.20	1.4
	0.7s	5.56nm		4.7mb	
KVN	56.80	68	eP	01 36.10	0.7
SUF	60.01	337	eP	01 56.00	-1.2
NUR	62.28	336	eP	02 12.00	-0.5
UPP	64.51	339	iP	02 26.20	-0.9
NB2	64.70	343	P	02 27.10	-1.4
	0.7s	3.70nm		4.6mb	
HFS	65.07	342	eP	02 29.60	-1.2
	0.6s	5.40nm		4.8mb	
HYB	70.42	273	eP	03 05.50	0.6
EKA	72.35	349	Pc	03 18.00	2.1
	0.5s	3.80nm		4.6mb	
GBA	74.01	272	Pc	03 25.10	-1.0
	0.5s	6.30nm		4.9mb	
PRU	74.27	337	eP	03 27.00	-0.1
WB5	74.30	204	eP	03 25.20	-2.4
WRA	74.37	204	Pc	03 37.10	9.1X
	0.8s	2.00nm		4.2mb	
KHC	75.30	337	P	03 33.70	0.6
MEM	75.53	342	P	03 34.80	0.5
KBA	77.26	336	eP	03 45.00	0.6
	0.8s	9.00nm		4.9mb	
		i		03 47.50	
CDF	77.38	341	eP	03 45.00	0.1
LOR	79.14	343	eP	03 56.50	2.0
	0.9s	4.10nm		4.4mb	
AVF	79.69	343	eP	03 59.90	2.5X
	0.8s	3.35nm		4.4mb	
LPL	80.26	340	eP	04 03.70	3.0X
	0.9s	4.90nm		4.5mb	
LPG	80.27	340	eP	04 04.00	3.1X
	0.9s	4.90nm		4.5mb	
MAF	80.39	343	eP	04 04.30	3.2X
S.D. = 1.3 on 19 of 25 obs.					

---

* MAY 05, 1990 05h 54m 43.42± 1.44s
51.649 N ±23.5km 159.138 E ±24.0km
DEPTH = 33.0km (normal)
4.7mb (17 obs.)
OFF EAST COAST OF KAMCHATKA (219)

MAT	21.20	233	iPd	59 26.40	-1.8
	1.1s	58.23nm		4.9mb	
CN2	23.81	264	eP	59 52.80	-1.1
SNY	26.04	262	eP	00 14.00	-1.1
INK	35.38	36	eP	01 36.00	-1.4
MBC	38.60	22	eP	02 04.50	0.1
XAN	39.93	264	P	02 15.50	-0.5
LZH	41.75	270	P	02 31.80	0.7
	1.5s	33.00nm		4.8mb	
YKA	44.63	41	eP	03 04.50	10.6X
	1.0s	1.70nm			
CD2	45.25	265	P	03 00.20	0.9
GYA	46.62	258	P	03 11.00	0.7
KMI	50.00	260	Pc	03 37.50	0.8
DAG	51.85	359	ePd	03 49.30	-0.5
	0.4s	11.02nm		5.2mb	
SHL	56.41	270	iP	04 23.50	-0.6
LOE	56.43	255	eP	04 26.40	2.3
CHTO	57.04	258	eP	04 27.70	-0.8
	0.8s	8.60nm		4.8mb	
SUF	60.10	337	eP	04 49.00	-0.3
NUR	62.37	337	eP	05 03.00	-1.6
UPP	64.59	340	iP	05 18.40	-0.7
NB2	64.76	343	P	05 18.70	-1.6
	0.7s	5.60nm		4.8mb	
HFS	65.14	342	ePKP	05 21.00	-1.7
	1.2s	21.40nm		5.1mb	
HYB	70.73	274	eP	05 57.00	-1.2
EKA	72.38	349	P	06 05.00	-2.5
POO	72.80	278	eP	06 11.50	0.9
CLL	73.49	339	eP	06 14.00	0.0
GBA	74.32	272	Pd	06 19.50	0.2
	0.9s	5.20nm		4.5mb	
PRU	74.36	337	eP	06 20.00	0.9
WB5	74.45	204	eP	06 15.00	-4.9X
WRA	74.52	204	Pc	06 29.80	9.5X
	1.1s	4.20nm		4.3mb	
KHC	75.39	337	Pd	06 26.30	1.2
	1.1s	6.00nm		4.5mb	
KBA	77.36	337	eP	06 37.00	0.7
	0.9s	20.00nm		5.1mb	
		i		06 38.20	
CDF	77.45	341	eP	06 37.40	0.7
LOR	79.20	343	eP	06 46.60	0.4
	0.7s	4.40nm		4.6mb	
SSF	79.47	343	eP	06 48.10	0.5
	0.7s	2.75nm		4.4mb	
AVF	79.76	343	eP	06 49.70	0.5
	0.8s	4.70nm		4.5mb	
LPG	80.34	341	eP	06 54.10	1.4
	1.0s	9.00nm		4.7mb	
TCF	80.44	344	eP	06 53.60	0.7
	0.7s	2.20nm		4.3mb	
MAF	80.44	344	eP	06 54.10	1.2
	0.7s	3.30nm		4.4mb	
CAF	81.79	344	eP	07 01.30	1.3
	1.1s	8.55nm		4.7mb	
LPO	82.17	344	eP	07 03.20	1.3
S.D. = 1.2 on 36 of 39 obs.					

% MAY 05, 1990 06h 11m 13.72± 0.69s
40.744 N ± 7.2km 15.762 E ± 5.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.39	242	Pc	11 22.60	0.9
			eSg	11 29.60	
MGR	0.63	195	P	11 24.90	-1.4
			eSg	11 35.00	
BSS	0.73	274	P	11 29.00	1.0
			eSg	11 40.60	
BAI	0.92	66	P	11 32.00	0.8
			eSg	11 45.00	
BRT	1.10	83	P	11 34.00	-0.4
			eSg	11 48.50	
TDS	1.17	158	P	11 36.20	0.6
			eSg	11 52.30	
DUI	1.34	313	P	11 38.50	0.0
SDI	1.75	304	P	11 43.00	-1.4
			eSg	12 08.50	
S.D. = 1.2 on 8 of 8 obs.					

---

* MAY 05, 1990 06h 14m 02.66± 0.97s
13.778 N ±10.3km 120.723 E ±12.1km
DEPTH = 139.9 ± 9.9 km
4.3mb (8 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

CVP	4.04	15	eP	15 04.00	0.0
PPR	4.43	206	iPd	15 09.00	-0.2
			iS	16 00.00	
CHTO	21.49	286	eP	18 41.90	0.5
	1.0s	6.75nm		4.0mb	
SHL	29.51	298	iP	19 55.00	-1.2
GUN	35.33	299	P	20 47.30	0.5
PKI	35.63	298	P	20 49.40	0.1
	0.4s	11.00nm		5.0mb	
DMN	35.90	298	P	20 51.80	0.3
	0.5s	11.00nm		4.9mb	
GKN	36.41	299	P	20 55.60	0.0
	0.5s	9.00nm		4.8mb	
GBA	42.01	275	Pc	21 42.60	0.6
	0.5s	2.20nm		4.1mb	
MAIO	58.85	304	eP	23 49.00	-0.1
INK	83.02	21	eP	26 14.00	0.9
HFS	86.42	331	eP	26 29.50	-0.7
	0.5s	1.80nm		4.2mb	
NB2	87.20	333	P	26 33.00	-1.1
	0.7s	1.30nm		4.0mb	
YKA	92.70	22	eP	26 59.90	0.2
	0.6s	0.50nm		3.9mb	
S.D. = 0.7 on 14 of 14 obs.					

MAY 05, 1990 07h 21m 18.00± 0.26s
40.744 N ± 2.2km 15.853 E ± 1.5km
DEPTH = 12.7 ± 1.8 km
4.6mb (11 obs.)
SOUTHERN ITALY (390)
Foreshock.

SGO	0.45	246	P	21 27.20	-0.1
MGR	0.65	201	Pc	21 29.50	-1.2
BSS	0.80	274	P	21 34.10	0.9
BAI	0.86	64	Pc	21 35.50	1.3
BRT	1.03	82	P	21 37.60	0.3
TDS	1.15	161	Pd	21 38.50	-0.7
DUI	1.40	312	P	21 45.90	2.7
LCI	1.65	104	P	21 50.40	3.6X
SDI	1.81	303	Pc	21 50.70	1.5
GRI	1.97	167	P	21 51.95	0.4
AZI	2.20	305	P	21 56.90	2.1
LPI	2.36	198	P	21 57.02	-0.1
HVAR	2.47	10	ePn	21 59.30	0.7
			i	22 08.20	
MSI	2.55	185	P	21 59.80	0.1
RDP	2.57	294	P	22 01.50	1.4
ATN	2.60	187	Pd	22 00.10	-0.3
RMP	2.60	295	P	22 01.80	1.3
HCY	2.61	49	ePn	22 01.00	0.3
			eSn	22 41.00	
BDV	2.71	54	ePn	22 02.20	0.1
			eSn	22 44.00	
VLO	2.79	94	iPn	22 04.20	1.1
ULC	2.83	63	ePn	22 04.10	0.3
			eSn	22 46.00	
MNS	2.89	306	Pd	22 07.00	2.4
BRY	2.95	42	ePn	22 06.50	1.0
			eSn	22 50.00	
MNO	2.95	198	P	22 06.20	0.6
SDA	3.02	64	iPnc	22 07.50	1.1
LACI	3.04	72	ePn	22 07.40	0.7
TTG	3.06	56	ePn	22 08.00	1.1
			eSn	22 52.00	
GIB	3.09	208	P	22 08.00	0.5
TIR	3.10	77	iPnd	22 08.00	0.6
BERA	3.11	89	ePn	22 07.90	0.2
NKY	3.13	48	ePn	22 09.20	1.1
			eSn	22 54.00	
KEK	3.19	108	iPc	22 09.50	0.6
TPE	3.20	97	iPnc	22 08.00	-1.0
SRN	3.29	104	iPn	22 11.00	0.8
ASS	3.33	315	Pc	22 13.90	3.0X
ARV	3.50	323	P	22 14.70	1.5
BCI	3.55	61	ePn	22 15.60	1.6
MCT	3.55	210	P	22 16.40	2.2
PHP	3.59	73	iPnc	22 14.90	0.5
PVY	3.60	58	ePn	22 16.00	1.2
			eSn	23 05.00	

05d 07h

KKS	3.68	67	iPn	22 17.50	1.7	AUTN	7.03	300	P	23 03.30	-0.1		Z	11s	34.50um		5.5Msz						
PLE	3.69	44	ePn	22 17.90	1.8	OGA	7.05	332	eP	23 02.50	-1.0		N	13s	34.50um								
			eSn	23 07.00		AURF	7.06	299	P	23 03.65	0.1		E	14s	114.50um								
IVA	3.70	54	ePn	22 18.00	1.9	BUD	7.11	18	eP	23 08.00	3.8X					e	23 45.00						
			eSn	23 07.00		ENR	7.14	302	P	23 05.95	1.2					S	25 18.00						
MEU	3.71	191	P	22 17.10	0.8	TOUF	7.16	300	P	23 05.51	0.4	STU	9.32	332	eP	23 32.50	-2.4						
OHR	3.77	83	iPnd	22 19.00	1.9	STV	7.21	302	P	23 07.01	1.3		1.0s		20.00nm		5.4mb X						
KBN	3.77	90	iPnd	22 18.30	1.2	OSS	7.24	327	ePc	23 06.10	0.0	MOF	9.46	322	P	23 34.33	-2.6						
FAI	3.86	207	P	22 22.00	3.7X	DEV	7.27	43	iPc	23 08.50	2.1	GRF	9.52	342	ePn	23 35.40	-2.4						
LVI	3.87	226	P	22 19.20	0.7	KDZ	7.27	80	iP	23 06.00	-0.5				i(Pg)d	23 49.70							
CVT	3.88	219	P	22 20.30	1.8	VAI	7.27	317	P	23 05.00	-1.4				e(Sn)	25 00.40							
RSM	4.06	323	P	22 22.90	1.8	SRO	7.28	13	iPn	23 08.60	2.0				eSg	25 27.20							
SFI	4.34	318	P	22 27.70	2.5				i	23 18.00		BSF	9.61	321	P	23 36.19	-2.8						
PGD	4.38	317	P	22 27.40	1.5				i	23 28.80		PSN	9.61	68	iP	23 38.00	-1.0						
SKO	4.38	72	iPnc	22 26.50	0.8				i	23 54.60		ECH	9.71	323	P	23 37.56	-2.8						
Z	10s		76.64um			BHG	7.29	344	eP	23 06.00	-0.8	KRA	9.74	16	eP	23 42.80	2.0						
			i	22 30.10		CALN	7.30	297	P	23 06.70	-0.3				e	23 45.80							
			i	22 36.00		RDO	7.34	84	eP	23 07.60	0.1				e	23 53.80							
			i	22 43.30		VDL	7.37	323	ePc	23 07.40	-0.7				i	23 58.80							
			LR	24 36.00		DOI	7.38	303	P	23 07.00	-1.1				i	24 49.00							
RIY	4.72	347	iPn	22 29.90	-0.7	TMA	7.38	319	ePc	23 06.50	-1.7	WLS	9.77	325	P	23 38.58	-2.6						
			iPb	22 39.70		DIM	7.40	77	iP	23 10.00	1.8	CDF	9.80	324	P	23 39.01	-2.7						
			iSn	23 23.70		FRF	7.40	295	Pn	23 07.50	-0.8	PTT	9.80	47	eP	23 47.00	5.3X						
VBY	4.78	355	ePnc	22 32.50	1.1	KMR	7.41	351	ePn	23 08.00	-0.5	ETER	9.87	283	e(P)	23 50.50	7.9X						
			e	22 42.80		LMR	7.42	293	Pn	23 07.40	-1.2	HAU	9.94	320	Pn	23 40.90	-2.7						
			e	22 45.00		PVL	7.48	68	iP	23 09.00	-0.5				Sn	25 27.20							
			i(Sn)	23 33.20		ZST	7.50	6	ePn	23 09.30	-0.4	HOF	9.97	345	iPc	23 42.50	-1.4						
GRG	4.97	85	ePc	22 34.30	0.2				i(Pb)	23 20.30		ISK	10.01	84	eP	23 42.30	-2.1						
ZAG	5.07	1	iPnc	22 36.50	1.0				i	23 24.70		CFR	10.05	60	eP	23 43.00	-2.0						
			iSn	23 37.50					i	23 30.10		GWF	10.09	327	P	23 43.09	-2.5						
CEY	5.10	349	ePn	22 35.90	0.0				i	23 35.80		KSP	10.11	2	eP	23 46.00	0.2						
			i	22 50.50					i(Sn)	24 11.10					i	23 54.20							
			i(Sn)	23 30.00					i	24 28.70					i(S)	25 31.50							
LIT	5.11	95	iPd	22 36.20	0.2				i	24 40.80					i	26 23.50							
VAY	5.11	81	iPnc	22 35.60	-0.5	VKA	7.53	2	ePn	23 10.00	0.0	TOD	10.16	333	eP	23 44.82	-1.7						
MME	5.14	314	P	22 39.00	2.3				i	23 20.60		BIR	10.18	53	eP	23 48.00	1.2						
PTJ	5.15	1	iPnc	22 37.10	0.4				i	23 21.50		BRG	10.22	353	ePn	23 46.00	-1.3						
			eSn	23 36.00		ORX	7.54	313	P	23 07.85	-2.6				i	23 55.00							
TRI	5.19	344	ePnd	22 36.10	-1.1	LRG	7.56	294	Pn	23 10.50	0.0				i	24 00.00							
			iPg	22 55.40		RSP	7.69	308	P	23 12.71	0.2				i	24 55.00							
			iSn	23 38.00		PSZ	7.74	21	iP	23 14.60	1.6				i	26 38.00							
			i	23 46.30		MMK	7.82	315	ePc	23 16.00	1.6				i	26 49.00							
			iSg	24 09.40		TAVF	7.82	295	P	23 22.24	8.0X	LBL	10.26	300	P	23 49.54	1.6						
			i	24 24.00		RRL	7.86	305	P	23 15.75	0.7	VITF	10.27	320	P	23 45.34	-2.6						
BEO	5.30	38	iPn	22 38.50	-0.2	TNR	7.87	49	ePc	23 16.00	1.2	YLV	10.28	87	eP	23 47.00	-1.3						
			iPg	22 59.50		LLS	7.88	323	ePd	23 14.60	-0.5	PLDF	10.32	304	P	23 50.35	1.5						
			i(Sn)	24 14.50		LSD	7.92	309	P	23 14.58	-1.2	MOX	10.33	345	ePn	23 47.00	-1.9						
LJU	5.38	350	ePn	22 39.50	-0.4	BERF	7.99	292	P	23 20.96	4.3X		Z	12s	26.80um								
			ePb	22 51.70		BNI	7.99	306	P	23 18.50	1.7		N	14s	44.90um								
			eSn	23 44.60		SAX	8.02	326	ePc	23 17.00	-0.2		E	14s	77.00um								
THE	5.41	89	ePd	22 40.80	0.5	GANF	8.05	297	P	23 22.76	5.3X				i	24 00.00							
PGF	5.44	292	Pn	22 41.20	0.3	EZN	8.06	93	iP	23 16.30	-1.2				iSn	25 45.00							
VOY	5.47	346	ePn	22 40.10	-1.2	FUR	8.11	338	eP	23 18.00	-0.2				iSg	27 00.00							
			e	22 52.10		VILF	8.13	296	P	23 19.72	1.1	HRT	10.48	85	eP	23 51.80	0.8						
			eSn	23 56.00		DIX	8.13	314	ePc	23 18.50	-0.3	SMF	10.50	308	Pn	23 51.50	0.2						
KKB	5.56	76	iP	22 43.00	0.5	LPG	8.18	309	Pn	23 19.30	-0.1	LBF	10.60	310	Pn	23 50.50	-2.1						
SOH	5.70	87	iPd	22 44.00	-0.4	GELF	8.19	292	P	23 22.54	3.1X	IAS	10.61	49	eP	23 45.00	-7.7X						
VTS	5.81	69	iP	22 47.00	0.9	LPL	8.20	309	Pn	23 19.00	-0.7	PYM	10.62	302	P	23 53.34	0.4						
NEO	5.84	102	eP	22 46.00	-0.3	JMB	8.22	74	iP	23 19.00	-0.8	AGO	10.67	304	P	23 53.42	-0.1						
SRS	5.87	84	eP	22 46.30	-0.6	TREF	8.29	294	P	23 20.59	-0.2	CLL	10.75	350	ePn	23 53.00	-1.6						
ITM	5.92	125	iPc	22 46.50	-1.0	APE	8.39	113	eP	23 20.70	-1.5		1.3s		260.00nm		6.4mb X						
RBL	5.93	345	P	22 50.70	3.0X	EMS	8.39	312	ePc	23 22.40	0.0				i	24 07.40							
MMB	6.00	79	iP	22 48.00	-0.7	BUC	8.40	61	eP	23 23.00	0.7				iSn	25 57.00							
PAIG	6.04	95	eP	22 48.00	-1.1	VAM	8.47	126	eP	23 21.10	-2.1	TNS	10.80	334	ePc	23 54.10	-1.3						
CTI	6.12	331	Pc	22 51.10	0.7	PRAF	8.49	295	P	23 23.39	-0.2				eS	25 59.00							
BOB	6.19	313	P	22 53.10	1.7	KHC	8.54	350	P	23 22.50	-1.7	LOR	10.82	311	Pn	23 53.20	-2.4						
OUR	6.21	91	eP	22 50.70	-0.8				e	23 32.00		KHL	10.83	98	eP	23 57.30	1.4						
SAL	6.23	323	Pd	22 51.00	-0.8				S	25 07.00		ABH	10.84	330	eP	23 54.85	-1.0						
FVI	6.26	340	Pc	22 52.70	0.5	ZLA	8.61	324	ePc	23 23.50	-1.7	AVF	10.87	308	Pn	23 55.50	-0.7						
BZS	6.44	39	ePc	22 53.50	-1.3	WET	8.66	347	eP	23 23.60	-2.3	RUP	10.89	328	eP	23 55.84	-0.6						
			e	39 47.50		SLE	8.78	326	ePc	23 26.90	-0.6	SSF	10.91	309	Pn	23 56.10	-0.8						
PGB	6.48	71	iP	22 56.00	0.4	ISR	8.99	57	eP	23 34.45	4.0X	CAF	10.95	297	Pn	23 57.00	-0.5						
KBA	6.59	345	ePn	22 54.60	-2.4	SPC	9.00	19	e(Pn)	23 31.70	1.0	GPA	11.02	88	eP	23 57.00	-1.4						
			i	23 06.30			2.2s		1.00nm		3.8mb X	ALT	11.08	94	eP	23 58.00	-1.3						
PCP	6.59	308	P	22 58.12	1.1				i	23 47.90		MAF	11.09	304	Pn	23 58.30	-1.0						
FIN	6.63	304	P	22 58.87	1.3				i	24 13.10		TCF	11.35	304	Pn	24 03.30	0.5						
CKI	6.69	306	P	22 59.90	1.5				i	24 31.70		RJF	11.44	298	Pn	24 04.00	-0.1						
ATH	6.69	112	eP	22 57.80	-0.6				i	25 09.80		LPO	11.48	295	Pn	24 04.80	0.1						
MDI	6.74	320	P	22 57.50	-1.5				i	25 29.80		ELL	11.68	105	eP	24 08.00	0.6						
RZN	6.75	79	iP	22 59.00	-0.4				e	40 39.80		KSL	11.71	109	eP	24 07.00	-0.8						
PLD	6.79	76	iP	23 00.00	0.2	DMK	9.03	79	iP	23 30.10	-0.9	LSF	11.76	303	Pn	24 09.20	0.8						
VLI	6.84	124	iPc	23 00.20	-0.3	SMG	9.05	106	eP	23 30.10	-1.1	EPF	11.79	286	Pn	24 10.10	1.2						
ROB	6.88	304	P	23 02.55	1.4	FEL	9.07	324	P	23 29.05	-2.6	LFF	11.86	296	Pn	24 10.90	1.2						
SOP	6.96	4	eP	23 03.10	1.1	IZM	9.12	101	iP	23 31.80	-0.5	BCK	11.91	101	eP	24 10.80	0.3						
SCE	6.97	336	eP	23 01.80	-0.6	EDC	9.15	89	iP	23 32.30	-0.4	MEM	12.02	328	Pd	24 13.40	1.6						
REVF	6.97	298	P	23 02.63	0.3	LOMF	9.26	318	P	23 31.35	-2.9				i	24 24.70							
SBF	6.97	299	Pn	23 02.90	0.5	PRU	9.29	355	P	23 32.50	-2.0	ENN	12.18	329	eP	24 14.00	0.1						

05d 07h

	0.9s	113.00nm			6.1mb X	KEV	29.66	8 eP	27 25.00	-0.1				PP	35 16.00		
		e	24 24.50				Z 18s	15.80um		5.7Msz		TIY	70.92	56 P	32 40.80	3.9X	
		e	24 52.00					e	32 44.00				Z 14s	3.60um		5.8MszX	
DOU	12.23 324	Pc	24 15.10	0.4				LR	40 40.00				N 14s	3.40um			
		i	24 25.20			RYD	30.21 112	ePc	27 31.50	1.0			E 14s	2.80um			
		S	26 32.80			MAIO	34.17 83	eP	28 05.00	0.0				pP	32 48.00	23kmX	
SNF	12.67 324	P	24 19.60	-0.9				e	28 26.00					sP	32 54.50		
		i	24 31.90					eS	33 38.00			FFC	71.11 327	eP	32 38.00	0.3	
BBTK	12.94 88	eP	24 25.00	0.6		BCAO	36.23 175	ePd	28 21.20	-1.4			1.0s	12.00nm		5.0mb X	
MFF	12.97 302	Pn	24 25.30	0.7			0.7s	92.00nm		5.7mb X		BJI	71.82	53 eP	32 42.50	0.3	
DBN	13.52 331	eP	24 35.00	3.3X				ic	28 38.00				Z 15s	3.79um		5.8MszX	
	4.0s	4.10nm		3.8mb X				ic	29 48.90				N 14s	3.87um			
	Z 14s	26.60um				LKO	36.42 217	P	28 23.48	-0.8			E 14s	3.38um			
		e	24 45.00			KUK	37.35 207	eP	28 31.00	-1.0		KMI	71.83	72 Pd	32 47.00	4.2X	
		iS	27 47.00			KOGH	37.40 207	eP	28 31.80	-0.7			1.5s	100.00nm		5.7mb X	
KAS	13.54 81	eP	24 33.00	0.8		DAG	39.04 348	iPc	28 52.20	6.6X			Z 20s	1.20um		5.2MszX	
ETOR	13.58 276	iPc	24 35.00	2.3			0.7s	28.77nm		5.1mb X			N 17s	0.80um			
WIT	13.60 336	eP	24 35.00	2.2			Z 20s	3.83um		5.2MszX			E 15s	0.90um			
		e	24 46.00				N 21s	3.15um						sP	32 59.00		
LDF	13.80 310	Pn	24 37.30	1.8		QUE	42.40 88	eP	29 12.20	-1.9		CHG	72.84	80 eP	32 48.20	-0.4	
FLN	14.09 310	Pn	24 39.60	0.3				eS	35 48.00					e	40 28.00		
LPF	14.09 307	Pn	24 39.30	0.0		KSH	45.21 71	eP	29 37.00	0.4				e	49 44.50		
GRR	14.13 308	Pn	24 39.80	-0.1		NAI	45.97 150	eP	29 36.50	-6.4X		CHTO	72.84	80 eP	32 48.20	-0.4	
PPCY	14.28 109	eP	24 45.00	3.1X		NDI	50.92 83	eP	30 21.50	0.5			1.1s	5.59nm		4.6mb	
CSS	14.96 107	eP	24 47.00	-3.8X			0.8s	18.66nm		5.1mb X				pP	32 52.70	14kmX	
LFK	14.96 106	eP	24 47.60	-3.2X				eS	37 48.00			IMA	73.21 356	eP	32 52.20	2.0	
GUD	15.18 276	iPc	25 00.20	6.4X		WMQ	51.69 61	eP	30 28.00	1.3			0.7s	8.60nm		4.9mb	
FAM	15.43 106	eP	24 53.30	-3.6X		FRB	52.03 326	eP	30 28.00	-0.9				e	33 03.70		
HLW	16.64 126	eP	25 07.00	-5.4X		POO	54.02 96	eP	30 44.00	-0.3		JSC	73.34 301	P	32 49.00	-2.3	
		e(S)	27 55.00			SCH	54.09 315	eP	30 43.00	-1.3		GYA	73.83 69	P	32 59.20	4.8X	
EPLA	16.72 275	iPc	25 17.70	4.2X			0.5s	21.00nm		5.4mb X			N 20s	1.10um			
EVAL	17.80 267	iPc	25 33.70	6.8X		GKN	56.85 80	P	31 04.20	-0.8			E 20s	3.10um			
BURJ	18.12 112	Pd	25 27.40	-3.6X		DMN	57.41 80	P	31 08.50	-0.5		F8A	73.92 353	eP	32 58.00	3.9X	
SALJ	18.16 112	Pd	25 28.00	-3.6X		PKI	57.66 80	P	31 09.80	-1.1			1.0s	0.30nm		3.3mb X	
DSI	18.20 114	eP	25 27.80	-4.1X		GUN	57.83 79	P	31 11.40	-0.7		CN2	74.70 45	eP	33 03.00	4.0X	
KFNJ	18.24 113	Pc	25 28.90	-3.5X		CBM	58.12 307	e(P)	31 15.90	2.5			1.0s	200.00nm		6.1mb X	
NOH	18.44 117	eP	25 30.80	-4.2X		HYB	58.26 94	eP	31 13.50	-1.2			Z 15s	4.00um		5.8MszX	
PTO	18.47 279	eP	25 37.70	2.5		KRI	58.69 165	eP	31 25.00	7.3X			N 15s	3.00um			
		eS	29 08.00			MBC	59.86 349	eP	31 32.00	6.9X			E 15s	3.00um			
PRNI	18.68 118	eP	25 33.90	-4.0X			1.0s	21.00nm		5.2mb X				epP	33 08.00	16kmX	
UPP	19.17 3	iP	25 45.00	1.4		LSA	60.77 75	eP	31 37.00	4.5X				eS	42 46.00		
		iS	29 30.00					S	39 50.50			TIA	74.79	55 eP	33 01.20	1.5	
EKA	19.26 326	Pc	25 44.30	-0.5		GTA	61.77 61	eP	31 39.00	0.2			Z 19s	2.50um		5.5MszX	
	1.2s	30.40nm		4.4mb X			Z 20s	3.20um		5.5MszX			N 14s	1.30um			
HOL	19.41 120	eP	25 44.20	-2.5			N 14s	2.10um					E 14s	1.30um			
BLS1	19.51 346	iP	25 49.32	1.5			E 14s	2.10um						eS	42 44.50		
BADA	19.87 122	ePc	25 50.20	-1.5		KOD	61.95 101	eP	31 44.50	4.1X		SNY	74.99	47 Pc	33 06.00	5.4X	
RUWJ	20.17 107	Pc	25 54.00	-1.0		HBVT	62.40 306	P	31 41.00	-1.7			Z 14s	3.40um		5.8MszX	
AYN	20.29 119	ePc	25 56.00	-0.2		SHL	63.60 78	iP	31 49.40	-1.7			N 13s	2.10um			
NB2	20.52 354	P	25 57.40	-1.0				iS	40 32.00				E 13s	4.00um			
NUR	20.53 12	eP	26 01.00	2.6		LZH	66.25 62	Pd	32 08.70	0.6				sP	33 19.00		
	0.8s	76.30nm		5.1mb X			2.0s	120.00nm		5.7mb X				eS	42 41.00		
		i	26 09.40				Z 21s	2.80um		5.4MszX		NST	75.67	82 eP	33 11.50	6.6X	
		e	29 52.00				N 16s	2.00um				DL2	75.79	51 eP	33 12.00	6.7X	
BER	20.72 345	iP	26 01.60	1.3			E 14s	1.70um					Z 18s	1.80um		5.4MszX	
ASK	20.84 345	eP	26 02.58	1.0				pP	32 14.00	17kmX			N 14s	2.70um			
VAL	21.09 311	eP	26 12.00	7.8X				sP	32 22.70				E 14s	3.20um			
		S	30 15.00					PcP	32 31.50					eS	42 58.00		
MSL	21.75 93	ePc	26 11.50	0.5				ePP	34 44.00			LOE	75.79	79 eP	33 10.00	4.4X	
		ePPP	26 27.50			KSR	67.06 169	eP	32 15.00	1.8		MDJ	76.31	42 eP	33 14.20	6.0X	
		eS	30 18.00				1.0s	25.00nm		5.3mb X			Z 18s	4.00um		5.8MszX	
		e	30 33.00			SLR	67.14 168	iPd	32 21.00	7.3X			N 18s	2.80um			
		eSSS	31 26.50				1.0s	30.00nm		5.4mb X			E 18s	3.10um			
		eLQ	34 14.50				Z 17s	7.82um		6.0MszX		TTA	76.47 356	P	33 11.00	2.2	
		eLR	36 18.50			BRW	68.14 357	P	32 23.50	4.3X			1.0s	23.75nm		5.2mb X	
AKRL	22.15 135	iPc	26 16.00	0.9		SWZ	68.15 171	iPc	32 20.50	0.5		WHN	76.59	61 eP	33 14.50	4.6X	
AGMR	22.16 136	iPc	26 16.00	0.8			1.2s	132.81nm		6.0mb X			E 12s	1.50um			
ANAL	22.34 136	iPd	26 18.00	1.1		HHC	68.52 54	P	32 22.80	0.5				eS	43 06.00		
AGAL	22.40 135	iPc	26 18.00	0.4			Z 16s	4.00um		5.7MszX		EDM	76.66 331	eP	33 16.50	6.5X	
MOL	22.42 350	eP	26 19.91	2.4			N 14s	1.90um				FVM	76.69 309	eP	33 09.00	-1.4	
WAJH	22.50 124	ePc	26 20.30	1.8			E 14s	1.31um					1.0s	7.00nm		4.7mb	
SUF	22.86 12	iP	26 23.00	1.2		INK	68.87 348	eP	32 23.00	-0.8		SES	78.02 328	eP	33 19.00	1.4	
TAB	23.64 87	eP	26 31.00	1.1		CD2	69.13 67	eP	32 26.80	0.7			1.8s	183.00nm		5.9mb X	
		i	26 49.00				Z 18s	1.30um		5.2MszX		NJ2	78.57	58 Pd	33 26.00	5.2X	
SLY	23.81 93	eP	26 34.80	3.6X			N 12s	0.90um					N 15s	1.20um			
		iPPP	27 09.50					sP	32 44.00				E 15s	1.20um			
		eS	30 48.00					eS	41 31.00			SSE	80.69	57 Pd	33 37.50	5.2X	
		iSS	30 57.50					sS	41 44.00				Z 20s	0.90um		5.1MszX	
		eLQ	35 21.50			CVL	69.31 303	P	32 30.00	2.9X				sP	33 48.00		
BHD	23.90 99	ePd	26 36.00	3.8X		YKA	69.70 338	eP	32 28.30	-0.7				ePP	36 42.00		
		eS	30 51.00				0.8s	1.40nm		4.2mb				sS	43 50.00		
		eSS	32 04.00			RSON	70.02 321	eP	32 30.10	-1.0				SS	49 04.00		
		ePcS	33 56.00				1.0s	3.25nm		4.4mb		SNG	81.40	88 eP	33 41.20	5.0X	
		eLQ	35 25.00			XAN	70.82 61	P	32 36.10	-0.3		SDV	81.62 274	eP	33 45.20	7.6X	
		eLR	36 47.00				N 14s	1.40um				UYO	81.68 308	e(P)	33 36.80	-0.6	
SOD	27.34 9	iP	27 09.40	5.3X			E 14s	1.10um				NEW	82.09 330	eP	33 38.80	-0.6	
TRO	29.00 2	eP	27 12.20	-6.9X				sP	32 52.00				0.6s	0.98nm		4.1mb	

```
PNT     82.12 332 eP     33 46.00   6.6X
        1.0s     48.00nm          5.5mb X
LRM     82.22 326 eP     33 42.00   1.7
IMW     83.09 324 P      33 44.00  -1.0
BW06    83.35 323 eP     33 46.40   0.2
        0.8s     3.39nm          4.6mb
GLD     83.58 318 eP     33 48.40   1.0
        1.3s     13.79nm         5.0mb
MEO     83.66 311 e(P)   33 49.00   1.3
GOL     83.70 318 eP     33 49.00   0.9
        0.9s     3.03nm          4.5mb
GMW     84.73 333 P      33 53.00   0.2
LON     85.08 332 P      33 54.00  -0.6
MAT     86.68  43 (P)    34 07.00   4.3X
        1.4s     39.53nm         5.4mb X
      Z 20s      2.48um          5.6MszX
                 eS     45 08.00
ALQ     87.88 316 eP     34 10.00   1.2
        1.0s     8.75nm          5.0mb
KVN     90.15 326 P      34 20.00   0.5
MIN     90.49 329 e(P)   34 23.10   2.1
CMB     91.97 327 eP     34 29.00   1.3
        1.0s     0.30nm          3.6mb
SPA    130.55 180 ePKP   40 32.00   2.8X
        1.0s     2.50nm
                 i      40 45.20
     S.D. = 1.3  on 293 of 354 obs.
-------------------------------------
   MAY  05, 1990  07h 21m 29.54± 0.35s
   40.775 N ± 4.4km   15.766 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
   5.3mb ( 18 obs.)  5.4Msz (  6 obs.)
 SOUTHERN ITALY                   (390)
      MD 5.6 (TTG), 5.5 (TRI), 5.4
      (STR). ML 5.3 (LJU), 5.2 (THE).
      Two people died from heart
      attacks, 16 injured and domage
      (VII) in the Potenzo area. Felt
      strongly in many parts of
      southern Italy. Also felt along
      the coast of Montenegro,
      Yugoslavia.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 32C
      Centroid Location:
      Origin Time        07:21:31.9 0.6
      Lat 40.24N 0.06 Lon  15.58E 0.04
      Dep  26.0 FIX Half-duration  2.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.77 0.12  Mtt= 0.08 0.20
        Mff= 0.69 0.14  Mrt= 2.09 0.34
        Mrf=-1.93 0.29  Mtf=-5.11 0.13
       Principal Axes:
        T  Val=  6.60  Plg=21  Azm= 46
        N       -1.85      69      237
        P       -4.75       3      138
      Best Double Couple:Mo=5.7*10**17
       NP1:Strike=184 Dip=73 Slip=  13
       NP2:        90     78      162

SKO     4.43  72 eP     22 36.00  -2.4
VBY     4.74 356 eP     22 42.80   0.1
TRI     5.14 344 eP     23 46.30  57.9X
PGF     5.37 291 Pn     22 52.20   0.4
VOY     5.43 346 eP     22 52.10  -0.4
KBA     6.54 345 iPnc   23 08.50   0.2
                i       23 17.10
                i(Sn)   24 24.00
SBF     6.90 299 Pn     23 13.50   0.2
FRF     7.32 295 Pn     23 18.70  -0.4
LMR     7.35 293 Pn     23 18.60  -0.9
KMR     7.37 351 iPn+   23 23.00   3.2X
                iSn     24 42.60
LRG     7.49 294 Pn     23 21.10  -0.3
VKA     7.50   3 iPnd   23 22.90   1.4
                iPgPg   24 03.20
                iSn     24 48.80
LPG     8.11 309 Pn     23 30.30   0.0
LPL     8.13 309 Pn     23 30.30  -0.3
CMP     8.14  53 iPd    23 30.00  -0.6
BUC1    8.37  61 ePc    23 32.00  -1.8
KHC     8.50 350 eP     23 32.00  -3.5X
FEL     9.01 325 eP     23 40.17  -2.5
PRU     9.25 355 eP     23 45.00  -0.9
RAC     9.46  10 eP     23 55.00   6.2X
                e       24 06.00

                eS     26 06.00
VRI     9.47  54 ePd    23 49.50   0.6
BRD     9.51  56 eP     23 48.00  -1.5
BSF     9.54 321 Pn     23 47.30  -2.7
                Sn     25 28.80
KRA     9.73  16 eP     23 53.80   1.3
CDF     9.74 324 Pn     23 50.20  -2.5
                Sn     25 35.80
TLB     9.80  63 ePd    23 53.00  -0.5
HAU     9.88 320 Pn     23 51.90  -2.7
                Sn     25 37.60
ESEL    9.89 268 e(P)   23 54.20  -0.6
PPE    10.18  54 eP     24 01.50   2.8X
GBZT   10.38  85 eP     24 07.40   6.0X
SMF    10.43 308 Pn     24 01.70  -0.5
LBF    10.53 310 Pn     24 01.40  -2.1
                Sn     25 55.90
LOR    10.75 311 Pn     24 06.00  -0.5
                Sn     26 00.60
AVF    10.80 308 Pn     24 06.60  -0.5
SSF    10.84 309 Pn     24 07.20  -0.6
                Sn     26 04.20
CAF    10.88 297 Pn     24 08.10  -0.3
BGF    10.99 306 Pn     24 09.40  -0.5
MAF    11.02 304 Pn     24 10.40   0.2
TCF    11.27 304 Pn     24 14.70   1.0
RJF    11.37 298 Pn     24 15.10   0.1
LPO    11.41 295 Pn     24 14.90  -0.7
EBR    11.58 275 eP     24 16.00  -1.8
                eS     26 24.00
                eSS    26 38.00
EROQ   11.64 275 iPd    24 16.40  -2.3
LSF    11.69 303 Pn     24 20.60   1.2
EPF    11.72 286 Pn     24 21.00   1.2
BRN    11.78 352 ePc    24 24.00   3.6X
LFF    11.79 296 Pn     24 22.20   1.6
MEM    11.96 329 eP     24 24.70   1.9
DOU    12.17 324 eP     24 25.20  -0.5
UCC    12.78 325 eP     24 35.00   1.1
ECHE   12.86 270 iPd    24 35.30   0.2
MFF    12.90 302 Pn     24 36.50   1.0
LDF    13.73 310 Pn     24 46.80   0.4
FLN    14.02 310 Pn     24 50.60   0.4
LPF    14.02 307 Pn     24 50.00  -0.3
GRR    14.06 308 Pn     24 51.00   0.1
EVIA   14.23 267 eP     24 55.50   2.3
BSD    14.36 358 iPc    24 56.30   1.7
        0.8s     65.00nm          5.3mb
ENIJ   14.51 261 iPd    24 57.70   0.8
COP    15.08 353 eP     25 05.00   0.9
        1.2s    268.75nm         5.5mb
TOL    15.14 273 eP     25 03.00  -2.1
                iS     28 07.00
EBAN   15.32 267 i(P)   25 07.90   0.4
AFC    15.41 263 iPd    25 09.80   1.0
ASMO   15.53 264 iPd    25 10.50   0.2
APHE   15.62 262 iPc    25 11.60   0.1
AAPN   15.83 264 iPc    25 12.00  -2.2
ATEJ   15.88 262 eP     25 13.00  -1.9
ALOJ   15.89 263 iPc    25 11.00  -3.9X
MAL    16.25 262 iPc    25 20.00   0.7
                iS     28 40.00
EHOR   16.53 267 i(P)   25 23.30   0.4
EPRU   16.78 264 iPc    25 27.50   1.3
EJIF   17.14 262 iPc    25 31.70   1.1
ALJ    17.16 263 eP     25 35.50   4.5X
OJEN   17.32 261 eP     25 34.00   1.0
GIBL   17.37 264 eP     25 37.00   3.4X
MOMI   17.38 262 eP     25 31.00  -2.6
PLAT   17.48 262 eP     25 36.00   1.1
CNIL   17.61 263 eP     25 36.00  -0.5
ECP    18.95 314 eP     26 00.40   7.5X
LIS    19.25 272 iPd    25 57.90   1.1
HFS    19.43 357 eP     25 58.20  -0.5
        0.8s     79.90nm          5.0mb
      Z 17s      10.10um
                LR     31 57.00
KMY    19.61 344 iP     26 02.32   1.6
ODD1   19.99 346 eP     26 04.10  -0.7
HYA    21.25 347 eP     26 18.52   0.9
SUE    21.40 345 eP     26 20.48   1.2
RGS    22.51 354 eP     26 27.00  -3.3X
CFTV   27.35 253 iPc    27 15.20  -1.5
                i      27 23.10
TEH    28.29  89 eP     27 35.00   9.7X
GGC    28.65 254 iP     27 32.20   3.8X
                i      27 42.50

CTFE    28.91 255 iPc    27 29.90  -0.8
                i      27 36.00
TBT     30.02 257 iP     27 39.20  -1.4
                i      27 48.80
CHIE    30.57 255 eP     27 42.30  -3.2X
                i      27 52.90
AKU     31.43 334 eP     27 52.00  -0.7
        1.0s     64.00nm          5.5mb
REY     31.97 330 iP     28 00.00   2.6
SHGH    37.48 206 eP     28 42.60  -2.4
KBS     38.29 359 iP     28 52.50   1.3
LWI     44.43 161 iPc    29 39.30  -3.3X
WMQ     51.73  61 eP     30 44.00   5.0X
      Z 12s      3.19um          5.6MszX
BOM     53.09  97 iPc    30 47.30  -2.1
                eS     38 27.80
CBM     58.05 307 P      31 20.00  -4.9X
HYB     58.32  94 eP     31 23.00  -4.2X
        1.0s     60.00nm          5.6mb
GBA     59.84  98 P      31 36.00  -1.6
        1.0s     20.20nm          5.2mb
BUL     61.77 166 eP     31 51.10   0.3
WIN     63.03 179 iPd    32 00.50   1.4
        1.2s     54.69nm          5.6mb
      Z 20s      3.19um           5.5Msz
RSNY    63.13 307 eP     32 00.90   1.4
        0.9s     5.58nm           4.8mb
      Z 21s      2.93um           5.4Msz
PNJ     64.84 303 iP     32 11.90   1.2
RSON    69.95 320 eP     32 44.20   1.5
        1.0s     22.23nm          5.2mb
      Z 21s      1.63um           5.3Msz
BLF     70.20 170 iPd    32 46.50   2.0
FFC     71.05 327 eP     32 52.00   2.7X
        0.8s     36.00nm          5.6mb
CHTO    72.90  80 eP     33 02.10   1.2
        1.1s     20.61nm          5.1mb
                 pP     33 05.80  12kmX
CER     73.84 177 iPc    33 08.00   2.1
        1.0s     50.00nm          5.5mb
LLAV    77.64 273 eP     33 31.00   2.9X
CAR     77.71 273 eP     33 31.00   2.5
OLLA    77.93 273 eP     33 28.00  -1.7
RSSD    79.66 321 eP     33 40.80   1.9
TUL     81.18 310 e(P)   33 46.00  -0.8
        0.7s     12.70nm          5.1mb
      Z 19s      3.56um           5.7Msz
                 LR     00 00.00
NEW     82.03 330 eP     33 52.90   1.9
        1.0s     21.25nm          5.2mb
                 pP     33 57.80  16kmX
BW06    83.28 323 eP     33 58.20   0.3
        0.7s     13.30nm          5.3mb
                 pP     34 01.00   9kmX
GLD     83.52 318 e(P)   34 00.00   0.9
        1.0s     26.00nm          5.4mb
      Z 21s      1.18um           5.2Msz
GOL     83.63 318 eP     34 00.30   0.5
        0.7s     9.47nm           5.1mb
      Z 21s      2.47um           5.6Msz
PGC     83.94 334 eP     34 02.00   1.2
ANMO    87.81 316 eP     34 21.00   0.6
        0.6s     1.00nm           4.3mb
KVN     90.09 326 eP     34 32.50   1.3
                 pP     34 37.10  14kmX
WDC     90.59 330 e(P)   34 32.90  -0.3
SIV     90.68 249 P      34 32.00  -1.8
ORV     91.07 328 eP     34 33.20  -2.2
FRI     92.51 326 e(P)   34 40.50  -1.6
CCH     95.23 252 P      34 58.00   2.9X
ZOBO    95.94 254 P      34 58.00  -0.7
LPB     96.09 254 eP     35 01.00   1.8
AAI    109.31  78 ePdiff 35 55.90  -2.1X
WB5    124.20  87 ePdiff 37 14.70  10.5X
FORR   125.46 102 ePKP   40 32.00  -0.3
        0.4s     37.00nm
CTA    133.28  79 ePKP   40 49.00   1.4
BWA    142.32  96 ePKP   41 00.80  -3.2X
CAN    143.11  97 ePKP   41 01.50  -3.8X
DZM    149.01  62 iPKPc  41 12.40  -3.0X
TPT    150.51 326 iPKP   41 24.00   6.3X
        0.8s     45.00nm
RUV    150.59 325 iPKP   41 24.10   6.3X
        0.8s     40.00nm
PMO    150.65 326 iPKP   41 24.20   6.3X
        0.8s     35.00nm
VAH    150.74 326 iPKP   41 24.30   6.3X
```

05d 07h

```
        0.8s     30.00nm
TVO   153.70 326 ePKP  41 28.00    5.6X
        0.8s     35.00nm
      S.D. = 1.4  on 110 of 142 obs.
-------------------------------------
% MAY 05, 1990  07h 27m 29.29± 1.80s
  40.744 N ±16.3km   15.766 E ± 9.9km
  DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                (390)

SGO     0.39 242 Pc     27 37.70    0.3
                eSg     27 44.50
MGR     0.63 195 P      27 40.20   -1.7
                eSg     27 51.10
BRT     1.10  83 P      27 49.60   -0.3
                eSg     28 05.00
TDS     1.17 158 P      27 52.00    0.9
                eSg     28 07.80
ATN     2.59 185 P      28 12.50    0.5
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
   MAY 05, 1990  07h 33m 57.50± 0.46s
  40.648 N ± 4.5km   15.765 E ± 5.0km
  DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                (390)

SGO     0.36 256 P      34 05.20    0.3
                eSg     34 12.00
MGR     0.53 198 Pc     34 08.00   -0.3
                eSg     34 16.50
TDS     1.08 156 P      34 17.00   -0.8
BRT     1.12  78 P      34 17.60   -0.8
                eSg     34 33.40
DUI     1.41 316 P      34 23.90    0.6
LCI     1.70 100 P      34 28.00    0.7
SDI     1.81 306 P      34 29.90    0.9
AZI     2.21 308 P      34 35.00    0.3
ATN     2.50 185 P      34 38.10   -0.7
HVAR    2.58  11 ePn    34 41.40    1.4
                iSn     35 11.40
MNO     2.84 197 P      34 44.50    0.6
MNS     2.89 308 P      34 45.50    1.0
GIB     2.98 207 P      34 46.50    0.8
ARV     3.54 325 P      34 52.50   -1.1
OHR     3.84  81 e(Pn)  34 58.70    0.7
PGD     4.40 318 P      35 03.50   -2.6
PTJ     5.25   1 eP     35 13.50   -4.5X
CTI     6.17 332 P      35 30.00   -1.0
     S.D. = 1.1  on  17 of  18 obs.
-------------------------------------
*  MAY 05, 1990  07h 34m 32.33± 1.20s
   0.018 N ± 8.1km  123.566 E ±13.0km
   DEPTH = 213.4 ± 13.4 km
   4.8mb ( 11 obs.)
 MINAHASSA PENINSULA           (265)

TSM     6.90 307 eP     36 11.00   -1.1
        0.2s   179.60nm          5.9mb X
KKM     9.47 309 ePc    36 46.20    0.6
        0.5s   136.70nm          5.5mb X
PPR    10.82 334 ePd    37 05.00    2.1
MTN    14.82 150 eP     37 51.00   -2.1
                 e      37 53.00
KNA    16.49 162 iPd    38 12.70   -0.8
        0.5s    48.00nm          5.2mb
CVP    17.66 355 eP     38 25.50   -0.7
        1.0s    86.00nm          5.2mb
MBL    21.36 190 iPd    39 03.90    0.1
        0.4s     7.00nm          4.5mb
WRA    22.47 153 Pc     39 12.90   -1.7
        0.5s    24.30nm          5.0mb
QIZ    23.20 325 Pd     39 22.80    1.2
NANU   23.77 199 iPc    39 27.20    0.3
        0.4s    20.00nm          5.1mb
SNG    23.97 288 eP     39 29.80    0.9
QIS    25.77 143 iPd    39 46.60    1.1
WARB   26.22 174 iPd    39 50.30    0.8
        0.4s     4.00nm          4.5mb
CHTO   30.55 309 iP     40 27.90   -0.2
        0.8s     9.33nm          4.5mb
CD2    36.02 330 eP     41 14.80   -0.1
XAN    36.53 339 P      41 18.50   -0.6
MAT    38.80  19 eP     41 37.00   -1.0
        0.9s    18.49nm          4.7mb
LZH    40.30 335 P      41 52.00    1.5
        1.2s    34.00nm          4.7mb
BFD    40.96 157 eP     41 57.60    1.9
BWA    41.42 148 iPd    42 03.80    4.3X
CAN    42.41 149 iPd    42 10.30    2.7
GUN    45.53 311 P      42 32.20   -0.9
PKI    45.72 310 P      42 34.40   -0.1
DMN    45.97 310 P      42 36.40    0.0
GKN    46.53 310 P      42 39.70   -1.0
BUL    94.66 250 iPc    47 29.90   -1.0
INK    94.75  21 ePc    47 31.10    0.9
HFS    99.78 331 ePKP   47 51.20   -2.0
        0.9s     4.00nm          4.8mb
BRT   102.32 312 Pdiff  48 20.00   15.1X
                eSg     48 34.80
ORI   103.04 311 Pdiff  48 14.80    6.6X
                eSg     48 25.60
TDS   103.21 311 Pdiff  48 19.70   10.8X
MGR   103.70 311 Pdiff  48 10.40   -0.7
                eSg     48 18.00
SGO   103.80 312 Pdiff  48 07.50   -3.9X
                eSg     48 14.40
BSS   104.12 312 Pdiff  48 15.90    3.0X
                eSg     48 26.40
YKA   104.16  24 ePdiff 48 14.80    2.3X
        0.4s     0.20nm          4.4mb
DUI   104.19 313 Pdiff  48 26.50   13.2X
                eSn     48 45.00
SDI   104.65 313 Pdiff  48 33.50   18.2X
     S.D. = 1.3  on  28 of  37 obs.
-------------------------------------
   MAY 05, 1990  07h 38m 12.33± 0.36s
  40.750 N ± 2.5km   15.814 E ± 1.9km
  DEPTH =  15.0 ±  3.8 km
  4.5mb (  9 obs.)
 SOUTHERN ITALY                (390)
     MD 5.0 (TRI), ML 4.7 (THE), 4.5
     (TTG), 4.4 (LDG), 3.9 (LJU).
     Felt in the Potenzo area.

SGO     0.43 244 Pc     38 21.10    0.0
MGR     0.64 198 Pc     38 23.60   -1.1
BAI     0.88  65 P      38 30.00    1.3
BRT     1.06  83 P      38 30.50   -1.4
TDS     1.16 160 P      38 32.60   -1.0
DUI     1.37 312 P      38 39.40    2.5
LCI     1.68 104 P      38 44.00    2.7
SDI     1.78 303 P      38 44.20    1.4
AZI     2.18 305 P      38 50.80    2.4
                eSn     39 19.10
HVAR    2.47  11 ePn    38 52.80    0.2
                iPg     39 00.10
                i(Sn)   39 24.80
MSI     2.55 185 P      38 53.70   -0.1
RMP     2.57 295 P      38 55.50    1.4
ATN     2.60 186 P      38 53.80   -0.7
HCY     2.63  49 ePn    38 56.10    1.1
                eSn     39 35.00
ULC     2.86  64 ePn    39 00.10    1.9
                eSn     39 40.00
MNS     2.86 306 P      39 00.10    1.8
MNO     2.95 197 P      38 58.80   -0.8
SDA     3.05  64 iPnd   39 02.00    1.2
TTG     3.08  56 ePn    39 02.00    0.7
                eSn     39 45.30
GIB     3.09 207 P      39 01.50    0.1
TIR     3.12  78 ePn    39 05.00    3.1X
BERA    3.14  90 iPnd   39 07.50    5.4X
NKY     3.15  48 ePn    39 03.40    1.0
                eSn     39 48.20
KEK     3.22 107 eP     39 04.30    1.0
TPE     3.23  97 ePn    39 03.60    0.1
ASS     3.30 316 P      39 07.40    2.9X
SRN     3.32 104 ePn    39 05.00    0.4
ARV     3.48 323 P      39 08.10    1.1
MCT     3.55 209 P      39 10.40    2.3
BCI     3.58  62 iPn    39 09.80    1.5
PVY     3.62  58 ePn    39 10.40    1.3
                eSn     39 59.00
PLE     3.71  45 ePn    39 12.00    1.6
                eSn     40 01.50
MEU     3.71 191 P      39 10.60    0.2
                eSn     39 50.70
IVA     3.72  54 ePn    39 12.50    2.0
                eSn     40 03.00
OHR     3.79  83 iPn    39 12.50    1.0
                iSn     40 12.00
KBN     3.80  90 ePn    39 13.50    1.9
FAI     3.85 206 P      39 15.50    3.3X
LVI     3.86 225 P      39 12.80    0.5
CVT     3.86 218 P      39 13.20    0.8
RSM     4.04 323 P      39 17.20    2.4
SFI     4.32 318 P      39 21.40    2.5
PGD     4.35 317 P      39 22.00    2.5
SKO     4.41  72 iPn    39 20.50    0.4
RIY     4.71 348 ePn    39 23.20   -1.2
                iPg     39 40.90
                iSn     40 18.40
VBY     4.77 355 iPnc   39 26.10    0.8
PTS     4.94 218 P      39 27.80    0.1
GRG     5.00  85 ePd    39 28.10   -0.5
ZAG     5.07   1 iPn    39 30.00    0.6
                iSn     40 32.00
CEY     5.09 349 ePn    39 31.30    1.5
MME     5.11 314 P      39 32.60    2.2
LIT     5.14  95 ePd    39 30.90    0.4
VAY     5.14  81 ePn    39 29.40   -1.1
PTJ     5.15   1 iPnc   39 31.40    0.7
                e(Sn)   40 25.60
TRI     5.18 344 ePnd   39 30.20   -0.8
                iPg     39 50.80
                iSn     40 32.00
                iSg     41 03.50
BEO     5.31  38 ePn    39 33.00    0.1
                iPg     39 53.50
LJU     5.37 350 ePn    39 33.30   -0.5
                eSn     40 33.10
PGF     5.41 292 Pn     39 34.80    0.3
THE     5.44  89 iPc    39 32.80   -1.9
VOY     5.46 346 ePn    39 34.50   -0.6
                eSn     40 39.50
KKB     5.59  76 iP     39 37.00    0.1
SOH     5.72  87 ePn    39 38.40   -0.4
                eSn     40 42.50
VTS     5.83  69 iP     39 40.00   -0.5
NEO     5.87 102 eP     39 41.00    0.2
SRS     5.90  84 ePc    39 39.40   -1.9
ITM     5.95 125 eP     39 40.30   -1.6
MMB     6.03  79 ePd    39 44.00    0.9
PAIG    6.07  95 ePd    39 43.30   -0.3
CTI     6.10 332 P      39 42.50   -1.6
                eSn     40 50.10
BOB     6.17 313 P      39 45.50    0.4
SAL     6.20 323 P      39 44.70   -0.8
OUR     6.24  91 eP     39 44.70   -1.2
FVI     6.24 340 P      39 45.10   -0.8
                eSn     40 56.50
PGB     6.51  71 iP     39 51.00    1.1
KBA     6.57 345 iPnc   39 50.40   -0.5
                i       39 59.50
                i       40 10.20
                iPgPg   40 25.50
                iSn     41 05.20
                i       41 55.70
CKI     6.66 306 P      39 53.50    1.5
MDI     6.71 320 P      39 51.80   -0.9
ATH     6.72 112 eP     39 53.00    0.2
RZN     6.78  79 iP     39 54.00    0.2
PLD     6.82  76 eP     39 59.00    4.8X
VLI     6.87 124 eP     39 55.00    0.1
SBF     6.95 299 Pn     39 56.10    0.0
SCE     6.95 336 eP     39 57.00    0.8
SOP     6.95   4 ePn    39 57.30    1.3
OGA     7.03 332 eP     39 56.60   -0.7
VAI     7.25 317 P      39 58.20   -1.9
BHG     7.28 344 eP     40 00.50   -0.1
SRO     7.29  13 iPn    40 04.50    3.8X
                i       40 14.50
                i       40 34.60
                i       40 52.30
                i       41 20.40
KDZ     7.30  80 iPc    40 00.00   -0.9
DOI     7.35 304 P      40 01.60   -0.1
VDL     7.35 323 ePc    40 01.40   -0.4
TMA     7.36 319 ePd    40 00.40   -1.5
FRF     7.37 295 Pn     40 00.80   -1.1
RDO     7.37  84 eP     40 03.50    1.6
LMR     7.39 293 Pn     40 01.30   -0.9
KMR     7.40 351 iPn+   40 03.00    0.7
                iSn     41 22.20
DIM     7.42  77 iP     40 02.00   -0.6
ZST     7.50   7 e(Pn)  40 04.70    1.0
                i       40 15.00
                i       40 21.70
                i(Sn)   41 07.60
                i       41 24.20
PVL     7.51  68 eP     40 03.00   -0.8
```

VKA	7.52	3	iPnd	40	05.40	1.4
			i	40	09.20	
			i	40	36.80	
			i	40	49.20	
			iSn	41	28.70	
			i	41	56.80	
			i	42	16.10	
LRG	7.53	294	Pn	40	03.70	-0.5
PSZ	7.74	21	eP	40	08.30	1.2
MMK	7.79	315	ePd	40	07.10	-0.9
LLS	7.85	323	ePd	40	08.50	-0.3
TNR	7.88	49	ePd	40	11.00	1.9
BNI	7.97	306	P	40	09.50	-0.9
SAX	8.00	327	ePc	40	11.00	0.1
DIX	8.11	314	ePd	40	13.50	1.0
LPG	8.15	309	Pn	40	13.60	0.5
LPL	8.17	309	Pn	40	13.30	0.0
JMB	8.25	74	eP	40	13.00	-1.2
EMS	8.37	312	ePc	40	17.70	1.6
APE	8.42	113	eP	40	25.00	8.4X
VAM	8.49	126	eP	40	16.00	-1.6
KHC	8.53	350	P	40	16.30	-1.8
			e	40	21.50	
			S	41	47.00	
ZLA	8.59	324	ePd	40	18.50	-0.4
WET	8.65	347	eP	40	17.10	-2.6
SLE	8.76	326	ePd	40	19.40	-1.9
SMG	9.08	106	eP	40	26.00	0.4
IZM	9.15	101	ePn	40	26.00	-0.7
PRU	9.28	355	P	40	26.50	-1.9
			e	40	36.60	
VRI	9.45	54	ePd	40	30.50	-0.4
GRF	9.51	342	e(Pn)	40	29.80	-1.8
			e(Pg)	40	56.00	
			e(Sg)	42	08.00	
BSF	9.58	321	Pn	40	30.40	-2.3
			Sn	42	13.30	
CDF	9.78	324	Pn	40	32.50	-2.9
			Sn	42	17.60	
HAU	9.92	320	Pn	40	35.00	-2.3
			Sn	42	20.90	
HOF	9.95	345	eP	40	36.70	-1.0
KSP	10.10	2	eP	40	38.30	-1.4
			e	40	45.00	
			e(S)	42	21.00	
BRG	10.21	353	ePn	40	39.00	-2.2
			i	40	58.00	
			i	41	25.00	
			i	42	17.00	
			i	43	15.00	
			i	43	40.00	
MOX	10.32	345	ePn	40	42.00	-0.7
SMF	10.48	308	Pn	40	44.60	-0.3
LBF	10.57	310	Pn	40	46.60	0.3
			Sn	42	42.40	
CLL	10.74	350	ePn	40	47.00	-1.4
			eSn	42	50.00	
TNS	10.79	334	ePc	40	49.20	0.1
LOR	10.79	311	Pn	40	48.10	-1.1
			Sn	42	48.30	
A8H	10.82	330	eP	40	47.95	-1.6
AVF	10.84	308	Pn	40	50.60	0.7
RUP	10.87	328	eP	40	48.74	-1.5
SSF	10.89	309	Pn	40	49.20	-1.3
			Sn	42	46.30	
CAF	10.92	297	Pn	40	50.90	-0.2
BGF	11.04	306	Pn	40	52.60	0.0
MAF	11.06	304	Pn	40	54.20	1.2
TCF	11.32	304	Pn	40	57.10	0.7
RJF	11.41	298	Pn	40	58.70	1.0
LPO	11.45	295	Pn	40	59.10	0.8
ELL	11.71	105	eP	41	03.00	1.2
KSL	11.74	109	eP	41	01.50	-0.7
LFF	11.83	296	Pn	41	06.10	2.8
MEM	12.00	329	P	41	03.90	-1.6
			e	45	03.60	
ENN	12.16	329	eP	41	05.00	-2.6
	1.0s		14.00nm		5.2mb	
			e	41	08.50	
DOU	12.21	324	P	41	10.80	2.4
MFF	12.94	302	Pn	41	18.60	0.4
WIT	13.58	336	e(P)	41	10.00	-16.6X
FLN	14.06	310	Pn	41	33.30	0.4
LPF	14.06	307	Pn	41	33.20	0.2
GRR	14.11	308	Pn	41	33.80	0.2
TOL	15.18	273	eP	41	57.00	9.3X
EKA	19.24	326	P	42	40.00	1.6

	0.7s		4.20nm		3.8mb	
HFS	19.45	357	eP	42	40.60	-0.4
	0.7s		10.70nm		4.2mb	
NB2	20.51	354	P	42	52.40	0.1
	0.8s		10.30nm		4.2mb	
NUR	20.53	13	eP	42	52.00	-0.3
	0.9s		20.30nm		4.5mb	
SUF	22.86	12	iP	43	16.00	0.3
SOD	27.33	9	eP	44	02.00	3.9X
BCAO	36.24	175	ePd	45	16.80	0.1
	0.5s		10.00nm		4.9mb	
			id	45	23.00	
LKO	36.41	217	P	45	18.18	0.1
GKN	56.88	80	P	47	58.60	-0.5
DMN	57.44	80	P	48	03.30	0.1
PKI	57.69	80	P	48	03.80	-1.2
GUN	57.86	79	P	48	05.00	-1.2
MBC	59.84	349	eP	48	25.50	6.6X
BTO	67.72	55	eP	49	20.80	9.5X
YKA	69.69	338	eP	49	22.20	-0.6
	0.7s		1.20nm		4.1mb	
FFC	71.09	327	eP	49	32.00	0.5
	0.8s		6.00nm		4.8mb	
CHTO	72.87	80	eP	49	44.10	1.4
	0.9s		7.03nm		4.7mb	
GYA	73.86	69	P	49	50.20	1.8

S.D. = 1.3 on 162 of 174 obs.

% MAY 05, 1990 07h 51m 23.31± 0.61s
40.650 N ± 6.0km 15.758 E ± 5.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.35	255	P	51	30.80	0.2
			eSg	51	35.60	
MGR	0.53	197	P	51	33.30	-0.8
			eSg	51	41.40	
BSS	0.74	281	P	51	38.30	0.5
			eSg	51	48.30	
ORI	0.79	138	P	51	38.80	0.1
			eSg	51	50.40	
TDS	1.09	156	P	51	44.30	0.6
BRT	1.12	78	P	51	44.20	-0.1
			eSg	52	00.40	
DUI	1.41	316	P	51	48.50	-0.6
			eSn	52	10.00	
SDI	1.81	306	P	51	54.80	0.1

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

MAY 05, 1990 07h 59m 33.40± 0.37s
40.719 N ± 3.2km 15.822 E ± 4.6km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
SOUTHERN ITALY (390)
ML 2.8 (LJU). Felt at Potenza.

SGO	0.42	248	P	59	42.00	0.0
			eSg	59	49.60	
MGR	0.62	199	Pd	59	44.70	-1.1
BSS	0.78	276	P	59	49.30	0.8
			eSg	00	01.00	
BRT	1.06	81	P	59	54.60	1.2
			eSg	00	09.00	
TDS	1.13	159	P	59	56.20	1.6
			eSg	00	11.20	
DUI	1.39	313	P	00	00.40	1.4
			eSg	00	18.80	
RFI	1.51	293	P	00	01.91	1.5
LCI	1.67	103	P	00	05.50	2.7
			eSn	00	28.50	
SDI	1.81	304	P	00	05.80	1.0
GRI	1.95	166	P	00	07.40	0.4
AZI	2.20	306	P	00	10.50	0.0
AQU	2.44	313	P	00	15.90	1.9
HVAR	2.50	11	ePn	00	15.90	1.2
			iPg	00	22.80	
			iSn	00	48.30	
GMB	2.55	179	P	00	15.38	-0.2
RDP	2.56	295	P	00	16.70	1.0
ATN	2.57	186	Pd	00	15.10	-0.7
RMP	2.59	296	P	00	16.50	0.4
MNS	2.89	306	P	00	22.00	1.7
MNO	2.92	198	Pc	00	21.30	0.4
GIB	3.06	208	P	00	22.70	-0.1
ASS	3.33	316	P	00	28.10	1.5
ARV	3.51	323	P	00	29.80	0.7
MCT	3.52	210	P	00	28.20	-1.2

MEU	3.68	191	P	00	30.50	-1.1
			eSn	01	11.70	
PZI	3.75	191	P	00	33.20	0.6
OHR	3.79	82	ePn	00	37.00	3.8X
FAI	3.82	207	P	00	31.90	-1.7
PGD	4.38	317	P	00	41.90	0.3
SKO	4.41	72	ePn	00	39.50	-2.4
VBY	4.80	355	ePn	00	48.50	1.1
			iSn	01	46.00	
ZAG	5.10	1	i(Pn)	00	51.00	-0.6
			iSn	01	53.20	
CEY	5.12	349	eP	00	57.00	5.1X
			e(Sn)	01	51.00	
VAY	5.14	81	ePn	01	11.40	19.2X
PTJ	5.18	1	ePn	00	52.10	-0.7
			e(Sn)	01	47.50	
TRI	5.21	344	eP	00	52.10	-1.0
			e	02	27.70	
LJU	5.40	350	ePn	00	55.60	-0.4
			eSn	01	59.00	
VOY	5.49	346	ePn	00	56.70	-0.6
			eSn	01	59.60	
CTI	6.13	332	P	01	04.60	-1.7
			eSn	02	13.80	
SAL	6.23	323	P	01	05.50	-2.1
FVI	6.27	340	P	01	06.50	-1.6
			eSn	02	16.50	
KBA	6.60	345	e(Pn)	01	12.00	-1.0
			i	01	43.20	
			e	02	17.00	
			e	02	37.00	
CKI	6.69	306	P	01	13.00	-1.1
VAI	7.27	317	P	01	21.50	-0.7
BNI	7.99	306	P	01	31.50	-0.9
KHC	8.56	350	eP	01	40.90	0.7
			e	02	16.20	
PRU	9.31	355	eP	01	54.00	3.4X
			e	04	20.00	
NB2	20.54	354	P	04	13.10	-1.3
	0.8s		1.70nm		3.4mb	

S.D. = 1.2 on 43 of 47 obs.

MAY 05, 1990 08h 03m 48.08± 0.40s
40.731 N ± 3.5km 15.927 E ± 3.4km
DEPTH = 7.5 ± 3.3 km
SOUTHERN ITALY (390)
ML 3.3 (ROM), 2.6 (LJU). Felt at Potenza.

SGO	0.50	250	Pc	03	57.90	-0.3
			eSg	04	06.00	
MGR	0.66	206	Pc	04	00.90	-0.4
BSS	0.85	274	P	04	06.63	1.9
BRT	0.98	81	P	04	08.30	1.4
			eSg	04	23.50	
TDS	1.12	163	P	04	08.68	-0.6
DUI	1.45	310	Pc	04	16.30	1.6
			eSg	04	34.50	
RFI	1.58	292	P	04	21.52	5.1X
LCI	1.59	104	P	04	21.73	5.1X
SDI	1.87	302	P	04	22.40	1.7
			eSn	04	44.80	
HVAR	2.48	9	ePn	04	31.10	1.7
			iSn	04	38.40	
AQU	2.49	311	P	04	29.60	-0.1
ATN	2.59	188	P	04	30.30	-0.8
RDP	2.63	294	P	04	32.50	0.8
RMP	2.66	295	P	04	32.00	-0.1
MNS	2.94	305	P	04	36.40	0.3
MNO	2.95	199	P	04	37.00	0.6
GIB	3.11	209	P	04	38.80	0.3
KEK	3.13	108	eP	04	50.60	11.9X
ASS	3.38	315	P	04	44.00	1.7
ARV	3.55	322	P	04	43.30	-1.3
MEU	3.71	192	P	04	47.40	0.4
OHR	3.71	83	ePn	04	49.50	2.4
FAI	3.87	208	P	04	49.00	-0.2
SKO	4.33	72	ePn	04	55.70	-0.1
			i	05	10.50	
SFI	4.39	318	P	04	58.00	1.4
PGD	4.43	317	P	04	57.10	-0.2
VBY	4.80	354	ePn	05	03.20	0.8
			iSn	05	58.90	
GRG	4.92	85	ePgc	05	03.60	-0.5
LIT	5.05	95	ePg	05	06.70	0.7
VAY	5.06	81	ePn	05	10.00	3.9X
CEY	5.12	348	eP	05	07.00	0.0

05d 08h

		e	05	09.00		
		eSn	06	12.50		
PTJ	5.17	0 ePn	05	07.40	-0.3	
		e(Sn)	06	02.70		
TRI	5.22	343 eP	05	09.00	0.7	
		e	06	06.40		
		e	06	55.20		
LJU	5.41	350 ePn	05	11.00	0.0	
		eSn	06	12.00		
VOY	5.50	345 ePn	05	11.90	-0.5	
		eSn	06	13.20		
SOH	5.64	87 ePb	05	15.00	0.6	
		eSb	05	28.10		
SRS	5.82	84 ePbd	05	15.70	-1.1	
ITM	5.87	125 eP	05	16.50	-1.0	
		eS	06	22.00		
PAIG	5.98	95 ePbd	05	18.30	-0.7	
OUR	6.15	91 ePnd	05	20.40	-1.0	
CTI	6.16	331 Pc	05	19.90	-1.8	
		eSn	06	26.40		
FVI	6.29	340 P	05	20.60	-2.8	
KBA	6.61	344 e(Pn)	05	23.00	-5.2X	
		iSn	06	37.40		
VLI	6.79	124 eP	05	31.60	1.1	
VAI	7.32	317 P	05	36.00	-1.9	
S.D. = 1.2 on 40 of 45 obs.						

---

* MAY 05, 1990 08h 09m 28.51± 0.56s
5.653 N ±16.2km 61.491 E ±12.7km
DEPTH = 10.0km (geophysicist)
4.6mb (6 obs.)
CARLSBERG RIDGE (421)

KOD	16.46	73 eP	13	26.00	4.4X	
GBA	17.58	62 Pd	13	35.10	-0.3	
	0.9s	15.70nm			4.1mb	
POO	17.59	42 eP	13	37.00	1.5	
HYB	20.37	54 eP	14	07.50	-0.8	
QUE	24.94	11 eP	14	56.10	2.4X	
MAIO	30.56	357 eP	15	45.00	0.4	
SHL	35.18	52 iP	16	24.50	-0.6	
KRI	38.63	234 iPc	16	52.20	-2.0	
CHG	38.77	67 eP	16	55.90	0.7	
CHTO	38.77	67 eP	16	54.90	-0.3	
	1.6s	21.00nm			4.6mb	
BUL	41.25	231 iPd	17	15.10	-0.8	
BCAO	42.80	270 ePc	17	29.70	1.1	
	0.4s	4.00nm			4.5mb	
KSR	45.92	225 eP	17	54.00	0.4	
BLF	48.44	223 iPd	18	14.00	0.6	
WIN	51.68	236 iPd	18	40.10	1.7	
	1.0s	15.00nm			4.9mb	
HFS	65.21	336 eP	20	10.30	-1.8	
	0.7s	3.00nm			4.6mb	
WRA	75.94	112 Pc	21	24.10	6.2X	
	0.8s	4.00nm			4.6mb	
S.D. = 1.2 on 14 of 17 obs.						

% MAY 05, 1990 08h 24m 02.66± 0.64s
40.664 N ± 6.9km 15.765 E ± 5.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.36	253 P	24	09.70	-0.4	
		eSg	24	15.80		
MGR	0.55	197 P	24	13.00	-0.8	
		eSg	24	21.10		
BSS	0.74	280 Pc	24	18.60	1.4	
		eSg	24	28.70		
TDS	1.10	156 P	24	24.00	0.8	
BRT	1.11	78 Pd	24	23.40	-0.1	
		eSg	24	39.50		
DUI	1.40	316 P	24	27.50	-0.8	
LCI	1.70	100 P	24	32.50	0.0	
SDI	1.80	306 P	24	34.00	-0.1	
S.D. = 0.9 on 8 of 8 obs.						

% MAY 05, 1990 08h 26m 03.84± 0.85s
40.669 N ± 8.4km 15.755 E ± 7.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.36	252 P	26	11.20	0.0	
		eSg	26	16.30		
MGR	0.55	196 Pc	26	13.70	-1.4	
		eSg	26	22.40		
BSS	0.73	280 P	26	19.50	1.3	
		eSg	26	30.30		
TDS	1.10	156 P	26	25.60	1.0	
		eSg	26	40.90		
BRT	1.12	79 P	26	24.70	-0.1	
		eSg	26	38.70		
DUI	1.39	316 P	26	28.00	-1.4	
SDI	1.79	306 P	26	35.50	0.4	
S.D. = 1.3 on 7 of 7 obs.						

MAY 05, 1990 08h 41m 04.81± 0.76s
40.688 N ± 5.5km 15.857 E ± 8.1km
DEPTH = 17.0 ± 9.2 km
SOUTHERN ITALY (390)

SGO	0.44	253 Pc	41	13.10	-0.6	
		eSg	41	21.60		
MGR	0.60	203 Pd	41	15.40	-1.0	
BRT	1.04	79 P	41	24.00	0.0	
		eSg	41	40.00		
TDS	1.09	160 P	41	26.10	1.2	
		eSg	41	42.60		
DUI	1.44	313 P	41	31.50	1.4	
		eSg	41	51.00		
SDI	1.85	304 P	41	37.30	1.2	
		eSn	42	01.20		
HVAR	2.53	10 e(Pn)	41	46.60	0.9	
		iSn	42	16.60		
ATN	2.54	187 P	41	45.50	-0.5	
MNO	2.90	198 P	41	50.50	-0.7	
MNS	2.93	306 P	41	52.50	1.1	
GIB	3.05	208 P	41	54.50	1.3	
ASS	3.37	316 P	41	58.50	0.7	
ARV	3.55	323 P	42	01.00	0.7	
VBY	4.83	355 eP	42	38.00	19.5X	
		e(Sn)	43	48.00		
CTI	6.17	332 P	42	35.00	-2.4	
FVI	6.31	340 P	42	37.00	-2.3	
S.D. = 1.4 on 15 of 16 obs.						

% MAY 05, 1990 08h 45m 55.19± 0.84s
40.436 N ±10.1km 15.479 E ± 8.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.18	313 P	45	59.00	-0.2	
		eSg	46	04.50		
ORI	0.83	116 P	46	11.50	0.2	
		eSg	46	23.50		
BRT	1.38	71 P	46	19.10	-1.4	
DUI	1.45	328 P	46	22.00	0.5	
LCI	1.89	92 P	46	29.00	1.2	
ATN	2.27	180 P	46	33.00	-0.4	
S.D. = 1.1 on 6 of 6 obs.						

MAY 05, 1990 08h 58m 46.00± 0.44s
40.708 N ± 4.0km 15.723 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)
ML 3.2 (ROM), 2.8 (LJU). Felt in the Potenza area.

SGO	0.35	245 Pc	58	53.90	0.7	
		eSg	59	00.60		
MGR	0.58	193 Pc	58	56.70	-1.1	
		eSg	59	07.20		
BSS	0.70	277 P	59	00.30	0.5	
		eSg	59	12.70		
BRT	1.14	81 P	59	06.40	-0.9	
		eSg	59	22.20		
TDS	1.15	156 P	59	08.40	0.9	
		eSg	59	24.00		
DUI	1.35	315 P	59	12.50	1.6	
		eSg	59	30.20		
RFI	1.44	295 P	59	16.76	4.6X	
LCI	1.74	102 P	59	17.50	1.1	
		eSn	59	40.50		
SDI	1.75	305 P	59	17.80	1.2	
GRI	1.96	164 P	59	20.34	0.6	
AQU	2.40	314 P	59	27.20	1.3	
RDP	2.50	296 P	59	27.00	-0.4	
HVAR	2.53	12 e(Pn)	59	30.10	2.4	
		iPg	59	36.60		
ATN	2.55	185 Pd	59	27.10	-1.0	
MNS	2.83	307 P	59	31.90	-0.2	
MNO	2.89	196 P	59	33.00	-0.1	
GIB	3.02	206 P	59	34.80	0.0	
ASS	3.29	317 P	59	39.20	0.6	
ARV	3.47	324 P	59	39.90	-1.3	
MEU	3.65	190 P	59	43.20	-0.7	
FAI	3.78	206 P	59	49.00	3.4X	
OHR	3.87	82 ePn	59	52.30	5.4X	
CRE	4.05	317 P	59	49.50	0.1	
FNA	4.30	87 ePd	00	29.00	36.1X	
PGD	4.34	318 P	59	55.70	2.1	
SKO	4.48	72 ePn	59	55.80	0.3	
		i	00	10.50		
VBY	4.81	356 ePn	00	04.30	4.2X	
		i(Sn)	00	53.50		
CEY	5.12	350 e(Pn)	00	09.00	4.5X	
		eSn	01	05.00		
PTJ	5.19	2 ePn	00	04.30	-1.3	
		e(Sn)	00	59.20		
TRI	5.20	345 P	00	05.00	-0.6	
VAY	5.22	81 ePn	00	15.00	9.1X	
AGG	5.36	106 ePd	00	28.80	20.9X	
LJU	5.40	351 e(Pn)	00	12.00	3.5X	
		eSn	01	07.50		
VOY	5.49	347 ePn	00	08.50	-1.3	
		eSn	01	10.40		
CTI	6.11	332 P	00	16.50	-2.0	
		eSn	01	22.00		
BOB	6.15	313 P	00	19.00	-0.1	
SAL	6.20	324 P	00	17.00	-2.7	
FVI	6.26	341 P	00	18.90	-1.6	
KBA	6.60	346 eP	00	28.00	2.5	
		e(Sn)	01	38.00		
VAI	7.23	318 P	00	33.50	-0.7	
KHC	8.56	350 eP	00	49.00	-3.8X	
		e	02	29.50		
S.D. = 1.3 on 31 of 41 obs.						

% MAY 05, 1990 09h 03m 56.55± 0.87s
40.649 N ± 8.6km 15.788 E ± 6.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.38	256 P	04	03.50	-0.8	
		eSg	04	09.90		
MGR	0.54	199 Pd	04	06.40	-1.1	
		eSg	04	14.80		
BSS	0.76	281 P	04	12.40	1.0	
		eSg	04	23.80		
ORI	0.77	139 P	04	13.00	1.4	
		eSg	04	24.60		
TDS	1.07	157 P	04	17.20	0.4	
BRT	1.10	78 P	04	16.00	-1.2	
		eSg	04	31.30		
SDI	1.83	306 P	04	28.50	0.2	
S.D. = 1.3 on 7 of 7 obs.						

% MAY 05, 1990 09h 21m 23.74± 0.77s
40.546 N ± 8.0km 15.682 E ± 6.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.28	273 P	21	28.90	-0.8	
		eSg	21	35.00		
MGR	0.42	193 P	21	31.40	-0.9	
		eSg	21	39.20		
BSS	0.71	290 P	21	38.10	0.4	
		eSg	21	48.70		
ORI	0.76	129 P	21	39.30	0.7	
		eSg	21	48.40		
TDS	1.02	150 P	21	44.00	1.0	
		eSg	21	58.80		
BRT	1.20	74 P	21	44.80	-1.4	
DUI	1.45	321 P	21	51.00	1.0	
S.D. = 1.2 on 7 of 7 obs.						

MAY 05, 1990 09h 41m 54.68± 0.30s
1.164 N ± 5.4km 123.577 E ± 7.8km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
MINAHASSA PENINSULA (265)

DAV	6.21	19 eP	43	26.00	-0.5	
TSM	6.28	299 eP	43	27.50	0.0	
AAI	6.67	136 e(P)	43	40.50	7.5X	
PPR	9.82	331 ePd	44	16.00	-0.7	
KNA	17.57	163 eP	45	59.00	0.2	
MBL	22.49	189 eP	46	52.30	-0.4	
W85	23.44	154 eP	47	01.00	-1.1	
WRA	23.48	154 Pd	47	02.40	-0.1	
	0.5s	18.30nm			4.8mb	

SNG 23.66 285 eP 47 05.20 1.0
NANU 24.85 198 eP 47 15.30 -0.4
PMG 25.72 115 eP 47 24.00 0.0
QIS 26.69 145 iPc 47 32.60 -0.3
1.0s 56.00nm 5.1mb
MEKA 28.04 190 eP 47 43.90 -1.2
CHG 29.85 308 eP 48 05.60 4.1X
CHTO 29.85 308 eP 48 01.20 -0.3
1.0s 6.75nm 4.4mb
GYA 29.95 329 P 48 05.00 2.6
CD2 35.04 329 P 48 46.60 0.0
XAN 35.47 339 P 48 50.00 -0.2
TIY 37.79 346 Pc 49 09.60 -0.2
Z 14s 0.50um 4.5MszX
LZH 39.27 334 eP 49 22.50 0.2
4.0s 230.00nm 5.3mb X
Z 15s 0.50um 4.5MszX
E 13s 0.30um
BRS 39.93 137 iPd 49 27.00 -0.8
0.9s 4.00nm 4.2mb
BWA 42.38 149 eP 49 50.00 2.2
CAN 43.38 149 eP 49 56.90 1.0
e 51 44.40
GTA 43.81 333 eP 49 59.90 0.5
GUN 44.81 310 P 50 07.40 -0.5
PKI 45.00 309 P 50 08.60 -0.9
GKN 45.81 309 P 50 15.00 -0.7
0.8s 18.00nm 5.0mb
HYB 47.10 293 eP 50 21.00 -4.9X
GBA 47.29 287 P 50 28.00 0.7
0.6s 2.30nm 4.4mb
MAIO 68.60 309 eP 52 56.00 -0.9
MAW 80.28 200 iPd 54 04.30 0.9
TACH 144.93 159 ePKP 01 29.70 -1.0
PEL 145.48 159 iPKPc 01 32.00 0.3
0.5s 14.08nm
ZOBO 161.07 143 PKP 01 55.00 0.8
S.D. = 0.9 on 31 of 34 obs.

% MAY 05, 1990 10h 03m 05.91± 0.67s
40.665 N ± 6.6km 15.793 E ± 5.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.38 254 P 03 13.80 0.0
eSg 03 20.90
MGR 0.56 199 Pc 03 16.00 -1.2
eSg 03 25.00
BSS 0.76 280 P 03 21.00 0.2
eSg 03 33.10
ORI 0.78 140 P 03 21.60 0.4
TDS 1.09 157 P 03 27.80 1.4
eSg 03 43.20
BRT 1.09 78 P 03 25.50 -0.9
eSg 03 41.20
DUI 1.42 315 P 03 32.00 0.2
SDI 1.82 306 P 03 37.50 0.0
ATN 2.51 186 P 03 47.00 -0.5
S.D. = 0.9 on 9 of 9 obs.

? MAY 05, 1990 10h 40m 59.63± 2.05s
15.494 S ±64.8km 72.795 W ±31.4km
DEPTH = 97.3 ± 18.5 km
3.2mb (1 obs.)
SOUTHERN PERU (117)

PT03 3.27 297 iPd 41 49.90 0.1
iS 42 23.70
ZOBO 4.56 100 P 42 13.00 4.8X
LPB 4.63 104 eP 42 09.00 0.0
PT08 5.06 313 iPd 42 15.60 0.7
iS 43 09.40
NNA 5.25 311 eP 42 16.50 -0.8
0.4s 7.63nm 4.3mb X
eS 43 11.50
YKA 84.35 342 eP 53 21.70 0.0
0.6s 0.20nm 3.2mb
S.D. = 1.0 on 5 of 6 obs.

% MAY 05, 1990 11h 09m 00.60± 2.12s
40.762 N ±15.7km 14.291 E ±17.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.39 86 P 09 08.00 -0.6
eSg 09 17.50
SGO 0.80 104 P 09 16.10 0.0
eSg 09 28.70
DUI 0.91 8 P 09 19.00 1.0
SDI 1.01 339 P 09 19.00 -0.7
eSn 09 32.00
MGR 1.15 122 P 09 22.50 0.4
eSg 09 38.50
S.D. = 1.0 on 5 of 5 obs.

% MAY 05, 1990 11h 09m 40.06± 2.20s
40.847 N ±16.6km 14.259 E ±19.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BSS 0.42 98 P 09 48.00 -0.6
eSg 09 58.00
DUI 0.83 10 P 09 57.00 0.9
SGO 0.85 110 P 09 56.00 -0.4
eSg 10 08.50
SDI 0.92 339 P 09 57.00 -0.7
MGR 1.22 125 P 10 03.50 0.8
eSg 10 20.00
S.D. = 1.1 on 5 of 5 obs.

MAY 05, 1990 12h 17m 33.72± 0.61s
40.620 N ± 6.4km 15.791 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.37 261 Pd 17 40.60 -0.8
eSg 17 47.40
MGR 0.51 201 Pc 17 43.40 -0.7
eSg 17 51.90
ORI 0.75 138 Pd 17 48.10 -0.3
eSg 18 00.00
BSS 0.77 283 P 17 49.80 1.1
eSg 17 59.30
BAI 0.96 58 P 17 51.00 -0.9
eSg 18 04.00
TDS 1.05 156 P 17 55.00 1.5
BRT 1.10 76 Pd 17 53.60 -0.8
eSg 18 09.70
DUI 1.45 316 P 18 01.50 1.5
LCI 1.67 99 P 18 04.50 1.3
SDI 1.84 307 P 18 04.50 -1.2
ATN 2.47 186 P 18 14.00 -0.6
S.D. = 1.2 on 11 of 11 obs.

MAY 05, 1990 12h 36m 03.16± 0.82s
42.551 N ± 7.7km 24.155 E ± 5.6km
DEPTH = 5.0km (geophysicist)
BULGARIA (359)
ML 2.9 (THE).

PGB 0.01 99 iPgc 36 04.00 -0.2
PLD 0.60 137 iPgd 36 15.00 -0.2
VTS 0.70 274 iPg 36 15.00 -2.2
RZN 0.96 154 iPc 36 21.00 -1.0
MMB 1.01 198 iPd 36 23.00 0.2
KKB 1.05 230 iPg 36 22.00 -1.4
SRS 1.49 197 ePbd 36 30.10 -0.6
eSb 36 51.70
KNT 1.68 214 ePb 36 33.30 0.0
eSb 36 55.50
VAY 1.71 224 iPn 36 33.80 0.1
SOH 1.83 199 ePn 36 35.10 -0.5
eSn 37 02.00
GRG 2.06 220 ePn 36 40.10 1.2
SKO 2.10 255 ePn 36 41.70 2.3
THE 2.12 205 ePn 36 41.50 1.9
eSn 37 10.70
OUR 2.22 183 ePnd 36 44.20 3.1X
PAIG 2.65 188 ePn 36 51.30 4.1X
FNA 2.73 231 ePnd 36 48.50 0.0
OHR 2.89 241 ePn 36 55.20 4.4X
EZN 3.18 148 iPn 37 14.40 19.7X
MLR 3.21 23 eP 37 10.00 14.7X
EDC 3.55 127 iPn 37 15.10 15.0X
BZS 3.57 330 ePc 37 05.00 4.7X
VRI 3.80 28 ePc 37 04.00 0.4
IZM 4.78 149 ePg 37 07.40 -10.2X
eSg 37 18.90
S.D. = 1.3 on 15 of 23 obs.

% MAY 05 1990 13h 12m 48.02± 0.77s
40.[illegible] N ± 9.8km 15.025 E ± 6.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.39 266 P 12 53.40 -0.6
eSg 12 59.30
MGR 0.49 205 Pc 12 56.10 0.1
eSg 13 03.70
BSS 0.80 285 P 13 02.00 0.5
eSg 13 13.50
BAI 0.95 56 P 13 04.00 0.0
eSg 13 18.00
BRT 1.09 74 P 13 06.30 -0.1
eSg 13 22.20
S.D. = 0.6 on 5 of 5 obs.

% MAY 05, 1990 13h 15m 17.27± 0.76s
40.604 N ±10.0km 15.850 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.41 264 Pc 15 25.20 -0.5
eSg 15 31.80
MGR 0.52 206 Pc 15 27.90 0.2
iSg 15 36.70
BSS 0.82 284 P 15 33.50 0.4
eSg 15 45.00
BAI 0.93 56 P 15 35.00 0.0
eSg 15 48.50
BRT 1.06 75 Pd 15 37.20 -0.1
eSg 15 53.60
S.D. = 0.5 on 5 of 5 obs.

? MAY 05, 1990 13h 19m 07.72± 3.42s
38.942 N ±36.4km 22.463 E ±11.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG 0.13 308 ePgd 19 10.00 -0.9
eSg 19 12.00
PAIG 1.36 43 ePb 19 32.60 -0.1
eSb 19 49.20
IGT 1.76 290 ePn 19 39.00 0.6
eSn 20 01.50
OUR 1.82 40 ePn 19 39.10 -0.2
GRG 2.01 359 ePn 19 42.70 0.6
e 20 07.40
S.D. = 0.9 on 5 of 5 obs.

MAY 05, 1990 13h 35m 35.03± 0.60s
40.687 N ± 6.6km 15.795 E ± 5.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.39 251 Pd 35 43.10 0.0
eSg 35 50.10
MGR 0.58 199 Pc 35 45.60 -1.2
eSg 35 56.10
BSS 0.76 278 P 35 49.70 -0.2
eSg 36 01.50
BAI 0.92 62 P 35 52.00 -0.6
eSg 36 06.00
BRT 1.09 79 P 35 55.10 -0.4
eSg 36 10.40
TDS 1.11 158 Pc 35 58.10 2.3
DUI 1.40 314 P 36 01.50 0.8
LCI 1.68 101 P 36 04.50 -0.1
SDI 1.81 305 P 36 06.50 0.0
ATN 2.54 186 P 36 16.00 -0.9
S.D. = 1.1 on 10 of 10 obs.

MAY 05, 1990 13h 49m 26.10± 0.29s
45.658 N ± 5.0km 104.451 E ± 5.7km
DEPTH = 33.0km (normal)
4.8mb (18 obs.)
MONGOLIA (334)

BTO 6.49 139 P 51 01.00 -0.9
HHC 7.07 130 Pc 51 08.30 -1.7
Z 10s 3.80um
S 52 30.80
GTA 7.12 210 Pd 51 06.00 -4.7X
0.8s 100.00nm 5.8mb X
Z 12s 3.50um
LZH 9.57 183 eP 51 45.00 0.2
Z 12s 2.40um
E 10s 9.40um
pP 51 49.00
sP 51 55.00
S 53 27.00
TIY 9.93 140 Pc 51 48.00 -1.6

05d 13h

BJI		10.27	119	eP	51 54.00	-0.2
		0.8s		15.00nm		5.3mb
XAN		12.10	162	P	52 15.00	-4.1X
TIA		13.43	130	eP	52 37.00	0.3
	Z	14s		1.40um		
	N	10s		0.40um		
SNY		14.34	99	eP	52 50.60	2.0
	Z	10s		1.00um		
	N	16s		3.50um		
	E	16s		1.80um		
CD2		14.73	182	P	52 54.80	0.9
	Z	12s		1.00um		
	E	10s		4.60um		
CN2		15.04	90	Pc	52 58.50	0.8
				epP	53 02.00	
WHN		16.96	149	eP	53 23.50	1.2
	N	10s		1.20um		
	E	10s		1.50um		
NJ2		17.58	136	eP	53 30.80	0.8
	N	10s		0.50um		
MDJ		17.75	84	eP	53 36.00	3.9X
	Z	10s		1.70um		
LSA		19.05	218	P	53 51.20	2.6
				eS	57 13.00	
GYA		19.24	174	P	53 53.00	2.5
	N	10s		0.40um		
	E	10s		2.30um		
KMI		20.54	184	Pc	54 04.00	-0.5
		1.5s		100.00nm		5.0mb
	Z	15s		0.90um		4.3MszX
	E	10s		3.20um		
				S	57 52.00	
KSH		21.80	264	eP	54 16.50	-0.6
	E	10s		2.20um		
SHL		22.45	211	iP	54 22.50	-1.2
				eS	58 40.00	
GUN		23.03	226	P	54 27.40	-2.3
PKI		23.55	226	P	54 33.00	-1.6
GKN		23.60	228	P	54 34.20	-0.7
DMN		23.67	227	P	54 34.80	-1.0
CHG		27.16	191	eP	55 10.00	1.7
CHTO		27.16	191	eP	55 07.00	-1.3
		0.7s		3.34nm		4.1mb
NDI		27.34	241	iPd	55 13.50	3.6X
MAIO		34.81	271	eP	56 13.00	-2.8
HYB		35.47	226	ePc	56 22.50	1.0
SOD		44.40	327	eP	57 34.00	-0.7
SUF		45.72	321	eP	57 46.00	0.7
NUR		47.09	318	iP	57 57.00	0.9
		0.7s		10.70nm		5.0mb
HFS		52.23	321	eP	58 32.40	-3.3X
		0.7s		7.40nm		4.8mb
	Z	15s		0.27um		4.4MszX
				LR	18 14.00	
NB2		52.88	322	P	58 38.10	-2.5
		0.7s		5.80nm		4.7mb
MBC		55.18	12	eP	58 55.50	-1.7
KSP		55.56	310	eP	59 00.50	0.2
BRG		56.80	311	eP	59 10.10	0.9
		1.0s		12.00nm		4.9mb
PRU		56.97	310	P	59 11.00	0.6
	Z	14s		0.40um		4.7MszX
	N	14s		0.30um		
CLL		57.06	312	eP	59 11.00	0.0
		1.0s		10.00nm		4.8mb
KHC		57.96	309	Pd	59 18.80	1.4
MOX		58.16	312	eP	59 20.00	1.3
INK		58.44	22	eP	59 24.00	3.6X
GRF		58.91	311	ePc	59 25.50	1.5
		1.1s		20.00nm		5.2mb
	Z	16s		0.40um		4.6MszX
KBA		59.26	307	e(P)	59 24.50	-2.2
		1.0s		8.90nm		4.8mb
FVI		59.86	307	P	59 30.50	0.0
CTI		60.82	307	P	59 38.50	1.3
MEM		61.07	314	P	59 39.60	0.9
SFI		61.98	305	P	59 43.50	-1.5
PGD		62.09	305	P	59 46.00	0.0
EKA		62.37	322	P	59 48.00	0.6
		1.0s		4.50nm		4.6mb
BSF		62.37	311	eP	59 47.80	0.1
HAU		62.50	311	eP	59 48.80	0.4
		1.1s		9.75nm		4.8mb
VAI		62.52	308	P	59 49.50	1.0
BOB		62.83	307	P	59 40.00	-10.7X
LPL		63.86	309	eP	59 58.50	0.8
LPG		63.86	309	eP	59 58.60	0.8
BNI		64.18	309	P	00 00.50	0.8
LOR		64.27	312	eP	59 59.90	-0.2
		0.9s		3.30nm		4.4mb
LBF		64.39	312	eP	00 00.80	-0.1
SSF		64.59	312	eP	00 02.10	0.0
SMF		64.68	311	eP	00 02.80	0.1
		1.2s		8.95nm		4.7mb
LDF		65.42	315	eP	00 07.70	0.2
FLN		65.49	315	eP	00 07.90	0.0
MAF		65.62	312	eP	00 09.60	0.8
		1.1s		7.35nm		4.7mb
TCF		65.77	312	eP	00 10.30	0.6
GRR		65.93	315	eP	00 10.90	0.2
MFF		66.77	313	eP	00 16.90	0.8
YKA		67.76	18	eP	00 19.50	-2.6
		0.6s		4.10nm		4.7mb
WRA		70.71	150	Pd	00 39.70	-1.0
		0.8s		2.10nm		4.3mb
FRB		70.80	357	eP	00 44.00	3.4X
FFC		77.51	15	eP	01 18.00	-1.6
		1.0s		10.00nm		4.8mb
SIV		148.03	333	PKP	09 15.00	8.3X
ZOBO		150.05	346	PKP	09 15.00	4.5X
		S.D. = 1.3		on 62 of 72 obs.		

MAY 05, 1990 13h 52m 58.94± 0.50s
40.885 N ± 4.4km 22.963 E ± 4.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.6 (THE).

THE		0.25	180	iPgd	53 04.10	-0.2
				eSg	53 07.60	
KNT		0.28	350	ePgc	53 04.90	0.1
				eSg	53 08.60	
SOH		0.30	102	ePgd	53 05.10	-0.2
				eSg	53 09.20	
GRG		0.43	280	ePgd	53 07.60	-0.2
				eSg	53 14.10	
VAY		0.53	326	iPg	53 09.30	-0.3
SRS		0.53	64	ePgc	53 15.50	5.8X
LIT		0.86	205	ePgc	53 15.20	-0.4
				eSg	53 29.20	
OUR		0.95	125	ePgd	53 17.50	0.5
				eSg	53 29.80	
PAIG		1.10	150	ePg	53 19.60	0.0
				eSg	53 34.70	
FNA		1.21	266	ePb	53 22.20	0.7
				eSb	53 39.40	
		S.D. = 0.4		on 9 of 10 obs.		

MAY 05, 1990 14h 11m 18.93± 0.42s
1.115 N ± 8.0km 123.658 E ±10.7km
DEPTH = 27.8km (2 depth phases)
4.9mb (4 obs.)
MINAHASSA PENINSULA (265)

DAV		6.23	18	eP	12 50.00	-1.5
TSM		6.38	299	iPd	12 53.90	0.4
AAI		6.58	136	eP	12 59.00	2.6
BAG		15.50	349	eP	15 00.00	2.5
IPM		22.86	279	ePd	16 26.90	5.5X
WB5		23.36	154	eP	16 25.10	-1.1
WRA		23.40	154	Pc	16 25.50	-1.1
		0.6s		34.30nm		5.1mb
NANU		24.83	198	iPd	16 40.40	0.0
		0.4s		17.00nm		5.0mb
PMG		25.63	115	eP	16 48.00	0.0
QIS		26.60	145	iPc	16 55.60	-1.4
LOE		26.96	308	eP	17 02.00	1.7
CHG		29.95	307	eP	17 27.10	-0.2
CHTO		29.95	307	eP	17 27.30	0.0
		0.8s		1.10nm		3.7mb X
				pP	17 36.10	30km
KMI		31.27	321	eP	17 40.00	0.9
FORR		32.07	173	eP	17 44.00	-1.7
CD2		35.12	329	P	18 11.60	-0.7
XAN		35.54	339	P	18 14.60	-1.2
TIY		37.86	345	eP	18 31.70	-3.6X
SHL		39.10	311	iP	18 45.50	-0.6
LZH		39.35	334	P	18 47.50	-0.5
		1.4s		22.00nm		4.7mb
	Z	17s		0.20um		4.0MszX
				pP	18 55.00	25km
BWA		42.30	149	eP	19 14.10	2.1
CAN		43.30	149	iPc	19 21.00	0.8
GTA		43.89	333	iPd	19 25.00	0.0
GUN		44.90	310	P	19 33.70	0.0
DMN		45.35	309	P	19 37.30	0.2
GKN		45.90	309	P	19 41.30	-0.1
HYB		47.20	293	eP	19 58.00	6.4X
GBA		47.38	287	Pc	20 00.60	7.6X
		0.8s		4.80nm		4.6mb
WMO		53.19	328	P	20 36.00	-1.1
		S.D. = 1.3		on 25 of 29 obs.		

? MAY 05, 1990 14h 25m 45.69± 8.12s
30.494 S ±46.6km 67.794 W ±43.7km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL		1.02	215	iPd	26 04.80	-0.1
				eS	26 26.80	
CFA		1.17	199	ePc	26 07.90	0.3
				(S)	26 30.70	
RTCB		1.31	221	iP	26 10.00	0.0
RTCV		1.50	205	ePc	26 12.50	-0.3
				S	26 42.10	
RTBS		1.84	230	eP	26 17.70	0.2
				(S)	26 50.20	
		S.D. = 0.3		on 5 of 5 obs.		

& MAY 05, 1990 14h 45m 56.90s
37.838 N 121.980 W
DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).
Mo=9.8*10**13 Nm (BRK).

BKS		0.21	281	iPc	46 01.20	0.2
				iS	46 04.90	
BRK		0.22	279	iPc	46 01.50	0.1
ZSP		0.24	296	iP	46 02.00	0.2
				iS	46 06.40	
PCC		0.46	223	iPd	46 05.80	-0.4
MHC		0.56	151	iPc	46 08.40	0.2
ARN		0.60	144	iPd	46 09.00	0.0
GCC		0.81	181	iPd	46 12.30	-0.7
NWRM		0.95	311	e(P)	46 14.00	-1.6
SAO		1.15	158	e(P)	46 19.60	0.5
CMB		1.28	81	iPd	46 19.50	-1.8
				iS	46 36.00	
FRI		2.00	114	eP	46 29.50	-2.4
KVN		3.28	67	eP	46 48.20	-2.2
		12 obs. ossocioted				

% MAY 05, 1990 15h 15m 25.07± 0.50s
40.659 N ± 5.7km 15.840 E ± 4.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO		0.42	256	Pc	15 33.20	-0.4
				eSg	15 39.90	
MGR		0.56	203	Pc	15 35.30	-1.2
				eSg	15 44.10	
ORI		0.75	142	P	15 40.20	0.4
				eSg	15 49.80	
BSS		0.80	280	P	15 40.80	0.3
				eSg	15 52.40	
BAI		0.90	59	P	15 42.00	-0.4
				eSg	15 56.00	
BRT		1.06	78	P	15 44.10	-0.9
				eSg	15 59.60	
TDS		1.07	159	P	15 46.10	0.9
DUI		1.45	314	P	15 51.50	0.1
LCI		1.64	101	P	15 54.50	0.4
SDI		1.85	305	P	15 57.50	0.3
		S.D. = 0.7		on 10 of 10 obs.		

MAY 05, 1990 15h 43m 09.55± 1.65s
24.263 S ±10.5km 179.657 W ± 6.1km
DEPTH = 484.3 ± 21.4 km
4.9mb (16 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM		12.97	277	iPc	46 01.70	1.9
HBZ		13.41	187	P	46 07.00	2.8
PUZ		13.88	187	P	46 11.40	2.3
WLZ		14.13	196	P	46 12.90	1.2
NOZ		14.45	187	P	46 15.40	0.5
PGZ		16.66	191	P	46 35.20	-1.9
		0.4s		60.00nm		5.5mb
MNG		16.81	193	P	46 35.80	-2.9
CAW		17.37	193	P	46 43.20	-0.9

BLW	17.54	192	P	46 44.30	-1.5
WEL	17.60	194	P	46 46.40	0.0
	0.8s	2029.85nm		6.8mb	X
CCW	18.17	195	P	46 52.90	1.0
LTZ	19.64	198	P	47 05.30	-0.9
BRS	24.99	257	iPc	47 55.50	0.1
	0.6s	9.00nm		4.5mb	
COO	25.99	250	iPc	48 05.50	1.2
RMO	28.59	259	iPd	48 28.30	1.2
	0.7s	76.00nm		5.3mb	
CAN	29.23	241	iPd	48 33.20	0.5
BWA	29.51	243	iPd	48 33.80	-1.2
PMO	31.24	79	iP	48 49.40	-0.5
	0.8s	20.00nm		4.7mb	
VAH	31.39	79	iP	48 50.20	-1.0
	0.8s	15.00nm		4.5mb	
TPT	31.49	79	iP	48 51.40	-0.7
	0.8s	40.00nm		5.0mb	
RUV	31.63	79	iP	48 52.50	-0.8
	0.8s	20.00nm		4.7mb	
CTA	31.79	271	iPd	48 54.80	0.1
	1.0s	198.00nm		5.6mb	
PMG	34.91	289	ePd	49 20.00	-0.9
	0.9s	84.03nm		5.2mb	
QIS	37.75	267	iPd	49 43.90	-0.4
WB5	42.69	267	iPd	50 23.20	-1.0
		e		55 10.90	
WRA	42.69	266	Pc	50 23.40	-0.9
	0.5s	35.60nm		5.1mb	
FORR	46.44	250	eP	50 52.00	-1.3
	0.4s	47.00nm		5.3mb	
MTN	47.80	275	eP	51 02.00	-1.8
KNA	48.97	270	iPd	51 11.70	-1.1
MRWA	57.05	250	eP	52 09.30	-1.3
SPA	65.88	180	iPd	53 09.20	1.2
	0.9s	7.73nm		4.3mb	
MAT	72.37	325	iPd	53 45.20	-1.8
	0.9s	13.45nm		4.5mb	
NJ2	81.13	311	Pc	54 35.00	0.3
PRS	81.58	44	eP	54 37.50	0.6
MDJ	82.74	326	eP	54 41.50	-1.0
PLM	82.78	49	eP	54 44.10	0.8
FRI	83.04	44	eP	54 44.60	0.4
CMB	83.25	43	eP	54 45.50	0.2
WHN	83.47	308	P	54 47.00	0.5
ORV	83.51	41	eP	54 45.90	-0.6
WDC	83.53	40	eP	54 47.10	0.5
SNY	84.12	321	eP	54 49.00	-0.5
CN2	84.36	323	Pd	54 50.20	-0.4
TIA	84.71	314	eP	54 52.40	-0.1
TNP	85.28	45	iP	54 55.90	0.3
	0.7s	1.00nm		3.6mb	X
KVN	85.29	43	eP	54 55.90	0.3
TIY	88.66	313	Pd	55 12.20	0.8
XAN	89.21	308	P	55 14.50	0.5
KMI	89.71	298	Pd	55 17.50	0.8
	1.2s	30.00nm		5.1mb	
CHG	90.10	291	ePd	55 19.10	0.8
	1.0s	13.25nm		4.8mb	
CHTO	90.10	291	iPd	55 19.50	1.2
	1.2s	16.67nm		4.8mb	
HHC	90.90	315	P	55 22.80	1.1
CD2	91.54	303	P	55 26.00	1.2
KEV	131.83	348	ePKP	01 21.00	-6.5X
SUF	137.84	343	ePKP	01 27.00	-12.0X
NUR	140.06	342	ePKP	01 44.00	0.9
NB2	142.49	351	PKP	01 42.60	-4.8X
	0.7s	3.10nm			
HFS	142.96	349	ePKP	01 43.20	-5.0X
	0.5s	12.00nm			
HRI	147.82	294	ePKP	02 01.00	3.8X
PRNI	148.70	289	ePKP	02 03.00	4.4X
MBH	148.82	288	e(PKP)	02 04.00	5.3X
KSP	150.74	339	iPKPd	02 06.60	5.6X
	0.6s	28.00nm			
CLL	151.29	343	iPKPd	02 07.50	5.8X
	0.8s	20.00nm			
		epP	04	11.00	
BRG	151.43	342	iPKPd	02 08.00	6.0X
	0.6s	20.00nm			
		e	04	11.60	
PRU	152.03	340	ePKP	02 09.00	6.1X
		e	02	21.50	
ZST	152.67	335	e(PKP)	02 11.30	7.5X
		e	02	24.50	
		e	21	35.00	
KHC	153.09	341	ePKP	02 12.00	7.6X

S.D. = 1.2 on 54 of 67 obs.

& MAY 05, 1990 16h 26m 22.89s
34.449 N 106.878 W
DEPTH = 6.5km
NEW MEXICO (496)
<SNM>. MD 3.6 (SNM). Felt at Abeytas, Bernardo ond Polvadera.

LAZ	0.22	258	P	26 27.20	-0.3
LPM	0.24	124	P	26 27.80	-0.2
BMNM	0.36	241	P	26 29.90	-0.3
BNM	0.37	146	P	26 30.00	-0.4
WTX	0.3B	189	P	26 30.00	-0.6
CRNM	0.51	166	P	26 32.50	-0.7
SBM	0.54	208	P	26 33.00	-0.7
ALQ	0.60	35	iPd	26 34.20	-0.8
ANMO	0.61	35	iPd	26 34.80	-0.3
SMNM	0.68	190	P	26 35.70	-0.8
PV09	4.43	336	eP	27 29.00	-3.4
GOL	5.38	13	eP	27 46.50	0.7
MSU	5.89	315	eP	27 52.00	-0.9
GLA	6.77	260	eP	28 10.00	4.8
MEO	6.85	85	e(P)	28 07.00	0.7
TPC	7.60	270	eP	28 43.00	26.2
			e	30 24.00	
PLM	8.37	265	eP	29 04.00	36.2
SBB	9.03	275	eP	29 09.00	32.2
TNP	9.10	296	e(P)	28 57.00	19.1
KVN	10.11	300	e(P)	29 09.00	17.3
UYO	10.28	88	eP	29 01.30	7.4

21 obs. associated

% MAY 05, 1990 16h 37m 14.90± 0.66s
43.636 N ± 7.1km 7.030 E ± 5.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (LDG).

FRF	0.29	255	Pg	37 20.70	-0.2
			Sg	37 25.80	
SBF	0.37	52	Pg	37 21.80	-0.7
			Sg	37 27.80	
LMR	0.49	232	Pg	37 25.20	0.5
			Sg	37 33.40	
LRG	0.52	250	Pg	37 24.80	-0.6
			Sg	37 32.60	
PGF	1.81	126	Pn	37 46.70	0.3
			Sn	38 10.50	
LPG	1.87	354	Pg	37 48.00	0.5
			Sg	38 12.40	
LPL	1.89	354	Pg	37 48.10	0.4

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

• MAY 05, 1990 16h 40m 40.95± 1.47s
39.259 N ±11.8km 23.144 E ± 9.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.8 (THE).

AGG	0.68	250	ePgd	40 53.90	-0.5
			eSg	41 04.30	
PAIG	0.79	32	ePgc	40 56.50	0.3
			eSg	41 07.40	
LIT	0.98	329	ePg	40 59.00	-0.6
OUR	1.25	31	ePbd	41 03.80	-0.4
			eSb	41 20.30	
THE	1.38	354	ePb	41 04.90	-1.3
			eSb	41 22.80	
SOH	1.57	6	ePb	41 09.40	0.5
			eSb	41 28.20	
GRG	1.79	342	ePnc	41 11.80	-0.3
			eSn	41 33.90	
SRS	1.89	10	ePn	41 13.60	0.1
KNT	1.91	354	ePnc	41 13.80	0.0
			eSn	41 37.00	
FNA	2.04	319	ePn	41 16.00	0.2
			eSn	41 40.80	
VAY	2.11	348	ePn	41 18.00	1.3
IGT	2.20	278	ePn	41 18.70	0.7
OHR	2.58	317	ePn	41 32.00	8.5X

S.D. = 0.8 on 12 of 13 obs.

? MAY 05, 1990 16h 51m 46.91± 1.69s
40.918 N ±17.8km 14.432 E ±25.3km
DEPTH = 29.8 ± 11.0 km
SOUTHERN ITALY (390)

BSS	0.31	114	P	51 54.50	0.0
			eSg	52 02.50	
DUI	0.74	2	P	52 01.50	0.2
			eSg	52 15.00	
SGO	0.76	118	P	52 01.00	-0.4
			eSg	52 13.50	
SDI	0.91	330	P	52 03.50	-0.2
			eSg	52 17.80	
MGR	1.16	132	P	52 07.50	0.4
			eSg	52 25.50	

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

• MAY 05, 1990 17h 10m 10.52± 1.43s
2.716 S ± 6.7km 79.657 W ±13.5km
DEPTH = 28.8 ± 9.5 km
4.8mb (9 obs.)
NEAR COAST OF ECUADOR (105)
Felt (III) at Guayaquil.

TUNG	1.77	43	P	10 38.50	-1.5
			eS	11 00.00	
VC1	2.42	31	P	10 49.60	0.2
GGP	2.74	23	eP	10 54.00	0.0
			eS	11 24.00	
QTO	2.74	24	eP	10 54.30	0.4
			S	11 27.60	
GECU	2.80	32	eP	10 56.60	1.8
CAYA	3.24	31	P	11 01.30	0.2
COTA	3.31	24	eP	11 02.00	0.0
			eS	11 44.00	
BOG	9.19	37	eP	12 50.00	25.5X
			eS	15 00.00	
PT10	9.67	164	e(P)	12 30.00	-0.9
			e(S)	14 20.00	
ZOBO	17.61	141	P	14 15.00	-1.2
	1.0s	22.50nm		4.3mb	
Z	20s	1.37um			
			S	18 00.00	
			LR	22 00.00	
LPB	17.83	141	P	14 21.00	2.3
Z	18s	2.06um			
			eLR	21 32.00	
CCH	19.71	139	P	14 44.50	3.3X
SIV	22.55	127	P	15 09.20	-0.7
MEO	41.32	336	e(P)	17 56.20	0.8
ALQ	45.12	328	eP	18 26.00	-0.5
	1.0s	15.00nm		4.9mb	
ORV	56.94	322	eP	19 56.70	1.0
SES	59.36	337	eP	20 12.00	-0.5
FFC	60.15	345	iPd	20 16.60	-1.2
	0.7s	6.00nm		4.8mb	
PNT	62.26	332	eP	20 32.00	-0.2
	0.6s	4.00nm		4.7mb	
YKA	70.22	344	eP	21 20.20	-2.4
	0.6s	2.00nm		4.4mb	
LKO	74.77	79	P	21 48.62	-1.8
	0.9s	24.00nm		5.2mb	
INK	79.90	342	eP	22 18.00	0.1
MBC	82.05	351	eP	22 29.00	0.0
	0.7s	7.00nm		4.8mb	
EKA	84.57	34	P	22 42.00	-0.3
	0.9s	3.50nm		4.6mb	
SPA	87.30	180	iPc	22 57.80	2.0
	1.0s	14.50nm		5.2mb	
CN2	133.43	335	PKP	29 44.70	18.7X
WB5	139.75	235	ePKP	29 31.00	-7.5X
KNA	146.43	236	ePKP	29 51.50	1.4

S.D. = 1.3 on 24 of 28 obs.

MAY 05, 1990 17h 18m 57.99± 0.35s
15.913 N ± 7.0km 54.178 E ± 4.1km
DEPTH = 10.0km (geophysicist)
4.7mb (22 obs.) 3.6Msz (1 obs.)
ARABIAN SEA (417)

QUE	18.41	37	eP	23 15.00	-0.3
			e(S)	26 49.00	
MAIO	20.85	12	iPd	23 42.60	0.0
GBA	22.61	93	P	24 02.00	1.8
	0.9s	9.70nm		4.3mb	
HYB	23.40	83	eP	24 09.50	1.5
NAI	24.21	227	iPd	24 19.00	2.8
GKN	30.61	62	P	25 14.30	-0.5
	0.7s	12.00nm		4.9mb	
DMN	30.90	63	P	25 17.20	-0.3
	0.7s	19.00nm		5.1mb	
PKI	31.15	63	P	25 18.70	-1.0

05d 17h

	0.7s	23.00nm		5.2mb		
GUN	31.64	62 P	25	23.80	-0.3	
BCAO	36.82	256 iPc	26	09.20	0.9	
	0.6s	36.00nm		5.3mb		
MLR	37.82	327 eP	26	35.00	18.5X	
WMQ	39.77	39 P	26	34.00	1.2	
KRI	40.56	218 iPd	26	38.30	-1.3	
MGR	41.30	314 P	26	46.50	1.2	
SDI	43.15	315 P	26	58.00	-2.5	
BUL	43.76	216 eP	27	03.30	-2.4	
VBY	43.93	320 e(P)d	27	08.10	1.4	
ZST	44.27	325 e(P)	27	10.00	0.6	
		e	27	39.40		
ARV	44.49	317 P	27	13.00	1.7	
ASS	44.49	316 P	27	15.00	3.6X	
LJU	44.64	321 e(P)	27	13.50	1.0	
TRI	44.95	320 P	27	15.50	0.6	
VOY	45.02	320 e(P)	27	15.60	-0.1	
SFI	45.38	317 P	27	18.50	0.1	
PGD	45.45	317 P	27	20.00	0.8	
FVI	45.97	321 P	27	24.00	1.1	
KMI	46.19	70 Pc	27	25.00	-0.3	
		pP	27	30.50	18kmX	
KSP	46.20	327 eP	27	25.20	0.4	
BDI	46.27	317 P	27	26.50	1.0	
CTI	46.42	319 P	27	27.00	0.3	
PRU	46.66	326 eP	27	28.50	0.1	
KHC	46.74	324 P	27	28.50	-0.6	
BOB	47.30	317 P	27	34.50	0.8	
OSS	47.64	320 ePc	27	37.00	0.6	
VAI	48.17	318 P	27	40.00	-0.3	
TMA	48.20	318 ePd	27	40.50	-0.3	
SAX	48.37	320 ePd	27	42.00	-0.3	
LLS	48.43	319 ePd	27	42.20	-0.4	
FRF	48.75	314 eP	27	45.30	0.4	
LMR	48.77	314 eP	27	45.60	0.6	
LRG	48.91	314 eP	27	46.80	0.7	
	0.7s	4.40nm		4.6mb		
ZLA	49.06	320 ePc	27	47.00	-0.3	
SLE	49.11	320 ePd	27	47.60	0.0	
DIX	49.13	318 ePd	27	48.00	-0.1	
BNI	49.24	316 P	27	54.00	5.2X	
LPG	49.34	317 eP	27	49.60	-0.2	
	0.7s	9.35nm		4.9mb		
LPL	49.36	317 eP	27	49.70	-0.2	
	0.6s	9.00nm		5.0mb		
EMS	49.43	318 ePd	27	50.00	-0.4	
GYA	49.76	69 P	27	52.00	-1.0	
CDF	50.12	321 eP	27	55.20	-0.3	
	0.7s	4.40nm		4.5mb		
BSF	50.19	320 eP	27	55.50	-0.5	
SMF	51.64	317 eP	28	06.50	-0.5	
	0.6s	2.70nm		4.4mb		
LBF	51.67	318 eP	28	07.20	0.0	
	0.7s	10.45nm		4.9mb		
LOR	51.84	318 eP	28	08.20	-0.2	
	0.6s	9.00nm		4.9mb		
SSF	51.99	318 eP	28	09.50	-0.1	
	0.6s	3.60nm		4.5mb		
AVF	52.01	317 eP	28	09.30	-0.4	
	0.7s	2.75nm		4.3mb		
XAN	52.19	59 P	28	14.10	2.7	
BGF	52.26	317 eP	28	11.70	0.0	
	0.7s	10.45nm		4.9mb		
CAF	52.30	315 eP	28	11.70	-0.3	
MAF	52.34	317 eP	28	12.30	0.0	
TCF	52.60	317 eP	28	14.10	-0.1	
RJF	52.78	315 eP	28	15.40	-0.2	
	0.6s	3.60nm		4.5mb		
LPO	52.84	314 eP	28	15.80	-0.2	
HFS	52.98	336 eP	28	15.20	-1.5	
	0.6s	4.90nm		4.6mb		
Z	18s	0.05um		3.6Msz		
		LR	50	58.00		
LSF	53.04	316 eP	28	17.20	-0.3	
LFF	53.21	315 eP	28	18.60	-0.1	
BTO	53.98	51 eP	28	24.20	-0.4	
NB2	54.50	336 P	28	26.80	-1.2	
	0.7s	2.30nm		4.3mb		
LDF	54.79	319 eP	28	29.60	-0.7	
	0.5s	3.65nm		4.7mb		
FLN	55.07	319 eP	28	31.50	-0.8	
	0.5s	5.85nm		4.9mb		
HHC	55.18	51 eP	28	33.00	-0.4	
GRR	55.21	318 eP	28	32.30	-1.0	
LPF	55.22	318 eP	28	32.70	-0.7	
	0.5s	4.35nm		4.7mb		

TIY	55.43	55 Pc	28	34.40	-0.8	
LKO	58.48	272 P	28	57.62	0.4	
	0.6s	13.50nm		5.2mb		
SSE	62.46	63 Pc	29	24.50	0.5	
WB5	86.43	112 eP	31	41.00	-1.5	
	S.D. = 1.0	on 74 of 77 obs.				

% MAY 05, 1990 17h 41m 37.70± 0.71s
40.629 N ± 8.7km 15.773 E ± 6.1km
DEPTH = 28.1 ± 9.4 km
SOUTHERN ITALY (390)

SGO	0.36	259 P	41	45.50	-0.3	
		eSg	41	52.50		
MGR	0.52	199 Pc	41	47.90	-0.4	
		eSg	41	56.40		
BSS	0.75	283 P	41	53.10	0.9	
		eSg	42	04.30		
ORI	0.77	137 P	41	52.80	0.4	
		eSg	42	02.80		
BAI	0.96	59 P	41	55.00	-0.3	
BRT	1.12	77 P	41	57.70	0.2	
		eSg	42	12.80		
DUI	1.43	317 P	42	01.50	-0.5	
	S.D. = 0.7	on 7 of 7 obs.				

& MAY 05, 1990 18h 01m 43.71s
59.493 N 152.992 W
DEPTH = 105.9km
2.9mb (1 obs.)
SOUTHERN ALASKA (2)
<AGS-P>.

AUE	0.24	235 iP	01	58.03	0.7	
AUL	0.25	244 iP	01	58.32	0.9	
XLV	0.65	93 iP	02	00.91	-0.6	
		iS	02	14.34		
CDD	0.66	211 iP	02	00.66	-0.9	
		eS	02	14.26		
CNPM	0.90	87 iP	02	03.19	-0.6	
RED	0.94	7 iP	02	03.34	-1.0	
		eS	02	19.19		
NNL	1.02	57 eP	02	05.21	0.1	
8RLK	1.10	75 eP	02	05.34	-0.7	
RDT	1.12	15 iP	02	05.30	-1.0	
NKA	1.53	34 eP	02	12.05	1.0	
SLKM	1.72	53 eP	02	12.33	-1.2	
SPU	1.76	15 iP	02	13.11	-0.8	
CRP	1.83	13 iP	02	14.32	-0.6	
SEW	1.89	70 eP	02	14.55	-1.0	
		iS	02	37.11		
NCG	1.96	12 iP	02	16.00	-0.6	
SVW	2.08	322 eP	02	16.73	-1.4	
SUA	2.27	28 iP	02	20.09	-0.6	
		eS	02	48.32		
PMS	2.45	43 eP	02	22.14	-0.8	
		eS	02	51.28		
SKT	2.60	15 iP	02	23.80	-1.1	
PWA	2.66	34 eP	02	25.41	-0.2	
PLRM	2.84	41 eP	02	26.98	-1.2	
GHO	3.04	39 eP	02	29.80	-1.2	
CUT	3.21	23 eP	02	32.57	-0.6	
GLI	3.26	62 eP	02	31.43	-2.4	
SML	3.26	43 eP	02	32.21	-1.8	
VZW	3.57	61 eP	02	36.26	-1.9	
VLZ	3.70	61 eP	02	38.53	-1.3	
KLU	4.03	57 iP	02	42.62	-1.9	
TOA	4.25	49 eP	02	46.01	-1.4	
BALM	5.52	69 eP	03	02.84	-2.2	
YKA	18.66	64 eP	05	53.40	-2.4	
	0.4s	0.30nm		2.9mb		
	31 obs. associated					

---

* MAY 05, 1990 18h 45m 54.59± 0.65s
36.779 N ±16.8km 72.918 E ±13.4km
DEPTH = 33.0km (normal)
4.1mb (7 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

NDI	8.85	155 eP	48	09.00	5.9X	
	0.4s	15.25nm		5.5mb	X	
		eS	49	49.00		
MAIO	10.81	271 eP	48	30.00	-0.2	
		eS	50	26.00		
GKN	13.20	128 P	49	02.60	0.1	
	0.4s	18.00nm		5.4mb	X	
DMN	13.78	128 P	49	10.20	0.1	

PKI	13.99	127 P	49	12.20	-0.8	
	0.6s	11.00nm		4.8mb		
GUN	14.07	125 P	49	13.00	-1.0	
GBA	23.43	169 Pc	51	07.30	5.6X	
	0.6s	2.90nm		4.0mb		
HFS	43.80	322 eP	53	57.50	-1.1	
	0.8s	2.70nm		4.1mb		
NB2	45.09	323 P	54	09.80	0.7	
	0.8s	1.10nm		3.8mb		
M8C	66.98	3 ePc	56	45.50	-0.1	
	0.9s	4.00nm		4.5mb		
WRA	80.84	123 Pc	58	09.40	2.6	
	0.6s	1.20nm		4.1mb		
YKA	80.88	4 eP	58	06.00	-0.3	
	0.6s	0.70nm		3.8mb		
	S.D. = 1.2	on 10 of 12 obs.				

MAY 05, 1990 19h 47m 02.42± 0.43s
38.019 N ± 4.0km 22.737 E ± 5.4km
DEPTH = 10.9 ± 3.4 km
3.4mb (1 obs.)
GREECE (364)
ML 3.0 (THE), 3.0 (ATH).

ATH	0.78	93 ePb	47	19.00	1.6	
		eSn	47	29.00		
AGG	1.05	342 ePgc	47	22.60	0.4	
		eSg	47	37.10		
ITM	1.06	218 ePn	47	22.00	-0.3	
		eSn	47	37.50		
VLI	1.31	173 ePn	47	26.00	-0.5	
NEO	1.34	16 ePn	47	27.00	0.0	
PAIG	2.04	21 ePn	47	36.40	-0.7	
		eSn	48	02.70		
LIT	2.09	355 ePnd	47	37.80	0.0	
APE	2.41	112 ePn	47	43.50	1.0	
OUR	2.51	22 ePnd	47	42.70	-1.0	
		eSn	48	11.30		
THE	2.62	4 ePn	47	44.90	-0.4	
		eSn	48	16.80		
SOH	2.84	9 ePnc	47	48.70	0.2	
		eSn	48	22.70		
VAM	2.86	155 ePn	47	49.00	0.2	
GRG	2.95	355 ePn	47	51.10	1.1	
FNA	2.96	340 ePn	47	51.20	1.0	
		e	48	27.70		
KNT	3.14	2 ePnc	47	52.20	-0.5	
		e	48	29.30		
SRS	3.16	12 ePnc	47	52.50	-0.6	
		eSn	48	28.30		
VAY	3.30	358 ePn	47	56.20	1.2	
OHR	3.43	335 ePn	48	01.20	4.3X	
SKO	4.07	346 ePn	48	10.50	4.6X	
LCI	4.38	303 P	48	12.80	2.5X	
TDS	5.26	290 P	48	24.50	1.7	
ORI	5.30	295 P	48	22.50	-1.0	
MGR	5.98	293 P	48	32.20	-0.7	
SGO	6.30	296 P	48	37.50	0.1	
BSS	6.74	297 P	48	44.50	0.8	
SDI	7.79	301 P	48	59.00	0.6	
YKA	74.13	341 eP	58	38.00	-2.1	
	0.5s	0.20nm		3.4mb		
	S.D. = 1.0	on 24 of 27 obs.				

MAY 05, 1990 20h 00m 00.22± 0.33s
40.667 N ± 3.2km 15.713 E ± 3.3km
DEPTH = 25.1 ± 3.8 km
SOUTHERN ITALY (390)
ML 3.5 (TTG), 2.9 (ROM), 2.5 (LJU). Felt at Potenza.

SGO	0.33	251 Pd	00	07.10	-0.5	
		eSg	00	14.00		
MGR	0.54	193 P	00	09.60	-1.5	
		eSg	00	17.90		
BSS	0.70	280 P	00	14.20	0.5	
		eSg	00	26.20		
BAI	0.99	62 P	00	18.00	-0.3	
		eSg	00	32.00		
TDS	1.11	154 P	00	19.10	-1.2	
		eSg	00	34.80		
BRT	1.15	79 P	00	20.00	-0.8	
		eSg	00	34.50		
DUI	1.37	317 P	00	25.30	1.3	
		eSg	00	45.70		
RFI	1.45	296 P	00	26.95	1.9	
LCI	1.74	100 P	00	31.10	1.9	

SDI	1.77	307	P	00	30.20	0.5
GRI	1.93	163	P	00	30.63	-1.3
AZI	2.16	308	P	00	37.30	2.0
			eSn	01	04.10	
LPI	2.26	196	P	00	37.40	0.7
AQU	2.42	315	P	00	39.60	0.6
GMB	2.50	177	P	00	40.59	0.3
ATN	2.51	185	P	00	40.10	-0.2
RDP	2.51	297	P	00	41.00	0.7
			eSn	01	12.00	
RMP	2.54	298	P	00	41.70	0.9
HVAR	2.57	12	iPn	00	40.50	-0.6
			iSn	01	14.50	
HCY	2.75	49	ePn	00	44.00	0.4
			eSn	01	21.00	
BDV	2.84	54	ePn	00	47.00	2.0
			eSn	01	26.50	
MNO	2.84	196	P	00	44.80	-0.4
			eSg	01	18.00	
MNS	2.85	308	P	00	46.50	1.4
GIB	2.98	207	P	00	47.80	0.9
BRY	3.08	43	ePn	00	49.00	0.6
			eSn	01	27.00	
TTG	3.19	55	ePn	00	51.00	1.1
			eSn	01	33.00	
ASS	3.31	318	P	00	53.80	2.1
ARV	3.50	325	P	00	54.70	0.3
MEU	3.61	190	P	00	57.29	1.3
MEU	3.61	190	P	00	54.20	-1.8
			eSg	01	34.10	
PZI	3.68	190	P	00	58.29	1.3
PVY	3.73	58	ePn	00	59.50	1.8
			eSn	01	47.00	
FAI	3.74	206	P	01	02.00	4.3X
PLE	3.82	45	ePn	00	59.50	0.6
			eSn	01	48.00	
MAO	3.84	299	P	00	59.80	0.6
OHR	3.88	82	ePn	01	01.50	1.8
RSM	4.06	324	P	01	03.50	1.3
CRE	4.07	318	P	01	03.50	1.0
FNA	4.31	87	eP	01	05.50	-0.3
PGD	4.36	319	P	01	07.70	1.0
SKO	4.51	71	ePn	01	09.00	0.4
RIY	4.78	349	ePn	01	09.80	-2.5
VBY	4.85	356	ePn	01	13.50	0.1
			iSn	02	11.10	
BDI	5.09	314	P	01	18.00	1.1
ZAG	5.15	2	iPn	01	16.20	-1.5
			iSn	02	17.00	
CEY	5.16	350	eP	01	27.50	9.7X
			eSn	02	17.50	
VAY	5.23	81	ePn	01	19.30	0.5
PTJ	5.23	2	iPn	01	17.50	-1.4
TRI	5.24	345	eP	01	18.00	-0.9
			e	02	19.80	
			e	02	54.20	
PGF	5.37	293	Pn	01	21.00	0.0
			Sn	02	24.80	
LJU	5.44	351	ePn	01	20.40	-1.4
			eSn	02	22.00	
VOY	5.52	347	ePn	01	21.80	-1.2
			eSn	02	23.10	
CTI	6.14	333	P	01	29.10	-2.6
BOB	6.17	314	P	01	33.50	1.4
SAL	6.23	324	P	01	31.00	-1.8
FVI	6.29	341	P	01	31.20	-2.6
			eSn	02	42.00	
KBA	6.63	346	ePn	01	37.00	-1.8
			iSn	02	52.80	
			i	03	08.40	
			i	03	43.20	
CKI	6.65	307	P	01	37.50	-1.4
SBF	6.92	300	Pn	01	42.60	-0.1
VAI	7.26	318	P	01	47.00	-0.3
ZST	7.59	7	eP	02	38.60	46.6X
KHC	8.60	351	eP	02	03.00	-3.0X
CIN	10.09	104	ePg	03	05.00	38.4X
			iSg	03	18.00	
LFK	15.04	105	iPg	03	26.20	-6.6X
NUR	20.62	13	eP	04	40.00	0.0
SUF	22.95	12	eP	05	03.00	-0.3

S.D. = 1.3 on 60 of 66 obs.

% MAY 05, 1990 20h 37m 06.89± 1.23s
40.851 N ±12.2km 15.677 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.40	224	Pc	37	14.90	-0.3
			eSg	37	21.00	
BSS	0.66	265	P	37	20.30	0.2
			eSg	37	31.70	
MGR	0.72	187	P	37	17.80	-3.2X
			eSg	37	26.60	
ORI	0.98	143	P	37	26.20	0.6
			eSg	37	37.10	
BRT	1.16	88	P	37	28.30	-0.2
			eSg	37	44.80	
TDS	1.29	157	P	37	30.50	-0.4

S.D. = 0.6 on 5 of 6 obs.

% MAY 05, 1990 20h 40m 00.60± 0.55s
40.708 N ± 6.3km 15.811 E ± 5.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.41	249	Pc	40	09.00	0.0
			eSg	40	15.90	
MGR	0.60	199	Pc	40	11.30	-1.5
			eSg	40	20.40	
BSS	0.77	276	P	40	16.80	1.2
			eSg	40	27.20	
ORI	0.81	143	P	40	15.40	-0.9
			eSg	40	28.80	
BAI	0.90	62	P	40	17.00	-0.8
			eSg	40	31.00	
BRT	1.07	80	P	40	19.80	-1.0
			eSg	40	35.50	
TDS	1.12	159	P	40	22.70	1.0
DUI	1.40	313	P	40	26.50	0.3
			eSn	40	45.00	
LCI	1.68	102	P	40	32.60	2.5
			eSg	40	54.00	
SDI	1.81	304	P	40	32.00	0.0
AZI	2.20	306	P	40	37.50	-0.1
MNS	2.89	307	P	40	46.50	-1.0
ARV	3.51	324	P	40	56.50	0.2

S.D. = 1.2 on 13 of 13 obs.

MAY 05, 1990 20h 48m 56.18± 1.67s
36.035 N ± 8.4km 71.674 W ±13.6km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
OFF EAST COAST OF UNITED STATES (513)

BVD	4.80	322	iP	50	10.90	0.6
			i(S)	50	43.60	
NED	4.86	320	iP	50	11.50	0.5
BWD	4.86	322	iP	50	11.30	0.2
			iS	50	56.40	
CNV	5.04	297	P	50	13.90	0.3
PNJ	5.24	339	Pn	50	16.70	0.3
			(Sn)	51	09.80	
NA2	5.28	295	eP	50	16.80	-0.3
NA12	5.33	293	P	50	17.56	-0.2
LVNJ	5.35	334	eP	50	17.70	-0.3
GHV	5.45	291	P	50	19.83	0.5
TBR	5.47	339	eP	50	19.10	-0.6
FRV	5.50	284	P	50	21.10	0.9
CVL	5.77	292	eP	50	23.90	0.0
BLA	7.13	282	eP	50	43.60	0.5
NAV	7.44	283	eP	50	47.50	0.1
HWV	7.52	285	P	50	49.10	0.6
LHS	7.63	261	eP	50	50.20	0.1
SGS	7.82	251	eP	50	52.50	-0.2
HBF	7.82	249	eP	50	52.30	-0.4
JSC	8.04	260	eP	50	55.60	-0.2
WVLY	8.36	322	eP	50	58.90	-1.4
RSNY	8.78	347	eP	51	05.00	-1.0
PRM	8.98	261	eP	51	08.50	-0.3
TKL	9.83	271	eP	51	20.00	-0.6
LDN	10.14	317	P	51	21.70	-3.1X
GBTN	10.18	272	eP	51	25.00	-0.5
DLA	10.24	315	P	51	21.70	-4.5X
ELF	10.31	317	P	51	23.90	-3.2X
RSCP	11.29	272	eP	51	40.00	-0.6
PWLA	13.40	270	eP	52	07.90	-0.9
RSON	21.68	320	P	53	45.00	-3.9X
KVN	36.63	289	eP	56	07.00	2.3
YKA	37.41	329	eP	56	11.10	0.4
	0.9s		1.20nm		3.7mb	

S.D. = 0.7 on 28 of 32 obs.

% MAY 05, 1990 20h 49m 09.98± 1.25s
40.791 N ±12.7km 15.720 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.39	234	P	49	18.50	0.5
			eSg	49	24.90	
MGR	0.66	191	P	49	22.00	-1.2
			eSg	49	30.40	
BSS	0.69	270	P	49	23.70	0.0
			eSg	49	36.20	
ORI	0.92	142	P	49	28.50	1.0
			eSg	49	40.00	
BRT	1.13	85	P	49	30.80	-0.3
			eSg	49	46.10	

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

% MAY 05, 1990 22h 08m 41.31± 0.68s
40.685 N ± 7.3km 15.737 E ± 5.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.35	249	Pc	08	47.90	-0.6
			eSg	08	53.80	
MGR	0.56	194	Pc	08	51.00	-1.8
			eSg	08	59.50	
BSS	0.72	279	P	08	55.80	0.4
			eSg	09	05.60	
ORI	0.83	139	P	08	58.20	0.9
			eSg	09	10.60	
BAI	0.96	63	P	08	59.00	-0.6
			eSg	09	13.00	
TDS	1.12	156	P	09	04.00	1.6
BRT	1.13	80	Pd	09	01.30	-1.2
			eSg	09	17.60	
DUI	1.37	316	P	09	07.50	1.0
SDI	1.77	306	P	09	12.00	-0.3

S.D. = 1.3 on 9 of 9 obs.

% MAY 05, 1990 22h 16m 18.94± 0.95s
40.618 N ±10.1km 15.886 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.44	263	Pc	16	27.30	-0.7
			eSg	16	33.20	
MGR	0.54	208	P	16	29.60	-0.3
			eSg	16	36.40	
ORI	0.70	142	P	16	33.40	0.6
			eSg	16	45.30	
BSS	0.84	282	P	16	36.00	0.9
			eSg	16	46.50	
BRT	1.03	75	P	16	38.00	-0.5
			eSg	16	52.50	

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

MAY 05, 1990 22h 36m 10.49± 0.57s
54.141 N ±13.9km 35.275 W ± 6.3km
DEPTH = 10.0km (geophysicist)
4.3mb (21 obs.)
NORTH ATLANTIC OCEAN (402)

EKA	18.50	73	P	40	33.00	4.8X
	1.0s		7.60nm		3.8mb	
FRB	19.44	313	eP	40	39.00	-0.6
GRR	22.14	91	eP	41	07.80	0.3
	1.0s		10.00nm		4.2mb	
FLN	22.18	90	eP	41	08.00	0.0
	0.8s		8.05nm		4.2mb	
LPF	22.20	92	eP	41	07.70	-0.5
	0.8s		5.35nm		4.0mb	
LDF	22.47	90	eP	41	10.60	-0.3
	0.8s		6.70nm		4.2mb	
MFF	23.45	94	eP	41	21.50	1.1
	0.8s		5.35nm		4.2mb	
LSF	24.62	94	eP	41	31.70	-0.1
	1.0s		9.00nm		4.4mb	
TCF	24.99	93	eP	41	35.10	-0.4
	1.0s		10.00nm		4.5mb	
ENN	25.07	81	e(P)	41	40.00	3.9X
	1.0s		5.00nm		4.2mb	
			e	41	48.00	
WTS	25.11	78	eP	41	38.00	1.6
	1.0s		12.00nm		4.5mb	
MEM	25.19	81	P	41	39.50	2.3
BGF	25.23	92	eP	41	37.10	-0.6
	1.2s		29.75nm		4.9mb	
MAF	25.24	93	eP	41	37.40	-0.4
	1.2s		14.90nm		4.6mb	

05d 22h

SSF	25.35	90 eP	41 38.50	-0.3	
	1.0s	8.00nm		4.4mb	
NB2	25.38	55 P	41 38.40	-0.6	
	0.8s	2.90nm		4.0mb	
AVF	25.40	91 eP	41 38.50	-0.8	
	1.2s	11.90nm		4.5mb	
LOR	25.46	90 eP	41 39.10	-0.7	
	0.8s	4.70nm		4.2mb	
LBF	25.67	90 eP	41 41.90	0.0	
	0.8s	6.70nm		4.4mb	
SMF	25.77	91 eP	41 42.10	-0.6	
	1.0s	8.00nm		4.4mb	
CLL	28.93	76 eP	42 15.00	3.6X	
SOD	31.48	41 eP	42 34.00	0.1	
SUF	32.08	50 eP	42 39.00	-0.2	
MBC	36.91	337 eP	43 21.50	1.0	
	1.3s	11.00nm		4.5mb	
YKA	39.94	315 eP	43 44.90	-1.0	
	0.8s	1.70nm		3.8mb	
INK	44.01	328 eP	44 19.00	-0.1	
MEO	47.41	273 e(P)	44 47.00	0.3	
ALQ	51.91	279 eP	45 22.00	0.6	
	1.2s	6.64nm		4.4mb	
ZOBO	75.54	213 P	48 02.00	4.6X	

S.D. = 0.8 on 25 of 29 obs.

? MAY 05, 1990 22h 56m 05.40± 0.74s
0.344 N ±16.7km 122.221 E ±22.0km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
MINAHASSA PENINSULA (265)

WB5	23.36	150 eP	01 12.00	0.0	
WRA	23.40	150 Pd	01 12.40	0.0	
	0.5s	4.20nm		4.2mb	
NANU	23.68	196 eP	01 15.20	0.1	
CHTO	29.30	310 iP	02 08.80	1.5	
	1.0s	3.75nm		4.1mb	
CAN	43.40	148 eP	04 06.80	0.1	
GUN	44.31	311 P	04 14.40	-0.2	
PKI	44.48	311 P	04 15.60	-0.4	
DMN	44.73	310 P	04 17.80	-0.2	
GKN	45.29	311 P	04 22.00	-0.3	
HYB	46.18	294 eP	04 28.80	-0.5	

S.D. = 0.6 on 10 of 10 obs.

& MAY 05, 1990 23h 13m 56.47s
62.101 N 152.240 W
DEPTH = 123.6km
3.4mb (1 obs.)
CENTRAL ALASKA (1)
<AGS-P>.

SKT	0.36	110 iP	14 13.30	-1.0	
NCG	0.70	177 iP	14 15.82	-0.8	
CRP	0.84	177 iP	14 17.18	-0.6	
		eS	14 34.04		
SPU	0.93	174 iP	14 17.58	-0.9	
		eS	14 34.99		
SUA	0.96	131 iP	14 18.34	-0.5	
		eS	14 38.05		
CUT	0.97	71 iP	14 17.94	-0.9	
PWA	1.21	111 eP	14 20.98	-0.2	
		eS	14 40.91		
NKA	1.45	160 iP	14 25.28	1.5	
HUR	1.49	53 eP	14 23.34	-1.1	
		eS	14 44.59		
RDT	1.53	183 iP	14 24.33	-0.7	
PMS	1.54	123 eP	14 24.31	-0.7	
PLRM	1.56	108 iP	14 23.71	-1.5	
KTH	1.58	22 eP	14 23.24	-2.3	
GHO	1.60	100 eP	14 24.80	-1.0	
		iS	14 45.38		
RED	1.71	189 eP	14 26.54	-0.5	
SML	1.87	97 iP	14 27.72	-1.3	
SLKM	1.87	148 eP	14 28.51	-0.5	
RND	2.04	48 eP	14 29.63	-1.5	
SEW	2.42	145 eP	14 34.97	-0.9	
NCA	2.55	90 eP	14 36.17	-1.5	
CNPM	2.63	169 eP	14 37.63	-1.0	
GLI	2.76	114 iP	14 37.91	-2.4	
VZW	2.91	109 eP	14 40.65	-1.8	
VLZ	2.98	106 eP	14 41.17	-2.1	
KLU	3.06	99 eP	14 42.40	-2.0	
YKA	17.34	72 eP	17 49.20	-2.6	
	0.5s	1.10nm		3.4mb	

26 obs. associoted

MAY 05, 1990 23h 45m 32.73± 0.24s
60.157 N ± 4.2km 141.130 W ± 3.0km
DEPTH = 10.0km (geophysicist)
4.8mb (30 obs.) 4.4Msz (1 obs.)
SOUTHEASTERN ALASKA (19)
ML 4.7 (PMR).

YAH	0.37	304 iP	45 41.87	1.5	
PCA	0.44	98 iP	45 42.75	1.0	
BCPM	0.78	105 iP	45 47.77	-0.1	
YKU	0.93	130 iPd	45 50.10	-0.4	
TGL	1.03	306 iP	45 53.04	0.7	
BALM	1.07	326 iP	45 53.91	1.0	
HQN	1.34	121 iP	45 55.69	-1.7	
		eS	46 14.21		
HYT	1.92	68 Pc	46 07.30	1.5	
KLU	2.70	302 iP	46 17.32	0.2	
		eS	46 51.22		
VZW	2.82	291 eP	46 18.40	-0.4	
GLI	3.04	286 eP	46 21.67	0.0	
WHC	3.05	76 eP	46 22.60	0.8	
TOA	3.13	311 ePc	46 24.10	1.0	
NCA	3.32	306 eP	46 30.07	4.2X	
PAX	3.50	326 eP	46 32.68	4.3X	
DOT	3.77	340 eP	46 36.44	4.3X	
SML	3.88	298 eP	46 33.41	-0.3	
DWY	3.99	11 Pc	46 37.30	2.1	
PLRM	4.17	294 eP	46 35.38	-2.3X	
PMR	4.17	294 eP	46 38.70	1.0	
		i	46 43.50		
DDM	4.27	331 eP	46 43.78	4.5X	
PMS	4.28	288 eP	46 39.00	-0.5	
SIT	4.35	133 ePd	46 37.70	-2.5X	
HDA	5.06	330 eP	46 55.24	4.9X	
CNPM	5.14	267 eP	46 48.38	-3.1X	
SKT	5.37	294 eP	46 54.70	-0.1	
CRP	5.53	286 eP	46 55.53	-1.7X	
FBA	5.67	330 eP	46 58.90	-0.1	
		ic	47 03.40		
KDC	6.36	253 eP	47 05.70	-2.9X	
SVW	7.19	284 eP	47 18.20	-2.3X	
TTA	7.63	298 eP	47 25.00	-1.6X	
IMA	8.20	322 eP	47 34.70	0.0	
INK	8.82	19 P	47 45.50	2.5	
YKA	12.91	68 eP	48 36.00	-2.7X	
	1.0s	8.80nm		4.9mb	
MBC	17.84	17 ePd	49 41.30	-0.8	
	1.0s	15.00nm		4.1mb	
FFC	21.51	87 eP	50 23.50	0.1	
	1.0s	11.00nm		4.2mb	
FHC	22.11	144 eP	50 29.50	-0.1	
LRM	22.20	117 eP	50 31.40	0.6	
WDC	22.75	141 ePc	50 37.00	1.1	
MIN	23.27	140 e(P)	50 42.60	1.5	
KVN	25.61	135 eP	51 04.00	0.3	
CMB	25.76	140 e(P)	51 07.30	2.4	
FRI	26.93	140 e(P)	51 30.00	14.4X	
FRB	32.63	52 eP	52 06.00	-0.1	
ALQ	33.73	123 eP	52 16.00	-0.3	
	1.1s	3.16nm		4.2mb	
DAG	38.65	18 iPd	52 57.80	0.6	
	0.8s	22.39nm		4.9mb	
KEV	50.10	5 eP	54 47.00	17.9X	
SOD	52.46	6 iP	54 46.50	-0.5	
SUF	57.06	7 eP	55 20.00	-0.6	
NB2	57.26	16 P	55 20.80	-1.3	
	1.3s	15.70nm		4.9mb	
HFS	58.46	14 eP	55 28.90	-1.5	
	1.0s	8.80nm		4.8mb	
Z	16s	0.04um		3.6MszX	
		LR	19 58.00		
NUR	59.16	8 eP	55 34.00	-1.3	
EKA	60.11	26 Pc	55 39.00	-2.9	
	1.0s	10.20nm		4.9mb	
MEM	66.44	22 P	56 23.50	-0.1	
DOU	66.66	23 Pc	56 25.40	0.3	
FLN	66.84	27 eP	56 25.70	-0.5	
	0.8s	8.05nm		5.0mb	
CLL	66.94	17 eP	56 26.00	-0.9	
	1.1s	8.00nm		4.8mb	
		i	56 31.00		
LDF	67.08	27 eP	56 27.40	-0.4	
	0.8s	5.35nm		4.8mb	
GRR	67.10	28 eP	56 27.80	-0.1	
	0.6s	5.40nm		4.9mb	
MOX	67.38	18 eP	56 30.00	0.3	
LPF	67.39	28 eP	56 29.90	0.1	
	1.0s	8.00nm		4.9mb	
BRG	67.51	17 eP	56 29.10	-1.4	
	1.0s	10.00nm		5.0mb	
KSP	67.86	15 eP	56 32.50	-0.2	
PRU	68.46	17 eP	56 36.00	-0.4	
CDF	68.78	22 eP	56 38.40	-0.2	
GTA	68.94	313 eP	56 39.50	-0.2	
MFF	68.95	28 eP	56 39.40	-0.1	
	0.8s	5.35nm		4.8mb	
HAU	69.00	23 eP	56 39.50	-0.3	
KHC	69.15	17 iPd	56 41.40	0.6	
	1.0s	4.50nm		4.6mb	
		i	56 46.00		
LOR	69.20	25 eP	56 40.80	-0.3	
	0.8s	2.70nm		4.5mb	
BSF	69.25	22 eP	56 40.90	-0.6	
SSF	69.32	25 eP	56 41.60	-0.2	
	0.8s	6.70nm		4.9mb	
LBF	69.50	25 eP	56 42.20	-0.7	
	0.8s	2.70nm		4.5mb	
BGF	69.66	26 eP	56 43.50	-0.3	
	0.8s	8.05nm		4.9mb	
LSF	69.66	27 eP	56 43.60	-0.3	
	0.8s	5.35nm		4.7mb	
TCF	69.78	26 eP	56 44.20	-0.4	
	0.8s	6.70nm		4.8mb	
SMF	69.79	25 eP	56 44.10	-0.5	
	0.8s	4.05nm		4.6mb	
MAF	69.92	26 eP	56 45.30	-0.1	
	0.8s	4.05nm		4.6mb	
SPC	69.97	13 e(P)	56 44.60	-1.3	
LZH	70.34	309 P	56 47.50	-0.9	
	1.2s	34.00nm		5.4mb	
Z	20s	0.20um		4.4Msz	
RJF	70.55	27 eP	56 48.80	-0.5	
ZST	70.56	15 eP	56 48.40	-0.9	
KBA	71.12	18 iPc	56 53.40	0.5	
	0.9s	10.00nm		4.9mb	
		i	56 58.50		
LPL	71.46	23 eP	56 55.60	0.5	
	1.0s	4.00nm		4.5mb	
LPG	71.48	23 eP	56 56.00	0.7	
	0.8s	2.70nm		4.4mb	
FVI	71.50	19 P	56 54.50	-0.4	
VAI	71.51	22 P	56 55.50	0.5	
CTI	71.84	20 P	56 57.00	-0.2	
BNI	71.89	23 P	56 51.00	-6.5X	
BOB	72.70	22 P	57 03.00	0.8	
CKI	72.81	22 P	56 53.00	-9.8X	
PGD	73.97	20 P	57 11.00	1.3	
TOL	74.26	33 eP	57 13.00	1.7	
ARV	74.54	19 P	57 13.50	0.6	
ASS	74.91	20 P	57 15.00	-0.1	
CD2	74.92	306 P	57 15.00	-0.3	
MNS	75.58	20 P	57 19.00	0.1	
SDI	76.43	19 P	57 23.00	-0.7	
DUI	76.57	19 P	57 25.50	0.9	
SKO	77.23	13 eP	57 28.00	-0.1	
BSS	77.48	18 P	57 29.00	-0.5	
GYA	77.63	302 P	57 31.00	0.3	
OHR	78.00	14 eP	57 32.00	-0.4	
MGR	78.24	18 P	57 33.50	-0.1	
GUN	84.18	319 P	58 05.60	0.0	
GKN	84.49	320 P	58 06.50	-0.4	
	0.8s	15.00nm		5.3mb	
PKI	84.65	320 P	58 08.00	0.1	
	1.0s	14.00nm		5.1mb	
DMN	84.71	320 P	58 07.40	-0.7	
WIN	139.44	32 ePKP	05 19.00	17.1X	
BFS	145.73	19 ePKP	05 06.00	-6.7X	
SWZ	145.75	22 e(PKP)	05 15.50	2.8X	

S.D. = 0.9 on 91 of 111 obs.

% MAY 06, 1990 00h 48m 29.31± 0.60s
40.646 N ± 6.7km 15.719 E ± 4.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.32	255 Pd	48 36.30	0.3	
		eSg	48 41.60		
MGR	0.52	194 Pc	48 39.50	-0.4	
		eSg	48 48.00		
BSS	0.71	282 P	48 43.10	-0.2	
		eSg	48 52.70		
ORI	0.81	136 P	48 45.50	0.6	
		eSg	48 58.10		

BAI	0.99	61	P	48	48.50	0.4
TDS	1.09	154	P	48	51.80	1.9X
BRT	1.15	78	Pc	48	50.10	-0.7
			eSg	49	06.30	
SDI	1.79	307	P	49	00.50	0.0

S.D. = 0.6 on 7 of 8 abs.

& MAY 06, 1990 00h 57m 51.20s
37.862 N 122.005 W
DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.4 (BRK).
Mo=4.9*10**13 Nm (BRK). Felt at Alamo.

BKS	0.18	275	iPc	57	55.00	0.1
			iS	57	58.20	
BRK	0.20	273	iPc	57	55.20	-0.1
			iS	57	58.90	
ZSP	0.22	293	iPc	57	55.50	0.0
			iS	57	58.10	
PCC	0.47	220	ePd	58	00.10	-0.5
			eS	58	07.00	
MHC	0.59	151	iPc	58	03.00	-0.1
			i	58	05.60	
			e	58	07.70	
ARN	0.63	144	iPd	58	03.50	-0.4
GCC	0.83	180	eP	58	06.90	-0.9
			i	58	10.60	
NWRM	0.91	311	eP	58	07.70	-1.6
SAO	1.18	158	ePd	58	11.70	-2.2
CMB	1.29	82	ePd	58	13.60	-2.2
			eS	58	31.10	
LLA	1.50	145	e(P)	58	19.10	0.0
PRS	1.61	161	eP	58	18.50	-2.1
ORV	1.74	13	ePc	58	19.50	-2.9
FRI	2.02	115	e(P)	58	25.70	-0.9
KVN	3.29	68	eP	58	42.50	-2.3

15 obs. associated

% MAY 06, 1990 00h 58m 51.01± 0.60s
40.652 N ± 6.1km 15.716 E ± 4.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.32	253	Pd	58	57.70	0.0
			eSg	59	02.10	
MGR	0.53	193	Pc	59	00.90	-0.8
			eSg	59	09.50	
BSS	0.70	282	P	59	04.80	-0.1
			eSg	59	15.00	
ORI	0.81	136	P	59	07.30	0.5
			eSg	59	19.90	
BAI	0.99	61	P	59	10.00	0.2
			eSg	59	23.80	
TDS	1.10	154	P	59	12.40	0.7
BRT	1.15	78	P	59	11.60	-1.0
			eSg	59	27.70	
SDI	1.78	307	P	59	22.50	0.4

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

& MAY 06, 1990 01h 37m 02.70s
37.855 N 122.010 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.1 (BRK).
Mo=2.8*10**14 Nm (BRK). Felt at Alamo.

BKS	0.18	277	iPc	37	06.50	0.1
			iS	37	09.80	
BRK	0.20	275	iPc	37	06.70	-0.1
			iS	37	10.40	
ZSP	0.21	295	iPc	37	07.30	0.2
PCC	0.46	220	iPd	37	11.60	-0.3
			iS	37	18.60	
MHC	0.59	150	iPc	37	14.50	0.0
ARN	0.63	143	iPd	37	15.20	-0.1
GCC	0.82	179	ePc	37	18.20	-0.9
			eS	37	29.60	
NWRM	0.92	311	eP	37	19.00	-1.7
SAO	1.18	157	eP	37	23.30	-1.9
CMB	1.30	82	iPd	37	25.20	-2.0
			iS	37	43.10	
LLA	1.50	145	e(P)	37	28.20	-2.1
PRS	1.60	161	ePc	37	30.00	-1.8
ORV	1.74	13	e(P)	37	31.40	-2.4
FRI	2.02	114	ePc	37	37.30	-0.6
KVN	3.29	68	eP	37	54.20	-2.0

15 obs. assaciated

MAY 06, 1990 04h 00m 33.57± 0.38s
40.694 N ± 3.5km 15.865 E ± 4.2km
DEPTH = 20.4 ± 4.7 km
SOUTHERN ITALY (390)
Felt in the Potenza area.

SGO	0.45	252	Pc	00	42.10	-0.5
			eSg	00	50.30	
MGR	0.60	203	Pd	00	43.70	-1.6
			eSg	00	54.70	
ORI	0.77	145	Pd	00	47.50	-0.7
			eSg	00	58.50	
BSS	0.81	277	P	00	49.90	1.1
			eSg	01	01.20	
BAI	0.87	60	P	00	50.50	0.7
			eSg	01	13.50	
BRT	1.03	79	Pd	00	52.80	0.2
			eSg	01	07.10	
TDS	1.10	161	P	00	54.20	0.5
DUI	1.44	313	Pd	01	00.10	1.5
			eSn	01	19.20	
RFI	1.55	294	P	01	01.15	1.0
LCI	1.63	102	P	01	03.60	2.2
			eSn	01	26.50	
SDI	1.85	304	P	01	04.60	0.0
GRI	1.92	167	P	01	06.07	0.4
LPI	2.32	198	P	01	11.89	0.6
AQU	2.48	313	P	01	16.00	2.3
HVAR	2.52	10	ePn	01	14.60	0.5
			iSg	01	54.40	
GMB	2.52	180	P	01	16.36	2.0
ATN	2.55	187	P	01	14.00	-0.6
RDP	2.60	295	P	01	15.50	0.1
RMP	2.63	296	P	01	16.00	0.2
MNO	2.90	199	P	01	20.00	0.2
			eSn	01	52.20	
MNS	2.93	306	P	01	21.00	1.1
SDA	3.04	63	ePn	01	32.00	10.6X
GIB	3.05	208	P	01	22.00	0.2
TIR	3.10	77	ePn	01	39.50	17.2X
TPE	3.19	96	ePn	01	32.50	8.9X
ASS	3.37	316	P	01	28.00	1.8
ARV	3.55	323	P	01	29.00	0.2
BCI	3.57	61	ePn	01	39.20	10.2X
MEU	3.66	192	P	01	31.10	0.6
OHR	3.76	82	ePn	01	32.20	0.4
FAI	3.82	207	P	01	32.00	-0.5
MAO	3.93	297	P	01	33.90	-0.3
RSM	4.10	323	P	01	38.20	1.6
CRE	4.13	317	P	01	37.30	0.2
SKO	4.39	71	ePn	01	45.00	4.4X
PGD	4.42	317	P	01	41.60	0.3
VAY	5.11	81	ePn	01	58.00	7.1X
PTJ	5.20	1	eP	02	11.70	19.5X
TRI	5.24	344	P	01	52.00	-0.7
VOY	5.53	346	ePn	01	55.30	-1.5
			eSn	02	58.00	
CTI	6.17	332	P	02	03.30	-2.6
BOB	6.24	313	P	02	07.50	0.7
SAL	6.27	323	P	02	05.50	-1.7
FVI	6.31	340	P	02	06.00	-1.7
KBA	6.64	345	ePn	02	11.00	-1.6
			eSn	03	26.50	

S.D. = 1.2 on 38 of 45 abs.

% MAY 06, 1990 05h 15m 09.90± 1.09s
40.658 N ±12.2km 15.801 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.39	255	Pc	15	17.70	-0.1
			eSg	15	23.50	
MGR	0.55	200	P	15	20.10	-1.0
			eSg	15	29.00	
BSS	0.77	280	P	15	25.50	0.6
			eSg	15	36.80	
ORI	0.77	140	P	15	26.30	1.3
			eSg	15	38.30	
BRT	1.09	78	P	15	29.50	-0.8
			eSg	15	44.30	

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

MAY 06, 1990 05h 43m 28.10± 0.47s
40.659 N ± 5.0km 15.708 E ± 4.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)
ML 2.8 (ROM). Felt at Potenza.

SGO	0.32	252	Pc	43	35.10	0.4
			eSg	43	41.70	
MGR	0.53	193	Pd	43	38.40	-0.5
			eSg	43	48.20	
BSS	0.70	281	P	43	41.60	-0.3
			eSg	43	52.70	
BAI	0.99	62	P	43	46.30	-0.6
			eSg	43	59.90	
TDS	1.11	154	P	43	49.50	0.6
			eSn	44	05.00	
BRT	1.16	79	P	43	48.30	-1.4
			eSg	44	05.10	
DUI	1.38	317	P	43	53.40	0.0
			eSn	44	11.70	
RFI	1.45	297	P	43	55.97	1.6
LCI	1.74	100	P	44	00.00	1.4
			eSn	44	23.10	
SDI	1.77	307	P	43	58.90	-0.1
AZI	2.17	309	P	44	04.00	-0.7
			eSn	44	30.50	
ATN	2.50	184	P	44	09.00	-0.5
RDP	2.51	297	P	44	11.00	1.4
RMP	2.54	298	P	44	10.80	0.7
HVAR	2.58	12	e(Pn)	44	12.40	1.9
MNS	2.85	308	P	44	14.00	-0.5
ASS	3.31	318	P	44	20.50	-0.6
ARV	3.50	325	P	44	22.50	-1.2
MAO	3.84	299	P	44	27.10	-1.5
OHR	3.89	82	e(Pn)	44	33.50	4.3X
CTI	6.14	333	P	44	57.50	-3.6X

S.D. = 1.1 on 19 of 21 obs.

& MAY 06, 1990 07h 41m 00.32s
60.180 N 152.258 W
DEPTH = 73.4km
3.0mb (1 abs.)
SOUTHERN ALASKA (2)
<AGS-P>. Felt (IV) at Ninilchik.

RED	0.35	313	iP	41	11.97	-0.5
RDT	0.40	350	iP	41	12.22	-0.6
NNL	0.50	106	iP	41	14.20	0.6
NKA	0.76	41	iP	41	17.59	1.3
XLV	0.78	159	iP	41	15.73	-0.8
			eS	41	28.62	
BRLK	0.81	121	iP	41	16.43	-0.5
			eS	41	28.84	
CNPM	0.83	141	iP	41	16.62	-0.6
			eS	41	30.09	
AUL	1.00	217	iP	41	18.44	-0.8
AUE	1.00	215	iP	41	18.32	-0.9
SPU	1.01	6	iP	41	18.79	-0.7
			eS	41	33.09	
SLKM	1.07	71	eP	41	18.83	-1.3
CRP	1.09	3	iP	41	20.04	-0.6
NCG	1.23	2	iP	41	21.65	-0.7
			eS	41	38.71	
SEW	1.41	92	iP	41	22.65	-1.9
CDD	1.44	210	iP	41	23.69	-1.3
SUA	1.49	29	iP	41	25.18	-0.6
			iS	41	46.43	
SHU	1.56	182	eP	41	23.70	-2.8
PMS	1.70	50	iPc	41	28.10	-0.5
SKT	1.84	11	iP	41	29.26	-1.2
			eS	41	54.90	
PWA	1.88	37	eP	41	30.40	-0.5
SVW	1.90	301	iPd	41	29.50	-1.8
PLRM	2.08	46	iP	41	32.27	-1.5
			eS	41	57.82	
PMR	2.08	46	iPc	41	32.30	-1.4
GHO	2.28	44	iP	41	35.03	-1.5
MTU	2.32	93	eP	41	34.97	-2.0
			eS	42	00.68	
CUT	2.43	22	eP	41	37.82	-0.7
			eS	42	09.73	
KDC	2.44	183	iPd	41	36.20	-2.5
SML	2.52	48	iP	41	38.07	-1.7
GLI	2.65	72	eP	41	38.03	-3.6
VZW	2.95	70	eP	41	42.56	-3.2
VLZ	3.07	69	eP	41	44.29	-3.1
			eS	42	19.97	
HUR	3.07	23	eP	41	47.79	0.2

06d 07h

			eS	42 24.73		
NCA	3.21	53	eP	41 47.52	-1.9	
TTA	3.29	329	iPd	41 48.50	-2.1	
KLU	3.37	64	iP	41 48.97	-2.8	
			eS	42 26.92		
KTH	3.44	10	eP	41 51.63	-1.1	
TOA	3.53	54	iPc	41 52.10	-1.8	
RND	3.62	25	eP	41 54.00	-1.2	
MCK	3.89	22	eP	41 59.16	0.2	
PAX	4.29	46	eP	42 02.80	-1.8	
NEA	4.65	17	eP	42 07.81	-1.9	
TGL	4.70	79	eP	42 08.07	-2.4	
DDM	4.71	37	eP	42 10.32	-0.2	
WRH	4.72	22	iP	42 08.55	-2.1	
HDA	4.91	28	eP	42 11.13	-2.1	
CCB	4.94	23	iP	42 11.22	-2.4	
BALM	4.96	76	eP	42 10.57	-3.5	
			iS	43 03.80		
FBA	5.17	22	ePc	42 14.50	-2.3	
DOT	5.21	45	eP	42 16.04	-1.3	
GLM	5.32	23	eP	42 16.46	-2.6	
IMA	5.95	354	ePd	42 25.20	-2.6	
PCA	6.00	86	eP	42 25.40	-3.1	
DWY	7.16	52	P	42 41.00	-3.4	
INK	11.47	37	eP	43 41.00	-2.1	
YKA	18.04	66	eP	45 03.70	-3.4	
	0.6s		0.60nm		3.0mb	
MBC	19.71	23	eP	45 26.50	0.6	
	56 obs. ossocioted					

---

* MAY 06, 1990 07h 55m 05.59± 0.36s
16.669 S ±10.1km 175.247 W ±12.0km
DEPTH = 33.0km (normal)
4.9mb (2 obs.)
TONGA ISLANDS (173)

AFI	4.33	51	eP	56 12.00	1.1	
			S	56 51.00		
PUZ	22.08	194	eP	59 58.00	-1.4	
NOZ	22.65	194	eP	00 04.90	-0.1	
THZ	27.01	200	P	00 48.10	1.6	
LTZ	28.13	200	P	00 56.80	0.1	
COO	33.00	239	iPc	01 41.40	1.5	
WB5	47.81	258	eP	03 42.20	-0.1	
WRA	47.83	258	Pd	03 43.00	0.6	
	0.6s		4.10nm		4.6mb	
NANU	64.97	253	eP	05 44.10	-0.7	
	0.4s		9.00nm		5.2mb	
CLL	144.82	351	iPKPd	14 35.40	-5.2X	
KHC	146.83	349	ePKP	14 41.70	-2.4X	
FLN	147.71	6	ePKP	14 42.30	-3.2X	
	0.4s		2.30nm			
GRR	148.03	7	ePKP	14 43.40	-2.6X	
	0.4s		2.30nm			
LPF	148.36	7	ePKP	14 44.40	-2.1X	
	0.4s		2.30nm			
FVI	149.43	349	PKP	14 46.50	-1.7X	
LOR	149.48	1	ePKP	14 47.50	-0.9	
	0.8s		2.70nm			
SSF	149.68	2	ePKP	14 48.10	-0.5	
	0.6s		1.80nm			
LBF	149.76	1	ePKP	14 48.20	-0.6	
	0.6s		1.80nm			
TRI	150.08	347	PKP	14 49.00	-0.2	
CTI	150.15	350	PKP	14 49.50	0.0	
BGF	150.16	3	ePKP	14 49.10	-0.3	
	0.6s		2.25nm			
LSF	150.38	5	ePKP	14 49.20	-0.5	
	0.8s		2.70nm			
TCF	150.39	4	ePKP	14 49.40	-0.4	
MAF	150.48	3	ePKP	14 49.90	0.0	
	0.6s		1.80nm			
VAI	150.70	354	PKP	14 50.50	0.4	
BNI	151.66	357	PKP	15 06.00	14.1X	
BOB	151.71	353	PKP	14 52.50	0.6	
	S.D. = 0.8		on	20 of 27 obs.		

? MAY 06, 1990 07h 57m 28.98± 1.97s
44.193 N ± 7.4km 6.279 E ±51.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (LDG).

FRF	0.69	157	Pg	57 42.40	-0.2	
			Sg	57 52.20		
LRG	0.74	175	Pg	57 43.20	-0.3	
			Sg	57 54.40		
LMR	0.87	169	Pg	57 46.20	0.4	
			Sg	57 59.00		
LPL	1.36	14	Pg	57 54.20	0.0	
			Sg	58 15.00		
	S.D. = 0.5		on	4 of 4 obs.		

MAY 06, 1990 08h 31m 41.71± 0.80s
40.491 N ± 7.1km 23.583 E ± 6.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.3 (THE).

OUR	0.34	117	ePgd	31 48.80	0.0	
			eSg	31 53.50		
SOH	0.37	332	ePgc	31 49.20	-0.2	
			eSg	31 54.40		
THE	0.49	287	ePg	31 50.60	-1.1	
			eSg	31 57.10		
PAIG	0.57	172	ePgc	31 59.00	5.8X	
SRS	0.63	1	ePg	31 53.80	-0.5	
			eSg	32 03.40		
KNT	0.85	322	ePgc	31 57.50	-0.6	
			eSg	32 09.00		
LIT	0.92	245	ePgc	31 59.30	-0.1	
			eSg	32 11.50		
GRG	1.01	298	ePg	32 01.20	0.3	
			eSg	32 15.70		
VAY	1.13	318	ePn	32 04.60	1.7	
FNA	1.70	281	ePg	32 11.90	0.2	
			eSg	32 35.20		
	S.D. = 0.9		on	9 of 10 obs.		

% MAY 06, 1990 08h 55m 03.69± 0.91s
39.070 N ± 9.1km 27.589 E ±19.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.72	201	ePg	55 17.90	0.0	
			eSg	55 28.90		
EDC	1.29	9	iPn	55 27.30	-0.3	
KCT	1.32	26	iPn	55 28.70	0.7	
KGT	1.40	351	iPn	55 29.20	0.0	
YLV	2.03	42	ePn	55 38.00	-0.4	
	S.D. = 0.6		on	5 of 5 obs.		

% MAY 06, 1990 10h 00m 28.75± 2.40s
39.185 N ±19.9km 23.264 E ±15.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

AGG	0.74	258	ePg	00 43.40	0.0	
			eSg	00 51.80		
PAIG	0.81	23	ePg	00 45.30	0.9	
LIT	1.09	327	ePg	00 49.40	0.1	
OUR	1.27	26	ePg	00 51.80	-0.6	
SOH	1.64	2	ePb	00 57.20	-0.5	
	S.D. = 0.8		on	5 of 5 obs.		

% MAY 06, 1990 10h 13m 05.78± 0.72s
40.638 N ± 6.9km 15.749 E ± 6.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.34	257	Pc	13 12.70	-0.2	
			eSg	13 19.00		
MGR	0.52	197	Pc	13 15.20	-1.1	
			eSg	13 23.80		
BSS	0.73	282	P	13 21.00	0.8	
			eSg	13 31.70		
ORI	0.78	137	Pd	13 20.20	-0.9	
			eSg	13 31.50		
BAI	0.97	60	P	13 24.00	-0.3	
			eSg	13 38.00		
TDS	1.08	155	P	13 28.00	2.0	
			eSg	13 41.50		
DUI	1.41	317	P	13 31.50	-0.1	
SDI	1.81	307	P	13 37.00	-0.3	
	S.D. = 1.2		on	8 of 8 obs.		

MAY 06, 1990 10h 20m 25.26± 0.24s
54.198 N ± 6.0km 35.238 W ± 3.0km
DEPTH = 10.0km (geophysicist)
4.7mb (35 obs.) 4.1Msz (3 obs.)
NORTH ATLANTIC OCEAN (402)

VAL	15.17	88	eP	24 07.00	6.1X	
GDH	17.28	338	eP	24 26.00	-1.8	
			e	29 05.00		
ETA	17.31	83	eP	24 29.00	0.8	
ECP	17.37	85	eP	24 29.70	0.8	
SCH	18.25	285	eP	24 40.00	0.0	
EKA	18.46	73	Pd	24 42.80	0.3	
	1.1s		22.90nm		4.3mb	
FRB	19.42	313	eP	24 53.00	-1.1	
STS	20.85	112	eP	25 08.80	-0.6	
EMON	21.16	109	eP	25 11.00	-1.6	
FLN	22.16	90	eP	25 22.50	-0.1	
	1.1s		43.95nm		4.8mb	
LDF	22.45	90	eP	25 25.70	0.2	
	0.8s		21.50nm		4.7mb	
MFF	23.43	94	eP	25 35.20	0.2	
	0.8s		10.75nm		4.5mb	
EPLA	24.14	114	eP	25 42.60	0.6	
DOU	24.55	83	P	25 46.40	0.5	
			S	30 11.00		
LSF	24.60	94	eP	25 46.70	0.3	
	0.9s		18.00nm		4.7mb	
WIT	24.70	76	eP	25 50.00	2.7	
GUD	24.78	110	eP	25 50.00	1.6	
LFF	24.86	97	eP	25 48.80	-0.1	
	0.8s		8.05nm		4.4mb	
TCF	24.98	93	eP	25 50.20	0.1	
	1.0s		36.00nm		5.0mb	
ENN	25.04	81	eP	25 50.00	-0.6	
	1.0s		10.00nm		4.5mb	
WTS	25.08	78	eP	25 52.00	1.1	
	1.0s		31.00nm		5.0mb	
RJF	25.11	96	eP	25 51.30	0.0	
	1.0s		22.00nm		4.8mb	
MEM	25.16	81	P	25 51.70	0.0	
BGF	25.21	92	eP	25 52.00	-0.2	
	0.9s		42.60nm		5.1mb	
MAF	25.22	93	eP	25 52.30	-0.1	
	0.8s		26.20nm		5.0mb	
LPO	25.27	97	eP	25 52.90	0.1	
	1.0s		24.00nm		4.8mb	
NB2	25.33	56	P	25 52.80	-0.5	
	1.2s		20.10nm		4.7mb	
SSF	25.33	90	eP	25 53.00	-0.4	
	1.0s		37.00nm		5.0mb	
TOL	25.37	112	eP	25 54.50	0.7	
AVF	25.38	91	eP	25 53.50	-0.4	
	1.2s		44.65nm		5.0mb	
LOR	25.44	90	eP	25 53.80	-0.6	
	0.9s		21.30nm		4.8mb	
CAF	25.64	96	eP	25 56.20	-0.2	
	1.2s		23.80nm		4.8mb	
LBF	25.65	90	eP	25 55.80	-0.6	
	0.8s		16.10nm		4.8mb	
SMF	25.75	91	eP	25 56.60	-0.7	
	1.1s		18.30nm		4.7mb	
EPF	25.76	101	eP	25 57.00	-0.5	
	1.1s		11.00nm		4.5mb	
ETOR	25.83	108	eP	25 58.50	0.3	
RUP	26.16	82	eP	26 02.15	1.0	
ABH	26.36	82	eP	26 03.78	0.8	
HAU	26.53	86	eP	26 04.40	-0.2	
	0.8s		10.75nm		4.6mb	
HFS	26.66	57	eP	26 05.20	-0.4	
	1.0s		12.50nm		4.6mb	
	Z 19s		0.39um		4.0Msz	
			LR	32 53.00		
EBAN	26.74	114	eP	26 07.00	0.4	
BSF	26.88	86	eP	26 07.50	-0.3	
	1.0s		12.00nm		4.5mb	
CDF	26.88	85	eP	26 07.40	-0.4	
EBR	27.27	105	eP	26 13.00	1.7	
BNI	28.27	91	P	26 20.50	-0.1	
MOX	28.38	78	eP	26 21.00	-0.3	
GRF	28.58	80	eP	26 24.00	0.9	
	Z 20s		0.30um		3.9Msz	
CLL	28.89	76	eP	26 25.00	-0.9	
	1.3s		19.00nm		4.7mb	
DOI	28.92	92	P	26 27.00	0.7	
VAI	29.06	88	P	26 27.50	0.1	
CKI	29.57	91	P	26 31.50	-0.6	
BRG	29.62	76	eP	26 31.00	-1.4	
	1.5s		16.00nm		4.6mb	
BOB	30.06	90	P	26 18.50	-18.1X	
KHC	30.20	79	iPd	26 37.50	-0.2	
PRU	30.35	77	eP	26 38.00	-1.0	
	Z 16s		0.50um		4.3MszX	
	N 16s		0.40um			
	E 15s		0.40um			

CTI	30.65	86	P	26	41.50	-0.2
KSP	30.96	75	eP	26	44.00	-0.3
FVI	31.02	84	P	26	40.00	-4.8X
KBA	31.09	83	e(P)	26	45.00	-0.7
			e	46	14.00	
			e(Sg)	46	27.00	
KEV	31.37	36	eP	26	57.00	9.3X
NUR	31.89	54	iP	26	52.00	-0.4
	0.8s	11.70nm			4.9mb	
PGD	31.91	89	P	26	52.50	-0.4
SFI	31.96	89	P	26	53.50	0.4
SUF	32.03	50	iP	26	53.00	-0.5
	0.6s	3.10nm			4.4mb	
TRI	32.07	85	P	26	53.50	-0.6
ZST	32.69	79	eP	27	00.80	1.3
			e	42	58.50	
			e	43	03.50	
ARV	32.85	89	P	27	00.50	-0.4
ASS	32.94	90	P	27	04.00	2.2
MNS	33.36	91	P	27	04.50	-0.9
KRA	33.39	74	eP	27	05.10	-0.5
SRO	33.59	79	eP	27	06.80	-0.5
SPC	33.99	75	eP	27	10.90	-0.1
			e	43	08.10	
SDI	34.45	91	P	27	09.00	-5.8X
DUI	34.85	90	P	27	13.00	-5.4X
BSS	35.60	91	P	27	23.50	-1.1
SGO	36.04	91	P	27	28.00	-0.3
MGR	36.46	91	P	27	26.50	-5.4X
MBC	36.87	337	ePc	27	36.50	1.6
	1.1s	20.00nm			4.8mb	
FFC	37.47	299	iPd	27	40.80	0.6
	0.8s	11.00nm			4.7mb	
SKO	38.76	84	eP	27	50.70	-0.5
CMP	38.86	78	ePc	27	54.00	1.9
OHR	38.92	86	eP	27	52.50	-0.1
VAY	39.82	84	eP	28	01.70	1.7
YKA	39.92	315	eP	27	59.50	-1.0
	0.8s	4.50nm			4.2mb	
INK	43.97	328	eP	28	33.00	-0.6
SES	44.44	298	eP	28	39.00	1.3
TUL	45.01	272	eP	28	43.20	0.8
	0.9s	18.80nm			5.0mb	
Z	19s	1.20um			4.8Msz	
		LR		41	43.00	
UYO	45.44	269	iPc	28	46.50	0.7
MEO	47.43	273	iPd	29	01.80	0.2
BRW	48.17	338	eP	29	06.90	0.0
LKO	50.43	141	P	29	23.54	-1.4
FBA	50.53	329	eP	29	25.50	0.5
IMA	51.35	333	eP	29	31.80	0.4
	1.3s	24.80nm			5.0mb	
ALQ	51.92	279	eP	29	37.00	0.7
	1.0s	6.50nm			4.5mb	
TOA	52.02	326	eP	29	37.20	0.7
PMR	53.36	327	eP	29	47.80	1.5
TTA	54.41	331	eP	29	53.70	-0.5
KDC	57.40	326	e(P)	30	15.30	-0.4
BCAO	65.90	118	iPc	31	11.90	-1.4
	0.8s	11.00nm			5.1mb	
		ic		31	18.10	
SIV	73.31	206	P	31	58.00	-0.7
ZOBO	75.60	213	P	32	12.80	0.3
LZH	83.41	32	eP	32	50.50	-3.5X
Z	14s	1.30um			5.5MszX	
		pP		32	54.00	11kmX
		eLg		36	33.00	
		e		37	06.50	
SPA	144.01	180	iPKPc	40	00.20	-1.0
	1.0s	7.50nm				
WB5	144.83	17	ePKP	40	02.80	-1.1
WRA	144.89	17	PKPd	40	02.40	-1.6
	1.0s	5.60nm				
BRS	152.58	344	ePKP	40	21.50	5.7X
S.D. = 0.9 on 97 of 106 obs.						

---

* MAY 06, 1990 10h 30m 08.19± 0.62s
29.880 N ±10.9km 90.073 E ± 8.4km
DEPTH = 33.0km (normal)
4.5mb (11 obs.)
TIBET (306)

GUN	4.17	243	P	31	13.30	1.9
DMN	4.91	244	P	31	23.10	1.2
NDI	11.29	267	eP	32	32.00	-18.3X
			eS	34	47.50	
KMI	12.20	110	eP	33	05.00	2.2
Z	12s	0.90um				
N	10s	1.20um				
E	10s	0.60um				
			pP	33	12.00	
			eS	34	24.00	
CHG	13.66	142	eP	33	21.50	-0.4
CHTO	13.66	142	eP	33	19.80	-2.1
HYB	16.27	223	eP	33	52.00	-3.9X
	1.0s	30.00nm			4.4mb	
			e	34	00.30	
POO	18.59	236	eP	34	18.50	-6.3X
			iS	37	43.00	
GBA	19.97	219	Pd	34	39.80	-0.8
	0.9s	14.60nm			4.3mb	
QUE	20.02	277	eP	34	39.00	-2.3
BJI	23.60	58	eP	35	17.00	0.2
	1.0s	6.00nm			4.1mb	
N	11s	0.87um				
E	11s	0.47um				
			eS	35	36.00	
MAIO	26.34	292	eP	35	43.00	0.0
			eS	39	52.00	
MLR	51.77	306	eP	39	27.50	12.7X
SUF	51.99	328	eP	39	16.00	-0.1
NUR	52.45	325	eP	39	28.00	8.5X
HFS	57.89	325	eP	39	58.30	-0.7
	0.7s	3.30nm			4.5mb	
NB2	59.02	326	P	40	03.80	-3.1X
	0.8s	2.80nm			4.4mb	
KHC	59.54	312	eP	40	11.20	0.6
			e	42	35.70	
MGR	60.27	302	P	40	37.30	21.7X
			eSg	40	43.10	
SGO	60.34	302	P	40	34.50	18.5X
			eSg	40	40.90	
WRA	65.35	134	Pc	40	53.30	3.7X
	0.7s	1.30nm			4.1mb	
LDF	68.36	314	eP	41	20.90	12.5X
	0.8s	10.75nm				
FLN	68.53	315	eP	41	17.70	8.3X
	1.2s	20.85nm			5.1mb	
GRR	68.90	314	eP	41	17.30	5.6X
	1.0s	12.00nm			4.9mb	
BCAO	71.80	265	ePc	41	30.20	0.3
	0.4s	3.00nm			4.7mb	
TOL	74.42	307	eP	41	51.50	6.6X
FBA	75.45	22	eP	41	52.00	1.7
INK	76.92	15	eP	42	01.00	2.6X
YKA	85.84	11	eP	42	43.50	-1.9
	0.9s	0.80nm			3.9mb	
FFC	95.10	7	eP	43	38.00	9.0X
	0.9s	10.00nm			5.2mb	
S.D. = 1.5 on 15 of 30 obs.						

% MAY 06, 1990 10h 32m 53.82± 1.05s
40.659 N ± 9.7km 15.760 E ± 7.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.36	254	P	33	00.60	-0.6
			eSg	33	07.00	
MGR	0.54	197	Pc	33	03.30	-1.5
			eSg	33	11.80	
BSS	0.74	281	P	33	09.50	1.2
			eSg	33	19.20	
ORI	0.79	138	P	33	10.00	0.7
			eSg	33	21.30	
BAI	0.96	61	P	33	11.00	-1.0
			eSg	33	14.00	
TDS	1.09	156	P	33	15.50	1.2
S.D. = 1.5 on 6 of 6 obs.						

MAY 06, 1990 10h 36m 21.95± 0.42s
54.081 N ±10.0km 35.289 W ± 4.7km
DEPTH = 10.0km (geophysicist)
4.5mb (18 obs.) 3.7Msz (1 obs.)
NORTH ATLANTIC OCEAN (402)

GDH	17.38	338	eP	40	14.00	-11.7X
			e	45	13.00	
SCH	18.25	285	eP	40	37.00	0.3
EKA	18.52	73	P	40	41.00	1.0
	2.4s	93.40nm			4.5mb	
FRB	19.47	313	eP	40	51.00	-0.4
LSF	24.62	93	eP	41	42.80	-0.5
	1.0s	10.00nm			4.4mb	
TCF	25.00	93	eP	41	45.50	-1.5
	1.0s	8.00nm			4.4mb	
WTS	25.13	77	eP	41	49.00	0.9
BGF	25.23	92	eP	41	48.90	-0.3
	0.8s	16.10nm			4.8mb	
MAF	25.25	93	eP	41	49.20	-0.1
	0.8s	8.05nm			4.5mb	
SSF	25.36	90	eP	41	49.80	-0.6
	0.8s	9.40nm			4.5mb	
AVF	25.41	91	eP	41	50.40	-0.4
	1.2s	14.90nm			4.6mb	
NB2	25.42	55	P	41	50.70	-0.1
	1.0s	3.20nm			4.0mb	
LOR	25.47	89	eP	41	50.70	-0.7
	1.0s	10.00nm			4.5mb	
CAF	25.66	96	eP	41	51.80	-1.4
	1.2s	8.95nm			4.3mb	
LBF	25.68	90	eP	41	53.00	-0.4
	1.0s	14.00nm			4.6mb	
SMF	25.77	91	eP	41	53.80	-0.4
	1.2s	11.90nm			4.5mb	
BNI	28.30	91	P	42	25.50	8.0X
GRF	28.63	80	eP	42	22.00	1.7
Z	19s	0.20um			3.7Msz	
CLL	28.95	75	eP	42	22.00	-1.1
	1.5s	15.00nm			4.6mb	
VAI	29.09	88	P	42	25.00	0.6
CTI	30.69	86	P	42	40.50	1.7
FVI	31.06	84	P	42	42.50	0.7
PGD	31.94	89	P	42	49.50	-0.4
NUR	31.99	54	eP	42	50.00	0.1
SUF	32.13	50	eP	42	51.00	-0.1
ARV	32.88	89	P	42	58.00	0.1
SRO	33.64	78	e(P)	43	05.20	0.8
SDI	34.47	91	P	43	12.00	0.2
BSS	35.63	91	P	43	18.50	-3.1X
SGO	36.07	91	P	43	24.50	-0.8
MGR	36.48	91	P	43	20.00	-8.8X
MBC	36.96	337	ePc	43	33.00	0.6
	1.0s	6.00nm			4.3mb	
SKO	38.80	84	eP	43	48.70	0.5
CMP	38.92	78	ePc	43	50.00	0.8
YKA	39.98	315	eP	43	56.30	-1.4
	0.9s	2.40nm			3.9mb	
INK	44.05	328	eP	44	30.00	-0.9
FBA	50.61	329	eP	45	22.40	0.0
IMA	51.44	333	eP	45	28.70	-0.1
	1.1s	9.40nm			4.6mb	
ALQ	51.91	279	eP	45	34.00	1.1
	1.1s	5.38nm			4.4mb	
PWA	53.63	327	iPc	45	45.50	0.4
BCAO	65.87	118	iPd	47	13.40	3.6X
	0.6s	6.00nm			5.0mb	
WMQ	71.02	40	P	47	41.40	-0.2
SIV	73.20	206	P	47	55.00	0.3
			i	49	54.60	
ZOBO	75.49	213	P	47	49.00	-19.6X
GTA	79.19	34	eP	48	27.00	-1.4
BTO	81.09	26	eP	48	39.00	0.5
CD2	88.25	34	eP	49	15.00	0.5
WRA	145.01	17	PKP	56	01.00	0.1
	1.0s	3.70nm				
BRS	152.68	344	ePKP	56	19.00	6.4X
S.D. = 0.8 on 42 of 49 obs.						

MAY 06, 1990 10h 44m 41.12± 0.39s
54.194 N ±10.1km 35.217 W ± 4.7km
DEPTH = 10.0km (geophysicist)
4.5mb (31 obs.) 3.7Msz (1 obs.)
NORTH ATLANTIC OCEAN (402)

GDH	17.29	338	ePd	48	42.00	-1.7
	1.6s	66.67nm			4.5mb	
			e	53	10.00	
ECP	17.35	85	eP	48	45.20	0.6
SCH	18.27	285	eP	48	55.00	-1.0
EKA	18.45	73	Pd	48	58.40	0.2
	0.9s	14.40nm			4.1mb	
FRB	19.43	313	eP	49	08.00	-2.1
FLN	22.15	90	eP	49	36.50	-1.8
	0.8s	16.10nm			4.5mb	
LPF	22.17	92	eP	49	36.50	-2.0
	0.9s	13.10nm			4.4mb	
LDF	22.44	90	eP	49	39.60	-1.6
	0.8s	14.80nm			4.5mb	
MFF	23.42	94	eP	49	50.70	-0.1
	1.0s	8.00nm			4.2mb	
DOU	24.54	83	P	50	03.00	1.4

06d 10h

LSF	24.58	94 eP	50 01.40	-0.7	
	0.8s	6.70nm		4.3mb	
TCF	24.96	93 eP	50 05.70	-0.1	
	1.0s	21.00nm		4.8mb	
ENN	25.03	81 eP	50 07.00	0.6	
	0.8s	5.00nm		4.3mb	
WTS	25.07	78 eP	50 08.00	1.3	
	0.8s	8.00nm		4.5mb	
RJF	25.09	96 eP	50 06.70	-0.3	
	0.8s	8.05nm		4.5mb	
MEM	25.15	81 P	50 10.20	2.8	
BGF	25.19	92 eP	50 06.20	-1.8	
	0.8s	33.60nm		5.1mb	
MAF	25.21	93 eP	50 06.50	-1.6	
	0.8s	16.80nm		4.8mb	
LPO	25.25	97 eP	50 08.10	-0.4	
	1.0s	16.00nm		4.7mb	
NB2	25.32	56 P	50 09.00	-0.1	
	1.0s	7.00nm		4.3mb	
SSF	25.32	90 eP	50 08.60	-0.6	
	1.0s	22.00nm		4.8mb	
TOL	25.36	112 eP	50 11.00	1.4	
AVF	25.37	91 eP	50 08.90	-0.7	
	1.0s	16.00nm		4.7mb	
LOR	25.42	90 eP	50 09.40	-0.7	
	0.8s	12.10nm		4.6mb	
CAF	25.63	96 eP	50 11.80	-0.3	
	1.0s	22.00nm		4.8mb	
LBF	25.64	90 eP	50 11.80	-0.4	
	0.8s	9.40nm		4.5mb	
SMF	25.73	91 eP	50 11.80	-1.2	
	0.8s	5.35nm		4.3mb	
HAU	26.52	86 eP	50 18.50	-1.8	
	0.8s	5.35nm		4.3mb	
HFS	26.65	57 eP	50 22.20	0.9	
	0.5s	2.90nm		4.2mb	
EBR	27.25	105 eP	50 29.00	2.0	
BNI	28.26	92 P	50 32.50	-3.8X	
GRF	28.57	80 eP	50 40.00	1.1	
Z	21s	0.20um		3.7Msz	
CLL	28.88	76 eP	50 41.00	-0.6	
VAI	29.04	88 P	50 45.00	1.9	
CKI	29.56	91 P	50 39.50	-8.3X	
BRG	29.60	76 eP	50 52.80	4.6X	
KHC	30.19	79 P	50 55.20	1.7	
PRU	30.34	77 eP	50 56.00	1.3	
CTI	30.64	86 P	50 56.50	-1.0	
FVI	31.01	84 P	50 57.50	-3.0X	
KBA	31.08	83 e(P)	51 03.00	1.5	
	0.9s	3.10nm		4.2mb	
		i	51 07.50		
NUR	31.89	54 eP	51 08.00	-0.2	
	0.8s	12.00nm		4.9mb	
PGD	31.90	89 P	51 06.50	-2.2	
SUF	32.02	50 eP	51 10.00	0.7	
TRI	32.06	85 P	51 04.50	-5.3X	
ARV	32.84	89 P	51 15.00	-1.7	
ASS	32.93	90 P	51 10.00	-7.5X	
MNS	33.35	91 P	51 22.00	0.8	
BSS	35.59	91 P	51 41.00	0.6	
SGO	36.03	91 P	51 43.50	-0.6	
MGR	36.44	91 P	51 46.00	-1.6	
MBC	36.87	337 ePc	51 52.00	1.2	
	1.0s	14.00nm		4.7mb	
FFC	37.48	299 eP	51 57.00	0.9	
	0.6s	5.00nm		4.5mb	
SKO	38.74	85 eP	52 08.00	1.1	
OHR	38.91	86 eP	52 07.70	-0.6	
YKA	39.93	315 eP	52 15.60	-0.9	
	0.8s	2.30nm		3.9mb	
INK	43.98	328 eP	52 46.00	-3.5X	
UYO	45.45	269 iPd	53 02.70	0.9	
MEO	47.44	273 e(P)	53 17.60	0.0	
FBA	50.54	329 eP	53 41.60	0.6	
IMA	51.36	333 eP	53 47.50	0.2	
	1.3s	15.30nm		4.8mb	
ALQ	51.93	279 eP	53 52.80	0.6	
	1.0s	4.25nm		4.3mb	
PWA	53.56	327 ePd	54 04.50	0.8	
PRNI	54.64	86 eP	54 14.00	1.9	
MBH	55.00	86 eP	54 15.00	0.3	
WDC	56.96	295 e(P)	54 22.90	-5.8X	
FRI	58.00	290 eP	54 37.20	1.2	
BCAO	65.89	118 iPc	55 29.90	0.8	
	0.8s	11.00nm		5.1mb	
		ic	55 42.30		
SIV	73.32	206 P	56 14.40	-0.1	
ZOBO	75.61	213 P	56 28.20	-0.2	
GUN	83.79	50 P	57 12.90	0.7	
WRA	144.89	17 PKPd	04 18.30	-1.5	
	0.9s	4.30nm			

S.D. = 1.2 on 64 of 72 obs.

% MAY 06, 1990 12h 04m 04.95± 0.71s
40.590 N ± 7.9km 15.806 E ± 5.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.38	265 Pc	04 12.00	-0.7	
		eSg	04 18.60		
MGR	0.49	203 P	04 14.90	0.0	
		eSg	04 23.10		
ORI	0.72	137 P	04 19.50	0.4	
		eSg	04 33.00		
BSS	0.79	285 P	04 21.00	0.8	
		iSg	04 30.70		
BAI	0.96	56 P	04 25.50	0.3	
BRT	1.10	74 P	04 25.00	-0.6	
		eSg	04 41.50		

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

% MAY 06, 1990 12h 26m 59.40± 1.00s
40.519 N ±10.8km 15.630 E ± 7.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.25	279 Pd	27 04.00	-0.7	
		eSg	27 09.50		
MGR	0.38	189 Pd	27 06.50	-0.8	
		eSg	27 14.00		
BSS	0.68	294 P	27 14.00	1.1	
		eSg	27 22.80		
ORI	0.77	126 P	27 16.00	1.5	
		iSg	27 27.60		
BRT	1.25	73 P	27 21.50	-1.1	
		eSn	27 40.00		

S.D. = 1.7 on 5 of 5 obs.

& MAY 06, 1990 13h 11m 44.25s
38.186 N 112.587 W
DEPTH = 0.4km
3.1mb (1 obs.)
UTAH (478)
<SLC-P>. ML 3.3 (SLC).

MSU	0.46	45 P	11 53.60	0.1	
DUG	2.01	355 P	12 19.00	-1.0	
DAU	2.45	24 P	12 26.50	0.1	
PV09	2.73	82 eP	12 34.00	3.5	
TNP	3.65	270 eP	12 42.50	-0.9	
KVN	4.40	283 eP	12 52.50	-1.6	
TPC	4.94	216 eP	13 17.00	15.4	
		e	14 30.00		
BW06	5.14	26 P	13 04.00	-0.5	
ISA	5.35	244 eP	13 23.00	15.7	
SBB	5.48	232 eP	13 19.00	9.8	
GOL	5.82	73 P	13 16.20	2.0	
ANMO	5.90	121 P	13 12.00	-3.2	
ALQ	5.90	121 eP	13 14.30	-0.9	
PLM	5.94	217 eP	13 20.00	4.2	
BAR	6.43	212 eP	13 47.00	24.5	
YKA	24.37	358 eP	17 07.60	3.0	
	0.7s	0.30nm		3.1mb	
	16 obs. ossocioted				

% MAY 06, 1990 13h 38m 16.51± 0.58s
40.646 N ± 6.5km 15.841 E ± 4.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.41	258 Pc	38 24.40	-0.6	
		eSg	38 31.50		
MGR	0.55	203 Pd	38 26.60	-1.1	
		eSg	38 36.30		
ORI	0.74	141 P	38 31.00	-0.1	
		iSg	38 42.50		
BSS	0.80	281 P	38 32.10	0.1	
		eSg	38 43.10		
BAI	0.91	58 P	38 33.00	-0.9	
		eSg	38 46.50		
TDS	1.06	159 P	38 37.40	1.0	
		eSn	38 53.00		
BRT	1.06	77 Pd	38 35.30	-1.2	
		eSg	38 50.20		
DUI	1.46	315 P	38 43.50	0.6	
		eSn	39 02.70		
LCI	1.64	100 P	38 47.00	1.5	
SDI	1.86	305 P	38 49.20	0.5	

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

% MAY 06, 1990 13h 45m 19.89± 0.60s
40.665 N ± 6.4km 15.838 E ± 5.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.42	255 P	45 28.00	-0.4	
		eSg	45 35.80		
MGR	0.57	202 P	45 30.40	-1.0	
		eSg	45 39.20		
ORI	0.76	142 P	45 35.10	0.3	
		eSg	45 45.60		
BSS	0.79	279 P	45 36.00	0.7	
		eSg	45 47.50		
BAI	0.90	59 P	45 37.50	0.3	
		eSg	45 51.00		
BRT	1.06	78 Pd	45 39.00	-0.9	
		eSg	45 53.80		
TDS	1.08	159 P	45 41.00	0.9	
		eSg	45 55.50		
DUI	1.44	314 P	45 45.00	-1.1	
SDI	1.85	305 P	45 53.00	1.1	
FNA	4.21	87 eP	46 30.80	5.2X	

S.D. = 1.0 on 9 of 10 obs.

% MAY 06, 1990 13h 52m 44.65± 0.86s
40.626 N ± 9.0km 15.747 E ± 5.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.34	259 P	52 51.80	0.1	
		eSg	52 56.30		
MGR	0.51	197 Pc	52 54.80	-0.2	
		eSg	53 02.80		
BSS	0.73	283 P	52 59.00	0.0	
		eSg	53 09.00		
ORI	0.78	136 P	53 00.00	0.2	
		eSg	53 10.50		
BRT	1.13	77 P	53 05.80	-0.1	
		eSg	53 20.50		

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

MAY 06, 1990 14h 12m 27.54± 0.71s
38.773 N ± 5.6km 30.393 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.36	322 iPg	12 34.70	-0.2	
		eSg	12 39.90		
KHL	0.82	237 iPg	12 42.50	-0.9	
		iSg	12 55.00		
BCK	1.32	173 ePn	12 51.60	-0.4	
GPA	1.52	358 ePn	12 55.00	0.3	
YLV	1.96	337 iPn	13 01.80	0.6	
ELL	2.06	191 ePn	13 04.00	1.3	
BBTK	2.12	59 ePn	13 03.00	-0.7	
		e	13 06.00		
		eS	13 37.00		

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

% MAY 06, 1990 14h 15m 59.64± 0.68s
40.422 N ± 5.9km 23.518 E ± 6.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR	0.37	104 ePgc	16 07.60	0.5	
		eSg	16 13.70		
SOH	0.42	343 ePgd	16 07.90	-0.3	
		eSg	16 14.30		
THE	0.47	297 ePg	16 08.30	-0.9	
		eSg	16 15.90		
PAIG	0.51	166 ePgc	16 09.30	-0.7	
		eSg	16 17.40		
SRS	0.70	5 ePg	16 13.30	-0.1	
		eSg	16 23.10		
LIT	0.85	248 ePg	16 16.60	0.6	
		eSg	16 28.00		
GRG	1.00	303 ePg	16 19.60	0.9	
		eSg	16 34.00		

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

? MAY 06, 1990 14h 23m 07.41± 0.84s

10.593 S ±10.5km 110.395 E ±15.4km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)
SOUTH OF JAVA (282)

TRT	3.62	38	ePc	24 02.60	0.0
			eS	24 34.10	
NANU	12.88	158	eP	26 08.20	-2.6X
	0.3s		17.00nm	5.7mb X	
			eS	28 24.00	
MBL	13.88	140	eP	26 21.70	-2.4X
			eS	28 44.00	
MEKA	17.69	155	eP	27 13.00	0.0
			eS	30 20.00	
MRWA	19.26	165	eP	27 35.00	2.9X
MUN	21.95	167	eP	28 10.00	9.9X
COOL	22.52	155	eP	28 16.30	10.5X
WRA	24.87	115	Pc	28 32.00	3.3X
	0.7s		4.00nm	4.1mb	
WB5	24.88	115	eP	28 31.80	3.1X
CHTO	31.33	339	eP	29 27.00	-0.2
	0.8s		0.55nm	3.4mb	
GUN	45.04	329	P	31 22.40	-0.1
DMN	45.20	328	P	31 23.80	0.2
S.D. = 0.2 on 5 of 12 obs.					

MAY 06, 1990 15h 09m 49.04± 0.60s
15.569 N ± 5.9km 147.769 E ± 9.4km
DEPTH = 33.0km (normal)
4.3mb (7 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.42	234	eP	10 42.00	0.6
GUMO	3.43	235	eP	10 41.30	-0.2
PJG	3.43	235	eP	10 41.30	-0.2
			eS	11 20.20	
MAT	22.56	340	(P)	14 48.00	0.3
	0.8s		7.46nm	4.2mb	
SNY	33.46	326	eP	16 26.20	-1.0
WHN	34.02	302	eP	16 31.50	-0.6
BJI	36.76	318	eP	16 54.50	-0.8
	1.5s		16.00nm	4.7mb	
WB5	37.61	201	eP	17 02.20	-0.5
WRA	37.68	201	Pc	17 03.10	-0.1
	0.8s		1.80nm	4.0mb	
XAN	39.47	305	eP	17 18.00	-0.3
CD2	42.94	299	eP	17 46.70	0.0
LZH	44.05	306	Pd	17 56.50	0.6
	2.0s		37.00nm	4.8mb	
			pP	18 09.50	48kmX
CHG	46.64	281	eP	18 17.00	0.5
CHTO	46.64	281	eP	18 17.00	0.5
	0.8s		3.66nm	4.4mb	
GTA	48.03	309	P	18 27.50	0.1
WMQ	57.86	312	P	19 40.50	0.4
GUN	58.26	293	P	19 43.10	-0.4
GBA	67.81	279	P	20 47.00	0.6
	0.7s		2.60nm	4.4mb	
MBC	75.68	14	eP	21 33.00	0.6
YKA	79.81	28	eP	21 55.20	-0.1
	0.8s		0.80nm	3.8mb	
ZOBO	145.50	96	PKP	29 30.00	2.9X
S.D. = 0.5 on 20 of 21 obs.					

? MAY 06, 1990 15h 14m 36.75± 1.72s
46.524 N ±33.9km 153.847 E ±25.1km
DEPTH = 33.0km (normal)
4.5mb (14 obs.)
KURIL ISLANDS (221)

MAT	15.36	235	(P)	18 09.00	-3.6X
YKA	50.80	37	eP	23 35.20	-0.2
	0.7s		0.60nm	3.7mb	
CHG	52.56	257	eP	23 50.00	0.7
CHTO	52.56	257	eP	23 49.90	0.6
	0.9s		2.98nm	4.3mb	
GUN	55.53	276	P	24 09.50	-1.9
DMN	56.25	276	P	24 15.60	-0.9
FFC	60.59	40	eP	24 45.00	-1.1
	0.9s		8.00nm	4.8mb	
NB2	68.61	342	P	25 37.20	-0.9
	0.7s		4.80nm	4.7mb	
HFS	68.84	340	eP	25 37.90	-1.6
	0.5s		7.90nm	5.0mb	
CLL	76.88	336	iP	26 27.40	0.6
	0.6s		9.00nm	5.0mb	
KHC	78.66	335	P	26 37.50	0.8
GRF	78.83	336	eP	26 39.00	1.4
KBA	80.57	334	eP	26 45.00	-2.2
	0.5s		4.40nm	4.7mb	
			i	26 49.60	
LOR	82.97	340	eP	26 59.60	0.1
	0.6s		2.70nm	4.5mb	
LBF	83.20	340	eP	27 01.70	1.0
	0.6s		1.80nm	4.4mb	
SSF	83.24	340	eP	27 01.00	0.1
AVF	83.53	340	eP	27 02.90	0.5
	0.6s		1.80nm	4.4mb	
SMF	83.55	340	eP	27 02.60	0.1
	0.8s		4.05nm	4.6mb	
LPL	83.88	337	eP	27 05.40	1.0
	0.8s		2.70nm	4.5mb	
LPG	83.89	337	eP	27 05.60	1.0
	0.8s		2.70nm	4.5mb	
MAF	84.25	340	eP	27 06.90	0.9
	1.0s		4.00nm	4.5mb	
S.D. = 1.1 on 20 of 21 obs.					

---

* MAY 06, 1990 16h 46m 13.22± 0.38s
35.253 S ±11.3km 104.142 W ± 8.6km
DEPTH = 10.0km (geophysicist)
4.9mb (7 obs.) 5.2Msz (6 obs.)
SOUTHERN PACIFIC OCEAN (692)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 16:46:16.5 0.3
Lat 35.93S 0.05 Lon 104.67W 0.05
Dep 15.0 FIX Half-duration 2.7
Moment Tensor; Scale 10**17 Nm
Mrr=-0.41 0.10 Mtt=-0.84 0.13
Mff= 1.25 0.13 Mrt= 0.73 0.34
Mrf=-1.69 0.37 Mtf=-3.61 0.11
Principal Axes:

	Val=	Plg=	Azm=
T	4.60	20	54
N	-0.98	68	208
P	-3.62	9	321

Best Double Couple:Mo=4.1*10**17
NP1:Strike= 96 Dip=70 Slip= 172
NP2: 189 82 20

TACH	27.36	96	eP	52 00.20	-0.2
CHCH	27.53	97	eP	52 03.00	1.0
SAN	27.63	96	eP	52 03.00	0.1
PEL	27.68	95	eP	52 03.00	-0.4
PCH	27.71	96	eP	52 06.50	2.8X
RTCB	29.66	93	ePc	52 23.10	1.8
RTLL	29.97	93	ePd	52 23.40	-0.7
NNA	33.88	54	eP	52 57.50	-0.8
	0.9s		15.97nm	4.9mb	
ARE	34.61	66	eP	53 05.00	0.1
ZOBO	37.27	69	Pc	53 28.00	0.2
	1.7s		94.48nm	5.3mb	
Z	20s		4.47um	5.3Msz	
			S	58 44.00	
			LR	03 28.00	
CCH	38.14	72	P	53 38.60	3.8X
SIV	42.92	75	Pc	54 12.80	-1.1
UPA	49.76	33	eP	54 58.00	-9.9X
Z	20s		3.90um	5.4Msz	
BAO	53.62	84	e(P)	55 37.10	-0.1
SDV	54.12	42	eP	55 37.30	-3.5X
SPA	54.93	180	iPd	55 43.90	-2.5
	1.0s		16.00nm	5.0mb	
Z	21s		1.37um	5.0Msz	
SBA	55.65	195	e(P)	55 45.20	-6.0X
CAR	57.53	45	eP	56 02.00	-3.4X
CUM	59.12	47	eP	56 14.00	-2.4
BAR	68.59	349	eP	57 21.00	2.7X
PLM	69.28	349	eP	57 23.00	0.3
UYO	69.65	9	e(P)	57 19.50	-5.2X
ALQ	69.87	358	eP	57 27.80	1.6
	1.0s		6.75nm	4.7mb	
Z	18s		0.65um	4.9Msz	
MEO	69.87	5	e(P)	57 24.60	-1.4
TPC	69.89	349	eP	57 27.00	0.8
RVR	69.99	348	eP	57 28.00	1.2
MWC	70.33	348	eP	57 30.00	0.9
SBB	70.75	348	eP	57 30.00	-1.5
GSC	71.18	349	eP	57 35.00	0.9
TUL	71.23	7	e(P)	57 28.50	-5.7X
	1.0s		9.00nm	4.8mb	
Z	21s		1.10um	5.1Msz	
			LR	17 00.00	
ISA	71.81	348	eP	57 39.00	1.2
PRI	72.68	346	eP	57 41.50	-1.6
PRS	73.00	346	eP	57 48.00	3.2X
FRI	73.32	347	eP	57 45.20	-1.4
CMB	74.46	347	eP	57 49.30	-4.0X
WDC	77.34	346	e(P)	57 58.40	-11.1X
CAN	82.15	232	eP	58 42.00	6.3X
BWA	83.07	233	eP	58 43.30	2.8X
PNT	85.31	350	eP	58 54.00	2.8X
SES	85.50	356	eP	58 52.00	-0.1
FFC	89.63	1	eP	59 10.00	-1.9
	1.1s		19.00nm	5.3mb	
YKA	97.77	355	eP	59 49.00	0.0
	0.7s		0.80nm	4.5mb	
EPF	122.74	58	ePKP	05 11.00	0.4
	0.8s		4.05nm		
LPF	123.40	52	ePKP	05 11.70	0.1
	0.6s		2.70nm		
GRR	123.62	51	ePKP	05 12.20	0.1
	0.6s		3.60nm		
FLN	123.97	51	ePKP	05 12.60	-0.2
	0.6s		2.70nm		
LDF	124.15	51	ePKP	05 12.90	-0.2
AVF	125.91	54	ePKP	05 16.30	-0.3
	0.6s		1.80nm		
SSF	126.08	54	ePKP	05 16.70	-0.3
	0.8s		2.70nm		
SMF	126.20	54	ePKP	05 17.00	-0.2
	0.8s		4.05nm		
LOR	126.37	54	ePKP	05 17.60	0.0
	1.0s		4.00nm		
LBF	126.38	54	ePKP	05 17.60	0.0
	0.8s		2.70nm		
BNI	127.70	57	PKP	05 21.00	0.7
LPG	127.86	56	ePKP	05 22.70	1.9
	0.8s		3.35nm		
CKI	128.65	58	PKP	05 18.00	-3.9X
BOB	129.54	58	PKP	05 25.00	1.3
CTI	131.33	57	PKP	05 28.50	1.4
GRF	131.65	52	ePKP	05 30.00	2.5X
Z	26s		0.60um	5.2MszX	
FVI	132.20	56	PKP	05 38.50	10.0X
NB2	132.26	36	PKP	05 28.40	0.1
	1.9s		28.30nm		
KBA	132.66	56	e(PKP)	05 28.00	-1.7
MGR	132.83	65	PKP	05 36.50	6.5X
CLL	132.98	50	ePKP	05 31.00	1.1
KHC	133.10	53	ePKP	05 33.20	2.9X
BRG	133.53	50	ePKP	05 31.60	0.6
HFS	133.53	38	ePKP	05 29.70	-1.0
	1.0s		4.90nm		
OHR	136.93	65	ePKP	05 36.50	-1.4
SOD	137.45	26	ePKP	05 40.00	2.1X
SKO	137.56	64	ePKP	05 40.50	1.5
MDJ	138.41	300	ePKP	05 39.00	-1.4
NUR	138.85	36	ePKP	05 42.00	1.3
MLR	141.18	59	ePKP	05 52.00	6.4X
CN2	141.30	298	ePKP	05 44.00	-1.7
ELL	143.07	74	ePKP	05 45.00	-4.1X
GZH	145.29	260	ePKP	05 51.00	-2.1X
PRNI	145.48	86	ePKP	05 55.00	1.7
LFK	145.63	77	ePKP	05 56.30	2.8X
BBTK	145.77	69	ePKP	05 50.00	-3.6X
QIZ	145.92	251	PKP	05 53.60	-0.7
KAS	146.66	67	ePKP	05 58.00	3.0X
TIA	146.67	284	PKPd	05 52.40	-2.6X
HRI	146.94	82	ePKP	05 58.00	2.3X
WHN	147.48	273	ePKP	05 53.00	-3.5X
BJI	147.92	291	ePKP	05 56.00	-0.9
TIY	150.60	286	PKPc	06 04.00	2.8X
Z	18s		0.60um	5.4Msz	
LOE	150.92	239	ePKP	06 00.00	-2.1X
HHC	151.47	292	ePKP	06 05.00	2.5X
BTO	152.64	292	ePKP	06 05.20	1.0
XAN	152.84	277	ePKP	06 06.50	1.9X
CHG	153.81	237	ePKP	06 10.00	3.7X
CHTO	153.81	237	e(PKP)	05 59.50	-6.8X
KMI	154.74	254	ePKP	06 08.80	1.2
LZH	157.28	280	ePKP	06 12.50	1.9
Z	26s		0.80um	5.4MszX	
			e	06 41.50	
LZH	157.28	280	ePKP	06 22.50	11.9X
Z	25s		0.80um	5.5MszX	
GTA	160.52	289	ePKP	06 11.50	-2.6X
Z	24s		0.60um		
MAIO	166.67	81	iPKPc	06 14.00	-5.8X

06d 17h

		e	11 10.00			
S.D. = 1.2	on	57 of	96 obs.			

MAY 06, 1990 17h 31m 16.01± 0.82s
46.149 N ± 8.3km 7.859 E ± 8.1km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.0 (LDG).

MMK	0.12	143	iPc	31	18.90	-0.4
DIX	0.32	258	iPd	31	22.40	-0.3
LPL	1.01	232	Pg	31	35.80	0.5
			Sg	31	51.80	
LLS	1.07	47	ePd	31	37.30	1.1
ZLA	1.38	15	ePd	31	39.80	-1.6
SLE	1.68	15	ePc	31	42.90	-2.6X
BSF	1.84	337	Pg	31	48.60	0.7
			Sg	32	11.40	
HAU	2.13	331	Pg	31	54.20	2.2X
			Sg	32	20.00	
S.D. = 1.2	on	6 of	8 obs.			

* MAY 06, 1990 18h 10m 16.19± 2.01s
38.090 N ±12.8km 20.562 E ±23.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

ITM	1.41	130	ePb	10	43.50	1.5
KEK	1.73	340	ePn	10	47.20	0.8
VLI	2.33	125	ePn	10	53.50	-1.7
LIT	2.51	36	eP	10	58.00	0.3
FNA	2.76	13	ePd	11	00.60	-0.8
OHR	3.02	3	ePn	11	03.50	-1.5
KNT	3.56	30	ePd	11	12.30	-0.3
VAY	3.58	25	ePn	11	14.50	1.6
S.D. = 1.5	on	8 of	8 obs.			

* MAY 06, 1990 18h 24m 03.92± 0.52s
36.517 N ±12.7km 138.651 E ±11.0km
DEPTH = 164.7km (3 depth phases)
4.3mb (5 obs.)
HONSHU, JAPAN (227)

MAT	0.36	274	iPc	24	27.30	0.7
			iS	24	44.00	
SSE	15.49	255	eP	27	37.00	2.2
	1.0s	19.00nm			4.4mb	
BJI	17.98	288	eP	28	03.00	-1.5
	1.5s	42.00nm			4.6mb	
CHTO	39.02	254	iP	31	15.40	-0.6
	0.6s	3.65nm			4.3mb	
			pP	31	52.90	173km
WB5	56.24	185	eP	33	28.20	-0.9
WRA	56.30	185	Pc	33	28.50	-1.1
	0.4s	1.40nm			4.2mb	
MBC	57.64	16	eP	33	38.00	-0.4
BRS	64.94	166	eP	34	28.00	0.2
YKA	65.36	29	eP	34	29.00	-1.1
	0.9s	1.00nm			3.7mb	
WDC	73.15	52	e(P)	35	18.70	0.7
ORV	74.38	52	ePc	35	25.20	0.0
CMB	75.96	53	ePc	35	35.00	0.8
			epP	36	14.60	161km
FRI	77.01	54	ePc	35	41.30	1.4
			epP	36	20.70	160km
FRB	77.76	12	eP	35	43.00	-0.6
ZOBO	148.84	57	PKP	43	35.00	4.7X
SIV	153.07	46	PKP	43	43.40	7.6X
S.D. = 1.2	on	14 of	16 obs.			

MAY 06, 1990 19h 22m 15.54± 1.06s
15.826 S ± 8.5km 177.217 W ± 6.5km
DEPTH = 383.5 ± 11.5 km
4.7mb (12 obs.)
FIJI ISLANDS REGION (181)

AFI	5.59	71	P	23	44.00	0.2
			e(S)	24	54.00	
DZM	16.65	246	iPc	25	49.30	1.0
NOZ	23.09	190	eP	26	51.30	0.8
THZ	27.22	196	eP	27	27.90	0.0
KHZ	27.67	195	P	27	30.50	-1.2
PMO	28.27	92	iP	27	37.50	0.2
	0.8s	55.00nm			4.9mb	
LTZ	28.34	196	eP	27	36.30	-1.4
VAH	28.50	93	iP	27	39.20	-0.2
	0.8s	30.00nm			4.7mb	
TPT	28.54	92	iP	27	39.80	0.1
	0.8s	25.00nm			4.6mb	
RUV	28.74	93	iP	27	41.50	0.0
	0.8s	45.00nm			4.9mb	
BRS	30.10	242	iPc	27	53.50	0.2
			i	27	55.00	
MMCZ	31.28	199	P	28	02.60	-0.9
MHZ	31.29	199	eP	28	02.60	-0.9
TLC	31.47	199	eP	28	04.60	-0.5
COO	31.83	237	iPc	28	09.00	0.7
RMQ	33.36	246	iPc	28	22.00	0.7
			i	28	24.00	
CAN	35.88	231	eP	28	45.00	2.6
QLP	37.37	247	eP	28	55.00	0.3
QIS	41.20	257	eP	29	26.00	-0.2
WB5	46.14	257	iPd	30	04.90	-0.4
WRA	46.16	257	Pc	30	05.10	-0.4
	0.4s	9.60nm			4.4mb	
WARB	53.07	249	iPd	30	57.20	-0.1
	0.3s	17.00nm			4.9mb	
COOL	57.89	243	eP	31	30.00	-1.2
MBL	59.61	255	eP	31	41.20	-1.8
KLB	60.78	242	iPd	31	50.10	-0.6
NWAO	61.20	241	eP	31	53.00	-0.5
BAL	61.72	244	eP	31	56.00	-0.9
NANU	63.42	252	eP	32	08.10	0.1
	0.4s	11.00nm			4.8mb	
PRS	73.95	44	eP	33	11.70	0.1
BRK	74.23	42	ePc	33	15.40	2.2
BKS	74.25	42	e(P)	33	13.00	-0.3
SPA	74.27	180	iPd	33	14.90	1.7
	0.8s	11.67nm			4.6mb	
FRI	75.43	44	ePc	33	19.30	-0.6
CMB	75.55	43	ePc	33	20.10	-0.5
WDC	75.62	40	eP	33	20.60	-0.3
ORV	75.68	41	ePc	33	20.50	-0.8
PNT	82.38	34	iP	33	56.00	-0.7
	0.7s	12.00nm			4.8mb	
ALQ	83.91	51	eP	34	04.90	0.0
	1.0s	9.50nm			4.5mb	
MAW	86.19	199	iP	34	17.30	2.0
CHTO	89.37	290	eP	34	32.00	0.9
	0.7s	1.27nm			3.9mb	
YKA	91.97	24	eP	34	40.60	-1.6
	1.0s	1.80nm			4.0mb	
PRU	144.62	347	PKP	41	07.40	-1.0
MEM	145.21	356	PKP	41	08.70	-0.6
GRF	145.53	350	ePKP	41	11.00	1.0
KHC	145.63	347	PKP	41	11.00	0.8
DOU	145.79	358	PKP	41	10.50	0.2
FLN	147.05	4	ePKP	41	14.00	1.6
	0.6s	7.20nm				
LDF	147.24	4	ePKP	41	14.60	1.9X
	0.6s	3.60nm				
CDF	147.30	354	ePKP	41	15.40	2.5X
GRR	147.39	5	ePKP	41	15.20	2.3X
	0.6s	9.00nm				
LPF	147.73	5	ePKP	41	16.40	2.9X
	0.6s	12.65nm				
HAU	147.78	356	ePKP	41	16.50	2.9X
LOR	148.64	359	ePKP	41	18.80	3.8X
	0.7s	4.40nm				
SSF	148.85	359	ePKP	41	19.30	4.0X
	0.8s	6.05nm				
LBF	148.92	358	ePKP	41	19.60	4.1X
	0.7s	4.40nm				
CTI	148.97	348	PKP	41	19.50	3.8X
AVF	149.12	359	ePKP	41	19.70	4.0X
	0.8s	2.70nm				
SMF	149.26	359	ePKP	41	20.20	4.2X
	1.0s	5.00nm				
BGF	149.36	360	ePKP	41	20.60	4.5X
	0.6s	5.40nm				
TCF	149.63	1	ePKP	41	21.00	4.5X
	0.6s	2.25nm				
VAI	149.63	352	PKP	41	20.50	4.0X
LSF	149.65	2	ePKP	41	20.90	4.3X
	0.6s	4.50nm				
MAF	149.70	0	ePKP	41	21.60	5.0X
	0.6s	3.60nm				
LPL	150.22	354	ePKP	41	23.80	6.1X
	0.6s	3.60nm				
LPG	150.23	354	ePKP	41	23.90	6.1X
	0.6s	3.60nm				
RJF	150.59	2	ePKP	41	23.60	5.6X
BOB	150.61	350	PKP	41	23.50	5.4X
BNI	150.68	354	PKP	41	25.00	6.7X
LFF	150.93	3	ePKP	41	24.40	5.9X
SFI	150.95	346	PKP	41	25.00	6.5X
CAF	150.99	1	ePKP	41	24.60	6.0X
	1.0s	6.00nm				
PGD	151.03	347	PKP	41	24.50	5.6X
ARV	151.09	345	PKP	41	25.00	6.2X
LPO	151.20	2	ePKP	41	24.90	6.0X
SDI	152.51	342	PKP	41	26.00	5.0X
BSS	153.02	340	PKP	41	38.50	16.9X
S.D. = 1.0	on	47 of	76 obs.			

% MAY 06, 1990 19h 42m 33.40± 0.67s
40.700 N ± 7.0km 15.778 E ± 5.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.38	249	Pc	42	42.00	0.7
			eSg	42	49.00	
MGR	0.59	197	Pc	42	44.00	-1.3
			eSg	42	54.30	
BSS	0.74	277	P	42	48.30	0.3
			eSg	43	01.00	
ORI	0.82	141	P	42	49.30	0.1
			eSg	43	01.20	
BAI	0.93	63	P	42	52.00	0.9
			eSg	43	05.00	
BRT	1.10	80	P	42	53.10	-0.9
			eSg	43	08.10	
TDS	1.12	157	P	42	55.30	0.8
			eSg	43	10.70	
DUI	1.38	314	P	42	58.00	-0.8
S.D. = 1.0	on	8 of	8 obs.			

MAY 06, 1990 20h 02m 42.54± 0.71s
36.036 N ± 8.2km 27.217 E ± 5.7km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 4.1 (ATH).

YER	1.39	38	iPn	03	08.00	0.0
SMG	1.70	350	ePn	03	10.00	-2.3
APE	1.70	308	ePn	03	11.20	-1.3
KSL	1.92	87	ePn	03	18.70	3.2X
ELL	2.28	71	iPn	03	24.00	3.0X
IZM	2.36	1	ePn	03	23.20	1.3
VAM	2.53	257	ePn	03	28.00	3.6X
KHL	2.93	38	ePn	03	30.00	-0.1
BCK	3.06	61	ePn	03	30.60	-1.3
ATH	3.40	306	ePb	03	41.50	4.8X
VLI	3.52	282	ePn	03	38.50	0.1
ALT	3.79	36	ePn	03	43.00	0.7
ITM	4.41	287	ePn	03	51.80	0.8
NEO	4.55	317	ePn	03	51.50	-1.5
YLV	4.83	20	ePn	04	05.00	7.9X
LFK	5.20	97	eP	04	09.80	7.6X
RDO	5.27	346	ePn	04	00.20	-3.0X
BBTK	5.80	47	eP	04	12.00	1.2
OHR	7.14	317	eP	04	31.00	1.5
HRI	7.55	109	eP	04	35.00	-0.3
DSI	8.12	121	eP	04	44.00	0.7
			eS	06	17.00	
PRNI	8.64	129	eP	04	50.00	-0.6
KHC	16.46	327	eP	06	36.20	1.2
S.D. = 1.2	on	16 of	23 obs.			

MAY 06, 1990 21h 13m 29.59± 0.47s
44.534 N ± 3.2km 6.914 E ± 4.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN), 2.2 (LDG).

RRL	0.40	347	P	13	37.46	-0.3
			S	13	43.25	
STV	0.41	134	P	13	37.88	-0.2
			S	13	43.84	
ENR	0.48	130	P	13	39.10	-0.2
			S	13	45.73	
RSP	0.66	21	P	13	43.25	0.4
			S	13	53.29	
ROB	0.73	109	P	13	44.23	0.3
			S	13	54.53	
SBF	0.77	151	Pg	13	44.60	0.0
			Sg	13	55.60	
FIN	0.98	109	P	13	47.77	-0.5
			S	14	01.29	
LPL	0.99	353	Pg	13	48.40	-0.1
FRF	0.99	191	Pg	13	47.70	-0.7

			Sg	14 00.40		
LRG	1.15	201	Pg	13 51.60	0.5	
			Sg	14 06.40		
PCP	1.17	89	P	13 51.81	0.4	
			S	14 07.71		
LMR	1.24	194	Pg	13 53.00	0.5	
			Sg	14 08.60		

S.D. = 0.4 on 12 of 12 obs.

MAY 06, 1990 21h 35m 28.59± 0.55s
44.276 N ± 4.9km 7.289 E ± 4.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG), 2.2 (GEN).

STV	0.04	142	P	35 31.07	0.3	
			S	35 32.40		
ENR	0.11	118	P	35 31.68	0.2	
			S	35 33.43		
ROB	0.42	87	P	35 37.32	0.2	
			S	35 42.96		
SBF	0.43	166	Pg	35 36.80	-0.5	
			Sg	35 42.60		
FIN	0.66	95	P	35 41.43	-0.4	
			S	35 49.83		
RRL	0.74	331	P	35 43.07	-0.2	
			S	35 52.91		
FRF	0.85	213	Pg	35 45.50	0.5	
			Sg	35 55.00		
PCP	0.94	73	P	35 46.66	0.1	
			S	35 58.24		
LRG	1.06	220	Pg	35 48.60	0.0	
			Sg	36 02.00		
LMR	1.10	211	Pg	35 49.00	-0.2	
			Sg	36 03.00		

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

---

* MAY 06, 1990 22h 09m 13.59± 1.20s
40.826 N ±13.3km 29.803 E ±10.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT	0.10	268	ePg	09 16.10	-0.3	
GBZT	0.27	262	iPgd	09 19.70	0.3	
			iSg	09 25.20		
ISK	0.61	293	iPg	09 25.70	-0.2	
			eSg	09 34.90		
GPA	0.66	144	iPg	09 20.80	-6.0X	
EDC	1.55	253	iPn	09 38.80	-2.5X	
ALT	1.78	172	iPn	09 42.60	-2.2	
DMK	1.83	304	iPn	09 45.40	0.0	
BBTK	2.46	113	eP	09 55.00	0.4	
KHL	2.51	185	ePn	09 57.00	1.8	

S.D. = 1.5 on 7 of 9 obs.

? MAY 06, 1990 22h 43m 37.79± 7.67s
18.058 S ±32.6km 179.708 W ±83.8km
DEPTH = 652.9 ± 47.8 km
4.3mb (5 obs.)
FIJI ISLANDS REGION (181)

DZM	13.61	251	iPc	46 31.80	-0.2	
BRS	26.98	245	iP	48 34.00	1.1	
CAN	32.64	232	eP	49 21.20	0.4	
BWA	32.73	234	eP	49 20.90	-0.7	
WB5	43.37	260	iPd	50 47.10	-0.2	
WRA	43.39	260	Pc	50 47.30	-0.2	
	0.7s		5.90nm		4.1mb	
FORR	48.79	245	eP	51 28.00	-0.2	
WARB	50.07	251	iPd	51 37.80	0.1	
	0.3s		5.00nm		4.3mb	
MBL	56.74	256	iPd	52 24.20	-0.4	
	0.3s		6.00nm		4.3mb	
KLB	57.65	244	eP	52 30.10	-0.5	
NANU	60.50	254	iPc	52 50.10	0.6	
	0.3s		11.00nm		4.6mb	
CHTO	87.89	290	eP	55 21.70	0.1	
	0.9s		1.07nm		3.6mb	
GUN	102.02	296	Pdiff	56 30.40	4.4X	
	0.4s		9.00nm		5.6mb X	

S.D. = 0.6 on 12 of 13 obs.

% MAY 06, 1990 23h 14m 19.58± 0.81s
40.488 N ± 8.7km 15.661 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.28	285	P	14 24.60	-0.8	
			eSg	14 31.30		
MGR	0.36	193	P	14 27.10	0.1	
			eSg	14 35.80		
BSS	0.72	295	P	14 34.50	0.8	
			eSg	14 46.50		
ORI	0.74	125	P	14 34.00	-0.1	
			eSg	14 44.50		
BRT	1.24	71	P	14 42.50	-0.1	

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

% MAY 06, 1990 23h 33m 27.05± 0.93s
40.633 N ± 9.8km 15.777 E ± 6.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.36	258	P	33 33.90	-0.6	
			eSg	33 39.60		
MGR	0.52	199	P	33 37.50	-0.1	
			eSg	33 45.50		
BSS	0.75	282	P	33 42.50	0.7	
			eSg	33 53.00		
ORI	0.77	138	P	33 42.50	0.5	
			eSg	33 54.50		
BRT	1.11	77	P	33 47.50	-0.4	

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

---

* MAY 06, 1990 23h 53m 42.10± 0.42s
14.961 S ±17.7km 173.512 W ± 9.3km
DEPTH = 33.0km (normal)
4.7mb (13 obs.) 5.2Msz (3 obs.)
SAMOA ISLANDS REGION (169)
Mo=1.6*10**17 Nm (PPT).

AFI	1.98	58	P	54 06.00	-8.0X	
			eS	58 08.00		
DZM	20.27	247	iPc	58 23.70	5.9X	
PMO	24.74	93	iP	59 01.80	-0.3	
	1.0s		35.00nm		4.9mb	
VAH	24.99	94	iP	59 03.70	-0.7	
	1.0s		15.00nm		4.5mb	
TPT	25.01	93	iP	59 04.20	-0.4	
	1.0s		40.00nm		5.0mb	
RUV	25.23	94	iP	59 06.00	-0.7	
	1.0s		30.00nm		4.8mb	
WB5	49.82	256	eP	02 32.00	-2.2	
WRA	49.84	256	Pc	02 32.50	-1.9	
	0.8s		6.60nm		4.7mb	
GUA	49.94	303	eP	02 29.50	-5.7X	
MAT	68.53	320	(P)	04 25.00	-18.7X	
	0.8s		4.48nm			
			eS	13 52.00		
FRI	72.34	43	e(P)	05 13.50	6.8X	
SPA	75.14	180	eP	05 24.50	1.8	
	1.0s		10.50nm		4.8mb	
ALQ	80.60	50	eP	05 52.00	-1.4	
	2.0s		23.53nm		4.8mb	
	Z 22s		1.20um		5.2Msz	
ANMO	80.60	50	eP	05 53.00	-0.4	
	1.0s		2.00nm		4.1mb	
FBA	81.99	11	eP	06 00.00	0.3	
	1.0s		2.60nm		4.2mb	
BW06	82.02	42	eP	05 59.90	-0.8	
	1.0s		4.00nm		4.4mb	
GOL	83.43	46	eP	06 07.80	-0.3	
	0.9s		6.44nm		4.8mb	
BJI	85.09	313	eP	06 20.00	4.0X	
	1.5s		26.00nm		5.2mb	
	Z 24s		0.45um		4.8MszX	
			esP	06 36.00		
			eS	16 40.00		
			esS	16 56.00		
MEO	86.49	53	eP	06 23.50	0.4	
YKA	89.74	23	eP	06 37.30	-0.7	
	1.0s		2.10nm		4.4mb	
KRA	143.33	345	ePKP	13 16.90	2.2X	
KSP	143.34	350	ePKP	13 13.50	-1.2	
SPC	144.05	345	ePKP	13 16.30	0.1	
MEM	144.44	1	PKP	13 20.80	4.3X	
PRU	144.46	351	ePKP	13 19.00	2.4X	
	Z 20s		0.60um		5.4Msz	
	N 20s		0.50um			
	E 20s		0.30um			
			e	13 25.50		
KAS	144.63	323	ePKP	13 19.00	1.7X	
DOU	144.93	2	PKP	13 22.30	4.9X	
GRF	145.15	355	ePKP	13 19.00	1.1	
	Z 22s		0.30um		5.0Msz	
ABH	145.16	359	ePKP	13 19.21	1.3	
PSZ	145.31	344	ePKP	13 20.10	1.8X	
RUP	145.35	359	ePKP	13 20.15	1.9X	
TOD	145.40	357	ePKP	13 19.89	1.6	
MLR	145.43	336	ePKP	13 34.00	15.4X	
KHC	145.43	352	PKP	13 20.50	2.1X	
			e	14 01.30		
ZST	145.72	347	ePKP	13 20.80	2.0X	
SRO	145.81	346	iPKP	13 22.20	3.2X	
FLN	145.81	8	ePKP	13 18.70	-0.3	
	1.2s		17.85nm			
VKA	145.81	348	e(PKP)	13 22.00	3.0X	
	4.5s		168.00nm			
			e	14 09.00		
			e	14 43.00		
CMP	145.97	336	ePKPc	13 20.00	0.6	
LDF	146.02	8	ePKP	13 19.60	0.3	
	1.2s		17.85nm			
GRR	146.12	9	ePKP	13 20.20	0.7	
	1.2s		17.85nm			
BBTK	146.20	322	ePKP	13 22.00	1.9X	
			e	13 28.00		
SOP	146.32	348	ePKP	13 24.00	4.2X	
KMR	146.40	351	iPKP-	13 24.20	4.2X	
			e	14 31.00		
LPF	146.44	9	ePKP	13 21.30	1.3	
	1.0s		12.00nm			
CDF	146.64	359	ePKP	13 22.20	1.7X	
	0.8s		8.05nm			
BZS	146.89	340	ePKP	13 23.00	2.2X	
BHG	146.91	352	ePKP	13 25.50	4.7X	
HAU	147.05	0	ePKP	13 23.10	2.0X	
	0.8s		6.70nm			
FEL	147.16	358	ePKP	13 25.57	4.2X	
BSF	147.22	360	ePKP	13 24.70	3.3X	
	0.8s		5.35nm			
ITU	147.42	327	ePKP	13 27.00	5.2X	
KBA	147.47	351	e(PKP)	13 26.00	4.0X	
	1.0s		6.30nm			
			e	13 42.00		
LOR	147.71	3	ePKP	13 24.90	2.8X	
	0.8s		5.35nm			
SSF	147.90	4	ePKP	13 25.60	3.2X	
	1.0s		15.00nm			
MFF	147.97	9	ePKP	13 25.40	2.9X	
	1.0s		8.00nm			
LBF	148.00	3	ePKP	13 25.80	3.2X	
	1.0s		14.00nm			
FVI	148.03	352	PKP	13 18.00	-4.6X	
AVF	148.16	4	ePKP	13 25.80	3.0X	
	1.0s		8.00nm			
LJU	148.28	349	e(PKP)	13 25.50	2.4X	
SMF	148.33	3	ePKP	13 26.40	3.3X	
	1.0s		8.00nm			
BGF	148.35	5	ePKP	13 26.60	3.5X	
	1.0s		10.00nm			
VOY	148.41	350	e(PKP)	13 27.00	3.6X	
LSF	148.53	7	ePKP	13 26.70	3.2X	
	0.8s		4.05nm			
TCF	148.56	6	ePKP	13 27.10	3.6X	
	1.0s		4.00nm			
CEY	148.60	349	e(PKP)	13 27.50	3.9X	
MAF	148.66	5	ePKP	13 27.50	3.8X	
	1.0s		7.00nm			
VBY	148.67	348	e(PKP)	13 31.00	7.3X	
CTI	148.71	353	PKP	13 25.40	1.5	
CSS	148.72	314	ePKP	13 19.50	-4.6X	
TRI	148.74	350	PKP	13 28.50	4.7X	
VAI	149.13	357	PKP	13 24.30	0.0	
MDI	149.16	356	PKP	13 30.00	5.6X	
SAL	149.26	354	PKP	13 31.50	6.9X	
PPCY	149.44	315	ePKP	13 09.00	-16.2X	
RJF	149.46	7	ePKP	13 29.40	4.5X	
	1.2s		11.90nm			
LPL	149.54	360	ePKP	13 31.20	5.9X	
	0.8s		4.05nm			
LPG	149.56	360	ePKP	13 31.00	5.5X	
	0.8s		4.70nm			
PRNI	149.68	305	ePKP	13 34.00	8.3X	
LFF	149.72	8	ePKP	13 30.20	4.9X	
	1.0s		8.00nm			
CAF	149.90	6	ePKP	13 30.90	5.3X	
	1.2s		7.45nm			
MBH	150.00	304	ePKP	13 34.00	7.8X	
BNI	150.00	360	PKP	13 34.00	8.1X	
SKO	150.14	337	ePKP	13 29.50	3.5X	

7d 00h

			i	13	33.90	
BOB	150.18	356	PKP	13	34.00	7.9X
VAY	150.26	335	ePKP	13	33.30	7.1X
DOI	150.55	359	PKP	13	41.50	14.8X
CKI	150.59	357	PKP	13	33.00	6.4X
SFI	150.78	352	PKP	13	35.50	8.6X
BDI	150.78	354	PKP	13	34.00	7.0X
PGD	150.84	352	PKP	13	36.00	8.7X
ARV	151.03	350	PKP	13	37.00	9.7X
CRE	151.05	352	PKP	13	37.50	10.0X
OHR	151.13	337	ePKP	13	30.00	2.4X
	1.2s		61.00nm			
			e	13	58.20	
PII	151.13	354	PKP	13	35.50	8.1X
FNA	151.19	336	ePKP	13	31.00	3.3X
ASS	151.49	350	PKP	13	34.50	6.4X
MNS	152.16	350	PKP	13	37.50	8.4X
AGG	152.27	333	ePKP	13	15.20	-14.1X
AZI	152.41	349	PKP	13	39.00	9.7X
DUI	152.51	347	PKP	13	31.50	1.8X
BRT	152.54	342	PKP	13	37.50	7.9X
SDI	152.61	348	PKP	13	39.00	9.3X
BSS	153.26	346	PKP	13	23.50	-7.1X
SGO	153.36	345	PKP	13	34.50	3.8X
MGR	153.69	344	PKP	13	26.00	-5.2X
TDS	153.92	343	PKP	13	32.00	0.4
BCAO	164.19	230	ePKPc	13	51.30	7.3X
	0.6s		2.00nm			
	S.D. = 1.1		on	27	of 108	obs.

? MAY 07, 1990 00h 01m 41.43± 1.36s
7.065 N ±19.6km 82.424 W ±15.3km
DEPTH = 10.0km (geophysicist)
SOUTH OF PANAMA (83)

DVD	1.36	359	P	02	07.00	0.6
CUM	18.35	78	eP	05	57.00	-0.9
			iS	09	31.00	
CJM	25.20	302	(P)	07	08.50	-0.4
CAI	47.15	106	eP	10	17.40	1.1
PDA	59.62	50	iPd	11	53.50	5.4X
TOL	76.59	51	eP	13	54.00	19.9X
STU	85.81	42	iPd	14	22.00	-0.5
	1.0s		210.00nm		6.3mb	X
Z	20s		12.77um		6.3Msz	X
BUC1	98.07	43	eP	15	24.50	4.9X
	S.D. = 1.2		on	5	of 8	obs.

MAY 07, 1990 00h 12m 01.66± 0.62s
36.273 N ± 7.5km 27.114 E ± 5.1km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
DODECANESE ISLANDS (369)
ML 4.1 (ATH).

YER	1.27	47	iPn	12	24.00	-1.3
SMG	1.45	351	ePb	12	26.50	-1.4
APE	1.50	302	ePb	12	28.30	-0.4
KSL	2.00	94	ePn	12	35.60	-0.3
IZM	2.12	3	ePn	12	38.30	0.6
ELL	2.30	77	ePn	12	40.50	0.2
VAM	2.52	251	ePn	12	44.50	1.2
KHL	2.81	42	ePn	12	49.20	1.7
BCK	3.03	66	ePn	12	52.10	1.5
ATH	3.20	303	ePb	12	57.50	4.5X
VLI	3.39	279	ePn	12	55.50	-0.2
VLI	3.39	279	ePn	12	55.50	-0.2
EZN	3.60	350	ePn	12	56.90	-1.7
ALT	3.66	40	ePn	12	59.00	-0.6
EDC	4.11	8	ePn	13	06.70	0.9
ITM	4.26	284	ePn	13	11.00	2.9X
NEO	4.32	316	ePn	13	08.30	-0.6
GPA	4.73	31	ePn	13	26.00	11.2X
HRT	4.96	23	ePn	13	27.00	9.0X
RDO	5.02	346	ePn	13	17.20	-1.5
ISK	5.02	17	ePn	13	29.00	10.2X
LFK	5.31	99	ePn	13	21.30	-1.7
HRI	7.70	110	eP	13	58.00	1.3
DSI	8.32	122	eP	14	00.00	-5.1X
TAB	15.42	78	eP	15	44.00	3.0X
BRG	17.40	331	e(P)	16	12.20	6.4X
	2.0s		22.00nm		3.9mb	
CLL	18.11	331	e(P)	16	17.00	2.3
MEM	20.88	320	P	16	49.30	3.2X
DOU	21.35	317	P	16	53.00	2.0
MAIO	26.04	80	eP	17	37.00	0.2
BCAO	32.65	196	ePc	18	34.10	-1.9
	0.7s		4.00nm		4.5mb	
	S.D. = 1.4		on	22	of 31	obs.

---

* MAY 07, 1990 00h 29m 00.62± 1.21s
36.202 N ±15.7km 27.136 E ± 6.9km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.31	44	ePn	29	24.00	-0.9
SMG	1.52	351	eP	29	28.09	0.2
			eS	29	50.00	
APE	1.55	304	eP	29	29.30	0.9
			eS	29	55.00	
KSL	1.98	92	eP	29	34.50	0.0
IZM	2.19	3	ePn	29	41.00	3.3X
ELL	2.30	75	ePn	29	40.00	0.7
VAM	2.52	252	eP	29	48.50	6.3X
VLI	3.42	280	eP	29	54.20	-0.9
	S.D. = 1.0		on	6	of 8	obs.

% MAY 07, 1990 00h 41m 37.26± 0.93s
40.563 N ±10.0km 15.831 E ± 6.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.40	269	P	41	44.60	-0.8
			eSg	41	49.80	
MGR	0.47	206	P	41	46.60	-0.3
			eSg	41	54.00	
ORI	0.69	136	P	41	51.50	0.6
			eSg	42	02.00	
BSS	0.81	287	P	41	54.00	1.0
			eSg	42	04.50	
BRT	1.09	73	P	41	57.20	-0.5
			eSg	42	10.00	
	S.D. = 1.1		on	5	of 5	obs.

% MAY 07, 1990 00h 42m 15.16± 0.56s
40.625 N ± 6.1km 15.866 E ± 4.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.43	261	Pc	42	23.30	-0.6
			eSg	42	30.80	
MGR	0.54	206	Pc	42	25.30	-0.8
			eSg	42	35.50	
ORI	0.72	141	P	42	29.30	0.0
			eSg	42	40.10	
BSS	0.82	282	P	42	31.90	0.8
			eSg	42	43.30	
BAI	0.91	57	P	42	32.00	-0.5
			eSg	42	45.00	
TDS	1.03	159	P	42	35.30	0.7
BRT	1.05	76	P	42	33.80	-1.1
			eSg	42	48.90	
DUI	1.48	315	P	42	43.00	1.0
			eSn	43	00.50	
LCI	1.62	100	P	42	45.00	1.2
SDI	1.89	306	P	42	47.00	-0.8
	S.D. = 1.0		on	10	of 10	obs.

---

* MAY 07, 1990 01h 16m 54.15± 0.90s
36.398 N ±12.2km 27.270 E ± 6.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.10	48	ePn	17	14.00	-0.8
SMG	1.35	345	ePn	17	19.50	0.5
APE	1.55	296	ePn	17	21.50	-0.4
KSL	1.89	98	ePn	17	26.00	-0.7
ELL	2.15	80	ePn	17	32.00	1.3
VAM	2.68	249	ePn	17	38.20	0.1
BCK	2.86	67	ePn	17	47.00	6.2X
	S.D. = 1.0		on	6	of 7	obs.

---

* MAY 07, 1990 01h 18m 40.22± 1.23s
24.350 N ±14.8km 123.570 E ±11.7km
DEPTH = 10.0km (geophysicist)
4.1mb (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.59	280	ePc	19	07.00	-1.4
			eS	19	20.30	
TWD	1.82	262	ePd	19	11.20	-0.6
			eS	19	27.40	
TWZ	1.96	293	P	19	13.10	-0.7
ANP	2.04	294	eP	19	17.30	2.2
			eS	19	40.00	
TWK	3.02	250	ePc	19	29.20	0.2
TWM1	3.26	243	eP	19	33.00	0.6
WRA	45.26	166	Pd	26	59.90	0.1
	0.5s		1.00nm		4.0mb	
YKA	81.96	23	eP	31	01.00	-0.3
	0.6s		1.40nm		4.2mb	
	S.D. = 1.3		on	8	of 8	obs.

MAY 07, 1990 02h 04m 10.18± 0.48s
36.972 N ± 7.9km 72.944 E ± 7.6km
DEPTH = 33.0km (normal)
4.4mb (10 obs.) 3.8Msz (1 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

KSH	3.44	43	Pn	05	08.00	5.0X
QUE	8.41	218	eP	06	12.20	-0.7
			e(S)	07	50.50	
NDI	9.01	155	eP	06	20.00	-1.0
			eS	08	00.00	
MAIO	10.83	270	eP	06	44.00	-2.1
			eS	08	44.00	
WMQ	13.15	54	P	07	15.90	-1.3
			S	09	36.50	
DMN	13.88	129	P	07	21.40	-5.6X
GUN	14.16	126	P	07	24.00	-6.8X
HYB	20.10	164	eP	08	44.00	0.0
GTA	21.23	75	P	08	54.80	-0.8
GBA	23.62	169	P	09	21.00	1.9
	0.6s		3.40nm		4.0mb	
LZH	24.80	83	eP	09	30.50	-0.1
	2.5s		54.00nm		4.7mb	
Z	20s		0.30um		3.8Msz	
			pP	09	37.50	25kmX
			PP	10	10.00	
			eS	13	48.00	
CD2	26.20	94	eP	09	43.00	-0.7
CHTO	29.10	121	eP	10	12.70	2.7
	0.7s		1.43nm		3.8mb	
TIY	31.25	76	eP	10	28.20	-0.8
N	12s		0.30um			
SUF	38.36	327	iP	11	30.50	1.1
	0.5s		3.50nm		4.4mb	
NUR	38.37	323	eP	11	31.00	1.5
HFS	43.66	321	eP	12	13.40	0.3
	0.9s		5.80nm		4.4mb	
Z	17s		0.07um		3.6MszX	
			LR	19	26.00	
NB2	44.95	323	P	12	23.40	-0.1
	0.9s		4.90nm		4.4mb	
MBC	66.79	3	ePc	15	00.50	0.6
	0.9s		19.00nm		5.2mb	
YKA	80.69	4	eP	16	20.10	-0.8
	0.9s		3.50nm		4.4mb	
WB5	80.90	123	eP	16	22.00	-0.7
WRA	80.93	123	Pd	16	26.20	3.4X
	0.8s		2.10nm		4.2mb	
FFC	88.57	357	iPc	17	01.70	1.1
	0.9s		10.00nm		5.1mb	
SPA	126.79	180	ePdiff	19	59.00	7.2X
	0.9s		7.73nm			
	S.D. = 1.3		on	19	of 24	obs.

? MAY 07, 1990 02h 36m 52.80± 1.10s
18.474 S ±13.1km 85.847 E ±23.4km
DEPTH = 10.0km (geophysicist)
4.7mb (5 obs.)
SOUTH INDIAN OCEAN (425)

CHG	39.22	20	eP	44	24.00	0.8
CHTO	39.22	20	eP	44	24.00	0.8
	1.0s		5.25nm		4.2mb	
WRA	45.69	100	Pc	45	16.20	0.2
	0.7s		4.40nm		4.5mb	
WB5	45.73	100	eP	45	16.20	-0.1
GUN	46.11	0	P	45	18.60	-0.8
	0.6s		14.00nm		5.1mb	
BRS	61.65	112	eP	47	13.00	-0.5
BJI	64.72	25	eP	47	32.50	-0.8
	1.0s		6.00nm		4.7mb	
SPA	71.64	180	iPc	48	16.90	0.4
	1.0s		10.00nm		4.9mb	
MLR	83.63	322	eP	49	36.00	13.1X
			e	55	32.00	
FRI	150.96	45	ePKPc	56	48.20	6.5X
	S.D. = 0.8		on	8	of 10	obs.

MAY 07, 1990 02h 53m 32.82± 0.27s
40.970 N ± 3.1km 19.799 E ± 2.7km
DEPTH = 20.1 ± 3.2 km
3.7mb (3 obs.)
ALBANIA (391)
ML 3.9 (SKO), 3.7 (TTG), 3.3 (THE). Felt (IV) at Cerrik, Mollos and Belesh.

BERA	0.29	157	iPgc	53 38.40	-0.9
TIR	0.38	8	iPgd	53 40.10	-0.7
VLO	0.55	205	iPgc	53 44.40	0.7
LACI	0.67	354	iPd	53 45.00	-0.7
TPE	0.69	167	ePg	53 44.10	-2.0
OHR	0.77	79	iPgd	53 45.00	-2.4
			iSg	53 56.10	
KBN	0.84	114	iPgd	53 46.00	-2.7
SDA	1.07	348	iPnd	53 55.00	2.5
PUK	1.07	4	iPc	53 51.80	-0.8
ULC	1.08	338	ePg	53 52.90	0.3
			eSg	54 13.00	
SRN	1.10	172	iPn	53 53.90	0.9
FNA	1.21	98	ePgd	53 52.90	-1.8
			eSg	54 10.00	
KEK	1.26	180	ePb	53 56.70	1.4
			eSb	54 17.00	
BCI	1.41	8	ePn	54 00.00	2.6
BDV	1.50	331	iPnc	54 00.20	1.5
			eSn	54 24.00	
TTG	1.51	345	ePn	54 01.00	2.1
			eSn	54 23.50	
LCI	1.54	246	P	53 59.20	-0.1
			eSn	54 21.50	
PVY	1.63	5	ePn	54 02.00	1.3
			eSn	54 28.00	
HCY	1.77	327	ePn	54 03.40	0.8
			eSn	54 30.60	
IVA	1.90	2	iPnc	54 07.40	2.8
			eSn	54 36.00	
NKY	1.94	342	ePn	54 06.80	1.6
			eSn	54 34.50	
BRT	1.97	268	P	54 07.70	2.2
			eSn	54 36.90	
GRG	1.97	90	ePd	54 05.20	-0.4
			eS	54 31.20	
BRY	2.14	335	ePn	54 09.40	1.2
			eSn	54 41.40	
BAI	2.22	275	P	54 10.00	0.8
LIT	2.23	112	ePd	54 10.50	1.2
			eS	54 38.00	
KNT	2.35	84	eP	54 10.70	-0.3
			iS	54 39.40	
PLE	2.38	353	ePn	54 13.90	2.4
			eSn	54 47.60	
THE	2.43	97	eP	54 12.10	0.1
			eS	54 41.70	
SOH	2.70	92	ePc	54 16.50	0.5
			eS	54 48.90	
ORI	2.71	252	P	54 16.90	0.8
			eSn	54 51.50	
AGG	2.75	134	ePd	54 18.80	2.1
			iS	54 52.70	
SRS	2.87	86	ePc	54 18.40	0.0
			eS	54 53.50	
TDS	2.95	245	P	54 19.10	-0.4
			eSn	54 58.00	
VTS	3.02	56	iPc	54 21.00	0.4
			iSg	54 58.00	
NEO	3.11	121	ePb	54 22.30	0.5
PAIG	3.14	108	eP	54 22.50	0.3
			eS	55 00.00	
OUR	3.24	100	ePd	54 23.10	-0.6
			eS	55 02.10	
HVAR	3.33	313	ePn	54 24.00	-0.9
			iSn	55 04.40	
MGR	3.34	257	P	54 25.90	0.9
			eSn	55 08.10	
SGO	3.44	265	P	54 27.70	1.3
PGB	3.63	63	eP	54 30.00	0.8
RZN	3.77	77	iP	54 32.00	0.6
BSS	3.79	269	P	54 31.40	0.0
BEO	3.88	7	ePn	54 34.50	1.9
DUI	4.08	281	P	54 36.20	0.5
			eSn	55 26.00	
ITM	4.13	156	ePn	54 36.50	0.2
KDZ	4.29	79	iP	54 38.00	-0.5
			eS	55 24.00	
RDO	4.34	86	ePn	54 38.70	-0.5
ATN	4.37	231	P	54 39.00	-0.7
DIM	4.44	74	eP	54 50.00	9.4X
SDI	4.56	281	P	54 43.60	1.1
			eSn	55 38.00	
PVL	4.69	60	eP	54 36.00	-8.2X
ALN	4.73	89	ePd	54 44.50	-0.3
			iS	55 37.60	
BZS	4.83	15	ePc	54 45.50	-0.6
			e	03 01.50	
AZI	4.89	284	P	54 48.00	1.0
VLI	4.90	149	ePn	54 47.30	0.1
AQU	4.99	288	P	54 48.40	-0.1
RDP	5.39	281	P	54 55.00	0.8
MNS	5.52	287	P	54 56.50	0.6
VBY	5.62	325	ePn	54 58.00	0.7
			eSn	56 01.30	
PTJ	5.67	332	eP	54 57.10	-0.9
ARV	5.68	299	P	54 57.30	-1.0
ASS	5.72	294	P	54 58.00	-0.8
CEY	6.17	322	ePn	55 04.40	-0.7
			eSn	56 15.00	
RSM	6.19	301	P	55 03.70	-1.6
LJU	6.35	325	e(Pn)	55 06.50	-1.2
			eSn	56 13.00	
CRE	6.40	297	P	55 07.50	-0.9
TRI	6.46	319	P	55 07.50	-1.7
SFI	6.58	299	P	55 10.50	-0.3
VOY	6.63	322	iPnc	55 10.30	-1.4
			eSn	56 25.20	
PGD	6.64	299	P	55 11.00	-1.0
PII	7.40	295	P	55 21.50	-0.9
FVI	7.57	320	P	55 23.00	-1.7
KBA	7.67	325	ePn	55 25.00	-1.3
			e	56 40.00	
			i	56 55.30	
CTI	7.80	313	P	55 25.60	-2.4
			eSn	56 52.00	
BOB	8.50	300	P	55 36.10	-1.7
			eSn	57 09.00	
KHC	9.27	334	eP	55 51.50	3.2X
NB2	20.77	348	P	58 10.60	-4.2X
	0.7s		1.00nm		3.3mb
EKA	20.86	321	Pc	58 14.70	-1.0
	0.8s		2.90nm		3.7mb
SUF	22.11	8	eP	58 29.00	0.8
YKA	70.58	339	eP	04 46.40	-1.6
	0.5s		0.60nm		4.0mb

S.D. = 1.3 on 78 of 82 obs.

MAY 07, 1990 03h 01m 47.02± 0.42s
40.959 N ± 3.9km 19.843 E ± 5.0km
DEPTH = 12.1 ± 3.6 km
ALBANIA (391)
ML 3.2 (SKO), 3.1 (TTG).

BERA	0.27	163	iPgc	01 52.70	-0.1
TIR	0.39	3	ePg	01 55.20	0.1
VLO	0.56	208	iPg	02 00.00	1.8
TPE	0.68	169	iPgd	01 59.00	-1.2
LACI	0.68	352	iPgc	01 59.50	-0.8
OHR	0.74	78	iPgd	01 59.80	-1.6
			iSg	02 10.80	
KBN	0.81	114	ePg	02 01.00	-1.5
SRN	1.08	174	ePn	02 08.90	1.7
SDA	1.09	346	iPnd	02 09.10	1.9
ULC	1.10	336	ePg	02 08.30	0.9
			eSg	02 24.00	
KEK	1.25	182	ePb	02 11.80	1.8
BCI	1.42	7	iPn	02 14.50	2.0
BDV	1.53	330	ePg	02 15.00	0.9
			eSg	02 37.00	
TTG	1.53	344	ePg	02 15.50	1.4
			eSg	02 38.00	
LCI	1.57	247	P	02 13.90	-0.7
			eSn	02 36.50	
PVY	1.64	3	ePn	02 16.50	0.7
			eSn	02 42.00	
HCY	1.80	326	ePn	02 18.00	0.0
			eSn	02 45.00	
IVA	1.91	1	ePn	02 22.40	2.7
			eSn	02 50.00	
BRT	2.00	269	P	02 22.50	1.5
BRY	2.17	334	ePn	02 26.00	2.5
			eSn	02 56.00	
LIT	2.19	112	eP	02 25.30	1.5
BAI	2.26	275	P	02 25.00	0.3
KNT	2.32	84	eP	02 25.80	0.2
PLE	2.39	352	ePn	02 28.05	1.4
			eSn	03 01.00	
ORI	2.74	252	P	02 32.00	0.4
			eSn	03 07.00	
SRS	2.84	86	eP	02 33.00	0.0
TDS	2.98	245	P	02 34.00	-0.9
NEO	3.07	121	ePn	02 40.00	3.8X
HVAR	3.36	312	iPn	02 38.80	-1.6
			iSn	03 19.20	
MGR	3.37	257	P	02 41.00	0.5
			eSn	03 21.00	
SGO	3.47	265	P	02 41.80	0.0
			eSn	03 21.00	
BSS	3.82	269	P	02 48.00	1.1
DUI	4.12	282	P	02 52.00	0.9
SDI	4.60	281	P	02 58.50	0.5
VLI	4.87	149	ePn	03 06.00	4.2X
MNS	5.55	287	P	03 11.00	-0.5
			eSn	04 14.00	
ARV	5.72	299	P	03 12.00	-1.8
ASS	5.75	294	P	03 13.50	-0.8
TRI	6.49	319	P	03 22.00	-2.7
VOY	6.66	322	ePn	03 25.10	-2.1
			eSn	04 40.60	
PGD	6.68	299	P	03 27.00	-0.5
FVI	7.60	320	P	03 36.50	-3.7X
CTI	7.83	313	P	03 40.00	-3.5X
BOB	8.53	300	P	03 51.00	-2.3

S.D. = 1.4 on 40 of 44 obs.

MAY 07, 1990 03h 11m 00.29± 0.53s
38.376 N ± 5.6km 21.757 E ± 4.2km
DEPTH = 38.3 ± 10.5 km
3.8mb (7 obs.)
GREECE (364)
ML 3.5 (ATH).

ITM	1.20	174	ePb	11 20.50	-0.4
NEO	1.47	50	ePb	11 24.70	-0.1
ATH	1.60	104	ePb	11 26.00	-0.5
			eSn	11 49.30	
LIT	1.81	18	ePc	11 30.50	0.8
VLI	1.90	150	ePb	11 30.50	-0.4
KEK	2.03	312	ePb	11 35.00	2.3
OHR	2.83	345	iPn	11 47.50	3.3X
			eSg	12 30.80	
KNT	2.92	17	ePc	11 46.50	1.1
VAY	3.01	12	ePn	11 47.50	0.9
SRS	3.08	27	eP	11 48.40	0.7
APE	3.26	112	ePb	11 45.00	-5.3X
LCI	3.54	305	P	11 54.00	-0.2
MMB	3.55	25	eP	11 55.00	0.6
			eSg	12 38.00	
VAM	3.55	146	ePn	11 54.80	0.4
SKO	3.60	356	iPn	11 57.80	2.7X
KKB	3.63	16	iP	11 56.00	0.5
			Sg	12 26.00	
EZN	3.84	66	iP	11 56.90	-1.5
RZN	4.01	34	iPd	12 01.00	-0.1
RDO	4.02	45	ePn	12 00.00	-1.0
BRT	4.31	307	P	12 05.00	-0.2
			eSn	12 40.00	
VTS	4.35	14	iPd	12 07.00	1.2
			iSg	12 59.00	
TDS	4.41	289	P	12 08.50	2.0
ORI	4.45	294	P	12 08.50	1.3
			eSn	12 46.00	
PGB	4.56	23	eP	12 12.00	3.3X
BAI	4.66	308	P	12 10.50	0.4
ATN	4.96	269	P	12 16.50	2.2
MGR	5.13	292	P	12 17.00	0.3
			eSn	13 00.00	
SGO	5.45	296	P	12 22.50	1.4
			eSn	13 09.80	
PVL	5.54	28	eP	12 27.00	4.5X
MNO	5.58	268	P	12 27.50	4.2X
BSS	5.89	296	P	12 25.00	-2.4
GIB	6.10	269	P	12 34.00	3.5X
HVAR	6.26	322	e(Pn)	12 31.20	-1.5
DUI	6.49	303	P	12 35.00	-1.0
SDI	6.94	301	P	12 43.50	1.3
AZI	7.32	302	P	12 46.80	-0.7
ASS	8.35	307	P	12 58.50	-3.3X
ARV	8.41	310	P	13 02.00	-0.6
CRE	9.08	308	P	13 09.50	-2.5
PGD	9.35	309	P	13 13.80	-2.0

07d 03h

VOY	9.62	325	ePn	13	17.90	-1.4
			e(Sn)	14	57.50	
FVI	10.55	324	P	13	31.00	-0.9
CTI	10.71	319	P	13	32.00	-2.4
BOB	11.21	309	P	13	40.50	-0.6
SMF	15.56	308	eP	14	44.00	5.6X
	0.7s	2.75nm			3.6mb	
LBF	15.63	309	eP	14	45.10	5.8X
AVF	15.92	308	eP	14	48.60	5.5X
SSF	15.95	309	eP	14	49.00	5.6X
	1.0s	6.00nm			3.7mb	
BGF	16.15	306	eP	14	51.50	5.6X
	1.0s	7.00nm			3.7mb	
NUR	22.23	4	eP	15	54.00	-0.8
HFS	22.37	349	eP	15	55.80	-0.4
	0.6s	3.00nm			3.9mb	
NB2	23.63	347	P	16	09.20	0.7
	0.7s	3.10nm			3.9mb	
EKA	23.84	323	Pc	16	12.20	1.7
	0.9s	5.00nm			4.0mb	
SUF	24.52	5	eP	16	18.00	0.9
YKA	73.53	340	eP	22	31.50	0.9
	1.0s	0.40nm			3.3mb	

S.D. = 1.3 on 42 of 55 obs.

? MAY 07, 1990 04h 18m 44.65± 0.77s
15.577 N ±20.9km 147.518 E ±23.4km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)
MARIANA ISLANDS REGION (215)

GUMO	3.24	233	eP	19	34.50	0.1
PJG	3.24	233	eP	19	34.50	0.1
			eS	20	14.00	
WRA	37.60	201	Pc	25	57.60	-0.6
	0.9s	3.10nm			4.2mb	
MBC	75.73	14	eP	30	29.00	0.7
	1.0s	5.00nm			4.5mb	
			pP	30	41.00	40kmX
YKA	79.92	28	eP	30	50.70	-0.8
	0.8s	1.20nm			3.9mb	
NB2	96.09	340	P	32	09.60	-0.5
	0.7s	1.00nm			4.4mb	
ZOBO	145.74	96	PKP	38	24.00	0.9
SIV	152.49	95	PKP	38	39.40	6.6X

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

% MAY 07, 1990 04h 29m 16.26± 0.80s
40.621 N ± 7.9km 15.771 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.36	260	P	29	24.10	0.5
			eSg	29	30.70	
MGR	0.51	199	P	29	26.30	-0.3
			eSg	29	35.00	
ORI	0.76	137	P	29	31.20	0.1
			eSg	29	42.00	
BRT	1.12	76	P	29	37.40	0.2
			eSg	29	52.90	
DUI	1.44	317	P	29	42.00	-0.4
			eSg	30	02.00	

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

MAY 07, 1990 05h 17m 37.66± 0.14s
36.032 N ± 3.1km 100.341 E ± 2.7km
DEPTH = 33.0km (normal)
5.3mb (60 obs.) 5.0Msz (3 obs.)
QINGHAI PROVINCE, CHINA (325)
Felt in Ganghe, Guinan, Xinghai, Tongde ond Guide Counties. Also felt ot Xining City.
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 17C
Centroid Locotion:
Origin Time 05:17:44.1 1.0
Lot 35.30N 0.11 Lon 100.74E 0.15
Dep 15.0 BDY Half-duration 1.7
Moment Tensor; Scale 10**16 Nm
Mrr= 7.77 0.65 Mtt=-3.48 0.57
Mff=-4.29 0.82 Mrt=-4.47 1.90
Mrf= 0.46 1.72 Mtf= 5.09 0.64
Principal Axes:

	Val=	Plg=68	Azm=164
T	9.46	18	310
N	0.21	11	44
P	-9.67		

Best Double Couple:Mo=9.6*10**16
NP1:Strike=156 Dip=37 Slip= 122
NP2: 299 59 68

LZH	2.84	88	Pnc	18	22.50	0.7
N	12s	120.00um				
			Pg	18	27.00	
			Sg	19	03.50	
GTA	3.40	353	iPnc	18	31.00	1.2
E	10s	74.00um				
			Pg	18	38.60	
			Sg	19	25.50	
CD2	5.85	150	Pn	19	06.00	1.6
Z	10s	22.90um				
			Pg	19	25.50	
			Sg	20	42.00	
XAN	7.31	103	iPnc	19	21.50	-3.4X
N	10s	18.80um				
E	10s	10.00um				
			Pg	19	51.00	
			Sg	21	25.00	
BTO	8.87	56	P	19	44.50	-2.1
			S	21	25.00	
TIY	9.83	77	iPc	19	56.60	-3.3X
N	10s	33.30um				
			S	21	53.00	
LSA	9.98	233	P	20	02.20	0.0
			S	21	48.50	
HHC	10.03	58	eP	20	00.00	-2.6
Z	12s	1.50um				
E	10s	8.40um				
GYA	10.97	149	P	20	15.00	-0.4
Z	10s	9.20um				
			S	22	17.00	
			sS	22	35.00	
KMI	11.07	169	Pd	20	16.00	-0.9
	4.0s	500.00nm			6.1mb	X
Z	11s	18.50um			5.3Msz	
N	10s	4.10um				
E	10s	15.60um				
			PP	20	24.00	
			S	22	16.00	
WMQ	12.43	313	P	20	32.50	-2.6
			S	22	51.00	
SHL	12.71	217	iP	20	37.00	-2.0
			eS	23	22.00	
WHN	12.93	111	P	20	44.20	2.5
	0.6s	20.00nm			5.4mb	
N	10s	16.80um				
			pP	20	52.00	
BJI	13.11	67	eP	20	42.00	-2.0
	5.0s	400.00nm			5.7mb	X
Z	12s	7.50um				
N	10s	8.16um				
TIA	13.57	84	P	20	46.60	-3.6X
Z	14s	5.80um				
			S	23	20.00	
GUN	14.69	241	P	21	02.80	-2.4
DMN	15.42	241	P	21	11.80	-2.8
NJ2	15.85	99	Pd	21	17.50	-2.4
Z	12s	5.00um				
N	11s	9.60um				
E	12s	4.60um				
			S	24	20.00	
GZH	17.13	135	eP	21	36.80	0.7
Z	14s	6.20um				
DL2	17.14	74	Pd	21	36.00	-0.1
	1.0s	100.00nm			4.9mb	
Z	14s	6.00um			4.0MszX	
N	14s	6.80um				
			sP	21	42.00	
CHG	17.20	184	eP	21	38.30	1.3
	0.9s	74.16nm			4.8mb	
CHTO	17.20	184	eP	21	38.00	1.0
	0.6s	62.57nm			4.9mb	
SSE	18.05	100	Pd	21	48.00	0.5
	8.0s	770.00nm			4.9mb	X
Z	16s	5.50um			4.9Msz	
			PP	21	56.60	
HKC	18.22	135	eP	21	50.00	0.4
			eS	25	22.00	
LOE	18.59	176	eP	21	54.80	0.5
QIZ	18.90	151	P	21	57.00	-1.0
N	13s	6.90um				
E	13s	14.90um				
			eS	25	24.00	
			sS	25	37.00	

SNY	18.96	65	Pc	21	57.00	-1.5
Z	12s	3.40um				
N	11s	5.80um				
			sP	22	05.50	
QZH	19.19	120	eP	22	00.70	-0.7
	5.0s	1000.00nm			5.3mb	X
Z	11s	5.10um			4.5MszX	
KSH	19.55	287	P	22	05.20	-0.4
	6.0s	2000.00nm			5.6mb	X
Z	15s	8.30um			4.3MszX	
E	10s	12.50um				
NST	20.28	181	eP	22	19.00	5.8X
CN2	20.71	60	Pc	22	16.20	-1.3
	5.0s	800.00nm			5.4mb	X
N	10s	9.00um				
E	10s	2.30um				
			pP	22	22.00	21kmX
			S	22	05.00	
NDI	20.83	256	iPc	22	18.00	-0.9
	0.6s	63.33nm			5.2mb	
			iS	26	15.00	
MDJ	23.79	60	Pc	22	49.50	1.4
	2.0s	200.00nm			5.3mb	
N	13s	8.00um				
			epP	22	58.00	30kmX
			esP	23	01.50	
			ePP	23	25.00	
			iS	27	04.00	
			sS	27	18.00	
SNG	28.72	179	eP	23	37.40	3.4X
POO	29.15	240	iP	23	31.50	-6.5X
			iS	29	29.00	
GBA	30.36	228	P	23	51.00	2.3
	0.9s	20.50nm			4.9mb	
MAT	30.40	78	eP	23	40.00	-9.0X
Z	20s	1.06um			4.5Msz	
			eS	28	56.00	
MAIO	32.80	283	iPc	24	12.00	1.9
	1.2s	24.31nm			5.0mb	
			eS	30	00.00	
KOD	33.02	225	eP	24	10.00	-2.4
TAB	42.65	289	eP	25	35.00	2.2
SLY	43.96	286	iPd	25	44.00	0.7
MSL	45.55	288	ePd	25	57.00	0.9
BHD	45.58	284	ePd	25	57.00	0.7
			e	30	28.00	
GUMO	45.68	108	eP	26	01.00	3.7X
KEV	50.95	335	eP	26	37.00	-0.5
KAS	51.09	297	eP	26	40.00	1.0
SOD	51.10	331	iP	26	38.80	0.1
SUF	51.57	326	eP	26	42.00	-0.3
BBTK	52.29	296	eP	26	52.00	3.8X
NUR	52.55	323	iP	26	49.60	-0.1
	1.0s	52.00nm			5.4mb	
DSI	53.28	285	eP	26	57.00	1.5
PRNI	54.08	284	eP	27	02.00	0.6
PSN	54.32	302	eP	27	04.00	1.0
ALT	54.48	296	eP	27	04.00	-0.4
VRI	54.64	305	ePc	27	05.50	0.2
KHL	55.17	295	eP	27	09.00	-0.4
MLR	55.28	304	ePc	27	23.00	12.9X
ELL	55.46	293	eP	27	10.00	-1.6
JMB	55.83	301	iP	27	15.00	1.1
CMP	55.95	304	ePc	27	16.00	1.1
UPP	56.12	323	iP	27	15.10	-0.7
PVL	56.43	302	eP	27	21.00	2.7
KDZ	56.92	300	iPc	27	23.00	1.1
ARO	57.10	260	iP+	27	24.50	1.0
HLW	57.15	285	eP	27	23.70	0.1
RZN	57.40	301	iPc	27	26.00	0.6
PGB	57.47	302	iP	27	27.00	1.2
KRA	57.66	311	eP	27	27.30	0.4
	1.0s	50.00nm			5.5mb	
			e	27	31.30	
SPC	57.76	310	iP	27	28.60	0.7
HFS	57.94	324	eP	27	27.80	-0.9
	0.9s	34.70nm			5.4mb	
Z	17s	0.74um			4.9MszX	
			LR	51	21.00	
BZS	58.10	306	eP	27	30.00	0.0
VTS	58.12	302	iPd	27	31.00	0.6
MMB	58.13	301	iP	27	31.00	0.7
KKB	58.47	301	iPc	27	33.00	0.3
NB2	58.83	325	P	27	33.40	-1.6
	1.0s	35.00nm			5.4mb	
VAY	59.03	301	eP	27	35.70	-0.9
SRO	59.44	309	iP	27	39.70	0.4

SKO	59.57	302	iP	27	40.00	-0.3				e	28	33.00			0.9s	29.50nm		5.4mb					
	1.2s	57.00nm				5.6mb	MEM	65.65	316	P	28	20.50	0.0	CTA	70.73	134	ePc	28	51.50	-1.0
			i	27	43.90		MDI	65.66	310	P	28	19.50	-1.2	CAF	70.77	312	iPc	28	53.20	0.5
KSP	59.59	313	ePc	27	40.20	-0.1	ZLA	65.69	312	ePc	28	20.80	-0.2		1.2s	44.65nm			5.4mb				
	1.3s	51.00nm				5.5mb	FEL	65.74	312	eP	28	20.84	-0.5	LPF	70.93	316	eP	28	53.40	-0.1
NANU	60.02	164	eP	27	44.00	0.5	WLS	65.88	313	P	28	21.53	-0.6	MFF	71.19	314	iPc	28	54.90	-0.2
COP	60.04	319	iPd	27	44.00	0.7	BDI	65.89	308	P	28	22.50	0.2		1.1s	61.05nm			5.6mb				
	0.9s	131.09nm				6.1mb	CDF	65.93	313	P	28	22.07	-0.5	LPO	71.43	312	eP	28	56.90	0.3
ZST	60.06	310	iP	27	44.10	0.5	TMA	66.03	310	ePc	28	22.70	-0.6		1.1s	34.20nm			5.3mb				
BRW	60.27	21	P	27	44.20	-0.5	ECH	66.09	313	P	28	22.93	-0.5	LFF	71.56	312	eP	28	57.80	0.5
OHR	60.34	301	eP	27	44.00	-1.7	PII	66.10	308	P	28	18.00	-5.5X		0.9s	27.85nm			5.3mb				
VKA	60.52	310	iPc	27	47.60	0.9	VAI	66.21	310	P	28	23.50	-0.7	EPF	72.84	311	eP	29	04.60	-0.4
	2.5s	187.00nm				5.8mb	BBS	66.23	312	P	28	24.15	-0.3		1.2s	22.30nm			5.0mb				
Z	19s	1.80um				5.2Msz	MOF	66.28	313	P	28	24.11	-0.6	ESEL	73.01	307	eP	29	07.50	1.5
		LR		55	13.00		BOB	66.29	309	P	28	25.00	0.1	GDH	73.27	351	ePd	29	06.00	-1.0
BRG	60.96	314	iPc	27	50.20	0.5	FBA	66.36	26	ePc	28	24.70	-0.2		1.0s	20.00nm			5.1mb				
	1.8s	85.00nm				5.6mb	GIB	66.41	301	P	28	20.00	-5.8X	EBR	73.97	309	eP	29	12.00	0.5
		i		28	00.60		BSF	66.49	313	P	28	25.36	-0.8	ECRI	74.82	312	eP	29	18.20	1.7
		e		28	33.80		MMK	66.62	311	ePc	28	27.20	0.0	ETOR	75.56	310	eP	29	21.60	0.7
CLL	61.34	314	iPc	27	52.20	-0.1	HAU	66.67	313	eP	28	26.70	-0.5	GUD	76.96	311	eP	29	31.00	2.2
	1.7s	69.00nm				5.5mb		1.1s	19.55nm				5.1mb	RMQ	77.15	137	iPd	29	31.20	1.5
DAG	61.38	347	iPc	27	49.80	-2.4	WARB	66.68	154	eP	28	27.50	0.2	EMON	77.17	315	eP	29	30.80	1.1
	1.3s	25.00nm				5.2mb		0.5s	5.00nm				4.9mb	TOL	77.35	310	iPd	29	32.00	1.2
KHC	61.86	312	iPc	27	56.00	0.1	DOU	66.69	316	P+	28	27.60	0.4		1.3s	230.77nm			6.0mb				
	1.4s	29.00nm				5.2mb				S	38	37.00				eS		39	25.00				
Z	15s	2.40um				5.5MszX	LOMF	66.69	312	P	28	26.87	-0.6	YKA	77.87	16	eP	29	32.50	-0.6
N	16s	1.10um					VITF	66.78	313	P	28	27.16	-0.7		0.8s	9.00nm			4.9mb				
E	16s	1.50um					ORX	66.80	310	P	28	27.81	-0.4	EPLA	78.48	311	e(P)	29	39.00	2.0
		e		28	06.00		DIX	66.94	311	ePc	28	29.50	0.2	ASMO	78.66	308	iPc	29	39.00	0.9
VBY	62.28	308	iPd	27	59.90	1.3	PCP	66.97	309	P	28	27.61	-1.6	APHE	78.86	308	iPc	29	40.00	0.7
HOF	62.39	314	eP	28	00.70	1.3	CKI	67.19	309	P	28	30.50	0.0	AAPN	78.93	308	iPc	29	41.00	1.4
MOX	62.41	314	iP	28	00.00	0.5	EMS	67.24	311	ePc	28	31.00	-0.1	ALOJ	79.04	308	iPc	29	40.50	0.3
LJU	62.52	308	eP	28	00.00	-0.2	FIN	67.34	309	P	28	29.56	-2.0	ATEJ	79.10	308	iPc	29	39.50	-1.1
LCI	62.63	301	P	28	00.20	-0.8	LSD	67.40	310	P	28	32.43	0.3	PTO	79.34	313	eP	29	43.50	2.0
CEY	62.71	308	eP	28	01.00	-0.5	RSP	67.48	310	P	28	30.58	-1.9	FRB	80.17	355	eP	29	44.50	-1.0
BHG	62.86	311	eP	28	03.60	1.2	ROB	67.51	309	P	28	31.40	-1.2	BWA	83.22	142	eP	30	03.90	2.0
	1.5s	100.00nm				5.7mb	LPG	67.63	311	iPc	28	33.70	0.1	CAN	84.22	142	eP	30	10.80	3.8X
BRT	62.92	302	P	28	02.50	-0.4		0.9s	38.50nm				5.5mb	DZM	85.08	122	iPd	30	17.60	6.0X
VOY	62.93	309	eP	28	00.80	-2.2	LPL	67.63	311	iPc	28	33.70	0.1	EDM	86.42	20	iPc	30	18.70	0.8
GRF	63.04	313	ePc	28	04.10	0.5		1.2s	72.90nm				5.7mb	FFC	87.59	13	iPc	30	23.20	-0.2
	1.1s	76.00nm				5.7mb	PGF	67.63	307	eP	28	33.60	0.1		0.6s	12.00nm			5.3mb				
Z	20s	1.40um				5.1Msz		0.8s	33.60nm				5.5mb	BUL	87.80	243	eP	30	22.30	-2.8
TRI	63.14	308	P	28	03.80	-0.5	PMR	67.77	29	ePc	28	33.20	-0.6	PNT	87.92	25	ePc	30	26.00	0.8
FVI	63.39	310	P	28	05.00	-0.9		0.8s	22.30nm				5.3mb	GMW	88.28	28	P	30	29.00	2.1
FUR	63.65	312	eP	28	08.30	0.6	DOI	67.80	309	P	28	32.80	-1.7	RMW	88.72	27	P	30	30.70	1.6
IMA	63.66	26	ePc	28	07.10	-0.6	ENR	67.83	309	P	28	32.94	-1.7	SCH	88.84	353	eP	30	29.00	-0.5
	1.3s	35.40nm				5.3mb	STV	67.88	309	P	28	32.74	-2.2	BMW	89.00	28	P	30	31.50	1.0
ORI	63.79	302	P	28	09.50	0.8	RRL	67.89	310	P	28	34.68	-0.5	SES	89.59	19	ePc	30	33.60	0.4
TDS	64.05	301	P	28	10.50	0.1	BNI	67.89	310	P	28	35.50	0.4	SHW	89.62	28	P	30	35.80	2.3
WB5	64.26	144	eP	28	10.10	-1.8	AUTN	67.94	309	P	28	34.96	-0.5	NEW	89.67	24	P	30	34.70	1.1
WIT	64.28	318	eP	28	13.00	1.3	SBF	68.00	309	iPc	28	35.40	-0.3		1.1s	60.19nm			5.8mb				
WRA	64.30	144	Pc	28	11.00	-1.2		1.1s	65.95nm				5.6mb	VGB	90.74	28	P	30	40.00	1.5
	0.7s	9.50nm				5.0mb	EKA	68.13	323	Pc	28	35.70	-0.5	LRM	93.32	22	eP	30	51.20	0.5
TTA	64.33	30	ePc	28	11.70	-0.3		1.1s	26.00nm				5.2mb	IMW	95.52	22	P	31	01.90	1.0
CTI	64.33	309	P	28	11.50	-0.8	LOR	68.50	313	eP	28	37.60	-1.1	RSSD	97.21	17	P	31	09.00	0.5
SGO	64.35	303	P	28	12.50	0.2		1.2s	17.85nm				5.0mb	KVN	97.29	29	P	31	10.00	1.1
MGR	64.37	302	P	28	11.70	-0.8	LBF	68.57	313	eP	28	38.40	-0.8	TNP	98.47	29	P	31	14.90	0.7
DUI	64.44	304	P	28	13.50	0.5		1.2s	17.85nm				5.0mb		1.0s	5.00nm			5.0mb				
TOD	64.49	314	eP	28	13.05	-0.1	TOA	68.60	28	ePc	28	39.70	0.6	ALQ	105.10	23	ePdiff	31	45.00	1.2
WTS	64.57	317	ePc	28	14.00	0.4	FRF	68.64	309	eP	28	39.20	-0.4	ALQ	105.10	23	ePKP	35	56.00	-2.3X
	0.9s	18.00nm				5.2mb		1.2s	29.75nm				5.2mb	BAO	145.24	297	ePKP	37	13.00	-1.1
BSS	64.59	303	P	28	13.50	-0.4	SSF	68.81	313	eP	28	39.80	-0.8	SIV	154.06	316	PKP	37	28.20	0.7
ARV	64.63	306	P	28	14.50	0.3		1.2s	20.85nm				5.1mb				i	37	50.00				
SDI	64.85	304	P	28	15.50	-0.2	SMF	68.82	313	iPc	28	40.20	-0.5	ZOBO	157.80	329	PKP	37	33.00	0.0
AZI	64.98	305	P	28	16.50	0.1		1.2s	61.00nm				5.5mb	LPB	158.02	329	ePKP	37	36.00	2.9X
OSS	64.99	311	ePc	28	16.30	-0.3	LMR	68.84	309	eP	28	40.50	-0.3		S.D. = 1.1		on 238 of 254 obs.						
ASS	65.00	306	P	28	17.50	0.9		1.1s	34.20nm				5.3mb										
ABH	65.10	315	eP	28	17.11	0.0	LRG	68.88	309	eP	28	41.00	0.0										
SFI	65.15	307	P	28	18.50	1.1		1.2s	44.65nm				5.4mb										
MBC	65.21	10	ePc	28	17.00	-0.4	AVF	69.04	313	eP	28	41.50	-0.5										
	1.0s	12.00nm				4.9mb		1.2s	47.60nm				5.4mb										
CRE	65.22	307	P	28	18.50	0.5	KLB	69.23	164	eP	28	43.00	-0.1										
SAX	65.22	311	ePc	28	17.70	-0.5	MUN	69.27	166	eP	28	43.20	-0.2										
SAL	65.23	309	P	28	18.50	0.6	COOL	69.37	161	eP	28	44.00	-0.1										
PGD	65.25	307	P	28	19.50	1.1	BGF	69.46	313	iPc	28	44.10	-0.5										
MNS	65.30	305	P	28	18.00	-0.5		1.1s	22.00nm				5.1mb										
ATN	65.33	300	P	28	18.00	-0.7	MAF	69.80	313	iPc	28	46.80	0.2										
SVW	65.39	31	eP	28	19.10	0.3		1.2s	65.45nm				5.6mb										
DBN	65.42	318	eP	28	20.00	1.0	TCF	69.97	313	iPc	28	47.50	-0.2										
RUP	65.46	315	eP	28	19.42	0.0		1.2s	52.05nm				5.5mb										
GWF	65.47	314	P	28	19.21	-0.3	LDF	70.11	316	eP	28	48.10	-0.4										
VDL	65.49	311	ePc	28	20.10	0.2		0.9s	14.75nm				5.1mb										
SLE	65.50	312	ePc	28	19.50	-0.2	FLN	70.22	316	eP	28	48.70	-0.4										
RDP	65.56	305	P	28	21.00	0.8		0.9s	19.65nm				5.2mb										
LLS	65.61	311	ePc	28	20.00	-0.6	LSF	70.40	313	eP	28	49.70	-0.6										
ENN	65.62	316	eP	28	20.50	0.1	NWAO	70.40	165	eP	28	50.30	0.0										
	1.1s	29.00nm				5.3mb	GRR	70.63	316	eP	28	51.20	-0.5										

---

* MAY 07, 1990 06h 44m 57.92± 0.91s
13.366 N ±16.2km 89.667 W ±10.6km
DEPTH = 33.0km (normal)
4.6mb (9 obs.)
EL SALVADOR (73)

TPX	2.95	302	iP	45	53.00	9.5X																	
			iS	46	18.00																		
SCX	4.41	320	(P)	46	06.50	2.2																	
			(S)	46	57.00																		
OXX	7.75	299	eP	46	51.00	-0.5																	
			(S)	48	12.00																		
IIT	10.02	305	eP	47	23.00	0.0																	
PPM	10.30	305	eP	47	25.00	-2.1																	
UYO	21.16	349	e(P)	49	41.50	-1.1																	
MEO	22.80	341	iPc	49	59.20	0.2																	
TUL	23.12	347	e(P)	50	05.20	3.2X																	
	0.8s	10.20nm				4.4mb																	
ALQ	26.31	328	eP	50	33.00	0.3																	
TNP	34.71	320	eP	51	47.70	0.5																	

07d 06h

	0.8s	2.50nm		4.2mb		
FRI	35.69	317	e(P)	51 53.50	-1.7	
KVN	35.85	321	iP	51 57.70	0.8	
CMB	36.71	318	eP	52 05.10	1.2	
MHC	37.18	316	e(P)	52 09.00	1.0	
ORV	38.28	319	e(P)	52 17.90	0.8	
MIN	38.80	320	e(P)	52 21.30	-0.2	
WDC	39.52	319	e(P)	52 27.50	0.2	
SIV	40.62	135	P	52 36.80	0.1	
FFC	42.38	349	eP	52 51.00	0.4	
	0.5s	12.00nm		4.9mb		
PNT	43.49	332	eP	53 00.00	0.2	
	0.7s	8.00nm		4.6mb		
SCH	45.07	19	ePd	53 13.10	0.6	
	0.5s	26.00nm		5.4mb		
YKA	52.18	346	eP	54 05.70	-1.7	
	0.6s	5.50nm		4.7mb		
FRB	52.45	12	eP	54 08.00	-1.3	
MBC	64.83	352	ePc	55 34.50	-0.9	
	0.7s	4.00nm		4.6mb		
NB2	83.61	29	P	57 25.20	1.0	
	0.9s	2.30nm		4.3mb		
HFS	85.05	29	ePKP	57 31.20	-0.1	
	0.8s	3.40nm		4.6mb		
NUR	89.93	27	eP	57 51.00	-3.9X	
	S.D. = 1.1	on	24 of	27 obs.		

& MAY 07, 1990 07h 13m 11.37s
60.055 N 141.176 W
DEPTH = 0.0km
SOUTHEASTERN ALASKA (19)
<AGS-P>. ML 3.7 (PMR).

PCA	0.46	84	iP	13 21.07	0.5	
			iS	13 30.32		
YKU	0.89	124	eP	13 28.50	-0.6	
TGL	1.08	311	iP	13 31.19	-1.5	
			eS	13 48.45		
BALM	1.14	330	iP	13 31.98	-1.8	
			eS	13 49.32		
GLB	1.90	318	iP	13 44.70	-0.7	
HYT	1.98	65	P	13 45.70	-0.9	
KLU	2.74	304	iP	13 55.61	-1.9	
VLZ	2.76	295	eP	13 55.15	-2.6	
VZW	2.84	293	eP	13 56.01	-2.9	
GLI	3.05	288	eP	13 59.83	-1.9	
TOA	3.18	312	eP	14 02.50	-1.2	
NCA	3.37	308	eP	14 03.89	-2.5	
PAX	3.58	327	eP	14 06.99	-2.3	
DWY	4.10	11	P	14 15.40	-1.2	
SIT	4.29	132	eP	14 16.50	-2.9	
FBA	5.75	331	eP	14 39.00	-1.0	
SVW	7.19	285	eP	14 56.40	-4.0	
IMA	8.27	322	eP	15 12.70	-2.9	
	18 obs. associated					

MAY 07, 1990 08h 13m 09.79± 0.50s
9.423 S ± 7.5km 155.652 E ± 8.2km
DEPTH = 10.0km (geophysicist)
4.8mb (5 obs.)
DENTRECASTEAUX ISLANDS REGION (194)

HNR	4.24	90	eP	14 14.00	-1.9	
DZM	16.30	142	iPc	17 02.40	1.9	
RMQ	18.19	200	eP	17 23.00	-1.2	
			e	17 26.00		
QIS	19.03	233	iPc	17 34.70	0.2	
QLP	20.20	211	iPc	17 47.00	-0.7	
COO	21.34	189	iPd	17 58.90	-0.5	
WB5	23.04	241	eP	18 16.10	-0.3	
WRA	23.09	241	Pc	18 15.60	-1.2	
	1.1s	18.40nm		4.5mb		
BWA	25.75	194	eP	18 44.20	1.8	
CAN	26.49	192	eP	18 25.30	-23.8X	
CN2	59.65	335	eP	23 16.50	0.0	
CHG	62.56	297	eP	23 37.00	0.3	
			e	28 22.10		
CHTO	62.56	297	eP	23 35.90	-0.7	
	1.0s	6.75nm		4.8mb		
CD2	63.88	311	eP	23 45.20	-0.1	
LZH	66.50	316	Pc	24 03.00	0.8	
			pP	24 10.00	22kmX	
SHL	71.09	301	iP	24 30.60	-0.3	
GUN	76.93	302	P	25 04.80	-0.2	
	0.8s	15.00nm		5.1mb		
DMN	77.49	301	P	25 08.20	0.2	
	1.0s	34.00nm		5.4mb		
SPA	80.64	180	iPc	25 24.50	0.3	
	0.9s	6.36nm		4.6mb		
WMQ	81.04	317	P	25 28.00	1.4	
	S.D. = 1.0	on	19 of	20 obs.		

MAY 07, 1990 09h 06m 27.53± 0.34s
44.749 N ± 4.4km 9.974 E ± 3.5km
DEPTH = 23.3 ± 4.5 km
NORTHERN ITALY (545)
ML 3.0 (LDG).

BOB	0.38	273	Pd	06 35.50	-0.2	
			eSg	06 42.00		
MME	0.76	137	P	06 41.60	-0.6	
			eSg	06 53.30		
BDI	0.82	147	P	06 42.10	-1.0	
			eSg	06 54.50		
SAL	0.94	24	P	06 45.80	0.7	
			eSg	06 59.60		
PCP	1.04	259	P	06 46.55	-0.2	
			S	07 02.99		
MDI	1.04	350	Pc	06 47.80	1.1	
			eSg	07 03.90		
PII	1.10	159	P	06 47.00	-0.5	
			eSg	07 03.30		
CKI	1.25	256	P	06 50.00	0.3	
			eSg	07 07.80		
FIN	1.37	247	P	06 51.07	-0.3	
			S	07 09.32		
VAI	1.40	323	P	06 53.50	1.8	
			eSn	07 11.70		
PGD	1.53	124	P	06 55.30	1.5	
			eSn	07 14.20		
ROB	1.57	254	P	06 54.14	-0.2	
			S	07 13.48		
SFI	1.58	121	P	06 55.40	1.1	
			eSg	07 15.70		
ORX	1.66	303	P	06 58.04	2.4	
			S	07 17.98		
CTI	1.76	42	P	06 56.40	-0.6	
			eSn	07 20.10		
CRE	1.81	128	P	06 58.90	1.1	
			eSn	07 21.20		
ENR	1.90	255	P	06 59.17	0.1	
			S	07 21.15		
STV	1.96	256	P	06 59.88	-0.1	
			S	07 22.81		
DOI	1.96	264	P	07 00.70	0.7	
			eSn	07 26.20		
RSP	1.97	283	P	06 58.76	-1.4	
			S	07 19.98		
SBF	2.03	245	Pn	07 02.00	1.1	
			Sn	07 28.80		
LSD	2.12	291	P	07 01.83	-0.6	
			S	07 26.31		
RRL	2.28	275	P	07 05.32	0.7	
			S	07 32.47		
PGF	2.31	198	Pn	07 03.50	-1.5	
			Sn	07 30.40		
BNI	2.36	279	P	07 08.00	2.2	
			eSn	07 36.00		
LPL	2.42	290	Pn	07 06.40	-0.2	
			Sn	07 36.00		
ARV	2.48	119	P	07 08.50	1.2	
			eSn	07 38.50		
ASS	2.57	130	P	07 08.50	-0.1	
FRF	2.67	245	Pn	07 10.00	0.0	
			Sn	07 40.80		
FVI	2.70	46	P	07 10.00	-0.3	
TRI	2.84	69	P	07 10.00	-2.4	
			(Sn)	07 43.00		
LMR	2.87	242	Pn	07 12.20	-0.6	
			Sn	07 44.00		
BSF	3.79	326	Pn	07 25.50	-0.5	
			Sn	08 08.50		
VBY	3.81	77	e(Pn)	07 13.50	-12.7X	
			eSn	07 49.30		
CDF	4.11	334	Pn	07 29.40	-1.1	
			Sn	08 15.00		
HAU	4.11	324	Pn	07 29.80	-0.7	
			Sn	08 15.80		
LOR	4.95	303	Pn	07 40.40	-1.9	
			Sn	08 37.00		
BGF	5.31	292	Pn	07 46.20	-1.3	
	S.D. = 1.2	on	37 of	38 obs.		

& MAY 07, 1990 09h 35m 50.30s
37.628 N 118.952 W
DEPTH = 7.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.7 (BRK).

FRI	0.88	224	iPc	36 06.30	-1.1	
			eS	36 17.80		
CMB	1.21	290	ePc	36 11.90	-1.2	
			eS	36 28.20		
TNP	1.45	71	iPc	36 16.90	-0.2	
KVN	1.57	25	ePc	36 18.50	-0.3	
PKEM	1.82	211	eP	36 22.90	0.7	
LLA	1.88	238	iPd	36 24.10	0.9	
PRI	2.02	223	ePd	36 26.20	0.9	
ARN	2.07	263	eP	36 26.20	0.2	
PHAM	2.13	213	eP	36 26.00	-0.8	
MHC	2.16	263	eP	36 28.40	1.1	
SAO	2.17	247	ePd	36 27.90	0.6	
PRS	2.33	237	iPd	36 30.40	0.8	
BCH	2.60	201	eP	36 33.60	0.0	
BKS	2.61	276	eP	36 40.20	6.5	
ORV	2.77	315	e(P)	36 36.50	0.5	
	15 obs. associated					

& MAY 07, 1990 09h 41m 04.10s
37.628 N 118.943 W
DEPTH = 6.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.2 (BRK), 3.1 (PAS).

FRI	0.88	224	iPc	41 20.20	-1.2	
			iS	41 31.70		
CMB	1.21	290	iPc	41 25.90	-1.2	
			iS	41 42.10		
TNP	1.44	71	iPc	41 30.50	-0.4	
KVN	1.57	25	ePc	41 32.30	-0.4	
PKEM	1.82	211	eP	41 36.70	0.5	
LLA	1.89	238	ePc	41 37.40	0.2	
ISA	2.00	169	iPc	41 40.10	1.3	
PRI	2.03	223	eP	41 40.20	0.9	
ARN	2.08	263	eP	41 40.00	0.0	
PHAM	2.14	214	eP	41 40.70	-0.1	
MHC	2.17	263	eP	41 42.10	0.8	
SAO	2.18	247	ePd	41 41.80	0.4	
PRS	2.33	237	eP	41 43.60	-0.1	
GCC	2.51	257	eP	41 45.90	-0.1	
BCH	2.61	201	eP	41 47.30	-0.3	
BKS	2.62	276	iPd	41 48.20	0.5	
			eS	42 20.10		
BRK	2.64	276	eP	41 47.90	-0.1	
PCC	2.74	268	e(P)	41 49.50	0.2	
ORV	2.78	315	eP	41 51.60	1.6	
ABL	2.78	185	eP	41 50.50	0.3	
SYP	3.21	195	eP	41 56.60	0.5	
	21 obs. associated					

MAY 07, 1990 10h 21m 38.26± 0.34s
41.281 N ± 4.9km 20.237 E ± 3.2km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 4.1 (SKO), 3.3 (THE), 3.2 (TTG).

OHR	0.46	112	iPgd	21 47.80	0.2	
			iSg	21 55.20		
FNA	1.00	120	ePgd	21 57.20	0.0	
			eSg	22 11.50		
ULC	1.01	313	ePg	21 57.50	0.2	
			eSg	22 12.50		
SKO	1.14	52	ePg	21 59.00	-0.5	
			i	22 00.00		
			iSg	22 14.50		
PVY	1.33	352	ePg	22 05.00	2.2	
			eSg	22 25.00		
TTG	1.36	328	iPgd	22 03.90	0.7	
			eSg	22 23.40		
BDV	1.45	314	ePg	22 06.50	1.9	
			eSg	22 26.00		
IVA	1.61	351	ePn	22 09.50	2.6	
			eSn	22 33.00		
GRG	1.67	101	ePd	22 07.70	0.0	
			eS	22 29.20		
HCY	1.74	312	ePn	22 10.80	2.1	
			eSn	22 35.00		
IGT	1.75	178	ePc	22 11.10	2.3	
			eS	22 36.70		
VAY	1.76	88	iPn	22 08.50	-0.4	

NKY	1.79	329	ePn	22	11.60	2.1
			eSn	22	37.00	
LCI	1.97	242	P	22	11.40	-0.7
			eSn	22	36.00	
KNT	2.01	93	ePc	22	12.20	-0.4
			iS	22	37.60	
BRY	2.05	323	ePn	22	14.80	1.5
			eSn	22	43.00	
LIT	2.08	124	ePc	22	15.40	1.8
			eS	22	41.80	
PLE	2.14	343	ePn	22	17.90	3.3X
			eSn	22	46.50	
THE	2.17	107	eP	22	14.20	-0.6
KKB	2.21	74	iPc	22	16.00	0.4
			iSg	22	49.00	
BRT	2.33	261	P	22	19.10	1.9
			eSn	22	48.50	
SOH	2.40	100	eP	22	17.70	-0.6
			eS	22	48.10	
SRS	2.54	93	eP	22	18.50	-1.7
			iS	22	50.80	
VTS	2.57	58	iPc	22	21.00	0.2
			iSg	22	59.00	
AGG	2.77	144	ePd	22	25.30	1.8
			eS	23	00.30	
PAIG	2.95	116	ePd	22	25.80	-0.2
			eS	23	01.80	
OUR	3.00	107	eP	22	25.60	-1.0
			iS	23	02.20	
ORI	3.13	248	P	22	28.50	0.0
			eSn	23	06.50	
TDS	3.39	243	P	22	33.00	0.8
			eSn	23	12.50	
RZN	3.39	82	eP	22	24.00	-8.4X
HVAR	3.39	305	iPnd	22	32.20	-0.1
BEO	3.54	3	eP	22	51.00	16.6X
MGR	3.74	254	P	22	37.40	0.2
			eSn	23	19.50	
SGO	3.80	261	P	22	38.00	-0.1
KDZ	3.91	83	eP	22	40.00	0.3
			iS	23	41.00	
BSS	4.14	265	P	22	41.50	-1.3
DUI	4.36	277	P	22	46.50	0.4
ALN	4.41	93	eP	22	45.80	-0.9
BZS	4.45	13	ePc	22	45.50	-1.7
ATN	4.82	231	P	22	50.90	-1.7
SDI	4.84	277	P	22	52.50	-0.5
ARV	5.84	295	P	23	05.00	-2.0
ASS	5.91	290	P	23	07.50	-0.4
MLR	5.91	43	eP	23	21.00	12.9X
TRI	6.46	315	eP	23	13.30	-2.4
			e	24	25.70	
CRE	6.56	294	P	23	16.50	-0.8
VOY	6.61	318	ePn	23	16.30	-1.6
			eSn	24	30.30	
GBZT	6.98	91	iPgc	24	03.70	40.7X
			iSg	24	04.60	
FVI	7.56	317	P	23	28.50	-2.5
			eSn	24	49.50	
CTI	7.84	310	P	23	32.00	-3.1X
			eSn	24	56.00	
BOB	8.64	297	P	23	45.00	-1.3

S.D. = 1.4 on 45 of 51 obs.

MAY 07, 1990 10h 24m 42.61± 0.37s
41.191 N ± 5.6km 20.174 E ± 3.5km
DEPTH = 5.0km (geophysicist)
ALBANIA (391)
ML 3.8 (SKO), 2.9 (TTG).

OHR	0.48	99	iPgc	24	51.30	-0.9
			iSg	24	58.70	
FNA	1.00	114	ePgc	25	00.80	-1.2
			eSg	25	15.10	
PVY	1.41	354	ePg	25	10.00	0.9
			eSg	25	31.20	
TTG	1.41	331	ePg	25	08.00	-1.0
			eSg	25	28.00	
BDV	1.49	318	ePg	25	10.20	0.2
			eSg	25	31.00	
IGT	1.66	176	ePd	25	14.80	2.3
			eS	25	38.50	
IVA	1.69	353	ePn	25	13.70	0.7
			eSn	25	38.50	
GRG	1.70	97	ePd	25	11.30	-1.8
			eS	25	35.40	
HCY	1.77	316	ePn	25	15.50	1.4
			eSn	25	39.00	
LCI	1.89	244	P	25	14.70	-1.1
			eSn	25	38.00	
KNT	2.06	90	ePd	25	18.90	0.6
			iS	25	45.80	
LIT	2.07	121	ePd	25	20.50	2.0
			eS	25	45.50	
BRY	2.10	325	ePn	25	19.00	0.1
			eSn	25	47.50	
BRT	2.27	263	P	25	22.10	0.8
			eSn	25	50.00	
SOH	2.43	98	eP	25	24.10	0.4
			eS	25	53.70	
SRS	2.58	91	eP	25	26.10	0.3
			iS	25	57.90	
AGG	2.73	142	eP	25	29.30	1.4
			eS	26	01.70	
PAIG	2.95	114	eP	25	30.10	-0.9
OUR	3.02	105	eP	25	30.80	-1.1
TDS	3.30	244	P	25	35.00	-1.0
MGR	3.67	255	P	25	41.10	-0.1
			eSn	26	22.50	
SGO	3.74	262	P	25	41.50	-0.8
BSS	4.08	266	P	25	47.00	0.0
DUI	4.32	278	P	25	50.00	-0.6
SDI	4.81	278	P	25	57.00	-0.5

S.D. = 1.1 on 25 of 25 obs.

MAY 07, 1990 10h 36m 02.61± 0.55s
40.568 N ± 5.7km 30.189 E ± 5.0km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

GPA	0.29	162	iPg	36	07.60	-0.9
			eSg	50	11.00	
HRT	0.47	303	iPg	36	12.80	0.7
GBZT	0.61	292	iPgc	36	15.20	0.4
			iSg	36	25.70	
YLV	0.62	270	iPg	36	15.70	0.6
ISK	0.99	300	ePg	36	22.10	0.2
			eSg	36	36.80	
ITU	1.04	302	ePg	36	22.00	-0.7
			iSg	36	37.00	
KCT	1.43	258	iPn	36	31.20	1.9X
ALT	1.51	182	ePn	36	29.80	-0.7
EDC	1.79	264	iPn	36	34.40	0.0
BBTK	2.10	109	eP	36	39.00	0.0
			eS	37	04.00	
DMK	2.22	305	iPn	36	38.90	-1.8
KHL	2.30	193	ePn	36	43.00	1.1
KAS	2.83	72	ePn	36	50.00	0.7
			iSg	37	24.00	
EZN	3.05	257	iPn	36	52.00	-0.4
BCK	3.12	174	ePn	36	54.00	0.6
IZM	3.13	227	ePn	36	49.00	-4.6X
MLR	5.82	329	ePd	37	42.50	10.7X

S.D. = 0.9 on 14 of 17 obs.

& MAY 07, 1990 10h 42m 45.70s
37.627 N 118.953 W
DEPTH = 6.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.9 (BRK).

FRI	0.87	224	iPc	43	01.70	-1.2
			iS	43	13.00	
CMB	1.20	290	iPd	43	07.70	-0.9
			iS	43	25.70	
TNP	1.45	71	eP	43	12.30	-0.4
KVN	1.57	25	eP	43	14.00	-0.4
LLA	1.88	238	ePc	43	19.00	0.3
PRI	2.02	223	ePd	43	21.40	0.6
ARN	2.07	263	eP	43	22.20	0.7
PHAM	2.13	213	eP	43	21.30	-1.0
MHC	2.16	263	eP	43	23.60	0.8
SAO	2.17	247	i(P)	43	24.00	1.2
PRS	2.33	237	iPd	43	25.70	0.5
BCH	2.60	201	eP	43	29.00	-0.1
BKS	2.61	276	eP	43	30.40	1.2
ORV	2.77	315	e(P)	43	34.10	2.6

14 obs. associated

MAY 07, 1990 10h 53m 45.07± 0.29s
0.578 S ± 3.7km 135.702 E ± 7.4km
DEPTH = 33.0km (normal)
4.7mb (10 obs.) 4.2Msz (1 obs.)
WEST IRIAN REGION (196)

MTN	13.00	200	eP	56	50.00	-0.2
			e	59	11.00	
KNA	16.56	204	eP	57	35.70	-0.8
	0.7s		92.00nm			5.0mb
GUMO	16.75	33	eP	57	38.50	-0.4
WB5	19.23	184	eP	58	08.70	-0.8
			eS	01	12.00	
WRA	19.29	184	Pd	58	10.20	-0.1
	0.7s		14.60nm			4.3mb
QIS	20.22	169	iPd	58	19.00	-1.3
			e	58	21.00	
PGP	20.23	314	eP	58	21.00	0.7
CTA	21.97	153	iPc	58	39.00	1.0
	1.0s		50.00nm			4.9mb
			iS	02	55.00	
BAG	22.53	319	eP	58	44.00	0.2
WARB	26.91	198	eP	59	25.50	0.2
	0.6s		9.00nm			4.6mb
BRS	31.30	150	iPc	00	04.20	-0.3
	0.5s		3.50nm			4.4mb
ADE	34.33	176	eP	00	30.50	-0.3
SSE	34.38	338	Pd	00	31.00	-0.3
	1.0s		10.00nm			4.7mb
Z	20s		0.50um			4.2Msz
E	10s		0.20um			
BWA	35.71	162	eP	00	43.80	1.1
NJ2	36.16	335	eP	00	45.60	-0.8
CAN	36.72	162	eP	00	51.50	0.3
LOE	37.93	300	eP	01	00.00	-1.5
KMI	40.86	311	Pd	01	27.00	1.0
CHG	40.92	300	eP	01	27.00	0.7
CHTO	40.92	300	eP	01	27.00	0.7
	1.0s		4.75nm			4.2mb
			pP	01	31.80	16kmX
XAN	42.63	326	P	01	40.00	-0.2
CD2	43.60	319	eP	01	48.40	0.3
TIY	43.74	333	eP	01	52.40	3.2X
BJI	44.18	338	eP	01	51.50	-1.1
	1.4s		11.00nm			4.5mb
MDJ	45.32	354	eP	02	01.10	-0.6
HHC	46.71	335	eP	02	13.00	0.1
LZH	46.99	324	P	02	15.00	-0.3
SHL	49.66	305	iP	02	36.00	-0.2
GTA	51.59	325	eP	02	50.80	0.2
GUN	55.51	305	P	03	20.20	0.2
	0.6s		13.00nm			5.1mb
DMN	56.04	304	P	03	24.40	0.7
WMQ	61.49	322	P	04	00.90	-0.2
SPA	89.43	180	iPd	06	41.00	1.1
	1.0s		14.00nm			5.2mb
LPB	151.01	127	PKP	13	40.00	8.3X
ZOBO	151.14	127	PKP	13	33.00	0.9
	1.1s		22.62nm			

S.D. = 0.7 on 33 of 35 obs.

& MAY 07, 1990 10h 57m 20.70s
37.630 N 118.948 W
DEPTH = 7.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.9 (BRK).

FRI	0.88	224	iPc	57	36.80	-1.1
			iS	57	48.20	
CMB	1.21	290	iPc	57	42.40	-1.1
			eS	57	58.30	
TNP	1.44	71	iPc	57	47.20	-0.3
KVN	1.57	25	ePc	57	49.90	0.7
LLA	1.89	238	ePc	57	54.00	0.3
PRI	2.03	223	ePd	57	56.30	0.5
ARN	2.07	263	eP	57	56.50	0.1
PHAM	2.14	213	eP	57	57.00	-0.3
MHC	2.16	263	eP	57	58.60	0.8
SAO	2.17	247	eP	57	58.10	0.3
PRS	2.33	237	eP	58	00.20	0.1
GCC	2.50	257	e(P)	58	02.60	0.1
BCH	2.61	201	eP	58	04.00	-0.1
BKS	2.62	276	eP	58	04.00	-0.1
ABL	2.78	185	eP	58	07.00	0.3

15 obs. associated

& MAY 07, 1990 10h 59m 32.90s
37.635 N 118.942 W
DEPTH = 9.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.6 (BRK).

FRI	0.89	224	iPc	59	49.20	-0.8

07d 10h

			iS	00 00.60		
CMB	1.21	290	iPc	59 54.80	-0.8	
			eS	00 10.60		
TNP	1.44	71	eP	59 59.50	0.2	
KVN	1.56	25	eP	00 01.40	0.4	
LLA	1.90	238	ePc	00 06.50	0.8	
PRI	2.03	223	ePd	00 08.80	1.0	
ARN	2.08	263	eP	00 09.00	0.6	
PHAM	2.14	214	eP	00 09.00	-0.3	
MHC	2.17	263	ePd	00 11.00	1.2	
SAO	2.18	247	iPd	00 10.70	0.9	
PRS	2.34	237	iPd	00 13.20	1.1	
GCC	2.51	257	ePc	00 14.60	0.1	
BCH	2.61	201	eP	00 16.30	0.2	
BKS	2.62	276	eP	00 18.20	2.1	
ABL	2.79	185	eP	00 19.00	0.3	

15 obs. associated

---

* MAY 07, 1990 13h 03m 04.35± 0.54s
31.035 S ±11.2km 177.858 W ±10.0km
DEPTH = 48.8km (3 depth phases)
4.8mb (6 obs.)
KERMADEC ISLANDS REGION (177)

PUZ	7.72	203	eP	04 57.60	0.8	
			eS	06 31.00		
MRW	11.81	208	eP	06 09.00	16.2X	
			S	08 03.00		
KHZ	13.28	209	eP	06 11.50	-0.7	
DZM	16.63	299	iPc	06 55.80	0.2	
BRS	25.85	271	iPc	08 35.30	2.1	
	0.5s		6.00nm		4.4mb	
			i	08 48.00	51km	
COO	25.95	263	iPc	08 39.00	4.9X	
CAN	27.99	252	eP	08 56.20	3.6X	
BWA	28.50	254	eP	08 58.00	0.8	
RMQ	29.55	270	eP	09 08.00	1.3	
CTA	34.02	280	iPc	09 45.40	-0.5	
	0.7s		40.41nm		5.5mb	
ADE	36.43	252	eP	10 09.50	3.3X	
OIS	39.49	275	eP	10 31.00	-1.0	
WB5	44.25	273	eP	11 10.80	-0.1	
FORR	45.95	256	eP	11 25.50	1.2	
	0.4s		22.00nm		5.4mb	
SBA	47.42	184	e(P)	11 43.30	8.0X	
KNA	50.84	275	eP	12 01.00	-1.4	
MBL	56.19	264	eP	12 40.00	-1.9	
SPA	59.14	180	iPc	13 07.00	4.8X	
	1.1s		20.83nm		5.2mb	
			i	13 38.10	130kmX	
NANU	59.29	261	eP	13 02.00	-1.6	
MAT	78.83	325	eP	15 15.00	11.3X	
	1.3s		17.31nm			
BAR	85.80	48	eP	15 54.00	14.2X	
PLM	86.12	47	eP	15 56.00	14.4X	
RVR	86.22	46	eP	15 57.00	15.2X	
SBB	86.41	46	eP	15 57.00	14.2X	
TPC	87.13	47	eP	15 47.00	0.7	
GLA	87.22	49	eP	15 47.00	0.2	
GSC	87.44	46	eP	15 48.00	0.2	
			e	16 03.00	52km	
BJI	93.46	315	eP	16 28.00	12.4X	
CHTO	93.91	289	e(P)	16 19.00	0.8	
	1.0s		1.00nm		4.2mb	
			pP	16 32.20	44km	
ZOBO	97.79	114	P	16 52.50	15.8X	
			LR	49 00.00		
YKA	105.96	26	ePdiff	17 17.60	6.1X	
	0.6s		0.20nm		4.3mb	
FRB	125.85	31	ePKP	22 01.00	-0.6	
SUF	144.75	341	ePKP	22 33.00	-3.6X	
MSL	145.66	290	ePKP	22 37.50	-1.5	
			e	22 44.50		
NUR	146.95	340	ePKP	22 39.00	-1.3	
	0.8s		33.70nm			
BCAO	149.37	214	ePKPc	22 51.00	5.4X	
	0.3s		12.00nm			
			id	22 51.90		
			id	23 03.10		
NB2	149.39	351	PKP	22 43.20	-1.0	
	1.2s		23.40nm			
HFS	149.89	348	ePKP	22 46.40	1.5	
	0.8s		9.30nm			
KSP	157.58	336	ePKP	23 06.30	10.4X	
			e	23 24.00		
CLL	158.20	341	e(PKP)	22 58.00	1.4	
			e	23 28.00		
KHC	159.96	338	ePKP	22 58.90	0.3	
			e	23 36.40		

S.D. = 1.2 on 24 of 41 obs.

MAY 07, 1990 14h 20m 52.03± 0.21s
44.327 N ± 1.9km 6.772 E ± 2.0km
DEPTH = 9.8 ± 2.2 km
FRANCE (538)
ML 2.9 (LDG), 2.7 (GEN). MD 2.6 (STR).

DOI	0.38	62	Pc	21 00.20	0.3	
			eSg	21 05.50		
STV	0.40	102	P	21 00.63	0.3	
			S	21 06.68		
TOUF	0.46	132	Pg	21 01.59	0.1	
ENR	0.48	102	P	21 01.86	0.1	
			S	21 08.94		
AUTN	0.58	125	Pg	21 03.67	-0.2	
			Sg	21 13.24		
CALN	0.58	172	Pg	21 03.67	-0.2	
			Sg	21 12.38		
RRL	0.59	1	P	21 03.61	-0.6	
			S	21 11.99		
AURF	0.59	138	Pg	21 03.67	-0.4	
			Sg	21 13.29		
SBF	0.67	134	Pg	21 05.20	-0.1	
			Sg	21 14.40		
GANF	0.70	242	Pg	21 05.57	-0.4	
			Sg	21 15.48		
REVF	0.73	144	Pg	21 06.68	0.3	
BNI	0.73	355	P	21 05.80	-0.7	
			eSg	21 15.30		
FRF	0.77	187	Pg	21 06.40	-0.7	
			Sg	21 16.60		
ROB	0.79	92	P	21 07.81	0.4	
			S	21 18.76		
TAVF	0.88	216	Pg	21 08.87	-0.1	
			Sg	21 21.40		
RSP	0.89	23	P	21 09.45	0.2	
			S	21 20.94		
VILF	0.90	238	Pg	21 09.67	0.4	
			Sg	21 22.64		
LRG	0.92	199	Pg	21 08.80	-0.8	
			Sg	21 22.40		
LMR	1.01	191	Pg	21 10.50	-0.7	
			Sg	21 23.80		
FIN	1.04	96	P	21 12.01	0.3	
			S	21 25.53		
CKI	1.09	84	P	21 13.10	0.6	
			iSg	21 28.20		
LSD	1.16	13	P	21 13.86	-0.1	
			S	21 28.15		
LPG	1.17	359	Pg	21 14.20	0.1	
			Sg	21 30.00		
LPL	1.19	359	Pg	21 14.60	0.2	
TREF	1.22	235	Pg	21 16.08	1.3	
			Sg	21 32.54		
PRAF	1.27	246	Pg	21 16.65	1.0	
			Sg	21 34.87		
BERF	1.28	218	Pg	21 15.86	0.0	
			Sg	21 34.71		
PCP	1.29	80	P	21 16.32	0.4	
			S	21 31.68		
GELF	1.35	226	Pg	21 17.88	0.9	
PGF	2.41	137	Pn	21 31.10	-1.1	
			Sn	22 00.40		
SMF	3.10	319	Pg	21 50.60	8.7X	
LBF	3.30	325	Pn	21 44.40	-0.5	
			Sg	22 36.00		
BGF	3.55	310	Pn	21 48.20	-0.1	
HAU	3.69	356	Pn	21 49.80	-0.6	

S.D. = 0.6 on 33 of 34 obs.

? MAY 07, 1990 14h 21m 21.90± 2.19s
13.403 S ±16.5km 76.672 W ±26.4km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)

PT02	0.51	27	iPd	21 33.10	0.4	
			iS	21 43.70		
PT03	1.03	125	iPc	21 40.10	0.0	
			iS	21 55.40		
PT10	1.35	348	iPd	21 45.50	0.9	
			iS	22 05.60		
NNA	1.42	353	iP	21 45.00	-0.6	
			iS	22 03.00		
PT08	1.44	5	eP	21 45.60	-0.6	
			iS	22 07.20		

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

& MAY 07, 1990 14h 33m 33.57s
59.930 N 152.233 W
DEPTH = 84.6km
SOUTHERN ALASKA (2)
<AGS-P>.

NNL	0.48	76	iP	33 48.34	0.5	
RED	0.56	331	iP	33 47.77	-0.8	
CNPM	0.65	128	iP	33 48.74	-0.6	
			eS	34 00.44		
RDT	0.65	352	iP	33 48.76	-0.7	
AUE	0.81	226	iP	33 50.06	-0.9	
AUL	0.82	229	eP	33 50.21	-0.9	
			eS	34 03.87		
NKA	0.95	31	eP	33 54.22	1.6	
SLKM	1.16	59	eP	33 55.45	0.3	
			eS	34 11.91		
CDD	1.24	216	eP	33 54.80	-1.3	
SPU	1.26	4	iP	33 56.42	0.0	
MCNL	1.31	236	eP	33 56.18	-0.8	
CRP	1.34	2	eP	33 57.74	0.1	
			eS	34 16.82		
SEW	1.41	82	eP	33 54.68	-3.6	
NCG	1.48	1	eP	33 59.45	0.1	
SUA	1.70	25	eP	34 02.95	0.7	
PMS	1.87	44	eP	34 04.89	0.5	

16 obs. associated

MAY 07, 1990 14h 48m 03.74± 0.47s
30.983 N ± 7.3km 51.715 E ± 5.4km
DEPTH = 33.0km (normal)
4.1mb (4 obs.) 4.6Msz (1 obs.)
IRAN (348)

TEH	4.75	357	eP	49 13.00	-2.0	
DHR	4.86	197	iPd	49 18.90	2.4	
BHD	6.62	292	ePn	49 42.00	0.7	
			iSn	50 35.00		
			iS*	50 48.00		
SLY	6.95	313	ePn	49 47.00	1.2	
			iP*	50 08.50		
			iSn	51 03.50		
			iS*	51 28.00		
			iSg	51 46.50		
MJMA	7.62	229	eP	49 52.30	-3.0X	
RYD	7.70	217	ePd	49 55.10	-1.4	
			iS	51 21.10		
TAB	8.35	329	e(P)	50 23.00	17.5X	
MAIO	8.38	49	eP	50 05.00	-0.9	
			eS	52 23.00		
OASM	8.69	238	eP	50 08.70	-1.5	
MSL	8.94	309	ePn	50 05.00	-8.6X	
			ePg	50 45.00		
			eSn	51 50.00		
			eSg	52 50.00		
KMSA	12.41	213	eP	50 59.50	-1.4	
PRNI	14.41	272	e(P)	51 27.00	-0.3	
MBH	14.58	270	eP	51 32.00	2.5	
BADA	14.72	265	eP	51 29.30	-2.1	
LFK	15.82	291	eP	51 45.40	-0.3	
HLW	17.61	272	eP	52 12.20	4.0X	
			e	58 06.50		
BBTK	17.77	305	iPd	52 11.00	0.7	
ELL	18.98	293	eP	52 25.00	-0.2	
KHL	19.64	298	eP	52 31.40	-1.3	
GPA	19.68	304	eP	52 32.00	-1.0	
YLV	20.45	304	iP	52 40.40	-0.7	
ARO	21.03	205	iPd	52 53.00	5.8X	
IZM	21.39	297	eP	52 51.00	0.4	
EDC	21.46	302	eP	52 51.20	-0.1	
KSH	21.50	60	eP	52 52.50	0.6	
Z	12s		2.50um		4.8MszX	
N	12s		5.90um			
VRI	24.45	314	ePd	53 25.00	4.5X	
MLR	24.75	313	ePc	53 37.50	13.8X	
CMP	25.23	312	ePc	53 31.00	2.9X	
VAY	25.59	302	eP	53 32.30	0.9	
FNA	26.34	300	eP	53 38.00	-0.5	
SKO	26.57	303	eP	53 40.00	-0.5	
Z	14s		0.75um		4.4MszX	
N	17s		3.40um			
E	15s		0.95um			
			iS	58 28.00		

		LR	04 33.50			
OHR	26.84	301 eP	53 45.50	2.5		
	1.2s	67.00nm		5.1mb X		
		e	54 10.00			
GUN	29.84	87 P	54 00.00	-10.7X		
KRA	30.43	318 eP	54 17.90	2.7X		
		e	54 20.80			
		i	54 29.70			
WMQ	31.08	55 P	54 20.50	-0.5		
E	20s	0.70um				
VBY	31.79	308 e(P)c	54 29.50	2.3		
CEY	32.42	308 eP	54 33.00	0.3		
LJU	32.42	308 e(P)	54 31.50	-1.2		
VOY	32.85	308 eP	54 36.20	-0.3		
KSP	32.88	317 eP	54 38.70	2.1		
		e	54 50.80			
		e	55 36.50			
KBA	33.47	310 iP	54 41.40	-0.7		
PRU	33.60	315 eP	54 47.50	4.6X		
KHC	33.91	313 P	54 44.40	-1.2		
Z	15s	0.60um		4.4MszX		
N	16s	0.60um				
E	16s	0.60um				
		e	54 47.60			
PGD	33.94	304 P	54 46.40	0.3		
MME	34.72	304 P	54 55.50	2.6		
CLL	34.97	317 eP	54 57.00	2.3		
BOB	35.68	305 P	54 59.70	-1.2		
VAI	36.32	307 P	55 07.30	1.2		
BNI	37.67	305 P	55 15.30	-2.5		
SOD	39.35	345 eP	55 31.00	-0.3		
DOU	39.80	313 P	55 39.00	3.7X		
GTA	39.80	64 eP	55 35.60	0.0		
Z	16s	1.00um		4.8MszX		
E	11s	0.50um				
NB2	40.06	331 P	55 34.00	-3.3X		
	0.8s	2.50nm		4.0mb		
BCAO	40.88	236 ePc	55 48.30	3.8X		
	0.5s	2.00nm		4.1mb		
KEV	41.25	347 eP	55 43.00	-3.9X		
LZH	43.33	69 eP	56 11.50	7.0X		
CHG	44.22	94 eP	56 12.80	1.0		
		e	03 16.50			
CHTO	44.22	94 eP	56 12.00	0.2		
	0.9s	1.71nm		3.9mb		
KMI	45.09	84 eP	56 18.50	-0.5		
TOL	45.66	297 eP	56 27.00	4.0X		
XAN	47.80	70 P	56 39.00	-1.1		
GYA	48.00	81 P	56 46.40	4.6X		
TIY	49.82	65 eP	56 58.20	2.6		
BJI	52.23	61 eP	57 21.00	7.3X		
SSE	58.56	70 eP	58 03.00	3.5X		
Z	20s	0.46um		4.6Msz		
E	12s	0.24um				
FRB	74.56	337 eP	59 39.00	-1.6		
YKA	86.20	354 eP	00 41.30	-1.4		
	0.8s	1.60nm		4.3mb		
S.D. = 1.4		on 47 of 67 obs.				

MAY 07, 1990 14h 52m 51.69± 0.36s
9.648 S ± 5.8km 155.537 E ± 7.6km
DEPTH = 25.2km (3 depth phases)
5.1mb (9 obs.) 4.9Msz (3 obs.)
DENTRECASTEAUX ISLANDS REGION (194)

HNR	4.36	88 eP	53 57.00	-0.9		
RAB	6.37	328 e(P)	54 06.50	-19.9X		
CTA	13.71	220 iPc	56 05.00	-2.0		
		e	56 18.00			
		i	56 37.00			
		iS	58 52.00			
DZM	16.19	141 iPc	56 39.20	-0.2		
BRS	17.84	188 ePKP	57 00.00	0.0		
RMQ	17.94	200 eP	57 01.00	-0.2		
		e	57 05.00			
QIS	18.80	233 eP	57 13.00	1.1		
QLP	19.95	211 eP	57 25.00	0.1		
COO	21.10	189 eP	57 36.80	0.0		
WRA	22.88	241 Pc	57 55.10	0.5		
	1.1s	16.70nm		4.5mb		
GUMO	25.40	335 eP	58 13.00	-5.9X		
PJG	25.40	335 eP	58 13.50	-5.4X		
CAN	26.24	192 eP	58 31.70	5.0X		
WHN	56.22	317 eP	02 33.00	0.8		
SNG	57.20	285 eP	02 28.20	-11.4X		
MDJ	58.89	339 eP	02 50.00	-0.8		
Z	16s	0.90um		5.0MszX		
		eS	10 50.00			
CN2	59.81	335 Pc	02 56.80	-0.4		
Z	16s	0.60um		4.8MszX		
N	11s	0.30um				
E	11s	0.30um				
		pP	03 07.00	34km		
BJI	61.41	326 eP	03 08.50	0.4		
	1.5s	16.00nm		4.9mb		
Z	18s	0.59um		4.8Msz		
KMI	61.96	305 Pd	03 14.00	1.5		
	2.0s	70.00nm		5.4mb		
Z	20s	1.10um		5.0Msz		
TIY	61.99	322 eP	03 12.00	-0.3		
Z	14s	1.10um		5.2MszX		
E	13s	0.60um				
CHTO	62.56	297 eP	03 15.00	-1.3		
	1.6s	17.72nm		4.9mb		
		pP	03 22.10	23km		
CD2	63.94	311 eP	03 22.40	-2.9		
BTO	65.28	323 eP	03 33.00	-0.8		
N	14s	0.90um				
E	14s	0.70um				
LZH	66.58	316 Pc	03 42.50	0.2		
	2.5s	94.00nm		5.5mb		
Z	18s	0.60um		4.8Msz		
E	13s	0.50um				
		pP	03 48.50	19km		
SHL	71.11	301 iP	04 10.00	-0.6		
GUN	76.95	302 P	04 45.20	0.6		
	1.0s	52.00nm		5.5mb		
DMN	77.51	301 P	04 47.40	-0.2		
	1.0s	71.00nm		5.7mb		
SPA	80.42	180 eP	05 03.70	1.2		
	1.1s	11.31nm		4.8mb		
WMQ	81.12	317 P	05 07.50	0.9		
TTA	81.31	20 eP	05 08.40	1.3		
IMA	84.13	19 eP	05 22.10	0.4		
	0.7s	1.40nm		4.3mb		
FBA	85.38	21 eP	05 26.90	-0.9		
BRK	89.77	52 e(P)	05 56.60	7.1X		
BKS	89.79	52 e(P)	05 53.00	3.4X		
SAO	90.17	53 ePc	05 55.20	3.8X		
PRI	90.66	54 e(P)	06 01.90	8.0X		
ORV	90.70	50 ePc	06 02.60	8.8X		
CMB	91.25	52 eP	06 04.00	7.6X		
FRI	91.58	53 ePc	06 05.80	7.9X		
BRG	128.20	330 e(PKP)	12 04.60	7.1X		
	1.0s	10.00nm				
SKO	128.51	317 ePKP	11 59.00	0.6		
		i	12 04.00			
KHC	129.47	328 ePKP	12 01.60	1.6		
ZOBO	129.70	120 PKP	12 08.00	5.9X		
	1.1s	7.83nm				
Z	24s	0.19um		4.7MszX		
		LR	47 32.00			
TOL	144.83	332 ePKP	12 29.00	0.5		
BAO	145.74	137 ePKP	12 26.60	-4.2X		
S.D. = 1.0		on 30 of 45 obs.				

MAY 07, 1990 15h 24m 50.87± 1.68s
27.238 N ± 7.6km 66.360 E ± 4.2km
DEPTH = 41.9 ± 15.0 km
4.8mb (32 obs.) 4.2Msz (3 obs.)
PAKISTAN (710)

QUE	2.98	10 iPc	25 37.20	0.1		
NDI	9.71	79 iPd	27 06.50	-4.5X		
	0.5s	112.68nm		6.3mb X		
		iS	28 49.00			
POO	11.07	140 eP	27 35.00	5.3X		
		iS	29 29.00			
KSH	14.58	31 P	28 14.00	-2.3		
Z	16s	3.00um				
E	12s	4.30um				
		S	30 58.00			
HYB	14.91	128 eP	28 25.00	4.3X		
DMN	16.65	84 P	28 36.80	-6.3X		
GBA	17.06	140 Pc	28 49.00	1.0		
	0.9s	13.70nm		4.1mb		
GUN	17.32	83 P	28 44.80	-6.8X		
TAB	19.99	308 eP	29 24.00	1.3		
LSA	21.92	78 Pd	29 43.00	0.1		
Z	16s	1.00um		4.3MszX		
E	11s	0.50um				
SHL	22.91	88 iP	29 52.00	-0.4		
		eS	33 56.00			
WMQ	23.88	41 Pc	30 02.40	1.0		
E	18s	0.80um				
		PP	30 34.50			
		eS	34 14.00			
GTA	30.30	58 eP	31 00.60	0.0		
Z	18s	0.60um		4.3Msz		
E	13s	0.50um				
CHG	31.07	99 eP	31 06.90	-0.5		
CHTO	31.07	99 iP	31 07.00	-0.4		
	0.8s	7.32nm		4.5mb		
KMI	32.65	85 Pd	31 21.00	-0.4		
CD2	32.79	75 iPd	31 22.00	-0.4		
LZH	32.94	65 Pc	31 23.50	-0.3		
	2.0s	23.00nm		4.7mb		
Z	16s	0.40um		4.2MszX		
E	10s	0.30um				
		pP	31 30.50	24kmX		
		eS	36 40.00			
LOE	34.05	99 eP	31 32.50	-0.9		
GYA	35.86	82 eP	31 48.40	-0.5		
MLR	36.83	310 ePc	32 11.50	14.6X		
XAN	37.04	69 P	31 58.00	-0.7		
BTO	38.22	58 eP	32 09.00	0.4		
HHC	39.42	58 P	32 20.00	1.4		
TIY	39.90	63 eP	32 22.40	-0.2		
Z	14s	1.30um		4.9MszX		
E	10s	0.40um				
SPC	41.54	315 eP	32 37.90	1.9		
WHN	41.90	74 ePc	32 39.50	0.6		
	1.0s	20.00nm		4.8mb		
SRO	42.48	312 eP	33 03.50	20.0X		
BJI	42.88	60 eP	32 48.00	1.2		
	1.2s	16.00nm		4.6mb		
Z	20s	0.42um		4.3Msz		
ZST	43.35	312 eP	32 52.00	1.4		
NUR	43.57	331 eP	32 54.00	1.9		
TIA	43.68	65 eP	32 54.00	0.6		
SUF	44.16	335 eP	32 57.00	0.1		
KSP	44.41	316 eP	33 00.00	0.9		
LJU	44.77	309 e(P)	33 03.00	0.9		
CEY	44.81	309 e(P)	33 04.00	1.5		
VOY	45.21	309 e(P)	33 06.60	0.9		
NJ2	45.51	71 Pd	33 08.90	0.8		
KBA	45.70	310 i(P)	33 11.50	1.8		
	1.0s	22.30nm		5.0mb		
KHC	45.81	313 P	33 10.70	0.3		
	1.2s	10.00nm		4.6mb		
BRG	45.87	316 eP	33 11.40	0.7		
	1.4s	48.00nm		5.2mb		
FVI	46.03	310 P	33 13.50	1.5		
UPP	46.42	328 iP	33 08.90	-6.0X		
CLL	46.53	316 e(P)	33 17.00	1.1		
	1.9s	2.00nm		3.7mb X		
PGD	46.60	306 P	33 18.30	1.5		
SOD	46.78	340 eP	33 20.00	2.3		
MOX	47.29	315 iP	33 23.00	1.0		
MME	47.35	306 P	33 25.40	2.6		
GRF	47.41	314 eP	33 24.00	1.0		
	1.6s	74.00nm		5.4mb		
Z	22s	0.10um		3.7Msz		
KEV	48.21	343 eP	33 40.00	11.1X		
BOB	48.26	307 P	33 29.90	0.2		
HFS	48.36	328 eP	33 29.00	-1.2		
	0.6s	12.00nm		5.1mb		
Z	17s	0.15um		4.0MszX		
		LR	54 22.00			
SNY	48.49	57 eP	33 31.20	-0.2		
VAI	48.77	308 P	33 32.80	-0.7		
FEL	49.37	311 eP	33 38.04	-0.2		
S8F	49.70	306 eP	33 39.40	-1.4		
	0.8s	24.20nm		5.3mb		
ABH	49.80	314 eP	33 41.22	-0.2		
N82	49.81	328 P	33 39.70	-1.6		
	0.9s	8.80nm		4.8mb		
CN2	49.82	54 eP	33 41.40	-0.2		
DOI	49.83	307 P	33 40.60	-1.2		
RUP	50.10	313 eP	33 43.28	-0.5		
LPG	50.18	308 eP	33 43.30	-1.4		
	1.0s	20.00nm		5.1mb		
BSF	50.19	311 eP	33 42.90	-1.6		
	0.8s	6.70nm		4.7mb		
LPL	50.19	308 eP	33 43.40	-1.3		
	1.0s	14.00nm		4.9mb		
BNI	50.23	307 P	33 43.70	-1.2		
BCAO	50.88	252 ePc	33 52.00	2.0		
	0.5s	4.00nm		4.7mb		
DOU	51.72	314 P	33 55.80	-0.1		
LBF	52.09	310 eP	33 57.70	-1.2		

07d 15h

	1.0s	14.00nm			4.9mb	
LOR	52.17	310 eP	33	58.10	-1.3	
	1.0s	10.00nm			4.8mb	
SMF	52.19	309 eP	33	58.40	-1.2	
	1.0s	28.00nm			5.2mb	
SSF	52.41	310 eP	33	59.90	-1.3	
	0.8s	10.75nm			4.9mb	
AVF	52.52	310 eP	34	00.60	-1.5	
	0.8s	5.35nm			4.6mb	
BGF	52.88	309 eP	34	03.30	-1.4	
	1.2s	13.40nm			4.8mb	
MAF	53.09	309 eP	34	05.20	-1.1	
	1.2s	11.90nm			4.8mb	
CAF	53.51	307 eP	34	08.60	-0.8	
	1.0s	16.00nm			5.0mb	
LSF	53.80	309 eP	34	10.10	-1.4	
	1.2s	11.90nm			4.8mb	
RJF	53.87	308 eP	34	11.20	-0.8	
	1.2s	23.80nm			5.1mb	
KRI	56.48	223 iPc	34	31.20	-0.2	
EKA	56.52	320 P	34	30.00	-1.1	
	0.6s	3.20nm			4.5mb	
BUL	59.63	222 eP	34	52.10	-1.3	
DAG	62.59	345 iPd	35	11.30	-1.2	
	0.6s	8.67nm			5.1mb	
MBC	76.70	1 ePd	36	39.30	0.6	
	0.8s	13.00nm			5.0mb	
BRW	77.22	13 eP	36	42.20	0.5	
WB5	80.80	118 eP	37	02.10	0.1	
WRA	80.81	118 Pd	37	02.20	0.2	
	0.6s	2.50nm			4.4mb	
IMA	82.09	15 eP	37	08.30	0.2	
	0.7s	4.30nm			4.6mb	
FBA	84.41	14 eP	37	20.70	0.9	
PWA	86.72	16 eP	37	31.60	0.3	
YKA	90.58	0 eP	37	49.20	-0.4	
	0.7s	1.50nm			4.5mb	

S.D. = 1.1 on 80 of 89 obs.

% MAY 07, 1990 16h 13m 47.65± 0.81s
44.345 N ±11.1km 8.128 E ± 6.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

FIN	0.15	157 P	13	51.11	0.0	
		S	13	53.34		
ROB	0.19	255 P	13	51.83	-0.1	
		S	13	54.95		
PCP	0.36	56 P	13	55.05	0.0	
		S	14	00.74		
ENR	0.52	257 P	13	58.40	0.2	
		S	14	05.86		
STV	0.59	260 P	13	59.51	-0.1	

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

MAY 07, 1990 16h 40m 48.24± 0.38s
44.322 N ± 2.3km 6.745 E ± 3.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN), 2.1 (LDG).

STV	0.42	100 P	40	56.55	-0.4	
		S	41	02.50		
TOUF	0.48	130 Pg	40	57.89	-0.1	
ENR	0.49	101 P	40	58.09	-0.2	
		S	41	05.17		
CALN	0.58	170 Pg	41	00.05	0.0	
		Sg	41	08.27		
AUTN	0.59	123 Pg	41	00.75	0.4	
		Sg	41	09.33		
RRL	0.60	3 P	40	59.94	-0.6	
		S	41	08.04		
AURF	0.60	136 Pg	41	00.51	0.0	
SBF	0.68	132 Pg	41	01.80	0.1	
		Sg	41	10.80		
REVF	0.73	142 Pg	41	03.63	0.9	
FRF	0.76	185 Pg	41	02.80	-0.4	
		Sg	41	12.80		
ROB	0.81	92 P	41	04.25	0.3	
		S	41	15.22		
RSP	0.91	24 P	41	05.58	-0.1	
LRG	0.91	198 Pg	41	05.20	-0.4	
		Sg	41	18.40		
LMR	1.00	190 Pg	41	07.60	0.4	
		Sg	41	20.40		
FIN	1.06	96 P	41	07.94	-0.2	
LSD	1.17	14 P	41	09.99	-0.3	
LPG	1.18	0 Pg	41	10.80	0.4	
		Sg	41	26.40		
LPL	1.19	360 Pg	41	11.30	0.6	
PCP	1.31	80 P	41	12.35	-0.1	
PGF	2.42	136 Pn	41	27.60	-0.9	
		Sn	41	56.60		

S.D. = 0.5 on 20 of 20 obs.

? MAY 07, 1990 16h 46m 10.11± 0.86s
35.248 S ±17.1km 105.212 W ±53.3km
DEPTH = 10.0km (geophysicist)
5.2mb (6 obs.)
EASTER ISLAND CORDILLERA (684)

SPA	54.93	180 P	55	42.90	-0.4	
PLM	69.11	350 P	57	20.00	1.5	
OLY	71.55	12 P	57	31.00	-2.1	
JSC	72.70	21 P	57	40.00	0.0	
RSCP	72.83	17 P	57	40.00	-0.7	
PV09	73.47	357 P	57	44.00	-0.7	
TNP	73.81	350 P	57	46.20	-0.4	
	1.0s	19.00nm			5.1mb	
FVM	74.14	12 P	57	49.80	1.5	
	1.0s	30.00nm			5.3mb	
CMB	74.26	348 P	57	50.00	1.0	
	1.0s	13.50nm			4.9mb	
GOL	74.58	360 P	57	52.00	1.0	
	1.0s	20.00nm			5.1mb	
KVN	74.88	350 P	57	51.00	-1.8	
BW06	77.75	357 P	58	08.00	-0.9	
NEW	83.82	352 P	58	40.50	-0.1	
	1.0s	17.50nm			5.2mb	
RSON	86.34	7 P	58	54.00	0.9	
	1.0s	21.69nm			5.3mb	
HFS	134.06	38 PKP	05	29.70	1.1	
CHG	153.07	239 PKP	06	10.00	7.8X	

S.D. = 1.2 on 15 of 16 obs.

MAY 07, 1990 16h 49m 32.33± 1.54s
36.428 N ±16.1km 16.008 E ± 4.5km
DEPTH = 10.0km (geophysicist)
MEDITERRANEAN SEA (400)

MEU	1.10	308 P	49	52.80	-0.2	
		eSn	50	06.20		
ATN	1.78	346 P	50	04.50	1.1	
		eSn	50	23.40		
MNO	1.83	325 P	50	04.80	0.5	
		eSn	50	25.90		
FAI	2.05	295 Pc	50	06.70	-0.6	
GIB	2.22	315 P	50	09.60	-0.2	
		eSn	50	34.80		
MCT	2.25	303 P	50	10.60	0.3	
MGR	3.72	355 P	50	31.50	0.4	
		eSn	51	11.80		
SGO	4.16	353 P	50	36.70	-0.5	
		eSn	51	22.40		
LCI	4.19	21 Pd	50	38.00	0.4	
		eSn	51	25.60		
BRT	4.54	12 P	50	41.50	-1.1	
		eSn	51	32.30		
IGT	4.61	46 ePd	50	43.80	0.1	
		eS	51	35.90		
AGG	5.64	61 ePd	51	00.70	2.4	
		eS	52	03.90		
FNA	6.05	42 ePn	51	03.70	-0.3	
		eSn	52	11.40		
LIT	6.28	52 ePd	51	07.60	0.3	
		iS	52	17.40		
PAIG	6.98	58 ePd	51	16.70	-0.4	
KNT	7.16	47 eP	51	18.60	-1.0	
OUR	7.38	56 ePd	51	22.10	-0.5	
ALN	9.03	57 eP	51	44.80	-0.8	

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

& MAY 07, 1990 19h 19m 21.90s
39.772 N 120.708 W
DEPTH = 17.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.0 (BRK).

ORV	0.65	251 iPc	19	33.80	-0.6	
		iS	19	44.00		
MIN	0.90	310 iPc	19	38.30	-0.4	
		iS	19	49.90		
LTCM	1.17	292 eP	19	43.20	-0.1	
WDC	1.62	300 iPd	19	50.00	0.2	
		iS	20	11.40		
CMB	1.75	172 ePd	19	52.40	0.6	
		iS	20	15.20		
KVN	2.14	109 eP	19	56.20	-1.4	
BKS	2.24	213 e(P)	20	21.00	22.2	
ARN	2.50	195 eP	20	02.30	-0.3	
MHC	2.53	197 e(P)	20	03.90	0.8	
FHC	2.71	293 e(P)	20	59.50	54.0	
FRI	2.88	164 eP	20	10.90	3.0	
TNP	3.20	121 eP	20	18.50	5.8	

12 obs. associated

MAY 07, 1990 20h 51m 41.25± 0.99s
15.563 N ± 3.6km 147.710 E ± 4.5km
DEPTH = 40.1 ± 8.9 km
5.0mb (20 obs.) 4.2Msz (4 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.38	234 eP	52	33.40	0.6	
		eS	53	10.80		
PJG	3.38	235 eP	52	32.30	-0.6	
		eS	53	10.50		
GUMO	3.38	235 eP	52	32.70	-0.2	
KAKJ	21.63	343 P	56	30.10	0.1	
IIDJ	21.69	338 P	56	30.10	-0.6	
CHJJ	21.84	341 P	56	32.10	0.0	
TSRJ	22.49	334 P	56	40.30	1.8	
MAT	22.54	340 eP	56	38.00	-1.1	
	1.7s	169.23nm			5.2mb	
MTMJ	22.72	339 eP	56	39.30	-1.6	
NIIJ	22.93	342 eP	56	42.80	0.0	
PMG	24.82	181 eP	57	01.00	-0.3	
BAG	26.09	276 eP	57	13.80	0.4	
HOOJ	27.00	353 eP	57	22.20	0.9	
MRRJ	27.37	349 eP	57	25.80	1.1	
SSE	28.74	307 Pd	57	35.50	-1.7	
	1.0s	19.00nm			4.7mb	
Z	18s	0.50um			4.2Msz	
E	18s	0.60um				
ASAJ	28.79	352 eP	57	38.40	0.9	
MDJ	32.77	336 eP	58	12.40	-0.2	
CN2	33.93	331 eP	58	12.40	-10.3X	
Z	20s	0.40um			4.1Msz	
WHN	33.97	302 eP	58	23.00	-0.2	
QIZ	36.27	281 Pc	58	44.10	1.1	
BJI	36.73	318 eP	58	46.00	-0.5	
	1.5s	52.00nm			5.2mb	
Z	20s	0.30um			4.1Msz	
WB5	37.58	201 eP	58	53.50	-0.4	
		e	01	11.50		
WRA	37.65	201 Pd	58	54.20	-0.3	
	0.9s	14.40nm			4.9mb	
TIY	38.15	312 eP	58	59.60	1.0	
Z	16s	0.60um			4.5MszX	
XAN	39.43	305 P	59	09.50	0.1	
GYA	39.67	293 P	59	13.00	1.5	
HHC	40.17	316 eP	59	15.00	-0.4	
BTO	41.10	315 eP	59	22.50	-0.6	
DZM	41.66	153 iPc	59	37.00	9.2X	
CD2	42.89	299 eP	59	38.20	0.4	
BRS	42.98	173 eP	59	39.00	0.6	
LZH	44.01	306 Pd	59	47.50	0.5	
	3.0s	330.00nm			5.6mb	
Z	40s	0.40um			4.0MszX	
		eS	06	20.00		
LOE	44.05	279 eP	59	47.40	0.1	
NST	45.74	277 eP	00	05.00	4.2X	
CHG	46.59	281 ePd	00	08.00	0.5	
	0.8s	12.87nm			4.9mb	
CHTO	46.59	281 iPd	00	08.30	0.8	
	0.7s	10.96nm			4.9mb	
GTA	47.99	309 iPd	00	18.90	0.4	
Z	22s	0.60um			4.5Msz	
FORR	49.85	202 eP	00	32.40	-0.2	
ADE	50.97	190 eP	00	41.20	0.1	
SHL	52.89	290 iP	00	55.50	-0.5	
LSA	53.59	296 P	01	02.20	0.8	
MRWA	54.04	215 eP	01	03.00	-1.0	
WMQ	57.82	312 P	01	31.00	-0.2	
		pP	01	41.00	33kmX	
SVW	60.64	28 eP	01	50.40	0.0	
TTA	61.19	26 eP	01	53.70	-0.5	
IMA	63.37	23 eP	02	08.30	-0.4	
	1.0s	6.30nm			4.7mb	
PMS	63.45	29 eP	02	08.00	-1.2	
BRW	64.64	17 P	02	16.20	-0.6	

```
NDI     65.79 295 iPd    02 24.50   -0.4
QUE     74.49 298 eP     03 18.00   -0.1
MBC     75.70  14 ePd    03 24.10    0.2
        1.0s     24.00nm          5.1mb
GMW     78.36  44 P      03 39.90    0.7
                  pP     03 50.20   33kmX
MAIO    79.55 305 iPd    03 47.20    1.2
PNT     80.09  42 eP     03 49.00    0.5
ORV     80.86  52 ePd    03 52.90    0.1
ARN     81.32  54 P      03 55.80    0.5
DPW     81.32  43 P      03 55.00   -0.1
                  pP     04 06.00   35kmX
PRS     81.68  55 eP     03 57.80    0.7
NEW     81.93  42 P      03 58.20   -0.1
        0.8s     11.98nm          5.0mb
                  pP     04 09.50   37kmX
CMB     82.05  53 ePd    03 59.60    0.5
FRI     82.82  54 eP     04 03.50    0.5
BCH     82.96  56 P      04 04.70    0.7
KVN     83.54  51 P      04 06.80   -0.2
TNP     84.46  52 P      04 11.90    0.3
        0.8s      4.17nm          4.6mb
SBB     84.88  56 eP     04 14.00    0.4
SES     85.15  39 eP     04 15.00    0.4
KEV     85.49 343 eP     04 04.00  -11.9X
GSC     85.53  55 eP     04 17.00    0.1
TPC     86.45  56 eP     04 21.00   -0.4
SOD     86.94 341 iP     04 23.30    0.2
DUG     87.14  49 P      04 25.30    0.5
        0.5s      2.60nm          4.7mb
DAG     87.50 357 iPc    04 25.50   -0.1
        0.5s     10.56nm          5.3mb
MSU     88.14  51 P      04 30.20    0.5
BW06    88.63  46 P      04 31.20   -0.8
FFC     88.68  33 eP     04 31.00   -0.6
        1.2s     18.00nm          5.3mb
SUF     89.76 337 iP     04 35.10   -1.5
        0.6s      5.60nm          5.0mb
NUR     91.63 335 iP     04 44.00   -1.2
        0.8s     16.10nm          5.5mb
RSSD    91.86  43 P      04 46.20   -0.7
                  pP     04 57.40   35kmX
GOL     92.68  48 P      04 51.30    0.4
        0.9s      8.05nm          5.2mb
ALO     93.67  52 eP     04 55.00   -0.4
        1.0s      2.50nm          4.6mb
HFS     95.99 339 ePKP   05 03.70   -1.7
        0.6s      2.50nm          4.9mb
NB2     96.16 340 P      05 04.80   -1.4
        0.8s      3.20nm          4.9mb
BUL    122.12 256 iPKPd  10 30.90   -3.3X
SLR    122.84 249 iPKPd  10 29.20   -6.2X
ZOBO   145.56  96 PKP    11 19.50    1.0
        1.0s     10.50nm
LPB    145.60  97 PKP    11 18.00   -0.3
SIV    152.31  95 PKP    11 28.60    0.4
     S.D. = 0.7  on  81 of  87 obs.
-------------------------------------
?  MAY  07, 1990  21h 09m 55.17± 7.02s
   33.354 S ±34.1km   67.654 W ±58.0km
   DEPTH =  13.9 ±  4.4 km
 MENDOZA PROVINCE, ARGENTINA        (139)

RTCV    1.66 333 ePd    10 22.40   -1.7
                 (S)    10 41.00
CFA     1.81 344 eP     10 26.00   -0.2
                  S     10 48.10
ZON     2.00 334 eP     10 30.00    1.1
                 eS     10 52.00
RTCB    2.10 332 eP     10 31.00    0.6
                  S     10 55.10
RTLL    2.13 341 ePd    10 31.30    0.4
                 eS     10 56.00
FCH     2.21 270 iPd    10 31.40   -0.8
                 iS     10 55.50
RTBS    2.27 317 eP     10 32.80    0.0
                 (S)    10 57.00
PCH     2.40 263 iPd    10 35.10    0.3
                 iS     11 04.50
SAN     2.52 267 iPd    10 37.00    0.7
TACH    2.76 263 iP     10 40.60    0.8
LNV     3.19 258 eP     10 45.00   -0.8
     S.D. = 1.0  on  11 of  11 obs.
-------------------------------------
*  MAY  07, 1990  21h 15m 29.77± 0.80s
   15.621 N ± 9.2km  147.779 E ±13.3km
   DEPTH =  33.0km  (normol)
    4.6mb (  5 obs.)  4.0Msz (  1 obs.)
 MARIANA ISLANDS REGION             (215)

GUA     3.46 234 eP     16 23.00    0.3
                 eS     17 00.40
GUMO    3.47 235 eP     16 23.30    0.5
PJG     3.47 235 eP     16 22.80    0.0
                 eS     16 58.00
BJI    36.73 318 eP     22 36.50    0.7
        1.3s     10.00nm          4.5mb
WB5    37.66 201 eP     22 43.00   -0.8
WRA    37.73 201 Pc     22 44.20   -0.2
        1.0s      6.00nm          4.4mb
KMI    43.10 290 Pc     23 41.00   12.0X
LZH    44.03 306 eP     23 36.00   -0.4
        2.0s     48.00nm          5.0mb
     Z  20s      0.20um          4.0Msz
                  pP     23 44.00   27kmX
                  i      24 02.50
                  PP     25 01.50
                  PPP    25 26.50
                  PcP    25 48.50
CHTO   46.64 281 eP     23 57.20    0.0
        0.6s      0.98nm          4.0mb
GUN    58.25 293 P      25 23.60   -0.5
        0.6s      9.00nm          5.0mb
DMN    58.94 293 P      25 29.00    0.1
ARV   108.11 327 Pdiff  30 02.70   13.5X
                 eSn    30 16.50
ASS   108.56 327 Pdiff  29 57.50    6.2X
                 eSg    30 07.40
AOU   108.66 326 Pdiff  29 50.20   -1.5
                 eSg    29 56.10
SDI   108.87 325 Pdiff  30 04.80   12.1X
                 eSn    30 18.80
MNS   109.02 326 Pdiffc 29 54.10    0.7
                 eSg    30 00.80
ZOBO  145.50  96 PKP    35 09.00    1.2
                  e     36 33.00
     S.D. = 0.8  on  13 of  17 obs.
-------------------------------------
*  MAY  07, 1990  21h 16m 53.94± 1.35s
   15.533 N ± 9.2km  147.870 E ±22.0km
   DEPTH =  33.0km  (normol)
   4.6mb (  2 obs.)
 MARIANA ISLANDS REGION             (215)

PJG     3.49 237 eP     17 47.50    0.2
                 eS     18 26.20
GUMO    3.49 237 eP     17 48.30    1.0
IIDJ   21.77 338 eP     21 44.90    0.1
CHJJ   21.91 340 P      21 46.40    0.2
MAT    22.62 339 eP     21 54.00    0.8
MTMJ   22.80 339 eP     21 55.30    0.2
NIIJ   23.01 342 eP     21 57.70    0.8
SSE    28.88 307 eP     22 49.20   -2.7
     E  12s      0.20um
BJI    36.85 318 eP     24 00.00   -1.0
        1.5s     24.00nm          4.8mb
WB5    37.61 201 eP     24 07.00   -0.6
WRA    37.68 201 Pc     24 08.10    0.0
        0.7s      4.30nm          4.4mb
TIY    38.28 312 eP     24 15.30    2.1
     Z  12s      0.60um          4.6MszX
XAN    39.57 305 P      24 23.00   -1.0
GTA    48.13 309 eP     25 32.60   -0.4
WMQ    57.95 312 P      26 46.00    0.3
LPB   145.44  97 ePKP   36 49.00   17.4X
     S.D. = 1.2  on  15 of  16 obs.
-------------------------------------
&  MAY  07, 1990  21h 33m 41.32s
   62.317 N          148.331 W
   DEPTH =  31.1km
 CENTRAL ALASKA                      (  1)
      <AGS-P>.

SML     0.51 180 iP     33 51.12   -0.9
                 eS     33 59.68
GHO     0.61 207 iP     33 52.50   -1.2
                 iS     34 01.78
NCA     0.78 114 iP     33 54.78   -1.3
                 eS     34 06.10
PLRM    0.82 208 iP     33 55.02   -1.5
                 eS     34 06.29
HUR     0.90 318 eP     33 56.80   -0.9
                 eS     34 09.25
CUT     0.91 276 iP     33 56.93   -0.9
                 eS     34 09.28
PWA     0.99 228 eP     33 58.22   -0.8
                 eS     34 12.01
TOA     1.03 101 iP     33 58.89   -0.9
RND     1.12 348 iP     33 59.86   -1.1
PMS     1.22 209 iP     34 01.48   -0.9
                 eS     34 18.16
KLU     1.41 125 iP     34 03.67   -1.4
                 iS     34 22.13
SUA     1.43 234 eP     34 05.01   -0.4
MCK     1.45 349 eP     34 05.03   -0.6
PAX     1.48  62 eP     34 05.40   -0.7
                 eS     34 23.76
VZW     1.52 145 eP     34 04.87   -1.8
VLZ     1.52 140 eP     34 04.87   -1.8
SKT     1.54 259 eP     34 05.97   -1.0
GLI     1.56 157 iP     34 05.88   -1.3
                 eS     34 27.20
KTH     1.72 317 eP     34 09.11   -0.4
SLKM    2.03 207 eP     34 13.34   -0.7
CRP     2.10 242 eP     34 14.76   -0.4
SPU     2.11 239 eP     34 14.56   -0.6
HDA     2.19  16 iP     34 15.83   -0.4
NEA     2.29 352 eP     34 17.55   -0.2
GLB     2.31 110 iP     34 16.53   -1.6
CCB     2.35   6 eP     34 16.82   -1.7
RDT     2.62 230 eP     34 21.37   -1.2
GLM     2.71   8 eP     34 22.33   -1.4
TGL     3.06 118 eP     34 28.66   -0.2
BALM    3.13 112 eP     34 28.92   -0.8
CNPM    3.14 208 eP     34 27.61   -2.2
     31 obs. associated
-------------------------------------
   MAY  07, 1990  22h 19m 09.92± 0.49s
   42.216 N ± 5.6km  143.169 E ± 8.8km
   DEPTH =  67.2 ±  4.5 km
   4.5mb ( 17 obs.)
 HOKKAIDO, JAPAN REGION             (224)

HODJ    0.19  27 iP+    19 20.30    0.1
                  S     19 26.80
KUSJ    1.44  52 iPd    19 34.90    0.6
                  S     19 53.10
MRRJ    1.57 278 P      19 36.00   -0.1
                 eS     19 54.60
ASAJ    1.94 349 P      19 41.00   -0.2
NIIJ    5.92 214 P      20 37.60    0.6
KAKJ    6.44 202 P      20 41.90   -2.3
                  S     21 51.90
MAT     6.85 216 eP     20 50.00    0.1
        0.5s     14.08nm          4.8mb
                 (S)    22 10.00
CHJJ    6.96 209 P      20 50.70   -0.7
MTMJ    6.99 218 P      20 53.00    1.1
IIDJ    7.88 213 P      21 04.00   -0.2
                  S     22 32.80
TSRJ    8.71 222 P      21 16.70    1.2
GUN    48.17 272 P      27 45.60   -0.1
        0.4s      7.00nm          5.0mb
DMN    48.90 272 P      27 51.40    0.1
WRA    62.38 189 Pd     29 43.80   16.0X
        0.7s      1.90nm
HFS    69.93 336 eP     30 13.70   -1.7
        0.4s      2.50nm          4.5mb
NB2    69.93 337 P      30 14.20   -1.3
        0.6s      1.20nm          4.0mb
FRB    71.43  14 eP     30 23.00   -1.3
LOR    83.88 333 eP     31 33.10   -0.2
        0.8s      2.70nm          4.3mb
LBF    84.09 333 eP     31 34.30   -0.1
        0.6s      1.80nm          4.3mb
SSF    84.18 334 eP     31 34.80    0.0
        0.8s      2.70nm          4.3mb
GRR    84.36 337 eP     31 35.80    0.2
        0.6s      3.60nm          4.6mb
LPG    84.41 331 eP     31 36.90    0.6
        0.4s      1.70nm          4.4mb
SMF    84.43 333 eP     31 36.20    0.1
        0.6s      1.80nm          4.3mb
AVF    84.47 334 eP     31 36.50    0.3
        0.6s      2.70nm          4.5mb
LPF    84.73 337 eP     31 37.90    0.4
MAF    85.23 334 eP     31 40.90    0.8
        0.4s      1.70nm          4.5mb
LSF    85.54 334 eP     31 41.30   -0.3
        0.6s      1.80nm          4.3mb
LRG    86.31 330 eP     31 45.50    0.1
```

07d 22h

	0.6s	3.60nm	4.7mb		COTA	7.80	147	P	03	32.40	-4.5X		UYO	29.25	340	iPd	07	42.60	-1.9
LMR	86.36	330	eP	31 45.60 -0.1	GGP	8.10	150	eP	03	36.50	-4.6X		OLY	29.60	345	P	07	46.10	-1.5
	0.4s	2.30nm	4.6mb		OUR	8.13	150	eP	03	35.80	-5.6X		BLA	30.23	3	iPd	07	53.20	-0.1
CAF	86.54	333	eP	31 47.60 1.0	OTO	8.15	150	eP	03	37.00	-4.8X		NAV	30.32	3	P	07	53.60	-0.4
	0.6s	3.60nm	4.7mb		CAYA	8.21	145	P	03	38.50	-4.1X		CVL	31.17	6	P	08	00.50	-0.9
LPO	87.04	334	eP	31 49.20 0.2	GECU	8.43	148	eP	03	42.10	-3.6X		SIV	31.19	137	P	07	57.60	-4.3X
	0.4s	2.30nm	4.7mb		VC1	8.60	150	eP	03	46.00	-2.0		TUL	31.29	339	iPc+	08	00.80	-1.8
SIV	146.59	46	PKP	38 45.00 1.1	BOG	8.81	104	iPc	03	52.00	1.2			0.7s		20.00nm			5.1mb X
	S.D. = 0.8	on	31 of	32 obs.	TUNG	9.26	153	eP	03	53.00	-4.0X			Z 21s		33.23um			6.0Msz
					BMG	9.48	88	eP	04	00.50	0.7					eS	13	18.00	
	MAY 08, 1990 00h 01m 40.02± 0.13s				SDV	12.04	80	iPd	04	35.00	0.1					LR	18	00.00	
	6.905 N ± 2.5km 82.622 W ± 2.1km				TPX	12.36	311	iP	04	37.83	-1.2		FKO	31.32	336	eP	08	00.70	-2.1
	DEPTH = 9.6km (geophysicist)				TOV	13.01	76	eP	04	48.20	0.4		NA2	31.39	7	P	08	03.00	-0.4
	6.2mb (55 obs.) 6.3Msz (35 obs.)				SCX	13.83	316	iP	05	02.49	3.9X		MEO	31.40	334	iPc	08	01.80	-1.8
	SOUTH OF PANAMA			(83)	MORO	14.67	73	eP	05	07.60	-2.2		CBN	31.52	8	iPc	08	04.60	0.1
	Ms 6.5 (BRK), MD 6.1 (UPA), 5.9				PLAV	15.25	78	iPd	05	22.80	5.4X					e	08	56.00	
	(HDC), Mo=8.0*10**18 Nm (PPT).				GUAC	15.53	77	iP	05	21.00	0.0					e	09	20.00	
	Felt (V) at Santiago; (IV) at				PSM	15.57	310	iP	05	25.32	3.9X		FVM	31.74	348	iPc	08	05.00	-1.5
	David; (III) at Panamo City and				CAR	15.92	76	iPd	05	25.70	-0.3		RRO	31.88	335	eP	08	07.40	-0.4
	Chitre. Also felt in much of							iS	09	32.00			CCM	31.98	347	iPc	08	07.75	-0.8
	Costa Rica. Depth from broadbond				OLLA	15.95	78	eP	05	23.60	-2.8					epPd	08	10.72	10kmX
	displocement seismograms.				LLAV	16.03	76	eP	05	26.50	-0.9					esP	08	12.05	
	FAULT PLANE SOLUTION: P-Woves				EVV	16.90	314	iP	05	38.57	0.3		ANT	32.68	159	iPc+	08	15.20	0.5
	NP1:Strike=342 Dip=85 Slip= 147				GUAN	17.06	79	eP	05	39.80	-0.8					ePP	09	28.00	
	NP2: 75 57 6				OXX	17.09	308	iP	05	43.07	2.1		SCP	34.01	6	ePd	08	25.70	-0.5
	Principal Axes:				LVVM	18.52	315	iP	05	57.00	-1.5					epPc	08	28.35	9kmX
	T Plg=26 Azm=293				MGP	18.74	52	iP	06	00.50	-0.7					ePP	09	35.34	
	P 19 33				PORP	19.12	53	iP	06	05.80	-0.1		LVNJ	34.48	11	P	08	30.90	0.6
	Comment: The focal mechanism is				IIT	19.44	310	iP	06	12.67	2.6		GMTN	34.66	11	iP	08	31.70	-0.1
	moderately well controlled and				SJG	19.54	54	iP	06	11.00	0.0		PNJ	34.69	11	iP	08	34.50	2.5
	corresponds to strike-slip				ACX	19.54	302	iP	06	12.51	1.5					(pP)	08	41.10	23kmX
	faulting with o lorge reverse				PT10	19.68	163	eP	06	10.50	-2.0					PP	09	58.20	
	component. The preferred fault				CPD	19.69	54	iP	06	12.00	-0.7					PPP	10	11.20	
	plane is not determined.				PT08	19.69	162	eP	06	09.60	-3.4X					eS	14	10.20	
	RADIATED ENERGY				PPM	19.71	309	iP	06	15.70	2.3		TBR	34.91	11	P	08	33.30	-0.6
	No. of sto: 6 Focal mech. F				III	19.98	306	eP	06	17.52	1.6		ALO	35.49	325	iPc+	08	39.20	-0.1
	Energy 5.4±1.4*10**14 Nm				UNM	20.29	309	iP	06	20.50	1.3			0.9s		945.38nm			6.7mb
	MOMENT TENSOR SOLUTION				IIC	20.60	310	iP	06	25.12	2.6			Z 20s		30.14um			6.1Msz
	Dep 6 No. of sto: 15				PT02	20.65	163	eP	06	20.30	-2.5					e	10	06.00	
	Moment Tensor; Scale 10**18 Nm				CRX	20.72	308	iP	06	27.19	3.5X					eS	14	00.00	
	Mrr=-0.68 Mtt=-0.89				TCE	20.96	78	eP	06	28.54	2.6		ANMO	35.50	325	iPc	08	40.40	1.1
	Mff= 1.57 Mrt=-0.79				TPP	21.20	79	eP	06	28.89	0.6			Z 20s		28.30um			6.0Msz
	Mrf= 4.26 Mtf= 2.98				TRN	21.29	78	eP	06	28.31	-0.9		DLA	35.82	1	P	08	39.90	-1.7
	Principol oxes:					0.8s	594.70nm			6.0mb			ELF	36.16	2	P	08	42.60	-1.9
	T Vol= 5.47 Plg=31 Azm=291				GRW	21.31	74	eP	06	35.51	5.9X		HRV	36.78	14	ePd	08	50.43	0.7
	N -0.07 36 175				PT06	21.52	163	iPc	06	32.20	0.6					epP	08	53.08	9kmX
	P -5.40 39 50				PT03	21.84	162	eP	06	34.20	-0.6					ePP	10	12.78	
	Best Double Couple:Mo=5.4*10**18				FCV	21.94	72	eP	06	46.68	10.9X		WNY	38.12	10	P	09	00.00	-1.0
	NP1:Strike= 76 Dip=36 Slip= -8				SVB	21.96	72	eP	06	37.15	1.2		RSNY	38.16	9	iPc	09	00.80	-0.5
	NP2: 172 86 -126				SKI	22.00	60	eP	06	38.34	1.9			2.0s		*******nm			8.1mb X
	CENTROID, MOMENT TENSOR (HRV)				SVV	22.01	71	eP	06	37.52	1.1			Z 22s		85.10um			6.5Msz
	Doto Used: GDSN				NEV	22.07	61	eP	06	37.50	0.5		HBVT	38.23	11	P	09	01.50	-0.5
	L.P.B.: 17S, 44C M.W.: 14S, 35C				MGH	22.21	62	eP	06	39.40	1.0		GLD	38.49	332	P	09	05.50	1.1
	Centroid Locotion:				SLB	22.30	70	eP	06	40.62	1.2			Z 18s		25.76um			6.1Msz
	Origin Time 00:01:48.4 0.2				DPMT	22.42	66	eP	06	42.78	2.3		GOL	38.52	331	iPc	09	04.90	0.1
	Lot 6.99N 0.01 Lon 82.65W 0.02				PAG	22.42	64	eP	06	40.40	-0.2			Z 18s		7.89um			5.6Msz
	Dep 15.0 FIX Half-duration 6.6				BBL	22.42	66	eP	06	40.40	-0.2		BNH	38.83	13	P	09	07.70	0.7
	Moment Tensor; Scale 10**18 Nm				MDN	22.42	66	eP	06	42.03	1.5		GLA	39.61	315	eP	09	13.00	-0.7
	Mrr= 0.56 0.06 Mtt=-1.47 0.05				FDF	22.46	68	eP	06	41.74	0.7		EMM	39.93	17	P	09	17.40	1.3
	Mff= 0.91 0.06 Mrt=-0.36 0.22							S	10	58.00			MIM	39.97	15	P	09	17.50	1.1
	Mrf=-2.18 0.25 Mtf= 5.15 0.05				BIM	22.47	69	eP	06	42.20	1.1		IKP	40.30	314	eP	09	22.90	3.5X
	Principal Axes:				MVM	22.64	69	eP	06	43.65	0.9		RTLL	40.36	161	ePc	09	17.20	-2.6
	T Vol= 5.74 Plg=21 Azm=126				BPA	22.65	62	eP	06	43.91	1.0		RTCB	40.40	162	e(P)	09	17.90	-2.3
	N 0.02 67 335				CRM	22.69	68	eP	06	44.36	1.2		ZON	40.49	162	e(P)	09	20.00	-0.9
	P -5.76 10 220				MGG	22.70	65	eP	06	44.00	0.7		HAY	40.54	316	eP	09	24.60	3.3X
	Best Double Couple:Mo=5.8*10**18				CPB	22.92	60	eP	06	44.97	-0.5		CFA	40.69	161	e(P)	09	19.90	-2.6
	NP1:Strike=265 Dip=68 Slip= 8				SFG	22.93	64	eP	06	46.00	0.4		BAR	40.72	314	eP	09	24.00	1.2
	NP2: 172 83 158				AGX	24.14	310	iP	07	01.50	4.3X					e	10	51.00	
					ARE	25.70	155	iPd	07	11.50	-1.1		TPC	41.04	316	eP	09	26.00	0.5
DVD	1.53	6	iPd	02 07.00 -0.4	HBF	25.98	4	P	07	15.40	0.7		PFO	41.06	315	iPd	09	26.61	0.9
		S		02 35.50	SGS	26.23	4	P	07	17.40	0.4					esPc	09	31.25	
PBC	1.56	345	iPd	02 08.10 0.2	PRM	27.05	0	P	07	24.40	-0.1		IHA	41.06	166	ePKP	09	25.00	-0.4
CTCR	1.98	356	iP	02 14.50 0.3	ZOBO	27.13	148	iPc	07	25.13	-1.0		CPE	41.13	314	eP	09	30.00	3.9X
TIG	2.22	343	iP	02 17.50 -0.1		1.0s	20.00nm			4.8mb X			PLM	41.21	314	iPc	09	28.30	1.3
CDM	2.87	337	iP	02 25.90 -1.2				LR	12	48.00						ePP	11	07.00	
OPS	2.90	329	iP	02 25.90 -1.2	JSC	27.27	2	P	07	26.40	-0.1		MSU	41.27	324	P	09	28.60	1.1
IRZ2	3.30	338	ePc	02 32.60 -0.5	LPB	27.36	148	Pc	07	26.90	-1.1		PEL	41.41	165	iPc	09	24.10	-4.3X
PTCR	3.38	328	iP	02 31.90 -2.2		1.0s	200.00nm			5.8mb				1.1s		63.29nm			5.3mb
HDC2	3.44	334	iPc	02 33.10 -1.8		Z 22s	72.59um			6.2Msz			FCH	41.69	164	eP	09	31.50	0.4
		S		03 11.30				LR	12	08.00			PEC	41.70	315	ePc	09	31.50	0.6
EPA	3.63	328	iPd	02 35.90 -1.7	LHS	27.49	3	P	07	28.40	-0.2		SAN	41.71	165	eP	09	30.00	-0.9
UPA	3.69	56	iPd	02 38.20 -0.2	MZX	28.05	308	iP	07	34.50	0.8		CBM	41.78	15	P	09	30.50	-0.7
CAO	3.71	319	iPc	02 35.80 -2.9X	TKL	28.64	358	P	07	38.50	-0.4		RVR	41.91	315	eP	09	33.00	0.5
JTS	4.08	326	eP	02 41.80 -2.1	GBTN	28.66	357	P	07	39.00	-0.1		RVR	41.91	315	eP	09	36.20	3.7X
JUD	4.34	318	iPc	02 44.70 -3.0X	RSCP	28.69	355	iPd	07	38.00	-1.4		LNV	42.00	166	eP	09	30.00	-3.2X
RIN3	4.73	325	iPc	02 50.80 -2.4		Z 18s	43.29um			6.1Msz			DAU	42.06	327	P	09	35.40	1.4
PSO	7.75	137	eP	03 31.50 -4.6X	CCH	29.11	146	P	07	44.00	0.3		CHCH	42.17	165	eP	09	32.00	-2.6

GSC	42.22	317	eP	09	36.00	0.8
SCI	42.23	313	eP	09	38.90	3.8X
CIS	42.34	313	eP	09	39.80	3.7X
MWC	42.51	315	eP	09	38.00	0.3
MWC	42.51	315	eP	09	41.60	3.9X
PAS	42.55	315	iPc	09	38.57	0.8
			esPd	09	43.87	
			ePcP	11	14.00	
			ePP	11	34.00	
			epPcP	12	00.00	
			eScP	14	30.00	
			ePcS	14	58.00	
			esPcS	16	10.00	
			eScS	19	17.00	
			eLg	21	08.00	
			eSSS	22	00.00	
			eLR	22	43.00	
SBB	42.59	315	eP	09	38.00	-0.2
SBB	42.59	315	eP	09	42.00	3.8X
DUG	42.77	325	P	09	40.80	1.2
BW06	42.90	331	iPc	09	41.20	0.4
CLC	43.05	317	eP	09	42.00	0.1
ISA	43.56	316	eP	09	47.00	0.9
ISA	43.56	316	eP	09	50.10	4.0X
SYP	44.03	314	eP	09	50.00	0.0
TNP	44.09	320	iPc	09	51.20	0.8
RSON	44.77	350	iPd	09	53.90	-1.7
Z	18s	31.64um			6.3Msz	
FRI	45.11	317	iPc	09	57.70	-0.8
KVN	45.21	320	iPc	09	59.80	0.3
			iPP	11	48.00	
PRI	45.33	315	ePc	10	00.70	0.3
LLA	45.76	316	ePc	10	03.40	-0.3
PRS	45.92	315	iPc	10	04.90	0.0
BGMT	45.93	331	iPc	10	06.00	0.9
CMB	46.13	318	iPc	10	06.22	-0.3
			esPd	10	10.53	
			e	10	33.80	
			ePcP	11	12.90	
			ePP	11	55.70	
SAO	46.19	316	ePc	10	07.60	0.6
SXM	46.22	333	iPc	10	08.00	0.7
LCCM	46.29	332	iPc	10	08.50	0.6
LRM	46.55	331	iPc	10	10.40	0.3
MHC	46.61	316	ePc	10	10.90	0.4
GCC	46.70	316	ePc	10	11.00	0.0
BUT	46.75	331	ePc	10	12.10	0.6
HRY	46.92	333	iPc	10	13.00	0.2
PCC	47.20	316	ePc	10	15.00	0.0
BKS	47.29	317	ePc	10	16.00	0.3
	1.6s	1463.00nm			6.8mb	
Z	20s	17.00um			6.0Msz	
N	20s	13.00um				
E	20s	50.00um				
		ePP	12	11.60		
		eS	17	13.60		
BRK	47.31	317	iPc	10	16.00	0.2
Z	20s	26.00um			6.2Msz	
		iS	17	12.00		
		eLR	26	30.00		
ORV	47.68	319	iPc	10	19.20	0.4
MIN	48.17	320	ePc	10	22.10	-0.7
WDC	48.90	320	ePc	10	25.70	-2.5
SES	49.41	336	ePc	10	31.90	-0.1
	1.1s	768.00nm			6.6mb	
SCH	49.44	12	ePd	10	30.80	-1.4
	1.0s	494.00nm			6.5mb	
FHC	49.95	319	ePc	10	36.60	0.3
FFC	50.16	345	iPc	10	36.60	-1.0
	1.2s	536.00nm			6.4mb	
NEW	50.54	331	P	10	39.90	-0.8
Z	20s	32.00um			6.3Msz	
DPW	50.80	330	P	10	42.40	-0.3
LON	51.99	327	iPc	10	51.12	-0.6
		esPd		10	55.43	
PNT	52.47	330	iPc	10	55.20	-0.1
EDM	52.51	337	eP	10	54.00	-1.6
GMW	53.00	327	P	10	58.10	-1.1
PGC	54.01	328	eP	11	06.00	-0.6
	1.8s	1588.00nm			6.7mb	
FRB	57.64	7	eP	11	29.00	-3.5X
YKA	60.21	344	eP	11	42.50	-7.9X
	1.0s	99.30nm			5.9mb	
TBT	64.55	62	eP	12	22.80	2.8
SIT	64.61	331	e(P)	12	16.50	-3.3X
Z	20s	20.00um			6.3Msz	
MBO	64.79	77	iPd	12	25.20	3.5X
GDH	65.12	11	iPd	12	20.40	-2.5
	0.4s	33.90nm			5.9mb	
		i		12	23.00	
		i		21	02.00	
		i		22	16.00	
		i		28	25.00	
CTFE	65.98	62	iP	12	29.80	0.6
		iS		21	26.00	
GGC	66.49	62	iPc	12	36.70	4.2X
RUV	67.81	251	iP	12	42.60	1.7
	1.4s	110.00nm			5.9mb	
CFTV	67.88	62	iPc	12	41.00	-0.3
TPT	67.98	251	iP	12	43.70	1.7
	1.4s	145.00nm			6.0mb	
VAH	68.06	251	iP	12	44.10	1.7
	1.4s	100.00nm			5.8mb	
PMO	68.25	251	iP	12	45.50	1.8
	1.4s	175.00nm			6.1mb	
INK	69.90	342	iPc	12	53.00	0.1
	1.0s	375.00nm			6.5mb	
PPN	70.29	249	eP	12	58.00	1.8
	1.4s	100.00nm			5.8mb	
PAE	70.46	249	eP	13	01.00	3.8X
	1.4s	185.00nm			6.0mb	
REY	71.32	24	iP	13	01.20	-0.4
TOA	71.74	334	ePc	13	04.10	-0.2
MBC	72.16	351	ePd	13	05.70	-0.8
	1.0s	297.00nm			6.3mb	
LIS	72.82	52	iPc	13	11.50	0.4
PMR	72.89	333	eP	13	10.50	-0.5
	1.6s	322.60nm			6.2mb	
Z	18s	19.00um			6.4Msz	
AIA	73.24	172	eP	13	13.40	0.5
COL	73.39	336	iPc	13	13.18	-0.7
		esPd		13	16.99	
FBA	73.39	336	eP	13	13.20	-0.7
AKU	73.41	23	iP	13	13.90	0.0
	1.8s	581.82nm			6.3mb	
Z	20s	23.83um			6.5Msz	
		i		16	02.70	
KDC	73.50	328	eP	13	13.70	-0.9
STS	73.67	47	iPc	13	15.70	-0.2
VAL	73.75	38	eP	13	16.00	-0.2
		S		22	50.00	
KIP	73.94	290	eP	13	18.59	0.7
EMON	74.61	47	iPd	13	20.90	-0.5
EVAL	74.63	53	iP+	13	21.80	0.1
CNIL	75.13	54	eP	13	28.00	3.5X
EPLA	75.29	51	iPd	13	25.20	-0.3
PLAT	75.36	55	eP	13	29.00	3.1X
MOMI	75.40	54	eP	13	28.00	1.9
OJEN	75.54	55	eP	13	31.00	4.0X
EJIF	75.60	54	iPc	13	28.40	1.1
SVW	75.80	331	ePc	13	26.50	-1.4
EPRU	75.81	54	eP	13	30.00	1.5
EHOR	75.83	53	iPc	13	28.50	0.0
IMA	76.08	337	ePc	13	28.80	-0.8
	1.8s	523.80nm			6.3mb	
LKO	76.15	82	P	13	30.20	-0.5
	0.9s	117.00nm			6.0mb	
ECP	76.15	38	eP	13	29.20	-0.8
	1.7s	1170.00nm			6.7mb	
TTA	76.35	333	ePc	13	29.70	-1.3
MAL	76.46	54	iPd	13	33.00	0.9
		iS		23	22.00	
AAPN	76.71	53	iPd	13	33.86	0.2
ALOJ	76.72	54	iPd	13	33.98	0.3
ATEJ	76.79	54	iPd	13	34.63	0.5
GUD	76.79	50	iPc	13	34.40	0.4
TOL	76.84	51	ePd	13	34.54	0.4
		epPc		13	36.86	7kmX
		ePP		16	26.00	
		ePPP		18	22.00	
		iS		23	27.00	
		isS		23	58.00	
		iPS		24	18.00	
		iSS		28	05.00	
ACHM	76.94	54	iPd	13	35.52	0.7
EBAN	77.00	53	eP	13	35.30	0.2
ASMO	77.01	53	iPd	13	35.78	0.5
APHE	77.05	54	iPd	13	36.03	0.5
AFC	77.17	53	iPd	13	36.90	0.7
SDN	77.46	325	eP	13	37.40	0.2
DAG	77.47	12	iPd	13	34.90	-2.0
	1.2s	239.06nm			6.2mb	
Z	21s	28.67um			6.6Msz	
N	19s	26.39um				
E	15s	24.00um				
EVIA	78.01	52	iPd	13	40.70	-0.1
ECRI	78.09	48	iPc	13	41.80	0.8
ENIJ	78.23	54	eP	13	40.60	-1.3
ESK	78.33	35	eP	13	40.42	-1.6
			esPc	13	44.22	
EKA	78.36	35	Pc	13	38.80	-3.4X
	1.4s	195.20nm			6.0mb	
JNW	78.39	19	eP	13	39.30	-2.8
ETOR	78.39	50	eP	13	42.90	0.1
BRW	78.43	342	eP	13	43.50	1.2
EALH	78.86	53	eP	13	45.70	0.4
BOH	79.20	40	P	13	47.41	0.2
ECHE	79.21	51	iPc	13	47.80	0.5
ELYF	79.21	47	P	13	46.59	-0.6
LPF	79.28	43	eP	13	47.30	0.0
MADF	79.34	47	P	13	47.58	-0.3
ISSF	79.36	48	P	13	48.45	0.4
GRR	79.41	42	eP	13	48.00	0.0
ATE	79.42	48	P	13	48.19	-0.1
LHE	79.48	48	P	13	48.91	0.2
ESCF	79.52	48	P	13	48.80	0.0
OGE	79.59	47	P	13	49.17	0.0
ACU	79.65	52	eP	13	50.20	0.5
FLN	79.67	42	eP	13	49.40	0.0
	1.2s	371.90nm			6.3mb	
MFF	79.86	44	eP	13	50.50	0.0
LDF	79.90	42	eP	13	40.60	-10.1X
EPF	80.19	48	eP	13	52.80	0.4
	1.4s	612.65nm			6.4mb	
EROO	80.26	50	iPc	13	53.40	0.6
EBR	80.32	50	eP	13	54.00	0.9
		eS		24	04.00	
LFF	80.47	46	eP	13	53.80	0.0
LPO	80.79	46	eP	13	55.30	-0.2
LSF	81.01	44	eP	13	56.40	-0.3
RJF	81.02	45	eP	13	56.50	-0.2
CAF	81.41	46	eP	13	58.80	0.0
TCF	81.49	44	eP	13	59.00	-0.2
KUK	81.61	85	eP	13	58.00	-2.4
WEGH	81.72	85	eP	14	02.00	1.0
MAF	81.73	44	eP	14	00.40	0.0
KOGH	81.75	85	eP	14	02.00	0.8
LEGH	81.86	85	eP	14	02.00	0.3
BGF	81.92	44	eP	14	01.20	-0.2
SHGH	81.96	85	eP	14	04.00	1.8
TEGH	82.04	85	eP	14	02.00	-0.6
PYM	82.05	45	P	14	01.96	-0.2
GRC	82.06	43	P	14	01.52	-0.5
ETER	82.06	48	e(P)	14	02.20	0.0
AGO	82.13	45	P	14	01.93	-0.6
ESEL	82.19	51	eP	14	03.30	0.4
LBL	82.24	45	P	14	03.32	0.3
AVF	82.26	44	eP	14	02.40	-0.7
SSF	82.36	43	eP	14	03.00	-0.7
LOR	82.59	43	eP	14	04.20	-0.7
	1.6s	340.10nm			6.2mb	
SMF	82.60	44	eP	14	04.40	-0.6
LBF	82.68	44	eP	14	04.50	-0.9
SNF	82.75	40	iP	14	05.39	-0.2
UCC	82.79	40	iP-	14	05.00	-0.8
			i	14	09.00	
			PP	17	16.00	
			S	24	26.00	
ASK	82.96	30	eP	14	06.80	0.3
DOU	82.97	40	iPc-	14	06.70	0.0
			PP	17	20.00	
			S	24	28.00	
			e	25	21.00	
BER	83.04	30	iPc	14	06.80	0.0
DBN	83.25	38	eP-	14	08.00	-0.1
Z	20s	10.50um			6.2Msz	
			ePP	17	20.00	
			iS	24	32.00	
			eSP	25	16.00	
			eSS	30	00.00	
			eSSS	33	04.00	
HYA	83.43	29	eP	14	09.10	0.3
ENN	83.79	40	iPd	14	10.60	-0.3
	1.0s	91.00nm			6.0mb	
			ePcP	14	14.00	
			e	14	20.50	
			e	14	26.50	
			ePP	17	26.00	
BLS1	83.83	31	iPd	14	11.10	0.0
MEM	83.85	40	iPc	14	11.24	0.1
VITF	83.98	42	P	14	11.48	-0.4

08d 00h

JCK	84.09	39	ePd	14	12.20	-0.2	SAL	87.32	45	P	14	28.10	-0.4	LJU	90.03	44	ePd	14	41.00	-0.4
WIT	84.12	38	eP	14	13.50	1.0	MOX	87.40	39	iPc	14	29.00	0.1				eS	25	15.00	
			e	14	23.00			2.0s		12.80nm			4.8mb X	RIY	90.04	44	eP	14	41.10	-0.4
			ePP	17	26.00			Z 24s		14.70um			6.3MszX	CVT	90.09	52	P	14	45.60	3.7X
KBS	84.15	11	iPc	14	13.50	1.2		N 24s		4.40um				KEV	90.24	19	iP	14	41.00	-0.9
HAU	84.23	42	eP	14	12.90	-0.4		E 24s		12.20um					1.0s		84.00nm			5.9mb
	1.8s	552	.40nm			6.5mb	OGA	87.50	43	iPc	14	29.60	-0.1				i	17	51.00	
WTS	84.26	38	ePd	14	13.00	-0.2		1.3s		74.00nm			5.8mb				e	18	20.00	
	1.0s	176	.00nm			6.2mb	FUR	87.51	42	iPc	14	30.00	0.6				e	24	24.00	
			ePcP	14	17.00			1.5s		112.00nm			5.9mb				e	26	48.00	
			e	14	23.00			Z 17s		8.00um			6.2MszX				e	28	28.00	
			e	14	29.50					i	14	33.80					e	31	40.00	
			ePP	17	35.00		PII	87.55	46	P	14	29.20	-0.5	SDI	90.24	48	P	14	42.00	-0.6
PLH	84.34	39	ePd	14	13.40	-0.2	BDI	87.56	46	P	14	28.70	-1.2	KSP	90.30	39	iPc	14	43.00	0.4
BSF	84.54	43	P	14	14.13	-0.8	TRO	87.58	20	iP	14	29.20	-0.1				ic	14	46.00	
LRG	84.57	47	eP	14	15.10	0.1	HOF	87.61	40	iPc	14	30.00	0.1				e	18	15.50	
	1.6s	485	.85nm			6.5mb	MME	87.62	46	P	14	29.20	-1.1	RFI	90.43	48	P	14	43.97	0.6
RUP	84.58	41	eP	14	15.04	0.0	CTI	88.04	44	P	14	31.50	-0.7		2.2s		757.20nm			6.6mb
LOMF	84.60	43	P	14	14.73	-0.5	BRN	88.13	38	eP	14	33.00	0.8	VBY	90.62	44	ePc	14	45.10	0.9
BNI	84.67	45	P	14	16.20	0.5	CLL	88.17	39	iPd	14	32.00	-0.5	DUI	90.72	48	P	14	45.10	0.3
LPL	84.68	45	eP	14	16.40	0.6		1.9s		590.00nm			6.6mb	MCT	90.76	52	P	14	47.20	2.0
LMR	84.68	47	eP	14	15.50	-0.1		Z 20s		8.50um			6.2Msz	VKA	90.82	41	eP	14	44.00	-1.0
LPG	84.69	45	eP	14	16.50	0.5				eSKS	25	05.00			4.8s	1684	.00nm			6.6mb X
	1.4s	238	.25nm			6.2mb				eS	25	19.00			Z 29s		6.50um			5.9MszX
RRL	84.76	46	P	14	17.06	0.8	MAO	88.17	48	P	14	36.50	3.8X				ic	14	45.50	
ECH	84.76	42	P	14	15.64	-0.3	PGD	88.39	46	P	14	32.60	-1.4				i	14	48.20	
FRF	84.77	47	eP	14	15.90	-0.1	WET	88.42	41	iPd	14	33.90	0.1				i	14	57.00	
MOF	84.77	43	P	14	15.06	-1.0		1.3s		317.00nm			6.5mb				i	17	33.10	
EMS	84.77	44	ePd	14	16.40	0.2		Z 17s		9.00um			6.3MszX				i	18	21.10	
CDF	84.82	42	P	14	15.52	-0.8				iS	25	10.00					i	18	24.00	
WLS	84.87	42	P	14	15.92	-0.6	SFI	88.48	46	P	14	33.80	-0.3				e	19	58.00	
ABH	84.88	41	eP	14	16.40	-0.1	BHG	88.63	42	eP	14	35.00	0.1				e	20	10.00	
CALN	84.93	47	P	14	16.73	-0.3		1.4s		173.00nm			6.2mb				LR	46	23.00	
LSD	84.98	45	P	14	18.39	1.0	FVI	88.74	43	P	14	34.60	-0.7	SOD	90.95	21	iP	14	43.20	-2.1
GWF	85.01	41	P	14	17.25	0.1	BRG	88.83	39	iPd	14	35.50	-0.2				i	17	58.00	
BBS	85.06	43	P	14	16.91	-0.5		1.8s		350.00nm			6.3mb				e	18	25.00	
RSP	85.07	45	P	14	18.39	0.7		Z 18s		3.00um			5.8Msz	PTJ	91.03	44	eP	14	46.60	0.4
DIX	85.10	44	ePd	14	18.60	0.6		N 18s		2.00um				ZAG	91.06	44	eP	14	46.50	0.3
DOI	85.12	46	P	14	18.20	0.3		E 18s		6.50um				SOP	91.09	42	iPc	14	48.30	2.0
STR	85.13	42	P	14	17.70	0.0				i	14	38.60		BSS	91.13	49	P	14	49.70	3.1X
TOUF	85.16	46	P	14	18.41	0.2				i	14	46.40		ZST	91.34	41	eP	14	48.30	0.9
STV	85.20	46	P	14	18.39	0.1				i	18	14.40					e	17	22.00	
AURF	85.23	47	P	14	18.34	-0.1				iSKS	25	08.00					e	18	25.40	
ENR	85.27	46	P	14	18.29	-0.3				iS	25	28.00					e	29	19.60	
REVF	85.27	47	P	14	18.59	0.0	KHC	88.88	41	iPd	14	35.80	-0.2	SGO	91.55	49	P	14	48.50	0.0
KTD	85.28	41	eP	14	18.00	-0.5		1.5s		232.00nm			6.2mb	LPI	91.63	51	P	14	52.04	3.0X
RGS	85.29	27	iPc	14	20.20	2.0		Z 22s		11.30um			6.2Msz	MGR	91.81	49	P	14	49.50	-0.3
AUTN	85.29	46	P	14	18.77	-0.2		N 22s		2.80um				MEU	91.87	52	P	14	53.40	3.2X
SBF	85.31	47	eP	14	18.60	-0.2		E 22s		9.50um				PZI	91.87	53	P	14	51.90	1.7
FEL	85.36	42	eP	14	18.24	-0.8				e	14	45.80			2.2s	643	.60nm			6.6mb
TNS	85.43	40	ePd	14	19.10	-0.2				S	25	12.00		HVAR	91.90	46	eP	14	49.60	-0.5
MMK	85.49	44	ePd	14	20.70	0.8	RSM	88.91	46	P	14	36.50	0.4	SRO	92.22	41	iP	14	51.80	0.3
KRW	85.49	41	eP	14	19.54	0.1	KBA	89.05	43	eP	14	36.50	-0.6				e	18	33.30	
ORX	85.54	45	P	14	20.01	0.0		1.6s		412.00nm			6.4mb				e	29	12.60	
ROB	85.58	46	P	14	19.83	-0.3				ic	14	37.10		SUF	92.36	26	iP	14	51.70	-0.1
ZLA	85.65	43	ePd	14	20.30	-0.1				i	14	47.00			1.0s		86.40nm			6.1mb
SLE	85.69	43	ePd	14	20.10	-0.5				i	14	51.20		NUR	92.41	28	iP	14	51.00	-1.1
TOD	85.72	41	eP	14	19.96	-0.7				i	18	08.30			1.0s		54.00nm			5.9mb
FIN	85.83	46	P	14	20.65	-0.7				i	18	16.20					e	17	20.00	
CKI	85.87	46	P	14	20.90	-0.6				i	19	53.10					i	18	39.00	
NB2	85.87	29	P	14	20.60	-0.6				e	25	17.00					e	24	44.00	
ILT	85.94	338	iPc	14	22.00	0.6				e	25	31.00					e	25	24.00	
			iS	24	58.00		UPP	89.20	30	iP	14	36.20	-1.0				e	27	10.00	
PCP	86.04	46	P	14	22.29	-0.1				i	18	13.80		TDS	92.49	50	P	14	52.60	-0.3
VAI	86.07	44	P	14	21.90	-0.5				i	25	05.00		ORI	92.50	49	P	14	53.20	0.3
TMA	86.11	44	ePd	14	22.50	-0.4	PRU	89.35	40	Pd	14	38.00	-0.2	BAI	92.60	48	P	14	54.00	0.7
LLS	86.12	43	ePd	14	23.40	0.4		Z 24s		18.90um			6.4MszX	GRI	92.71	51	P	14	53.20	-0.8
SAX	86.32	43	ePd	14	24.40	0.4		N 20s		3.40um					1.5s	179	.50nm			6.3mb
VDL	86.49	44	ePd	14	24.90	0.1		E 24s		16.10um				KRA	92.74	39	eP	14	54.00	0.2
PGF	86.58	48	P	14	24.69	-0.5				e	14	42.50			1.0s		93.00nm			6.2mb
BOB	86.66	45	P	14	25.40	-0.1				PP	18	11.50			Z 22s		9.80um			6.2Msz
OSS	86.93	44	ePd	14	27.20	0.3				SKS	25	08.00			E 22s		8.50um			
ADK	87.13	322	ePd	14	27.90	0.4				SS	31	42.00					e	14	59.00	
COP	87.20	34	iPc	14	28.30	0.6	KMR	89.41	42	iP-	14	37.40	-1.1				e	18	35.00	
	1.1s	394	.94nm			6.6mb				iPP	18	11.40					eS	25	16.00	
			i	14	31.50					eS	25	18.00		BRT	92.90	48	P	14	54.50	-0.3
			i	14	33.00		RDP	89.42	48	P	14	43.40	4.6X	SPC	93.15	40	eP	14	56.90	0.9
HFS	87.21	30	ePKP	14	26.60	-1.1	TRI	89.55	44	ePc	14	39.30	0.1				e	18	34.80	
	1.1s	159	.90nm			6.2mb				ePP	18	16.00		PSZ	93.23	41	iP	14	57.30	1.0
	Z 21s		11.47um			6.3Msz				eS	25	36.00		LCI	93.57	49	P	14	58.80	1.0
			LR	47	08.00					eSS	31	32.00		BEO	94.36	44	eP	15	03.50	2.1
GRF	87.27	40	ePd	14	28.40	0.1				eSSS	35	22.00		UZH	94.60	40	iPd	15	05.00	2.6
	1.1s	138	.00nm			6.1mb				eLR	44	10.00		TIM	94.65	43	iPd	15	07.00	4.3X
	Z 22s		16.00um			6.4Msz	VOY	89.59	44	eP	14	39.20	-0.3	OHR	95.50	48	iP	15	07.80	1.0
			e	14	31.90		LVI	89.69	52	P	14	43.20	3.2X		1.8s	369	.00nm			6.5mb
			e	14	52.90		AQU	89.83	47	P	14	42.40	1.7				i	15	19.70	
			eSd	25	11.30		CEY	90.00	44	ePd	14	41.50	0.1				e	18	20.20	

			eS	25	45.00	
SKO	95.76	47	ePc	15	08.30	0.4
	1.5s	152.00nm				6.3mb
			i	15	19.50	
			i	19	02.20	
			i	19	12.10	
FNA	96.01	48	ePc	15	09.40	0.2
GRG	96.72	47	ePd	15	12.90	0.6
SPA	96.86	180	eP	15	11.40	-1.1
	1.0s	29.50nm				5.8mb
	Z 20s	5.63um				6.0Msz
VTS	96.86	46	iP	15	14.00	0.9
KKB	96.97	46	eP	15	14.00	0.6
LIT	97.00	48	ePd	15	10.20	-3.4X
KNT	97.02	47	eP	15	13.10	-0.6
AGG	97.16	49	ePc	15	14.70	0.4
THE	97.21	48	eP	15	14.10	-0.4
			e	15	17.20	
			e	25	52.00	
			e	26	41.20	
			e	28	04.80	
CMP	97.36	43	ePc	15	17.00	1.9
SOH	97.45	47	ePc	15	15.90	0.3
MMB	97.51	47	eP	15	17.00	1.1
SRS	97.54	47	iPc	15	16.00	0.0
MLR	97.90	42	ePd	15	30.00	12.3X
PAIG	97.93	48	ePc	15	17.80	0.1
OUR	98.04	48	eP	15	16.60	-1.6
RZN	98.19	46	iP	15	19.00	-0.1
BUC	98.34	43	eP	15	22.00	2.5
CLI	98.45	41	eP	15	37.50	17.5X
KDZ	98.70	46	eP	15	22.00	0.8
TIK	98.92	350	eP	15	21.00	-0.6
			eS	26	47.00	
ALN	99.38	47	eP	15	21.10	-3.2X
OBN	100.42	31	ePdiff	15	28.00	-0.6
	Z 20s	9.90um				6.3Msz
			eSKS	26	08.00	
BCAO	100.51	84	ePdiff	15	35.10	5.1X
	0.6s	3.00nm				5.0mb X
			id	18	34.50	
			ic	19	39.20	
PET	101.14	327	ePdiff	15	34.00	2.2X
			eS	27	20.00	
ITU	101.45	46	ePdiff	15	36.00	2.5X
KHL	102.75	48	ePdiff	15	40.00	0.5
SIM	103.48	41	ePdiff	15	46.00	3.5X
			eSKS	29	04.00	
ELL	103.56	50	ePdiff	15	42.00	-1.2
BBTK	104.56	46	iPdiff	15	54.00	6.4X
BFS	110.39	116	ePKP	20	11.00	-4.2X
KSR	110.53	115	ePKP	20	18.00	2.5X
LWI	111.53	90	ePKPd	19	56.70	-21.1X
SLR	111.78	115	iPKPc	20	15.50	-2.3X
	1.0s	12.00nm				
	Z 22s	24.81um				6.8Msz
BUL	112.26	109	iPKPd	20	18.20	-0.7
YSS	112.98	328	ePKP	20	04.00	-15.2X
KRI	113.22	105	iPKPd	20	16.20	-4.6X
TAB	114.79	43	e(PKP)	20	06.00	-17.3X
			e	21	22.00	
NAI	119.36	88	iPKPd	20	40.00	7.2X
MDJ	121.09	334	ePKP	20	36.50	1.7
	8.0s	2000.00nm				
	Z 40s	13.50um				6.3MszX
	E 18s	3.90um				
			ePP	22	08.00	
			SKKS	28	56.00	
MAT	122.29	321	(PKP)	20	38.00	0.6
	Z 20s	4.26um				6.1Msz
CN2	123.50	336	ePKP	20	40.00	0.5
	5.0s	1400.00nm				
	Z 22s	13.00um				6.5Msz
	N 19s	7.00um				
	E 19s	2.50um				
BRS	123.78	242	ePKP	20	43.00	2.4X
			e	26	21.00	
			eSKS	32	45.00	
MAIO	124.24	37	ePKP	20	43.00	1.7
			eS	32	48.00	
SNY	125.91	336	PKPd	20	46.00	1.8
	Z 23s	8.40um				6.3MszX
	N 25s	10.00um				
	E 22s	9.40um				
FRU	126.34	21	ePKP	20	47.00	1.8
RMO	127.47	242	ePKP	20	48.00	0.3
GUMO	128.64	293	ePKP	20	36.00	-14.2X
WMQ	128.76	9	PKP	20	49.00	-0.8
	8.0s	1200.00nm				
	N 19s	10.80um				
			SKS	28	00.00	
			SKKS	29	46.00	
BFD	129.12	227	ePKP	20	53.00	2.5X
DL2	129.17	336	ePKP	20	55.00	4.5X
	8.0s	2500.00nm				
	Z 20s	5.40um				6.2Msz
	N 22s	6.50um				
	E 20s	8.50um				
			PP	23	00.00	
			SS	40	23.00	
KSH	129.80	22	PKP	20	53.50	1.6
	Z 22s	16.30um				6.7Msz
	E 20s	11.40um				
BJI	130.17	341	ePKP	20	52.00	-0.4
	Z 18s	12.30um				6.6Msz
	N 18s	6.70um				
			SKKS	30	00.00	
HHC	130.72	346	ePKP	20	54.20	0.6
	Z 24s	14.20um				6.6MszX
	N 19s	5.60um				
	E 18s	5.70um				
			PP	23	07.00	
CTA	130.88	249	iPKPc	20	54.00	-0.4
	1.1s	29.11nm				
			e	23	07.00	
			e	24	07.00	
			i	40	44.00	
BTO	131.32	347	PKP	20	53.00	-1.8
	N 17s	9.00um				
	E 17s	2.30um				
TIA	133.27	338	ePKP	20	56.50	-2.0
	Z 45s	8.40um				6.1MszX
	N 20s	6.50um				
	E 17s	4.60um				
TIY	133.44	344	PKPd	21	01.60	2.8X
	8.0s	2500.00nm				
	Z 22s	13.30um				6.6Msz
	N 20s	17.30um				
			PP	23	26.00	
			SKS	28	07.00	
SSE	135.88	330	PKPd	21	06.00	2.5X
	6.0s	780.00nm				
	Z 20s	9.00um				6.5Msz
	N 18s	7.30um				
			PKS	24	36.00	
NJ2	136.18	333	ePKP	21	01.00	-3.1X
	5.5s	1500.00nm				
	Z 23s	3.20um				6.0MszX
	N 16s	3.20um				
	E 16s	1.70um				
			PP	23	43.00	
			SS	41	52.00	
LZH	136.81	352	ePKP	21	01.50	-3.9X
	Z 22s	12.00um				6.6Msz
	N 20s	10.60um				
	E 19s	5.20um				
			PKS	24	37.00	
XAN	137.84	346	PKP	21	05.00	-2.3X
WHN	139.36	337	PKP	21	04.50	-5.5X
	7.0s	2300.00nm				
	Z 25s	5.60um				6.2MszX
	N 20s	5.20um				
	E 22s	11.90um				
			PP	24	02.00	
NDI	139.63	28	PKP	21	12.00	1.4
			ePP	24	06.00	
			PKS	24	48.00	
			PS	34	14.00	
			PPS	36	26.00	
ANP	140.39	324	ePKP	21	04.00	-8.2X
WB5	141.88	247	ePKP	21	10.20	-4.7X
			e	24	37.60	
			e	28	27.80	
WRA	141.89	246	PKPd	21	08.70	-6.2X
	1.0s	23.90nm				
CD2	141.91	351	ePKP	21	10.10	-4.6X
	Z 24s	8.40um				6.4MszX
	E 25s	11.80um				
QZH	142.20	328	ePKP	21	10.00	-5.3X
	Z 24s	4.70um				6.2MszX
	N 18s	4.00um				
	E 18s	2.80um				
			PP	24	20.00	
			SKKS	31	11.00	
			SS	42	54.00	
LSA	143.12	9	PKP	21	15.60	-1.8
GUN	143.65	17	PKP	21	00.10	-18.1X
DMN	143.69	19	PKP	21	14.20	-3.9X
GYA	145.63	345	iPKPc	21	20.00	-1.3
	Z 24s	5.40um				6.2MszX
	N 22s	5.70um				
	E 22s	5.10um				
			PP	24	42.00	
CVP	145.64	316	ePKP	21	22.50	1.2
POO	145.68	42	iPKPd	21	20.00	-1.4
PIP	146.02	318	ePKPd	21	23.00	1.1
WARB	146.17	232	ePKP	21	20.00	-2.1X
	1.0s	86.00nm				
MTN	146.25	257	ePKP	21	20.00	-2.4X
			e	21	23.00	
GZH	146.35	333	iPKPc	21	22.50	0.2
	8.0s	3700.00nm				
	Z 20s	4.90um				6.3Msz
	N 20s	8.80um				
	E 18s	3.10um				
			PP	24	46.50	
HKC	146.63	331	ePKP	21	24.20	1.4
MCO	147.08	332	ePKP	21	27.40	3.8X
COOL	147.37	220	ePKP	21	25.20	1.4
BAG	147.38	315	ePKP+	21	25.00	0.6
RKG	147.44	211	ePKP	21	22.00	-1.8
KMI	147.74	351	ePKPc	21	24.54	-0.3
	Z 26s	11.10um				6.5MszX
	N 24s	11.90um				
	E 22s	8.40um				
			PP	26	17.00	
KNA	148.03	251	ePKP	21	28.00	2.8X
NWAO	148.21	213	ePKP	21	26.00	0.9
	0.7s	64.00nm				
QCP	148.21	312	iPKP	21	30.50	5.0X
DAV	148.63	296	ePKP	21	32.00	5.7X
KLB	148.92	215	ePKP	21	26.00	-0.3
	0.7s	71.00nm				
PGP	149.03	311	iPKPd	21	33.00	6.2X
	1.0s	97.00nm				
BAL	150.26	215	ePKP	21	30.00	1.7
QIZ	151.45	335	PKP	21	32.00	1.6
	N 21s	13.10um				
			e	21	44.00	
			PP	25	13.50	
			SKKS	32	05.00	
GBA	151.59	44	PKPd	21	30.80	0.1
	0.8s	13.70nm				
PPR	153.04	308	ePKPc	21	46.00	13.2X
KOD	153.87	50	ePKP	21	40.00	5.7X
CHG	154.40	357	ePKP	21	34.00	-0.6
CHTO	154.40	357	ePKPc	21	33.83	-0.7
			ePP	25	30.11	
KKM	157.22	304	ePKP	21	43.00	4.4X
NST	157.40	353	ePKP	21	49.00	10.5X
SNG	165.64	347	ePKP	21	48.20	1.2
IPM	168.03	342	ePKPd	21	51.10	2.3X
			e	23	00.60	

S.D. = 1.0 on 462 of 557 obs.

? MAY 08, 1990 00h 16m 11.30± 2.74s
56.073 N ±54.8km 162.044 E ±22.6km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

YKA	40.23	46	eP	23	46.50	0.6
	0.5s	4.90nm				4.5mb
KEV	50.35	341	eP	25	06.00	-0.3
SOD	52.49	340	eP	25	23.00	0.5
KVN	53.39	73	eP	25	29.80	0.0
TNP	54.56	73	iP	25	38.00	-0.2
SUF	56.68	337	iP	25	56.60	3.4X
	0.5s	9.50nm				5.1mb
NUR	58.98	337	iP	26	09.20	-0.1
	0.6s	10.40nm				5.1mb
NB2	60.99	344	P	26	22.60	0.6
	0.7s	2.40nm				4.4mb
HFS	61.45	343	ePKP	26	24.80	1.5
	0.8s	4.40nm				4.6mb
EKA	68.30	351	P	27	19.00	0.4X
	0.8s	3.40nm				4.5mb
CLL	69.95	340	eP	27	21.00	0.3
PRU	70.91	338	eP	27	26.00	0.6
KHC	71.92	339	P	27	34.00	1.3
KBA	73.92	338	eP	27	45.50	0.9

08d 00h

	0.8s	3.80nm		4.4mb			1.0s	30.00nm		4.7mb		KGM	66.97	280	ePd	50	35.00	0.6
SPA	145.89	180	iPKPd	35	43.00	-3.7X			i	44	15.00			GZH	67.06	305	eP	50	36.20	1.4
	1.0s	12.00nm							eS	47	12.00						S	59	11.00	
	S.D. = 0.8 on 12 of 15 obs.								iScP	51	39.00			QIZ	67.89	299	eP	50	40.40	0.4
MAY 08, 1990 01h 22m 19.23± 0.52s							COO	20.26	225	eP	44	24.00	0.8	NJ2	68.15	316	Pc	50	41.50	0.2
30.112 N ±10.8km 94.987 E ± 5.9km							RMO	20.57	239	iPc	44	27.80	1.5	IPM	69.99	281	ePc	50	54.50	1.6
DEPTH = 33.0km (normal)								0.9s	214.00nm			5.7mb			1.0s	54.70nm			5.2mb	
4.3mb (10 obs.)							CTA	21.30	258	iPc	44	34.00	0.6	WHN	70.37	312	Pc	50	55.20	0.4
TIBET					(306)			0.8s	67.91nm			5.2mb		DL2	70.85	323	eP	50	58.50	0.9
										i	45	10.00			0.7s	160.00nm			5.9mb	
										iS	48	18.00		MDJ	70.87	332	Pc	50	58.00	0.4
LSA	3.36	264	Pg	23	18.50	7.4X	WLZ	21.63	165	P	44	38.60	2.1		1.0s	100.00nm			5.5mb	
			Sg	24	00.60		PMG	22.11	287	eP	44	42.50	1.3		N 18s	1.40um				
SHL	5.30	212	eP	23	05.50	-32.8X	HBZ	22.21	159	P	44	43.40	1.3				iS	59	58.00	
			eS	34	36.80		TAZ	22.24	163	P	44	45.60	3.2X	SNY	71.78	326	Pc	51	03.00	0.0
CD2	7.61	82	ePn	24	11.00	0.4	PUZ	22.63	160	P	44	46.70	0.5	TIA	71.85	318	eP	51	03.30	-0.3
			Pg	24	41.60		NGZ	22.90	166	P	44	51.00	2.0	CN2	72.23	329	iPc	51	06.00	0.4
GUN	8.27	257	P	24	18.00	-2.2	CNZ	22.91	166	P	44	51.20	2.2		1.0s	100.00nm			5.5mb	
KMI	8.48	124	eP	24	35.00	12.0X	MNG	24.25	167	P	45	01.20	-0.3	SPA	73.05	180	iPc	51	11.00	0.6
DMN	9.02	256	P	24	28.40	-2.0		0.4s	107.00nm			5.8mb			1.0s	81.00nm			5.4mb	
LZH	9.52	49	eP	24	37.50	0.3	PGZ	24.43	166	P	45	02.40	-0.7		Z 20s	1.71um			5.3Msz	
			pP	24	43.50		TCW	24.59	169	P	45	04.90	0.3				i	51	47.10	
GYA	10.92	107	P	25	03.60	7.3X	MRW	24.68	169	P	45	05.00	-0.4	GYA	74.00	305	iPc	51	17.20	0.7
CHTO	11.81	161	e(P)	25	10.00	1.6	MTW	24.77	167	P	45	05.20	-1.1				S	00	35.00	
XAN	12.45	68	P	25	15.50	-1.4	THZ	24.92	172	P	45	08.00	0.3	LOE	74.12	294	eP	51	17.20	0.1
BTO	16.10	45	eP	26	08.40	3.7X	CNB	24.93	219	eP	45	09.00	1.1	BJI	74.80	321	Pc	51	21.50	0.9
TIY	16.33	58	eP	26	10.80	3.1X				e	45	47.00			1.0s	54.00nm			5.2mb	
WHN	16.73	84	eP	26	11.00	-1.6	BWA	24.95	222	eP	45	06.70	-1.3	NST	74.84	292	eP	51	25.00	3.8X
HHC	17.21	47	eP	26	16.60	-2.1				i	45	48.50		TIY	75.76	317	eP	51	27.00	0.9
TIA	19.49	66	eP	26	46.30	-0.1				eScP	51	56.80			Z 20s	1.20um			5.2Msz	
BJI	19.93	54	eP	26	52.00	1.0	MOW	24.97	168	P	45	07.30	-0.8				pP	52	20.00	223kmX
	1.5s	21.00nm			4.2mb		CAN	25.16	220	eP	45	10.80	0.9				S	00	53.50	
MLR	55.05	307	eP	32	04.00	13.9X				e	45	52.10					sS	02	26.50	
			e	59	06.00					eScP	51	55.70		XAN	76.12	312	iPc	51	29.20	1.0
NB2	61.20	326	P	32	33.00	0.2	KHZ	25.65	171	eP	45	13.10	-1.1	KMI	76.53	302	Pc	51	32.50	1.6
	0.7s	1.10nm			4.1mb		LTZ	25.85	174	P	45	15.50	-0.6		1.5s	140.00nm			5.5mb	
LPL	68.07	311	eP	33	18.80	0.9	QIS	27.55	258	eP	45	30.00	-1.7	CHG	77.11	294	iPc	51	35.40	1.5
	0.6s	1.80nm			4.3mb		TOO	28.77	220	eP	45	42.00	-0.4		0.9s	67.23nm			5.4mb	
LOR	69.27	313	eP	33	25.10	0.0	BFD	30.41	224	eP	45	57.00	0.1	CHTO	77.11	294	iPc	51	35.20	1.3
	0.6s	1.80nm			4.3mb		ADE	31.99	230	iPc	46	11.10	0.4		0.8s	58.75nm			5.4mb	
LBF	69.31	313	eP	33	25.60	0.3		0.7s	47.95nm			5.2mb					PcP	51	39.90	
	0.8s	2.70nm			4.4mb		WB5	32.46	260	eP	46	13.10	-1.8	HHC	78.11	319	P	51	40.20	1.1
SMF	69.52	313	eP	33	26.90	0.3				iPcP	48	55.90		CD2	78.35	307	P	51	41.20	0.7
	0.6s	2.25nm			4.4mb					eS	50	13.00		BTO	78.94	319	eP	51	44.50	0.9
SSF	69.58	313	eP	33	27.30	0.4	WRA	32.49	260	Pc	46	13.40	-1.7				S	01	27.50	
	0.8s	2.70nm			4.4mb			0.9s	26.40nm			4.9mb		MAW	80.18	202	iPd	51	51.30	1.7
AVF	69.78	313	eP	33	28.70	0.6	MTN	36.30	271	iPc	46	47.20	-0.3		1.0s	33.00nm			5.0mb	
	0.8s	2.70nm			4.4mb			0.6s	80.00nm			5.5mb		LZH	80.75	312	Pc	51	54.50	1.2
MAF	70.50	313	eP	33	33.60	1.0	KNA	38.09	266	iPc	47	01.80	-0.6		1.6s	97.00nm			5.3mb	
	0.8s	2.70nm			4.4mb		AFR	39.79	97	iP	47	15.60	-0.7		Z 22s	1.50um			5.3Msz	
TCF	70.70	313	eP	33	34.80	1.0		1.0s	120.00nm			5.3mb					pP	52	47.50	219kmX
	0.8s	27.00nm			5.4mb	X	WARB	39.81	249	iPc	47	06.80	-9.7X	KDC	81.23	20	P	51	55.00	0.0
LSF	71.15	313	eP	33	36.90	0.4		0.3s	8.00nm			4.7mb			0.6s	17.24nm			5.0mb	
YKA	84.71	13	eP	34	51.80	1.1	PAE	39.96	97	iP	47	16.90	-0.8	TTA	84.42	15	P	52	11.60	0.2
	0.9s	0.80nm			3.9mb			1.0s	90.00nm			5.2mb		GCC	84.65	49	ePc	52	13.90	1.0
	S.D. = 1.2 on 21 of 28 obs.						PPT	39.97	97	iP	47	17.00	-0.9	PRS	84.80	50	ePc	52	14.70	0.9
MAY 08, 1990 01h 40m 03.85± 0.53s								1.0s	190.00nm			5.5mb					e	53	12.60	
17.054 S ± 3.3km 168.495 E ± 2.8km							PPN	40.11	97	iP	47	18.20	-0.8	BRK	84.83	48	ePc	52	14.50	0.7
DEPTH = 229.2 ± 4.9 km								1.0s	70.00nm			5.1mb		BKS	84.85	48	eP	52	14.40	0.5
5.2mb (42 obs.)							TVO	40.26	98	iP	47	19.50	-0.8		1.0s	96.00nm			5.5mb	
VANUATU ISLANDS					(186)			1.0s	100.00nm			5.2mb		SAO	84.94	49	ePc	52	14.70	0.3
CENTROID, MOMENT TENSOR					(HRV)		PMO	41.90	94	iP	47	33.30	-0.3	MHC	85.04	49	ePc	52	16.00	0.9
Dato Used: GDSN								1.0s	115.00nm			5.3mb		SYP	85.08	52	eP	52	17.00	1.7
L.P.B.: 8S, 13C							VAH	42.12	94	iP	47	34.60	-0.8	GTA	85.12	314	iPc	52	16.90	1.5
Centroid Location:								1.0s	90.00nm			5.2mb			1.0s	100.00nm			5.6mb	
Origin Time 01:40: 7.9 1.2							TPT	42.17	94	iP	47	35.30	-0.5	ARN	85.12	49	P	52	16.30	0.9
Lat 17.01S FIX;Lon 168.45E FIX								1.0s	95.00nm			5.2mb		LLA	85.24	50	eP	52	16.80	0.9
Dep 219.4 8.0 Half-duration 2.3							RUV	42.36	94	iP	47	36.70	-0.7	PRI	85.24	50	ePc	52	17.20	1.1
Moment Tensor; Scale 10**17 Nm								1.0s	110.00nm			5.3mb					e	53	15.40	
Mrr= 2.22 0.33 Mtt=-3.10 0.79							COOL	45.09	243	iPc	47	58.00	-1.1	BCH	85.27	51	P	52	17.00	0.8
Mff= 0.88 0.66 Mrt=-0.12 0.50							MBL	46.03	257	iPc	48	06.30	-0.3	PMR	85.30	19	P	52	14.20	-1.4
Mrf=-1.41 0.71 Mtf=-1.92 0.55							MEKA	47.10	249	iPc	48	14.60	-0.3	WDC	85.83	45	iPc	52	19.50	0.8
Principal Axes:								0.6s	47.00nm			5.0mb					e	53	17.20	
T Val= 3.27 Plg=52 Azm= 75							KLB	48.04	243	iPc	48	20.90	-1.2	ORV	86.10	47	ePc	52	20.70	0.6
N 0.68 38 242							NWAO	48.61	241	iPc	48	25.60	-0.9				e	53	17.50	
P -3.95 6 337								0.7s	63.00nm			5.1mb		CMB	86.24	48	ePc	52	21.30	0.5
Best Double Couple:Mo=3.6*10**17							BAL	48.87	244	eP	48	27.00	-1.4				e	53	17.90	
NP1:Strike=101 Dip=51 Slip= 142							RKG	48.93	239	eP	48	29.00	0.1	PAS	86.29	53	eP	52	22.00	0.9
NP2: 217 61 46							MUN	49.39	242	eP	48	31.00	-1.4	FRI	86.29	50	iPc	52	21.60	0.6
							NANU	49.93	255	eP	48	36.30	-0.3				e	53	20.00	
							KKM	56.53	289	ePc	49	23.20	-1.9	MIN	86.37	46	e(P)	52	21.30	-0.3
PVC	0.70	194	iPc	40	35.00	-0.3				e	50	11.00		MWC	86.41	53	eP	52	22.00	0.1
			iS	40	59.00		MAT	60.50	332	(P)	49	51.00	-0.9	ISA	86.67	51	eP	52	23.00	0.0
DZM	5.35	201	iPd	41	23.60	-0.5		1.0s	24.00nm			4.8mb					e	53	21.00	
			iS	42	27.00		SBA	60.83	180	e(P)	49	54.10	0.4	SBB	86.77	52	eP	52	24.00	0.5
HNR	11.25	311	eP	42	39.00	-0.6	QZH	64.08	309	P	50	15.60	-0.1	RVR	86.84	53	eP	52	24.00	0.3
BRS	17.80	232	iPc	43	59.50	1.3	SSE	66.01	316	P	50	26.50	-1.4				e	53	23.00	

08d 01h

BAR	86.88	55	eP	52	24.00	0.0	DSI	135.23	298	ePKP	58	58.00	-0.1	BHG	143.44	332	ePKP	59	10.40	-2.1X
PEC	86.96	53	P	52	24.50	0.1	BBTK	135.51	310	iPKPd	58	59.00	0.4		0.8s	104.00nm				
PLM	86.99	54	eP	52	25.00	0.3	MBH	135.87	295	ePKP	59	00.00	0.6	ENN	143.58	341	ePKP	59	10.00	-2.6X
CLC	87.38	51	eP	52	26.00	-0.4	LFK	136.11	303	iPKP	59	00.90	1.1		0.8s	44.00nm				
			e	53	24.00		VRI	137.18	320	ePKPc	59	00.00	-1.4				e	59	16.50	
IMA	87.59	15	P	52	26.00	-0.8	COP	137.34	340	iPKPd	59	04.00	2.7X				e	02	31.00	
	0.8s	7.11nm				4.5mb		0.6s	53.33nm					TOD	143.61	338	ePKP	59	10.94	-1.8
GSC	87.78	52	eP	52	28.00	-0.3	KHL	138.38	309	ePKP	59	03.00	-1.0	MEM	143.70	341	iPKPd	59	11.26	-1.5
TPC	87.90	53	eP	52	29.00	0.1	KRA	138.49	330	ePKP	59	03.50	-0.2				i	59	16.50	
			e	53	27.00					e	59	05.40		KBA	143.71	331	iPKPc	59	10.60	-2.6X
BMW	88.05	40	P	52	29.40	0.0	CMP	138.51	321	ePKP	59	00.50	-3.4X		0.6s	63.20nm				
FBA	88.21	17	P	52	27.80	-1.8				e	10	07.00					id	59	11.40	
KVN	88.29	48	P	52	31.00	0.2	CMP	138.51	321	ePKPc	59	09.00	5.1X				i	59	15.20	
GLA	88.46	55	eP	52	31.00	-0.6	ELL	138.58	307	ePKP	58	56.00	-8.4X				i	59	20.30	
			e	53	31.00		SPC	138.91	328	i(PKP)	59	05.50	0.8				i	59	56.20	
SHW	88.53	41	P	52	32.60	0.8				e	02	19.40					e	02	24.50	
TNP	88.54	49	P	52	32.50	0.4	KSP	139.63	333	ePKP	58	57.30	-8.4X				i	02	31.00	
GMW	88.81	39	P	52	33.20	0.3		0.7s	48.00nm								i	02	53.00	
AIA	88.81	160	eP	52	33.40	0.7				id	59	08.50		FUR	143.80	334	iPKPc	59	12.00	-1.1
PGC	88.92	38	eP	52	34.00	0.8				ic	02	21.50			0.8s	270.00nm				
LON	89.05	40	P	52	34.00	-0.1				id	02	33.30		ABH	143.82	339	ePKP	59	11.66	-1.5
MCW	89.29	38	P	52	35.60	0.5	ALN	139.91	314	ePKP	58	57.60	-8.9X	LJU	143.88	329	iPKPc	59	12.00	-1.3
RMW	89.36	40	P	52	35.80	0.3	BRG	140.60	335	iPKP	59	02.00	-5.5X	VBY	143.89	327	iPKPc	59	12.40	-0.9
PNT	91.48	38	eP	52	46.00	0.9		1.4s	36.00nm					UCC	144.02	343	PKPd	59	12.20	-1.1
GUN	91.54	299	P	52	46.30	-0.1				i	59	07.00		KTD	144.11	338	ePKP	59	12.60	-1.0
	0.6s	12.00nm				5.1mb				i	59	10.10		RUP	144.14	339	ePKP	59	12.80	-0.9
DMN	92.10	298	P	52	48.90	0.1				i	02	24.20		CEY	144.15	328	iPKPc	59	12.60	-1.2
	0.6s	23.00nm				5.4mb				i	02	37.00		STU	144.15	336	iPKPc	59	12.50	-1.2
MSU	92.40	50	P	52	50.60	0.7	CLL	140.64	336	ePKP	59	00.00	-7.5X		1.0s	400.00nm				
DUG	92.50	49	P	52	50.20	0.0		0.9s	55.00nm					VOY	144.21	329	iPKPd	59	12.60	-1.4
	0.6s	2.88nm				4.5mb				i	59	08.70		SNF	144.29	343	iPKP	59	12.83	-1.0
NEW	92.57	40	P	52	49.80	-0.4				i	02	22.00		FVI	144.33	331	PKP	59	12.30	-1.7
	1.3s	23.00nm				5.1mb	SRO	140.78	328	iPKP	59	02.40	-5.4X	ITM	144.39	311	iPKPc	59	13.00	-1.5
DAU	93.70	49	P	52	56.10	0.1				e	59	05.50		RIY	144.44	328	iPKPc	59	13.10	-1.1
PTI	93.73	46	P	52	56.50	0.7				i	59	10.20		WLF	144.47	340	iPKPc	59	14.29	0.2
INK	94.70	18	eP	52	58.50	-1.0	PRU	141.02	333	ePKP	59	00.00	-8.2X	TRI	144.50	329	iPKPc	59	13.60	-0.7
GBA	94.89	283	Pd	53	02.20	0.7				e	59	03.50		GWF	144.56	338	PKP	59	13.12	-1.3
	1.0s	17.80nm				5.2mb	ZST	141.12	329	ePKP	59	04.00	-4.5X	DOU	144.58	342	PKP	59	13.70	-0.6
IMW	95.05	46	P	53	02.00	-0.1				i	59	11.40		KEK	144.68	316	iPKPc	59	04.00	-10.9X
WMQ	95.19	314	iPc	53	03.00	0.6	EKA	141.26	352	PKPc	59	02.00	-6.5X	ECP	144.72	355	ePKP	59	14.20	-0.3
N	17s	3.30um						0.6s	7.70nm					HVAR	144.77	324	iPKPc	59	14.00	-0.9
		sS		05	35.00		VKA	141.46	330	ePKP	59	04.50	-4.6X	STR	144.84	338	PKP	59	14.70	-0.1
ALQ	95.64	55	ePc	53	04.40	-0.5		0.8s	29.50nm					OGA	144.91	333	ePKP	59	14.60	-0.7
	0.9s	6.30nm				4.9mb				i	59	12.30		WLS	145.13	338	PKP	59	14.57	-0.9
BW06	95.66	47	P	53	04.00	-0.8				e	59	24.00		CDF	145.16	338	PKP	59	14.73	-0.8
SES	97.04	39	eP	53	10.00	-0.6				e	59	32.00		VAL	145.18	359	iPKP	59	15.70	0.4
GOL	97.80	51	P	53	14.70	0.2	SRS	141.47	316	ePKP	59	02.20	-7.1X	SLE	145.24	336	ePKPd	59	15.30	-0.3
YKA	99.06	27	eP	53	19.30	-0.1	WIT	141.56	342	ePKP	59	06.00	-3.1X	CTI	145.26	331	PKP	59	14.70	-1.1
	0.8s	11.20nm				5.3mb				e	59	13.50		SAX	145.32	335	ePKPd	59	16.00	-0.1
RSSD	99.89	47	P	53	23.20	-0.7				e	02	26.00		FEL	145.34	337	ePKP	59	15.31	-0.6
MBC	102.29	13	ePdiff	53	33.00	-0.5	OUR	141.57	314	ePKP	59	03.20	-6.3X	ECH	145.37	338	PKP	59	15.16	-0.6
MAIO	115.05	303	iPKPc	58	19.20	-0.4	MOX	141.71	336	iPKPc	59	05.00	-4.5X	OSS	145.44	333	ePKPd	59	16.00	-0.2
ZOBO	115.11	118	PKP	58	20.20	-0.6	SOP	141.74	329	ePKP	59	06.80	-2.8X	ZLA	145.52	336	ePKPd	59	15.90	-0.2
CCH	116.24	120	PKP	58	23.00	0.4	SOH	141.77	315	ePKPd	59	03.80	-6.1X	LCI	145.55	318	PKP	59	15.60	-0.7
FRB	119.51	25	ePKP	58	25.00	-2.0	KNT	141.91	316	ePKP	59	04.30	-5.8X	MOF	145.68	338	PKP	59	16.14	-0.3
	0.5s	21.00nm					PLG	141.91	315	ePKP	59	20.40	10.2X	BRT	145.71	320	PKP	59	14.40	-2.2X
DAG	120.14	2	iPKPc	58	26.50	-1.4		0.6s	12.60nm					LLS	145.77	335	ePKPd	59	16.60	-0.2
	0.4s	30.51nm					VAY	142.05	317	ePKP	59	04.80	-5.5X	BAI	145.78	320	PKP	59	17.50	0.9
SIV	121.12	121	iPKPc	58	30.60	-1.0	KHC	142.08	333	PKP	59	06.00	-4.2X	VITF	145.78	339	PKP	59	16.29	-0.1
KEV	122.26	345	iPKP	58	32.00	-0.1				i	59	10.50		BSF	145.82	338	PKP	59	16.41	-0.3
	0.8s	42.50nm					THE	142.12	315	ePKP	59	04.80	-5.6X	BBS	145.87	337	PKP	59	16.28	-0.4
SLR	122.49	223	iPKPc	58	27.50	-6.6X	WTS	142.24	342	ePKP	59	06.50	-3.8X	VDL	145.88	334	ePKPd	59	17.20	0.3
BFS	122.64	221	iPKPd	58	27.00	-7.4X		1.0s	53.00nm					SAL	146.10	332	PKP	59	16.80	-0.2
KSR	123.30	222	ePKP	58	33.50	-2.2X				e	59	13.50		LOMF	146.22	337	PKP	59	17.04	-0.3
SCH	123.58	35	ePKP	58	34.00	-1.2				e	02	27.50		RSM	146.42	328	PKP	59	18.10	0.5
SOD	124.05	343	iPKP	58	35.30	-0.4	GRG	142.34	316	ePKPd	59	05.80	-5.1X	TMA	146.43	334	ePKPd	59	17.60	-0.2
TAB	125.52	305	e(PKP)	58	40.00	0.3	WET	142.37	334	ePKP	59	07.00	-3.7X	ARV	146.47	327	PKP	59	17.70	-0.1
BUL	125.98	228	iPKPd	58	35.90	-5.2X	SKO	142.45	318	ePKP	59	07.00	-4.0X	ORI	146.65	319	PKP	59	18.10	0.0
SLY	126.40	302	iPKPc	58	42.00	0.8		1.5s	61.00nm					VAI	146.67	334	PKP	59	16.90	-1.0
SUF	127.42	339	ePKP	58	31.00	-11.3X				i	59	10.20		SFI	146.73	329	PKP	59	18.30	0.2
BHD	127.48	299	ePKPd	58	45.00	1.7				i	00	28.30		PGD	146.83	329	PKP	59	18.10	-0.4
MSL	128.22	303	ePKPd	58	45.00	0.3				i	02	46.00		MMK	146.85	335	ePKPd	59	19.10	0.5
NAI	129.02	254	iPKPd	58	49.00	1.9	NEO	142.55	313	ePKP	59	06.70	-4.6X	ASS	146.92	327	PKP	59	21.37	2.8X
NUR	129.45	338	iPKP	58	36.00	-10.2X	GRF	142.62	336	iPKPc	59	08.10	-3.0X	ASS	146.92	327	PKP	59	17.40	-1.1
	0.7s	90.80nm					KMR	142.63	331	iPKP-	59	08.60	-2.5X	TDS	146.95	319	PKP	59	18.50	-0.1
		i		58	46.00					iPP	02	29.40		AQU	147.01	325	PKP	59	18.60	-0.1
AKU	131.20	4	ePKP	58	49.60	0.2	LIT	142.69	315	ePKPd	59	06.40	-5.1X	DIX	147.05	335	ePKPd	59	19.50	0.6
	0.9s	16.81nm					ATH	142.77	311	ePKP	59	08.20	-3.4X	SGO	147.06	321	PKP	59	18.10	-0.6
BAO	131.52	130	e(PKP)	58	46.70	-5.0X	FNA	143.10	317	ePKPd	59	08.30	-3.9X	MME	147.09	330	PKP	59	18.90	-0.1
UPP	132.32	341	iPKP	58	51.60	-0.1	TNS	143.22	339	ePKPc	59	09.60	-2.5X	FLN	147.12	347	ePKP	59	18.60	0.0
REY	132.42	6	ePKP	58	53.30	1.6	PTJ	143.26	327	ePKP	59	09.70	-2.7X		0.7s	20.95nm				
NB2	133.16	345	PKP	58	52.20	-1.2	AGG	143.30	313	ePKPd	59	08.30	-4.3X	MGR	147.16	320	PKP	59	17.10	-1.8
	0.7s	17.90nm					ZAG	143.30	327	ePKP	59	10.00	-2.3X	ORX	147.19	334	PKP	59	21.21	2.3X
HFS	133.28	343	ePKP	58	52.20	-1.3	OHR	143.31	317	iPKPc	59	09.50	-3.1X	LDF	147.20	346	ePKP	59	18.70	0.0
	0.8s	18.90nm						0.7s	150.00nm						0.8s	13.45nm				
KAS	134.31	312	ePKP	58	56.50	0.3				i	02	30.80		SDI	147.21	324	PKP	59	18.10	-0.9
HRI	134.68	300	ePKP	58	58.00	0.8	VAM	143.39	307	ePKP	59	10.50	-2.3X	BSS	147.22	322	PKP	59	18.60	-0.4

08d 01h

AZI	147.24	324	PKP	59	18.20	-0.7	CGL	151.32	325	PKP	59	32.24	6.7X	BAI	3.79	308	P	09	50.00	0.4
BOB	147.24	332	PKP	59	18.80	-0.2		0.8s		51.20nm				PVY	3.82	351	ePn	09	52.10	2.0
BDI	147.24	330	PKP	59	17.50	-1.5	PTS	151.40	318	PKP	59	30.20	4.7X				eSn	10	37.50	
EMS	147.25	336	ePKPd	59	19.50	0.4	ETER	152.00	337	iPKPc	59	33.10	6.9X	HCY	4.02	335	ePn	09	51.60	-1.2
LOR	147.31	340	ePKP	59	19.00	0.0	EPF	152.21	341	ePKP	59	27.10	0.5				eSn	10	37.50	
	1.2s		11.90nm					0.8s		9.40nm				APE	4.13	114	ePn	09	53.00	-1.4
RFI	147.38	323	PKP	59	19.76	0.6	OGE	152.33	342	PKP	59	31.98	5.3X	RZN	4.15	45	iPc	09	54.00	-0.7
	1.4s		300.60nm				JAU	152.42	342	PKP	59	32.72	5.7X	VTS	4.19	25	iP	09	56.00	0.7
GRI	147.38	317	PKP	59	19.68	0.3	ESCF	152.44	343	PKP	59	33.11	6.2X				iSg	10	59.00	
	0.4s		116.60nm				MADF	152.45	343	PKP	59	32.81	5.9X	NKY	4.21	342	ePn	09	55.50	-0.1
MNS	147.38	326	PKP	59	18.36	-0.9	ATE	152.47	343	PKP	59	33.48	6.5X				eSn	10	44.50	
	0.4s		289.70nm				ELYF	152.47	343	PKP	59	31.98	5.0X	ATN	4.24	263	P	09	56.50	0.6
LBF	147.52	340	ePKP	59	19.40	0.0	BOH	152.54	343	PKP	59	33.26	6.1X				eSn	10	45.30	
	1.2s		11.90nm				ISSF	152.55	343	PKP	59	32.66	5.5X	MGR	4.26	290	P	09	57.30	1.0
PII	147.53	330	PKP	59	19.30	-0.1	LHE	152.61	342	PKP	59	33.00	5.8X	RDO	4.32	56	eP	09	56.50	-0.5
GRR	147.56	347	ePKP	59	19.40	0.1	ECRI	153.40	345	iPKPd	59	29.50	1.2	VAM	4.36	140	eP	09	57.00	-0.7
	0.6s		9.00nm				EMON	153.46	353	ePKP	59	28.90	0.6	BRY	4.42	338	ePn	09	58.00	-0.6
SSF	147.61	341	ePKP	59	19.50	0.1	STS	154.13	355	e(PKP)	59	30.20	1.0				eSn	10	48.00	
	1.2s		20.85nm				ESEL	154.14	334	iPKPc	59	38.60	9.3X	PLD	4.43	41	eP	10	02.00	3.4X
LSD	147.66	335	PKP	59	23.94	4.0X	EBR	154.15	339	ePKP	59	30.00	0.8	PGB	4.52	33	iP	10	01.00	1.1
RMP	147.76	325	PKP	59	22.70	2.9X	EROQ	154.17	339	iPKPd	59	30.20	0.9	KDZ	4.53	50	iPd	09	59.00	-1.0
LPL	147.78	336	ePKP	59	20.20	0.1	ETOR	154.95	343	iPKPc	59	31.10	0.6				iS	10	52.00	
	0.6s		3.60nm				GUD	155.65	346	iPKPd	59	32.70	1.2	ALN	4.54	61	ePn	09	57.80	-2.4
RDP	147.79	325	PKP	59	19.90	-0.1	ECHE	155.75	340	iPKPd	59	32.80	1.3	SGO	4.58	294	P	10	02.40	1.7
PCP	147.82	333	PKP	59	21.30	1.4	TOL	156.35	346	ePKP	59	33.00	0.7	DIM	4.84	47	eP	10	08.00	3.5X
SMF	147.87	340	ePKP	59	19.70	-0.2	EPLA	156.59	349	e(PKP)	59	33.10	0.5	MNO	4.88	261	P	10	02.90	-2.3
	0.8s		4.05nm				EVIA	157.10	342	ePKP	59	34.40	1.0	SMG	4.88	101	ePn	10	05.50	0.5
RSP	147.87	335	PKP	59	22.43	2.4X	ASMO	158.65	343	iPKPc	59	35.40	0.2	MEU	4.94	251	P	10	04.30	-1.7
AVF	147.89	341	ePKP	59	19.50	-0.4	AAPN	158.80	344	iPKPc	59	35.70	0.3				eSn	10	59.60	
	0.6s		1.80nm				ALOJ	158.98	343	iPKPc	59	34.00	-1.6	BSS	5.01	295	P	10	08.10	1.2
LPF	147.93	347	ePKP	59	20.20	0.3	APHE	159.01	342	iPKP	59	36.00	0.3	HVAR	5.45	324	iPn	10	11.30	-1.8
	1.0s		52.00nm				ATEJ	159.14	343	iPKPc	59	35.50	-0.3	PVL	5.57	37	eP	10	15.00	0.2
BCAO	148.00	250	iPKPd	59	20.70	-0.4	LKO	170.58	218	PKP	59	45.90	0.0	DUI	5.62	302	P	10	16.40	0.8
	0.3s		100.00nm					0.9s		48.00nm							eSn	11	19.50	
			ic	59	24.00			S.D. = 0.9 on 295 of 382 obs.						JMB	5.71	49	eP	10	17.00	0.2
			ic	00	08.80									RFI	5.78	297	P	10	18.95	1.2
CKI	148.02	333	PKP	59	18.90	-1.3		MAY 08, 1990 02h 08m 49.86± 0.37s						SDI	6.07	301	P	10	23.00	1.2
MAO	148.17	327	PKP	59	24.29	3.8X		38.822 N ± 4.3km 20.797 E ± 2.7km						AQU	6.64	304	P	10	30.90	0.9
	0.8s		517.60nm					DEPTH = 10.0km (geophysicist)						MNS	7.13	303	P	10	38.00	1.3
MAO	148.17	327	PKP	59	20.50	0.0		4.1mb (7 obs.)						CMP	7.17	25	ePc	10	41.00	3.7X
BNI	148.19	335	PKP	59	21.20	0.6		GREECE (364)						PSN	7.38	47	eP	10	35.00	-5.2X
FIN	148.23	333	PKP	59	23.74	3.2X		ML 4.2 (ROM), 3.6 (THE), 3.5						ASS	7.48	307	P	10	42.40	0.7
BST	148.24	351	PKP	59	21.33	0.9		(ATH), 3.5 (TTG).						ELL	7.51	103	eP	10	44.00	1.9
RRL	148.26	335	PKP	59	23.25	2.4X								ARV	7.54	311	P	10	40.90	-1.6
BGF	148.26	341	ePKP	59	21.30	0.8	KEK	1.18	319	eP	09	12.50	0.6				eSn	12	07.60	
	0.8s		10.75nm				AGG	1.21	80	iPd	09	10.60	-1.9	MLR	7.68	28	ePc	10	58.00	13.5X
MSI	148.28	317	PKP	59	22.90	2.2X				iS	09	26.70		VBY	7.84	330	ePn	10	46.10	-0.5
ROB	148.31	333	PKP	59	22.53	1.8	LIT	1.83	45	iPc	09	21.80	0.2				iSn	12	15.80	
ATN	148.37	317	PKP	59	22.20	1.3				eS	09	48.10		PTJ	7.93	335	eP	10	45.10	-2.8
DOI	148.41	334	PKP	59	22.40	1.5	ITM	1.87	151	ePd	09	22.70	0.6	RSM	8.08	312	P	10	49.50	-0.5
LPI	148.52	318	PKP	59	25.12	3.9X	NEO	1.95	75	eP	09	23.00	-0.4	CEY	8.37	328	ePn	10	53.00	-1.0
ENR	148.55	333	PKP	59	23.86	2.7X	FNA	2.01	13	ePnd	09	26.10	1.9				eSn	12	26.50	
STV	148.58	334	PKP	59	23.96	2.8X	OHR	2.29	0	iPn	09	30.50	2.2	SFI	8.43	310	P	10	55.30	0.4
AGO	148.62	340	PKP	59	23.26	2.2X				eSg	10	04.50		PGD	8.49	309	P	10	55.60	-0.3
MAF	148.65	341	ePKP	59	21.50	0.4	ATH	2.45	109	eP	09	31.50	1.1				eSn	12	29.20	
	0.6s		2.70nm				THE	2.46	42	eP	09	30.90	0.3	LJU	8.57	329	e(Pn)	10	55.50	-1.3
TCF	148.70	342	ePKP	59	21.40	0.2				eS	10	03.20					e(Sn)	12	27.00	
	1.0s		14.00nm				GRG	2.46	30	ePc	09	31.40	0.7	TRI	8.63	325	ePd	10	56.20	-1.4
SBF	148.84	333	ePKP	59	21.30	-0.3				eS	10	03.80		VOY	8.83	327	ePn	10	57.90	-2.5
	0.8s		10.75nm				LCI	2.67	305	P	09	33.60	0.0				eSn	12	34.20	
PYM	148.93	340	PKP	59	22.55	0.9				eSn	10	06.70		MME	9.28	309	P	11	07.20	0.3
LSF	148.93	342	ePKP	59	21.50	-0.1	VLI	2.70	140	eP	09	35.00	0.9	PGF	9.70	296	eP	11	16.00	3.4X
	0.8s		9.40nm				SOH	2.80	44	eP	09	35.90	0.3		0.6s		5.40nm			5.1mb X
MNO	149.00	317	PKP	59	25.90	3.7X				eS	10	09.10		KBA	9.89	329	eP	11	13.00	-2.2
MFF	149.06	345	ePKP	59	22.00	0.3	KNT	2.84	34	ePd	09	36.60	0.5				i	11	15.70	
	1.0s		24.00nm							iS	10	10.20					eS	13	03.00	
PGF	149.15	330	ePKP	59	21.40	-0.7	VAY	2.84	28	iPn	09	36.60	0.5	BOB	10.34	309	P	11	21.20	-0.2
	1.2s		41.65nm				OUR	2.89	57	eP	09	36.60	-0.1	LPG	12.36	307	eP	11	48.70	-0.3
LBL	149.31	339	PKP	59	24.92	2.8X				eS	10	11.20			0.6s		2.70nm			4.7mb
MEU	149.31	316	PKP	59	26.00	3.5X	SRS	3.14	42	ePc	09	40.00	-0.3	LPL	12.39	307	eP	11	49.80	0.5
FRF	149.42	334	ePKP	59	22.20	-0.2				eS	10	18.90		SSF	15.08	309	eP	12	30.50	5.9X
	0.8s		8.05nm				SKO	3.18	9	ePn	09	42.20	1.3		0.6s		2.70nm			3.8mb
LRG	149.63	334	ePKP	59	22.50	-0.2				e(Sn)	10	12.70		HFS	21.80	350	eP	13	42.60	-1.0
	1.0s		12.00nm				ULC	3.35	340	ePn	09	43.00	-0.4		1.0s		9.40nm			4.2mb
LMR	149.66	333	ePKP	59	22.50	-0.2				eSn	10	21.00		NB2	23.03	348	P	13	55.00	-0.9
	0.8s		8.05nm				BRT	3.44	308	P	09	45.80	1.2		0.6s		1.70nm			3.8mb
RJF	149.79	342	ePKP	59	23.40	0.5	KKB	3.51	29	iP	09	47.00	1.5	EKA	23.03	324	Pc	13	55.80	-0.1
	0.8s		8.05nm							Sg	10	24.00			0.8s		6.80nm			4.2mb
CAF	149.97	341	ePKP	59	23.80	0.6	MMB	3.56	38	iPc	09	48.00	1.7	SUF	24.15	6	iP	14	05.70	-0.9
	1.0s		9.00nm							eSg	10	32.00			0.5s		3.50nm			4.2mb
ERC	150.27	319	PKP	59	29.10	5.2X	TDS	3.56	285	P	09	48.20	1.9	YKA	72.86	340	eP	20	18.40	-1.9
LFF	150.36	342	ePKP	59	24.20	0.5				eSn	10	28.40			0.6s		0.20nm			3.4mb
	0.8s		10.75nm				ORI	3.59	292	P	09	47.70	1.0		S.D. = 1.2 on 76 of 83 obs.					
CVT	150.36	319	PKP	59	28.50	4.6X	BDV	3.77	337	ePn	09	48.60	-0.7							
LPO	150.46	341	ePKP	59	24.30	0.4				eSn	10	31.00		•	MAY 08, 1990 02h 33m 17.17± 0.61s					
	0.8s		12.10nm				TTG	3.79	343	ePn	09	50.00	0.5		18.349 S ±17.0km 177.905 W ± 9.7km					
LVI	150.46	320	PKP	59	28.90	4.8X				eSn	10	34.00			DEPTH = 531.7 ± 5.0 km					

4.5mb (7 obs.)
FIJI ISLANDS REGION (181)

TVI	2.48	304	iP	34	28.30	0.0
KRO	2.77	291	iP	34	30.10	0.2
UDU	2.96	317	iP	34	30.70	-0.3
NDE	3.18	303	iP	34	32.40	-0.2
SVA	3.46	273	eP	34	33.80	-0.6
VUN	3.47	275	eP	34	34.90	0.4
SGE	4.04	280	eP	34	39.60	0.7
DZM	15.15	253	iPc	36	33.20	4.8X
RUV	29.37	88	iP	38	38.80	0.0
	0.7s	15.00nm			4.7mb	
CTA	33.85	261	iPd	39	17.00	0.3
	1.0s	25.00nm			4.8mb	
WB5	45.01	260	iPd	40	46.20	-0.6
WRA	45.02	260	Pc	40	46.60	-0.3
	0.6s	9.00nm			4.5mb	
MTN	49.27	269	iPc	41	18.80	-0.4
KNA	50.90	264	eP	41	30.80	-0.4
COOL	56.20	245	eP	42	08.30	-0.5
MBL	58.34	256	iPd	42	23.10	-0.4
	0.4s	7.00nm			4.4mb	
KLB	59.06	244	eP	42	28.00	-0.2
NWAO	59.43	242	eP	42	31.00	0.4
MUN	60.35	243	eP	42	37.00	0.3
NANU	62.06	254	eP	42	48.50	0.5
	0.5s	43.00nm			5.2mb	
KVN	79.88	43	eP	44	32.50	0.7
FBA	86.13	12	eP	45	01.90	-0.3
CHTO	89.60	290	iP	45	21.10	1.8
	0.7s	3.65nm			4.4mb	
YKA	94.53	25	eP	45	40.00	-1.0
	0.5s	0.40nm			3.8mb	

S.D. = 0.6 on 23 of 24 obs.

MAY 08, 1990 03h 25m 20.34± 0.83s
16.117 N ± 5.6km 61.035 W ±10.8km
DEPTH = 61.0 ± 9.9 km
LEEWARD ISLANDS (92)
MD 3.7 (TRN).

SFG	0.21	311	iPc	25	30.40	0.4
			S	25	36.00	
SEG	0.53	302	eP	25	32.86	0.1
			S	25	42.00	
DOG	0.57	262	eP	25	33.20	0.0
PAG	0.63	262	ePd	25	33.75	-0.2
			S	25	43.70	
BBL	0.73	216	iPd	25	34.76	-0.4
			S	25	45.00	
MDN	0.87	204	eP	25	37.10	0.3
			eS	25	51.82	
DPMT	0.92	202	eP	25	37.96	0.5
			eS	25	54.05	
BPA	1.21	320	ePc	25	40.83	-0.6
			S	25	55.80	
MGH	1.28	298	eP	25	43.31	0.9
			S	25	59.00	
CRM	1.36	175	iPd	25	43.30	-0.2
			S	25	59.60	
FDF	1.38	185	iPd	25	43.39	-0.4
			S	25	59.80	
MVM	1.56	175	iPd	25	46.13	-0.1
			S	26	05.50	
BIM	1.59	181	iPd	25	46.65	0.0
			S	26	06.10	
NEV	1.79	305	eP	25	49.46	0.1
			S	26	06.50	
SKI	2.03	307	eP	25	52.92	0.1
			eS	26	17.41	
SLB	2.28	180	eP	25	57.40	1.1
			eS	26	27.62	
SOA	2.73	182	eP	25	56.96	-5.6X
			eS	26	27.36	
SVV	2.79	184	eP	26	03.57	0.1
			eS	26	38.14	
SVB	2.84	184	eP	26	04.28	0.1
			eS	26	39.68	
FCV	2.95	184	eP	26	05.47	-0.3
			eS	26	42.79	

S.D. = 0.5 on 19 of 20 obs.

MAY 08, 1990 04h 22m 02.68± 0.53s
51.676 N ±11.4km 176.397 E ± 6.4km
DEPTH = 33.0km (normal)
4.7mb (17 obs.)

RAT ISLANDS, ALEUTIAN ISLANDS (6)
ML 4.4 (PMR).

SMY	1.76	308	eP	22	33.10	1.8
ADK	4.30	85	eP	23	08.90	1.5
SVW	18.00	48	eP	26	14.30	2.6
TTA	18.51	42	eP	26	18.30	0.4
KDC	18.85	59	eP	26	20.10	-2.0
IMA	20.84	35	eP	26	43.10	-0.7
FBA	22.61	40	eP	27	00.70	-0.6
TOA	22.62	48	eP	27	02.30	0.8
INK	28.96	36	eP	28	04.00	3.4X
MBC	34.46	22	eP	28	48.50	-0.3
	1.0s	5.00nm			4.4mb	
YKA	37.19	46	eP	29	12.20	0.2
	0.5s	3.90nm			4.5mb	
SSE	45.02	265	P	30	11.00	-5.7X
TIY	46.10	279	eP	30	27.00	1.7
KVN	46.21	79	eP	30	26.70	0.4
WHN	49.65	270	Pc	30	53.00	0.1
LZH	52.40	283	eP	31	14.00	0.0
	0.8s	13.00nm			4.9mb	
GTA	52.65	289	eP	31	15.50	-0.3
GOL	53.43	70	eP	31	21.00	-0.7
			e	31	42.00	
FRB	54.30	30	eP	31	25.00	-2.3
ALQ	55.95	75	eP	31	40.00	0.0
	1.0s	1.75nm			4.0mb	
KEV	56.84	348	eP	31	54.00	8.3X
GYA	57.31	272	P	31	49.20	-0.5
SOD	59.11	347	eP	32	02.00	0.3
SUF	63.55	345	iP	32	30.60	-1.0
	0.5s	5.50nm			4.9mb	
NUR	65.88	345	eP	32	45.00	-1.7
NB2	67.01	352	P	32	52.80	-1.1
	0.8s	6.90nm			4.8mb	
SHL	67.07	283	iP	32	53.80	-1.2
HFS	67.68	351	eP	32	55.80	-2.3
	0.5s	4.90nm			4.9mb	
GUN	68.94	289	P	33	06.60	-0.2
DMN	69.62	289	P	33	10.80	-0.1
	0.6s	18.00nm			5.3mb	
EKA	73.36	360	P	33	32.00	-0.4
	0.9s	3.00nm			4.3mb	
LDF	80.07	358	eP	34	09.60	-0.5
	0.6s	3.60nm			4.5mb	
WB5	80.17	220	eP	34	11.00	0.1
WRA	80.23	220	Pc	34	11.10	-0.2
	1.0s	3.90nm			4.4mb	
GRR	80.29	358	eP	34	11.00	-0.2
	0.6s	3.60nm			4.5mb	
KBA	80.55	348	iPc	34	13.60	0.7
	0.6s	8.30nm			4.9mb	
			id	34	13.90	
			i	34	15.50	
			i	34	35.70	
LPL	82.78	353	eP	34	26.90	2.3
	0.8s	2.70nm			4.4mb	
LPG	82.80	353	eP	34	26.90	2.1
	0.8s	4.05nm			4.6mb	
SBF	84.36	352	eP	34	33.80	1.3
	0.8s	9.40nm			5.0mb	
PGF	85.52	351	eP	34	38.60	0.2
	0.6s	5.40nm			4.9mb	
MAW	144.88	218	iPKP	41	36.00	-0.3

S.D. = 1.2 on 38 of 41 obs.

---

* MAY 08, 1990 04h 39m 33.04± 1.24s
6.373 S ± 8.7km 151.847 E ± 9.7km
DEPTH = 36.3 ± 14.8 km
4.2mb (2 obs.)
NEW BRITAIN REGION (192)

RAB	2.19	8	iPc	40	07.50	-0.3
PMG	5.54	237	eP	40	56.00	0.7
RMQ	20.22	188	iPc	44	08.30	0.4
BRS	20.92	178	iPd	44	15.00	-0.1
DZM	21.03	139	iPc	44	16.10	-0.2
MTN	21.40	251	eP	44	20.00	0.0
			e	44	24.00	
WB5	21.65	230	eP	44	22.00	-0.5
WRA	21.70	230	Pc	44	22.40	-0.6
	0.5s	5.80nm			4.3mb	
NANU	38.53	242	eP	46	54.00	-0.1
YKA	97.25	28	eP	53	03.90	0.8
	0.7s	0.60nm			4.2mb	
BAO	150.60	138	e(PKP)	59	30.60	12.4X

S.D. = 0.6 on 10 of 11 obs.

& MAY 08, 1990 04h 43m 48.10s
40.558 N 124.368 W
DEPTH = 5.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 2.7 (BRK).

FHC	0.38	50	iPc	43	55.80	0.1
			eS	44	00.90	
WDC	1.39	89	e(P)	44	12.20	-2.0
MIN	2.12	95	eP	44	22.10	-2.7
KVN	5.06	105	eP	45	04.00	-2.6
	4 obs. associated					

MAY 08, 1990 04h 49m 23.91± 0.35s
44.244 N ± 2.6km 7.298 E ± 3.3km
DEPTH = 12.8 ± 3.2 km
NORTHERN ITALY (545)
ML 2.5 (LDG), 2.0 (GEN). MD 1.3 (STR).

STV	0.02	90	P	49	26.49	0.1
			S	49	27.82	
ENR	0.09	101	P	49	27.10	0.1
			S	49	28.75	
TOUF	0.23	189	Pg	49	29.39	0.1
			Sg	49	32.93	
DOI	0.26	352	Pd	49	29.60	-0.1
			eSg	49	33.30	
AUTN	0.27	159	Pg	49	29.98	0.2
			Sg	49	34.16	
AURF	0.36	177	Pg	49	31.39	-0.1
SBF	0.39	165	Pg	49	32.30	0.2
			Sg	49	38.00	
ROB	0.41	83	P	49	32.74	0.2
			S	49	38.48	
REVF	0.51	174	Pg	49	33.47	-0.8
			Sg	49	41.68	
CALN	0.57	211	Pg	49	35.55	0.1
			Sg	49	43.35	
FIN	0.66	93	P	49	36.54	-0.2
			S	49	45.36	
CKI	0.73	75	P	49	35.20	-2.8X
			eSg	49	46.40	
FRF	0.83	215	Pg	49	39.80	0.1
			Sg	49	50.10	
RSP	0.91	358	P	49	41.15	0.0
PCP	0.94	71	P	49	42.48	0.8
			S	49	53.87	
LRG	1.04	221	Pg	49	44.20	0.9
			Sg	49	56.80	
LMR	1.07	212	Pg	49	44.40	0.5
			Sg	49	58.40	
LPG	1.31	343	Pg	49	48.40	0.2
			Sg	50	06.00	
PGF	2.10	143	Pn	49	59.20	-0.1
			Sn	50	22.80	

S.D. = 0.4 on 18 of 19 obs.

% MAY 08, 1990 06h 00m 41.56± 0.90s
31.568 S ±12.6km 68.611 W ±10.2km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.18	297	iPd	00	49.50	1.4
RTLL	0.27	27	iPc	00	48.80	-0.2
RTCV	0.30	168	iPc	00	50.00	0.6
			S	01	01.60	
CFA	0.32	97	iPd	00	49.10	-0.5
RTBS	0.72	262	ePd	00	54.00	-1.3
			S	01	08.00	

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

MAY 08, 1990 06h 24m 03.36± 0.93s
5.069 S ± 7.6km 149.790 E ± 9.1km
DEPTH = 400.1 ± 10.3 km
4.2mb (7 obs.)
NEW BRITAIN REGION (192)

LAT	3.19	240	eP	25	08.50	-0.1
PMG	5.04	211	eP	25	14.00	-12.4X
CTA	15.32	193	iPd	27	22.50	1.1
MTN	19.97	246	eP	28	08.00	0.0
			e	31	33.00	
WB5	21.03	224	eP	28	18.90	0.7
WRA	21.09	224	Pc	28	19.40	0.6

08d 06h

	0.4s	1.90nm			3.9mb	
BRS	22.38	173	eP	28	30.00	-0.9
DZM	23.36	138	iPc	28	39.50	-0.5
MBL	33.17	238	eP	30	05.10	-1.1
MAT	42.79	346	eP	31	25.00	-0.2
CHTO	55.41	297	iP	33	00.50	0.1
	0.7s	2.38nm			3.6mb	
SHL	63.87	302	eP	33	57.00	-0.4
GUN	69.71	302	P	34	33.50	-0.3
	0.7s	24.00nm			4.9mb	
DMN	70.27	302	P	34	37.00	-0.1
TTA	79.13	22	eP	35	27.00	1.1
PMR	81.18	25	eP	35	36.00	-0.5
	0.8s	10.78nm			4.6mb	
IMA	81.72	20	eP	35	40.00	0.6
	0.8s	3.36nm			4.1mb	
FBA	83.26	22	eP	35	45.90	-1.1
	0.8s	17.41nm			4.8mb	
INK	89.78	21	eP	36	19.00	0.8
YKA	97.06	28	eP	36	51.90	0.3
	0.8s	0.40nm			3.7mb	
	S.D. = 0.7	on	19	of	20	obs.

? MAY 08, 1990 06h 39m 15.62± 3.00s
7.334 S ±16.3km 129.117 E ±17.7km
DEPTH = 87.3 ± 32.1 km
4.2mb (4 obs.)
BANDA SEA (280)

MTN	5.83	160	iPc	40	42.70	1.5
			eS	41	44.00	
KNA	8.37	182	eP	41	15.70	-0.5
	0.3s	67.00nm			5.9mb	X
			eS	42	37.00	
WB5	13.47	158	eP	42	21.30	-3.2X
			eS	44	41.00	
WRA	13.52	159	P	42	23.00	-2.1
	0.3s	2.30nm			4.1mb	
MBL	16.42	212	eP	43	02.00	-0.1
QIS	16.61	143	eP	43	05.00	0.4
			eS	45	55.00	
WARB	18.89	187	iPc	43	32.40	0.3
	0.4s	6.00nm			4.2mb	
			eS	46	51.00	
NANU	20.01	219	eP	43	44.00	0.1
FORR	23.41	182	eP	44	18.20	0.6
CHTO	39.50	312	eP	46	40.30	0.8
	0.5s	1.02nm			4.0mb	
GUN	54.52	312	P	48	36.40	-1.0
	0.6s	13.00nm			5.1mb	
SGO	112.78	311	PKP	57	47.50	3.5X
			eSg	57	54.10	
	S.D. = 1.2	on	10	of	12	obs.

? MAY 08, 1990 06h 51m 15.68±13.03s
44.036 N ±43.6km 7.630 E ±71.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (LDG).

AUTN	0.15	255	Pg	51	19.07	-0.3
SBF	0.22	219	Pg	51	20.40	-0.1
			Sg	51	23.40	
AURF	0.26	236	Pg	51	21.13	-0.2
TOUF	0.28	266	Pg	51	21.54	0.0
			Sg	51	24.86	
REVF	0.35	213	Pg	51	22.86	-0.1
			Sg	51	28.24	
FRF	0.86	237	Pg	51	32.00	-0.2
			Sg	51	42.80	
LMR	1.07	230	Pg	51	36.00	0.1
			Sg	51	49.60	
LRG	1.09	238	Pg	51	36.40	0.3
			Sg	51	50.90	
	S.D. = 0.2	on	8	of	8	obs.

& MAY 08, 1990 07h 06m 56.30s
49.283 N 128.370 W
DEPTH = 10.0km (geophysicist)
3.8mb (4 obs.)
VANCOUVER ISLAND REGION (25)
<PGC>.

EDB	1.01	54	Pc	07	16.36	1.0
ETB	1.20	85	Pc	07	19.14	0.5
PHC	1.55	23	Pc	07	23.91	0.0
			S	07	43.79	
GDR	1.59	71	Pc	07	24.67	0.2
BTB	1.87	83	Pc	07	28.64	-0.1
OZB	1.92	99	Pc	07	28.26	-1.1
CBB	2.09	68	Pc	07	32.42	0.6
ALB	2.32	89	Pc	07	34.54	-0.5
MGB	2.43	95	P	07	35.42	-1.4
			S	08	06.12	
NAB	2.86	90	P	07	42.97	0.2
BBB	2.91	3	Pd	07	43.20	-0.2
			S	08	20.00	
MCW	3.70	97	eP	07	55.00	0.3
BMW	4.46	127	eP	08	07.00	1.5
RMW	4.74	110	eP	08	08.50	-1.1
LON	5.08	117	eP	08	14.00	-0.3
PNT	5.73	86	P	08	22.00	-1.4
WDC	9.63	152	ePc	09	20.00	2.1
MIN	10.14	149	ePc	09	26.80	1.7
EDM	10.21	62	iPc	09	24.40	-1.4
ORV	10.89	151	ePc	09	36.30	1.2
SES	11.25	78	eP	09	40.00	-0.1
KVN	12.60	140	eP	10	00.40	2.0
CMB	12.63	150	ePc	10	03.80	5.0
TNP	13.78	140	eP	10	15.90	1.7
FRI	13.80	150	e(P)	10	17.90	3.7
YKA	15.27	25	eP	10	33.20	-0.1
	0.8s	1.60nm			3.4mb	
ISA	15.43	148	eP	10	41.00	5.5
CLC	15.60	146	eP	10	44.00	6.2
GSC	16.35	144	eP	10	52.00	4.5
FFC	17.08	61	eP	10	54.00	-2.5
	0.8s	10.00nm			4.0mb	X
FFC	17.08	61	eP	10	59.50	3.0
	0.9s	156.00nm			5.1mb	X
FFC	17.08	61	eP	11	05.00	8.5
	1.0s	135.00nm			5.0mb	X
TPC	17.70	144	eP	11	08.00	3.6
FBA	18.74	334	eP	11	17.50	0.6
GOL	18.93	112	eP	11	22.50	2.7
GLA	19.10	143	eP	11	22.00	0.3
INK	19.25	354	eP	11	24.00	0.8
SVW	19.37	318	eP	11	26.10	1.3
TTA	20.38	322	eP	11	35.20	-0.3
IMA	21.33	331	eP	11	45.50	0.2
	1.2s	20.83nm			4.4mb	
ANMO	21.56	123	eP	11	49.00	1.0
	1.1s	5.54nm			3.9mb	
ALO	21.56	123	eP	11	49.00	0.9
	1.0s	3.25nm			3.7mb	
MBC	27.30	5	eP	12	50.00	7.6
	43 obs. ossocioted					

MAY 08, 1990 08h 09m 37.71± 1.04s
39.892 N ± 8.0km 23.819 E ± 7.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.5 (THE).

PAIG	0.11	288	ePg	09	40.30	-0.3
			eSg	09	41.80	
OUR	0.46	16	ePgc	09	46.80	-0.2
SOH	0.99	339	ePg	09	55.30	-1.3
			eSg	10	10.10	
LIT	1.04	282	ePgc	09	57.70	0.3
			eSg	10	12.10	
SRS	1.24	352	ePb	09	59.60	-1.1
			eSb	10	17.20	
AGG	1.44	233	ePbc	10	03.20	-0.7
			eSb	10	23.00	
KNT	1.45	331	ePb	10	04.80	0.8
			eSb	10	24.20	
GRG	1.52	315	ePbc	10	05.20	0.3
			eSb	10	25.80	
VAY	1.72	327	ePn	10	09.30	1.5
ALN	1.97	59	ePn	10	12.00	0.5
			eSn	10	39.00	
FNA	2.07	296	ePn	10	13.30	0.3
			eSn	10	40.70	
OHR	2.61	299	ePn	10	28.00	7.4X
IGT	2.71	264	ePn	10	22.00	-0.2
			eSn	10	56.80	
	S.D. = 0.9	on	12	of	13	obs.

---

* MAY 08, 1990 08h 14m 04.25± 0.86s
7.802 N ±15.6km 82.757 W ±11.7km
DEPTH = 10.0km (geophysicist)
4.7mb (10 obs.) 4.2Msz (1 obs.)
SOUTH OF PANAMA (83)

UPA	3.40	70	iPd	14	59.50	1.1
			iS	15	44.50	
ARE	26.56	155	e(P)	19	33.00	-11.7X
RSCP	27.79	355	P	19	56.50	1.0
ZOBO	27.96	149	P	19	58.00	0.2
	Z 20s	0.69um			4.2Msz	
		LR		27	32.00	
OLY	28.70	345	P	20	02.20	-1.5
SIV	31.94	138	P	20	19.00	-13.6X
ALQ	34.69	325	eP	20	57.20	0.7
	1.1s	10.13nm			4.6mb	
ANMO	34.69	325	P	20	58.20	1.7
	1.0s	7.50nm			4.5mb	
GOL	37.68	331	P	21	22.60	0.8
	1.2s	28.69nm			4.9mb	
MSU	40.47	324	P	21	45.60	0.5
RSSD	40.66	336	P	21	47.90	1.3
DAU	41.24	326	P	21	52.90	1.4
BW06	42.06	330	P	21	58.60	0.5
	1.3s	9.84nm			4.4mb	
TNP	43.32	319	P	22	09.00	0.6
IMW	43.57	330	P	22	08.80	-1.6
RSON	43.87	350	P	22	10.20	-2.2
	0.7s	9.69nm			4.7mb	
KVN	44.44	320	P	22	18.00	0.5
HPI	44.52	329	P	22	19.20	1.0
SES	48.54	336	eP	22	50.00	0.5
FFC	49.26	345	eP	23	01.00	6.1X
	0.9s	9.00nm			4.8mb	
NEW	49.69	330	P	22	57.80	-0.6
	1.2s	14.39nm			4.8mb	
LON	51.17	326	P	23	08.60	-1.1
PNT	51.63	330	eP	23	13.00	-0.1
	1.1s	29.00nm			5.1mb	
BMW	51.80	325	P	23	12.80	-1.7
YKA	59.32	343	eP	24	05.00	-3.5X
	1.1s	1.60nm			4.1mb	
INK	69.01	342	eP	25	11.00	-0.7
MBC	71.26	351	eP	25	24.00	-1.2
NB2	85.16	29	P	26	41.40	-0.4
	1.3s	8.80nm			4.8mb	
CLL	87.56	39	eP	26	53.00	-0.7
	S.D. = 1.2	on	25	of	29	obs.

? MAY 08, 1990 09h 44m 09.61± 5.71s
44.248 N ±14.3km 7.797 E ±62.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG).

SBF	0.46	214	Pg	44	19.10	0.0
			Sg	44	25.80	
FRF	1.08	231	Pg	44	30.20	0.3
			Sg	44	41.20	
LMR	1.31	226	Pg	44	33.60	-0.2
			Sg	44	48.20	
LRG	1.31	233	Pg	44	33.60	-0.2
			Sg	44	48.40	
LPG	1.45	330	Pg	44	36.20	0.0
	S.D. = 0.3	on	5	of	5	obs.

MAY 08, 1990 09h 55m 04.68± 0.26s
1.209 N ± 5.2km 123.789 E ± 6.9km
DEPTH = 33.0km (normol)
5.0mb (7 obs.) 4.3Msz (1 obs.)
MINAHASSA PENINSULA (265)

DAV	6.11	17	eP	56	35.50	0.5
TSM	6.45	298	iPc	56	39.50	-0.3
KKM	8.95	303	eP	57	12.50	-2.4
OCP	13.61	349	eP	58	15.00	-2.8X
BAG	15.43	348	eP	58	41.00	-0.9
CVP	16.51	353	eP	59	00.20	4.8X
SZP	16.57	349	eP	59	07.00	10.8X
KNA	17.55	164	eP	59	09.70	1.1
KGM	20.48	273	eP	59	42.00	-0.5
QIZ	22.37	323	eP	00	00.70	-0.9
	N 14s	1.10um				
			eS	04	07.00	
IPM	22.98	279	ePd	00	09.50	1.9
	0.9s	35.90nm			4.9mb	
WB5	23.39	154	eP	00	11.10	-0.4
WRA	23.43	154	Pc	00	11.00	-1.0
	0.7s	35.30nm			5.0mb	
SNG	23.85	285	eP	00	17.30	1.3
GZH	24.00	336	eP	00	18.00	0.6
QZH	24.12	348	eP	00	19.00	0.4

N 12s 0.80um
PJG 24.22 58 eP 00 29.30 9.7X
NANU 24.96 198 eP 00 26.00 -0.7
PMG 25.55 115 eP 00 32.00 -0.4
QIS 26.61 145 eP 00 41.00 -1.1
LOE 27.01 308 eP 00 45.00 -0.8
CHG 29.99 307 eP 01 13.00 0.2
CHTO 29.99 307 eP 01 12.30 -0.5
GYA 30.03 328 P 01 15.00 1.9
N 15s 0.50um
E 15s 0.30um
S 06 14.00
WHN 30.52 344 eP 01 18.00 0.8
NJ2 31.03 352 eP 01 25.50 3.8X
KMI 31.28 321 Pc 01 25.50 1.2
pP 01 32.50 24kmX
CD2 35.11 329 eP 01 56.70 -0.5
XAN 35.50 338 P 01 59.40 -1.1
S 07 34.00
MAT 37.61 19 eP 02 23.00 4.8X
0.9s 12.60nm 4.8mb
TIY 37.80 345 eP 02 21.60 1.7
Z 16s 0.70um 4.6MszX
N 12s 0.30um
ADE 38.60 160 iPc 02 27.20 0.6
1.1s 55.70nm 5.3mb
SHL 39.14 311 eP 02 32.50 1.1
BJI 39.27 351 eP 02 31.50 -0.5
2.0s 55.00nm 5.0mb
Z 40s 0.46um 4.0MszX
LZH 39.33 334 eP 02 33.00 0.2
2.0s 50.00nm 4.9mb
Z 20s 0.50um 4.3Msz
N 18s 1.40um
ScP 08 32.00
BRS 39.82 138 eP 02 35.00 -1.9
BWA 42.31 149 eP 02 59.20 2.0
CAN 43.31 149 eP 03 06.20 0.9
TOO 43.50 155 eP 03 08.00 1.2
GTA 43.87 333 Pd 03 10.20 0.3
Z 16s 0.60um 4.6MszX
E 12s 0.30um
GUN 44.94 310 P 03 18.90 -0.1
0.8s 40.00nm 5.4mb
DMN 45.39 309 P 03 22.50 0.0
QUE 61.05 304 eP 05 16.70 -1.5
MAIO 68.74 309 eP 06 08.00 0.3
MAW 80.39 200 iPd 07 14.80 0.8
INK 93.57 21 eP 08 18.00 -0.3
BUL 95.27 250 iPc 08 22.20 -5.1X
GOL 119.41 42 ePKP 13 52.80 -0.4
ANMO 120.88 47 ePKP 13 56.30 0.3
ALQ 120.88 47 ePKP 13 55.50 -0.5
LKO 128.48 283 PKP 14 17.42 6.5X
1.4s 65.00nm
LNV 144.45 158 ePKP 14 38.50 -1.3
CHCH 144.75 159 ePKP 14 39.50 -0.9
SAN 145.18 159 ePKP 14 40.00 -1.1
PEL 145.44 158 iPKPc 14 41.60 0.0
1.0s 27.00nm
ZOBO 160.98 143 PKP 15 05.00 0.9
SIV 164.55 162 ePKP 15 07.00 0.0
S.D. = 1.0 on 49 of 57 obs.

? MAY 08, 1990 10h 41m 48.62± 0.92s
20.387 S ±44.4km 178.565 W ±22.9km
DEPTH = 480.0km (geophysicist)
4.5mb (9 obs.)
FIJI ISLANDS REGION (181)

8RS 27.08 250 eP 46 52.00 -1.2
CTA 32.97 264 iPc 47 46.00 2.0
1.2s 78.13nm 5.1mb
WB5 44.07 262 iPd 49 14.30 -0.3
WRA 44.09 262 Pc 49 14.80 0.1
0.3s 6.70nm 4.6mb
FORR 48.82 246 eP 49 50.00 -0.8
0.3s 20.00nm 5.0mb
NANU 60.91 255 eP 51 14.50 -1.6
PCC 78.15 42 e(P) 52 58.70 0.2
BRK 78.45 42 e(P) 53 03.90 3.8X
FRI 79.57 44 e(P) 53 06.50 0.5
CMB 79.74 43 ePd 53 06.90 -0.1
WDC 79.93 40 e(P) 53 08.30 0.5
ORV 79.94 41 ePd 53 08.10 0.2
MIN 80.35 41 eP 53 09.90 -0.3
KVN 81.79 43 eP 53 17.60 -0.1
TNP 81.82 44 iP 53 18.00 0.1
0.8s 5.44nm 4.2mb
PNT 86.86 34 eP 53 42.00 -0.2
ALQ 87.75 51 eP 53 45.50 -1.5
1.0s 3.50nm 4.1mb
ANMO 87.75 51 eP 53 46.80 -0.1
FBA 88.25 13 iP 53 46.80 -1.6
0.8s 3.30nm 4.2mb
CHG 89.71 290 ePd 53 56.00 -0.1
1.0s 15.75nm 4.9mb
CHTO 89.71 290 iPd 53 56.10 0.1
0.7s 8.89nm 4.8mb
pP 55 44.30 479kmX
SES 92.09 36 ePd 54 05.70 -0.7
YKA 96.63 25 eP 54 25.10 -1.6
0.6s 0.40nm 3.9mb
NUR 136.68 343 ePKP 00 13.00 -3.5X
NB2 138.80 353 PKP 00 08.20 -12.3X
0.7s 1.90nm
HFS 139.34 351 ePKP 00 10.20 -11.2X
0.6s 3.40nm
EKA 144.94 5 PKPc 00 28.80 -2.5X
1.0s 11.40nm
KRA 146.95 338 ePKP 00 33.20 -1.5
WIT 147.38 354 ePKP 00 36.50 1.2
KSP 147.42 342 iPKPd 00 36.60 1.1
CLL 147.83 346 iPKP 00 37.20 1.1
0.9s 30.00nm
MLR 147.84 327 ePKPc 00 50.00 13.5X
BRG 148.02 345 iPKP 00 38.00 1.6
0.8s 20.00nm
WTS 148.17 354 ePKP 00 38.00 1.4
0.9s 32.00nm
PRU 148.68 344 PKP 00 39.30 1.8
e 00 46.50
ENN 149.48 354 ePKP 00 41.00 2.4X
1.0s 17.00nm
e 00 49.00
KHC 149.72 344 ePKP 00 36.80 -2.3X
e 00 42.20
DOU 150.25 356 PKP 00 43.10 3.3X
SGO 156.66 333 PKP 00 52.80 3.8X
eSg 00 57.80
MGR 156.90 332 PKP 00 57.10 7.8X
eSg 01 01.70
S.D. = 1.1 on 29 of 40 obs.

& MAY 08, 1990 11h 20m 59.98s
59.246 N 152.541 W
DEPTH = 67.6km
SOUTHERN ALASKA (2)
<AGS-P>.

AUE 0.44 285 iP 21 11.75 -0.4
iS 21 20.41
XLV 0.47 63 iP 21 11.71 -0.8
eS 21 21.22
AUL 0.48 287 iP 21 12.12 -0.4
OPT 0.54 320 iP 21 12.16 -1.0
CDD 0.65 241 eP 21 13.62 -0.8
iS 21 24.43
CNPM 0.72 67 iP 21 14.75 -0.5
eS 21 26.48
MCNL 0.93 267 iP 21 16.51 -1.2
eS 21 29.44
NNL 1.02 38 eP 21 19.27 0.4
RED 1.18 354 iP 21 20.21 -0.9
iS 21 36.13
RDT 1.33 3 iP 21 22.27 -0.8
KDC 1.50 179 eP 21 24.46 -0.8
NKA 1.64 23 iP 21 28.67 1.5
SLKM 1.72 42 eP 21 27.65 -0.7
SEW 1.79 60 eP 21 28.05 -1.2
SPU 1.96 7 iP 21 31.10 -0.5
CRP 2.04 5 iP 21 32.63 -0.2
SUA 2.40 21 eP 21 37.44 -0.4
SVW 2.42 322 iPd 21 36.50 -1.6
PMS 2.50 35 eP 21 38.38 -0.7
PWA 2.75 28 eP 21 41.93 -0.7
SKT 2.79 10 eP 21 42.35 -0.8
PLRM 2.90 34 eP 21 43.07 -1.6
PMR 2.90 34 eP 21 43.50 -1.2
TTA 4.06 337 ePc 21 59.40 -1.7
TOA 4.25 45 eP 22 02.20 -1.5
FBA 6.10 19 ePc 22 24.90 -4.6
IMA 6.87 356 eP 22 38.80 -1.5
27 obs. associated

---

* MAY 08, 1990 11h 39m 59.51± 1.08s
36.211 N ±12.9km 27.134 E ± 6.4km
DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 4.0 (ATH).

YER 1.30 45 iPn 40 23.00 -1.2
SMG 1.51 351 ePg 40 25.00 -2.3
APE 1.55 304 ePb 40 27.00 -0.8
CIN 1.58 29 eP 40 28.00 -0.2
KSL 1.98 92 ePb 40 33.00 -1.1
IZM 2.19 3 ePn 40 38.10 1.0
ELL 2.30 76 ePn 40 39.20 0.4
VAM 2.52 252 ePn 40 46.00 4.3X
KHL 2.84 41 ePn 40 47.00 0.5
BCK 3.04 65 ePn 40 51.00 1.8
ATH 3.25 304 ePg 41 00.50 8.4X
VLI 3.42 280 ePn 40 54.00 -0.6
ITM 4.30 285 ePn 41 09.00 2.0
LFK 5.29 98 eP 41 20.00 -1.1
BBTK 5.73 49 eP 41 29.00 1.5
S.D. = 1.4 on 13 of 15 obs.

MAY 08, 1990 12h 16m 06.26± 0.60s
36.002 N ± 7.2km 27.180 E ± 5.3km
DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 4.0 (ATH).

YER 1.44 38 iPn 16 30.90 -2.2
APE 1.70 309 ePg 16 34.60 -2.2
CIN 1.75 24 eP 16 36.00 -1.5
KSL 1.95 86 ePb 16 41.60 1.3
ELL 2.32 71 ePn 16 47.50 1.6
IZM 2.39 2 iPn 16 49.10 2.3
VAM 2.50 257 ePn 16 49.00 0.8
KHL 2.98 38 ePn 16 55.00 -0.1
BCK 3.10 61 ePn 17 00.50 3.7X
ATH 3.40 306 ePg 17 10.00 9.0X
VLI 3.50 283 ePn 17 02.00 -0.4
ALT 3.84 37 ePn 17 07.00 -0.3
EZN 3.88 350 ePn 17 06.00 -1.8
EDC 4.37 7 ePn 17 28.00 13.2X
ITM 4.39 287 ePn 17 16.00 0.9
CSS 5.12 100 eP 17 26.00 0.5
LFK 5.22 96 ePn 17 28.00 1.0
BBTK 5.84 47 eP 17 37.00 1.2
VAY 6.42 327 eP 17 48.50 4.7X
OHR 7.14 318 eP 17 55.50 1.5
HRI 7.56 109 eP 17 59.00 -0.9
DSI 8.13 121 eP 18 07.00 -0.7
eS 19 39.00
PRNI 8.64 129 eP 18 14.00 -1.0
MBH 8.97 132 eP 18 19.00 -0.4
KHC 16.47 327 eP 20 00.00 0.4
S.D. = 1.4 on 21 of 25 obs.

MAY 08, 1990 12h 24m 54.60± 0.48s
43.620 N ± 4.9km 12.169 E ± 4.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE 0.16 273 Pc 24 57.80 -0.5
eSg 25 00.90
RSM 0.37 34 Pc 25 03.00 0.8
eSg 25 08.30
SFI 0.38 323 P 25 01.80 -0.6
eSg 25 10.60
PGD 0.41 308 P 25 02.50 -0.6
eSg 25 09.50
ARV 0.58 102 Pc 25 05.40 -0.9
eSg 25 14.80
ASS 0.66 147 P 25 07.30 -0.4
eSg 25 15.80
PII 1.20 275 P 25 17.10 0.2
eSn 25 32.60
MME 1.21 299 P 25 17.70 0.5
eSn 25 33.00
BDI 1.22 292 P 25 17.60 0.2
eSn 25 33.30
MNS 1.29 163 P 25 19.30 0.8
eSn 25 36.30
VOY 2.71 26 ePn 25 38.80 -0.2
eSn 26 18.50
S.D. = 0.7 on 11 of 11 obs.

08d 12h

% MAY 08, 1990 12h 43m 35.98± 0.70s
43.627 N ± 7.1km 12.107 E ± 5.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.11	271	Pc	43 38.80	-0.2
			eSg	43 41.60	
SFI	0.35	328	P	43 42.80	-0.3
			eSg	43 48.70	
PGD	0.37	312	P	43 44.10	0.4
			eSg	43 50.40	
RSM	0.39	40	P	43 44.10	0.1
			eSg	43 53.10	
ARV	0.62	102	P	43 48.30	-0.2
			eSg	43 55.80	
ASS	0.69	144	P	43 49.80	0.2
			eSg	43 57.10	

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

---

* MAY 08, 1990 13h 48m 03.97± 1.14s
35.957 N ±15.1km 26.666 E ± 9.7km
DEPTH = 33.0km (normal)
CRETE (370)

APE	1.44	321	ePb	48 34.00	6.0X
SMG	1.75	4	ePn	48 33.50	1.0
YER	1.75	47	iPn	48 30.80	-1.8
CIN	2.00	34	eP	48 36.00	0.0
VAM	2.08	255	ePn	48 37.00	-0.2
KSL	2.37	85	ePn	48 42.00	0.7
IZM	2.48	11	ePn	48 48.20	5.2X
ELL	2.73	72	ePn	48 47.00	0.4
VLI	3.10	285	ePb	49 02.50	10.7X
KHL	3.28	43	ePn	48 59.00	4.6X
BCK	3.49	63	ePn	49 02.50	5.1X
ITM	4.01	289	ePb	49 17.00	12.4X
CTT	5.36	14	iPg	49 43.10	19.3X

S.D. = 1.3 on 6 of 13 obs.

? MAY 08, 1990 13h 57m 41.80± 1.13s
16.505 N ±12.6km 143.775 E ±26.1km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)
MARIANA ISLANDS REGION (215)

GUMO	3.09	160	eP	58 29.40	0.0
PJG	3.09	160	eP	58 29.30	-0.1
			eS	59 05.20	
WB5	37.32	195	eP	04 53.00	0.0
WRA	37.39	195	Pc	04 53.50	0.0
	0.8s		1.90nm	4.0mb	
GUN	54.36	293	P	07 00.00	-8.3X
YKA	80.77	27	eP	09 53.20	0.0
	0.8s		0.50nm	3.6mb	

S.D. = 0.1 on 5 of 6 obs.

---

* MAY 08, 1990 14h 20m 33.21± 1.88s
59.940 N ±18.6km 140.323 W ± 7.8km
DEPTH = 10.0km (geophysicist)
SOUTHEASTERN ALASKA (19)

PCA	0.16	12	iP	20 36.93	0.0
BALM	1.49	319	iP	20 59.34	-0.8
			eS	21 19.88	
TGL	1.49	304	iP	21 00.27	0.1
			eS	21 21.34	
HYT	1.66	56	P	21 02.60	0.0
GLB	2.28	313	iP	21 12.13	0.6
KLU	3.16	302	eP	21 24.77	0.8
VLZ	3.20	295	eP	21 24.08	-0.4
VZW	3.28	293	iP	21 25.38	-0.3

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

% MAY 08, 1990 14h 23m 14.99± 0.55s
43.632 N ± 5.8km 12.156 E ± 4.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.15	269	Pc	23 18.20	-0.3
			eSg	23 21.40	
SFI	0.36	323	P	23 22.10	-0.3
			eSg	23 25.20	
RSM	0.37	36	Pc	23 23.40	0.9
			eSg	23 28.90	
PGD	0.40	308	P	23 22.80	-0.4
			eSg	23 30.10	
ARV	0.59	103	P	23 25.80	-1.1
ASS	0.67	147	P	23 28.10	-0.3
			eSg	23 38.20	
PIL	1.19	275	P	23 37.30	0.2
BDI	1.21	291	P	23 37.90	0.4
			eSg	23 53.60	
MNS	1.30	163	P	23 40.10	0.9

S.D. = 0.8 on 9 of 9 obs.

---

* MAY 08, 1990 14h 29m 17.98± 1.06s
32.783 S ±13.6km 70.085 W ±15.2km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

FCH	0.57	198	iPd	29 32.00	2.1
			iS	29 45.00	
PEL	0.62	234	iPc	29 31.50	1.2
			iS	29 44.00	
ROCH	0.80	256	iPc	29 33.00	-0.1
			iS	29 47.00	
SAN	0.82	216	iPc	29 33.10	-0.1
			iS	29 47.40	
PCH	0.91	203	iPc	29 33.90	-0.6
			iS	29 49.50	
TACH	1.12	219	iPc	29 36.20	-1.3
			iS	29 52.80	
CHCH	1.24	202	iPc	29 38.00	-1.2
			iS	29 56.00	
LNV	1.61	223	iP	29 41.00	-3.4X
			iS	30 01.10	
ZON	1.72	44	eP	29 46.00	0.0
			eS	30 10.00	

S.D. = 1.3 on 8 of 9 obs.

MAY 08, 1990 14h 44m 41.49± 0.43s
31.158 S ± 8.2km 68.983 W ±11.1km
DEPTH = 119.5 ± 5.7 km
4.9mb (2 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.47	146	iPd	44 59.80	0.3
			eS	45 11.00	
RTLL	0.47	111	iPc	44 59.10	-0.4
RTBS	0.64	219	iPd	45 01.80	1.2
RTCV	0.80	152	e(P)	45 01.50	-0.4
FCH	2.43	207	iPc	45 22.00	0.7
			iS	45 53.20	
PEL	2.45	216	iPc	45 21.50	0.3
			i(S)	45 50.00	
ROCH	2.50	223	iPd	45 22.10	0.1
			iS	45 52.50	
SAN	2.69	211	iPc	45 24.60	0.2
			i	45 55.10	
			iS	45 56.70	
PCH	2.78	207	iPc	45 26.40	0.8
			iS	46 00.00	
IHA	2.93	230	eP	45 26.50	-0.9
			iS	45 57.00	
TACH	2.99	213	iP	45 28.00	-0.3
			iS	46 03.00	
CHCH	3.11	207	iPc	45 29.70	-0.2
			iS	46 06.00	
LNV	3.46	216	iPd	45 32.90	-1.7
			iS	46 05.50	
LPB	14.58	3	P	48 03.00	-0.6
ARE	14.81	351	eP	48 11.00	4.7X
ZOBO	14.84	3	P	48 08.70	1.7
	1.0s		62.50nm	4.8mb	
			i	48 11.00	
SIV	16.74	27	P	48 28.40	-1.8
LKO	72.91	67	Pd	56 00.76	1.1
	0.7s		22.00nm	5.0mb	
SGO	105.57	52	Pdiff	58 54.90	16.0X
			eSg	59 01.90	
WRA	124.47	207	PKPc	03 29.00	0.5
	0.5s		2.30nm		
WB5	124.52	207	ePKP	03 28.30	-0.3
GBA	144.56	112	PKPc	04 05.70	-0.2
	0.6s		6.10nm		

S.D. = 1.0 on 20 of 22 obs.

---

* MAY 08, 1990 15h 37m 16.94± 1.85s
21.890 S ±13.9km 179.429 W ±10.7km
DEPTH = 614.8 ± 24.9 km
4.5mb (5 obs.)
FIJI ISLANDS REGION (181)

DZM	13.11	267	iPd	40 07.00	0.5
HBZ	15.78	187	eP	40 32.00	-0.1
PUZ	16.25	187	eP	40 37.90	1.2
WLZ	16.47	194	eP	40 41.40	2.7
NOZ	16.81	187	eP	40 42.20	0.2
MNG	19.16	192	P	41 02.20	-1.6
THZ	20.84	196	eP	41 18.30	-0.9
KHZ	21.30	194	P	41 21.70	-1.5
LTZ	21.96	197	P	41 27.40	-1.8
BRS	25.82	252	iPc	42 04.50	0.9
	0.5s		6.00nm	4.5mb	
RMO	29.34	255	iPc	42 35.50	1.5
PMG	34.40	286	eP	43 15.80	-0.7
QIS	38.13	264	eP	43 46.50	-0.5
WB5	43.09	264	iPd	44 25.90	-0.6
			e	50 08.00	
WRA	43.10	264	Pc	44 26.00	-0.6
	0.6s		15.90nm	4.7mb	
MTN	47.87	272	iPc	45 02.00	-1.0
KNA	49.23	268	eP	45 12.60	-0.5
MBL	56.17	259	eP	46 02.00	-0.4
NANU	59.76	256	iPc	46 26.70	0.3
	0.4s		8.00nm	4.3mb	
SPA	68.24	180	iPc	47 20.60	1.3
	1.0s		24.50nm	4.7mb	
PRS	79.74	44	e(P)	48 23.50	-0.1
FRI	81.21	44	eP	48 30.70	-0.3
CMB	81.38	43	ePc	48 31.70	-0.3
WDC	81.59	40	eP	48 32.90	0.0
ORV	81.60	41	eP	48 32.60	-0.4
CHTO	89.47	290	eP	49 12.90	1.8
	0.7s		0.79nm	3.7mb	
NUR	137.87	342	iPKP	55 21.80	-11.9X
	0.7s		13.30nm		
NB2	140.18	352	PKP	55 30.20	-7.7X
	0.7s		1.20nm		
HFS	140.68	350	ePKP	55 30.50	-8.3X
	0.4s		1.70nm		
EKA	146.49	4	PKPd	55 50.30	1.6
	0.8s		4.40nm		
CLL	149.08	345	iPKPd	55 57.90	5.0X
	1.1s		16.00nm		
BRG	149.23	343	iPKP	55 57.80	4.6X
	0.8s		10.00nm		
KHC	150.92	342	ePKP	56 02.00	6.2X
SFI	156.12	340	PKP	56 01.90	-1.1
			eSg	56 03.60	
PGD	156.20	340	PKP	56 03.70	0.3
			eSg	56 06.70	
CRE	156.35	339	PKP	56 06.30	2.8X
			eSg	56 11.40	

S.D. = 1.2 on 29 of 36 obs.

---

* MAY 08, 1990 16h 11m 11.03± 1.06s
39.945 N ±14.9km 19.697 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

LCI	1.39	287	P	11 35.10	-1.3
			eSg	11 55.00	
OHR	1.44	35	ePn	11 38.70	1.5
FNA	1.53	56	eP	11 38.60	0.1
BRT	2.12	297	P	11 53.60	6.6X
AGG	2.24	113	eP	11 48.50	-0.2
SKO	2.42	33	ePn	11 50.00	-1.2
VAY	2.58	57	ePn	11 53.40	-0.2
MGR	3.19	275	P	12 03.40	1.3

S.D. = 1.4 on 7 of 8 obs.

% MAY 08, 1990 16h 34m 56.63± 1.48s
43.554 N ±13.6km 12.130 E ± 7.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.15	300	P	35 00.70	0.5
			eSg	35 03.50	
SFI	0.42	331	P	35 04.70	-0.5
			eSg	35 10.70	
PGD	0.44	317	P	35 05.40	-0.2
			eSg	35 12.70	
RSM	0.44	32	P	35 06.00	0.4
			eSg	35 16.10	
ARV	0.59	95	P	35 08.40	-0.3
			eSg	35 18.20	
ASS	0.62	141	P	35 12.00	2.8X
			eSg	35 22.50	

S.D. = 0.6 on 5 of 6 obs.

? MAY 08, 1990 17h 20m 58.62± 1.98s
29.153 S ±15.2km 70.414 W ±52.6km
DEPTH = 10.0km (geophysicist)
CENTRAL CHILE (136)

RTBS	2.63	162	eP	21 42.00	0.1
			(S)	22 24.00	
RTCB	2.71	149	eP	21 43.00	-0.1
RTLL	2.75	143	ePd	21 43.80	0.2
RTCV	3.15	150	e(P)	21 49.00	-0.2
ANT	5.43	360	e(P)	22 21.50	0.0

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

& MAY 08, 1990 18h 30m 00.70s
37.085 N 121.833 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).
Mo=1.3*10**13 Nm (BRK).

GCC	0.14	247	iPd	30 03.80	0.1
MHC	0.30	31	iPd	30 07.00	0.2
ARN	0.36	42	iPc	30 07.90	0.0
SAO	0.45	136	iPc	30 09.20	-0.5
PCC	0.60	314	iPd	30 12.00	-0.8
PRS	0.84	154	iPc	30 16.40	-0.9
			iS	30 30.10	
8KS	0.85	338	eP	30 16.90	-0.6
LLA	0.85	123	iPc	30 16.80	-0.7
BRK	0.86	337	ePd	30 17.40	-0.2
			e	30 27.80	
ZSP	0.92	339	iPc	30 18.60	-0.1
			eS	30 32.30	
PRI	1.33	135	e(P)	30 24.00	-1.7
CMB	1.49	50	iPd	30 27.20	-0.9
			iS	30 46.00	
FRI	1.70	92	e(P)	30 29.50	-1.6
KVN	3.54	55	eP	30 56.00	-1.5

14 obs. ossocioted

MAY 08, 1990 18h 40m 53.24± 0.65s
30.607 S ± 6.7km 117.324 E ± 7.3km
DEPTH = 10.0km (geophysicist)
3.9mb (1 obs.)
WESTERN AUSTRALIA (590)
Felt strongly in the Codoux oreo.

BAL	0.53	270	iPd	41 03.70	-0.3
KLB	1.05	159	iPc	41 14.50	1.4
MRWA	1.80	320	iPd	41 27.60	3.0X
NWAO	2.31	182	iPc	41 30.70	-1.3
COOL	3.30	96	iPc	41 48.30	2.3X
RKG	3.46	184	eP	41 54.00	5.7X
MEKA	4.12	15	eP	42 01.00	3.4X
	0.3s		61.00nm		
NANU	8.17	348	eP	42 55.20	0.5
	0.3s		17.00nm	5.9mb	X
			eS	44 20.00	
FORR	9.28	94	eP	43 09.00	-1.0
	0.3s		102.00nm	6.7mb	X
			eS	44 48.00	
WARB	9.31	64	iPc	43 10.80	0.3
	0.2s		54.00nm	6.6mb	X
			eS	44 51.40	
MBL	9.67	14	iPd	43 14.30	-1.2
	0.2s		11.00nm	5.9mb	X
			eS	44 57.00	
KNA	18.13	38	eP	45 07.20	0.5
			eS	48 17.00	
WRA	18.67	59	P	45 18.00	4.6X
	0.5s		4.60nm	3.9mb	
WB5	18.73	59	eP	45 12.00	-2.2X
			eS	48 32.00	
			i	51 19.00	
OIS	22.41	69	eP	45 56.00	2.5X
			eS	49 59.00	
GUN	65.48	330	P	51 40.20	1.1

S.D. = 1.1 on 9 of 16 obs.

---

* MAY 08, 1990 19h 24m 23.73± 1.01s
36.387 N ±13.0km 27.305 E ± 7.7km
DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)

YER	1.08	46	ePn	24 44.50	1.8
CIN	1.36	27	eP	24 47.00	0.4
SMG	1.37	344	ePb	24 46.00	-0.7
APE	1.58	296	ePn	24 48.70	-1.1
KSL	1.86	98	ePn	24 53.00	-0.8
ELL	2.13	79	ePn	24 57.00	-0.8
VAM	2.70	250	ePn	25 07.00	1.2
BCK	2.84	67	eP	25 15.00	7.2X

S.D. = 1.4 on 7 of 8 obs.

MAY 08, 1990 19h 40m 48.63± 0.69s
43.600 N ± 6.5km 12.132 E ± 5.0km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.38	328	P	40 55.60	-0.6
			eSg	41 01.90	
RSM	0.40	35	Pc	40 57.10	0.4
			eSg	41 07.30	
PGD	0.41	313	P	40 56.60	-0.2
			eSg	41 03.80	
ARV	0.60	100	Pc	40 59.40	-1.2
			eSg	41 09.30	
PII	1.17	276	P	41 11.00	0.0
			eSg	41 26.80	
MME	1.19	300	P	41 11.80	0.3
			eSg	41 31.00	
BDI	1.20	293	P	41 11.00	-0.6
			eSg	41 27.30	
MNS	1.28	161	P	41 13.60	0.7
BOB	2.26	302	P	41 31.40	4.2X
VOY	2.74	27	e(Pn)	41 33.30	-0.8
			eSn	42 10.20	
KBA	3.58	13	e(Pn)	41 48.00	1.9
			iSn	42 28.40	

S.D. = 1.0 on 10 of 11 obs.

MAY 08, 1990 19h 47m 45.24± 0.61s
43.578 N ± 5.9km 12.162 E ± 5.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	288	Pc	47 48.20	-0.8
			eSg	47 51.30	
RSM	0.41	31	Pc	47 53.50	-0.1
			eSg	47 57.40	
SFI	0.41	327	P	47 52.10	-1.5
			eSg	47 58.20	
PGD	0.44	313	P	47 53.00	-1.2
			eSg	48 00.30	
ARV	0.57	98	Pc	47 55.90	-1.0
			eSg	48 05.80	
ASS	0.62	144	P	47 57.50	-0.4
			eSg	48 08.70	
PII	1.20	277	P	48 07.40	-0.1
			eSg	48 23.80	
MME	1.22	301	P	48 08.30	0.1
			eSg	48 27.40	
BDI	1.23	294	P	48 08.50	0.3
			eSg	48 23.80	
MNS	1.25	162	P	48 09.00	0.5
BOB	2.29	302	P	48 25.80	2.1
CTI	2.50	352	P	48 26.90	0.3
VOY	2.75	26	ePn	48 29.40	-0.8
			eSg	49 14.50	
LJU	2.99	34	eP	48 43.00	9.5X
			e(Sn)	49 09.50	
			e	49 23.00	
FVI	3.05	8	P	48 34.10	-0.2
PTJ	3.56	48	eP	48 53.30	11.5X
KBA	3.60	13	e(Pn)	48 45.00	2.6
			iSn	49 24.70	

S.D. = 1.2 on 15 of 17 obs.

MAY 08, 1990 19h 58m 29.09± 0.36s
43.588 N ± 3.8km 12.106 E ± 3.0km
DEPTH = 9.0 ± 2.6 km
CENTRAL ITALY (381)
ML 3.2 (LDG), 3.1 (KBA).

CRE	0.12	290	Pc	58 32.30	0.2
			eSg	58 39.10	
SFI	0.38	331	P	58 36.10	-0.7
			eSg	58 44.40	
PGD	0.40	316	P	58 37.10	-0.2
			eSg	58 46.10	
RSM	0.42	36	Pc	58 37.50	-0.2
			eSg	58 48.70	
ARV	0.61	98	Pc	58 39.90	-1.6
			eSg	58 50.00	
ASS	0.66	142	P	58 41.20	-1.1
			eSg	58 52.50	
PII	1.16	277	P	58 51.30	0.5
			eSg	59 07.80	
MME	1.18	301	P	58 52.10	0.7
			eSg	59 09.50	
BDI	1.19	294	P	58 51.20	-0.2
			eSg	59 06.40	
MNS	1.27	161	P	58 53.40	0.5
			eSg	59 13.70	
AQU	1.56	142	P	58 59.30	2.3
BOB	2.25	303	P	59 10.60	3.5X
SDI	2.26	146	P	59 13.90	6.6X
TRI	2.43	29	e(P)	59 09.20	-0.3
			i	59 47.60	
CTI	2.48	353	P	59 11.20	0.8
PGF	2.50	247	Pn	59 10.40	-0.3
			Sn	59 41.10	
CEY	2.71	37	eP	59 19.00	5.3X
			e(Sn)	59 47.00	
VOY	2.75	27	ePn	59 13.80	-0.5
			eSn	59 58.10	
MDI	2.78	323	P	59 15.90	1.4
CKI	2.88	288	P	59 13.90	-2.2
			eSn	59 48.10	
VBY	2.96	49	ePn	59 28.50	11.5X
			eSn	00 11.40	
LJU	3.00	34	e(Pn)	59 17.00	-0.7
			eSn	59 53.50	
FVI	3.04	9	P	59 18.30	0.1
HVAR	3.19	96	ePn	59 20.50	0.1
SBF	3.40	276	Pn	59 22.70	-0.7
PTJ	3.59	49	eP	59 27.70	1.6
KBA	3.60	14	iPnd	59 26.90	0.6
			iSn	00 07.90	
FRF	3.97	271	Pn	59 31.00	-0.4
LRG	4.18	270	Pn	59 33.70	-0.7
			Sn	00 22.00	
LPG	4.28	298	Pn	59 36.20	0.1
			Sn	00 25.60	
KHC	5.64	10	eP	00 08.00	12.9X
			e	01 44.80	
BSF	5.64	321	Pn	59 54.80	-0.5
			Sn	00 56.60	
CDF	5.88	327	Pn	59 57.60	-0.9
			Sn	01 02.70	
HAU	5.98	320	Pn	59 59.40	-0.4
			Sn	01 04.10	
SMF	6.60	300	Pn	00 08.40	-0.2
			Sn	01 20.10	
LOR	6.87	305	Pn	00 12.70	0.3
			Sn	01 25.90	

S.D. = 0.9 on 31 of 36 obs.

MAY 08, 1990 20h 16m 18.94± 0.50s
43.614 N ± 4.8km 12.125 E ± 4.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.13	276	P	16 21.70	-0.4
			eSg	16 27.40	
SFI	0.37	327	P	16 25.70	-0.7
			eSg	16 33.40	
PGD	0.39	312	P	16 26.50	-0.5
			eSg	16 34.10	
RSM	0.39	37	P	16 26.90	-0.1
			eSg	16 32.10	
ARV	0.60	101	P	16 29.40	-1.8
			eSg	16 39.50	
ASS	0.67	144	P	16 33.20	0.9
			eSg	16 41.90	
PII	1.17	276	P	16 40.80	0.1
MME	1.18	300	P	16 41.90	0.7
BDI	1.19	293	P	16 41.10	-0.1
			eSg	16 58.20	
MNS	1.29	161	P	16 43.00	0.1
AQU	1.57	143	P	16 50.90	4.0X
TRI	2.40	29	P	16 57.30	-1.5
CTI	2.46	352	P	17 00.50	0.7
CEY	2.68	37	e(Pn)	17 04.40	1.4
			eSn	17 39.00	
VOY	2.73	27	ePn	17 03.70	0.1
			eSg	17 47.50	
VBY	2.93	49	eP	17 20.50	14.1X
			e(Sn)	18 00.70	
LJU	2.97	34	e(Pn)	17 08.00	1.0

08d 20h

			eSn	17 47.00		
FVI	3.02	9	P	17 07.80	0.3	
PTJ	3.56	49	eP	17 23.70	8.3X	
KBA	3.57	14	i(Pn)	17 37.50	21.9X	
			iSn	18 17.00		
KHC	5.61	10	eP	18 03.40	19.0X	
			e	18 34.60		

S.D. = 0.9 on 16 of 21 obs.

---

* MAY 0B, 1990 20h 22m 16.89± 0.79s
43.511 N ±15.3km 147.824 E ±10.5km
DEPTH = 44.5km (4 depth phases)
4.6mb (17 obs.) 4.3Msz (2 obs.)
KURIL ISLANDS (221)

KUSJ	2.31	261	eP	22 50.50	-2.7X	
			S	23 18.10		
HOOJ	3.52	253	eP	23 09.60	-0.8X	
			S	23 50.90		
ASAJ	3.80	281	eP	23 15.20	0.8X	
MRRJ	5.07	260	P	23 31.30	-1.0X	
			S	24 30.60		
KAKJ	9.37	221	eP	24 27.40	-4.8X	
			eS	25 58.20		
CHJJ	10.08	225	eP	24 38.90	-3.1X	
			eS	26 20.60		
MAT	10.13	230	eP	24 38.00	-4.8X	
MTMJ	10.33	231	eP	24 40.30	-5.2X	
MDJ	13.16	281	eP	25 22.10	-1.3X	
Z	16s		1.30um			
E	14s		0.80um			
CN2	16.19	279	P	26 01.00	-1.7	
Z	15s		1.20um			
N	11s		0.40um			
E	11s		0.40um			
			pP	26 05.00		
SNY	17.90	273	Pd	26 26.00	2.0	
Z	14s		0.70um			
N	16s		0.70um			
BJI	23.78	273	eP	27 25.00	-1.1	
	1.5s		39.00nm		4.7mb	
Z	16s		0.58um		4.1MszX	
			eS	31 40.00		
TIA	24.57	263	eP	27 33.50	-0.3	
NJ2	25.47	253	eP	27 42.00	-0.3	
Z	16s		0.30um		3.9MszX	
HHC	26.87	277	eP	27 55.60	0.3	
TIY	27.34	270	eP	28 00.70	1.1	
Z	16s		0.80um		4.4MszX	
N	13s		0.40um			
BTO	28.06	277	eP	28 05.00	-1.1	
N	15s		0.40um			
E	15s		0.70um			
XAN	31.52	266	P	28 35.50	-1.4	
LZH	34.27	273	eP	29 00.50	-0.4	
	2.0s		37.00nm		5.0mb	
Z	20s		0.40um		4.1Msz	
N	13s		0.30um			
			pP	29 09.00	29kmX	
GTA	35.82	280	eP	29 13.70	-0.3	
CD2	36.87	265	eP	29 22.00	-0.8	
IMA	38.61	34	eP	29 37.00	-0.1	
	0.8s		3.40nm		4.2mb	
KMI	40.95	258	eP	29 59.90	2.9	
FBA	41.00	36	eP	29 56.00	-0.7	
WMO	42.64	292	P	30 10.80	0.3	
INK	46.36	30	eP	30 40.00	0.1	
CHTO	47.69	255	eP	30 50.90	-0.1	
	1.1s		2.94nm		4.2mb	
			pP	31 03.90	48km	
			sP	31 08.30		
SHL	48.51	267	iP	30 56.40	-1.1	
MBC	48.89	18	eP	30 59.00	-0.6	
GUN	51.52	274	P	31 20.20	-0.5	
	0.7s		15.00nm		5.1mb	
DMN	52.25	274	P	31 25.60	-0.6	
SOD	60.87	338	eP	32 25.00	-1.7	
WRA	64.34	194	Pd	32 50.00	-0.2	
	0.9s		2.10nm		4.2mb	
FFC	65.60	37	iPc	32 56.70	-1.3	
	0.7s		7.00nm		4.8mb	
NUR	66.47	333	eP	32 56.00	-7.4X	
FRB	69.27	16	eP	33 19.00	-1.9	
NB2	70.00	339	P	33 24.40	-1.1	
	0.8s		8.90nm		4.8mb	
HFS	70.10	338	eP	33 24.40	-1.6	
	0.6s		7.60nm		4.8mb	
KRA	76.32	328	eP	34 02.10	-0.4	
			e	34 14.70	43km	
CLL	77.75	333	iP	34 10.40	0.0	
PRU	78.35	331	eP	34 14.20	0.5	
EKA	78.49	344	P	34 15.00	0.5	
	0.8s		2.80nm		4.3mb	
KHC	79.41	331	eP	34 20.10	0.5	
GRF	79.73	333	e(P)	34 21.00	-0.3	
Z	1Bs		0.20um		4.5Msz	
			e	34 34.50	46km	
KBA	81.23	330	eP	34 30.00	0.5	
	0.7s		4.60nm		4.6mb	
			i	34 42.30	41km	
			i	34 45.00		
SKO	82.23	323	eP	34 34.70	0.2	
VAY	82.24	322	eP	34 35.50	0.9	
LBF	84.39	336	eP	34 47.50	2.0	
	0.8s		4.05nm		4.6mb	
SSF	84.45	336	eP	34 47.70	1.9	
	1.0s		4.00nm		4.5mb	
SMF	84.73	336	eP	34 49.20	2.0	
	0.8s		4.05nm		4.6mb	
AVF	84.74	336	eP	34 49.50	2.2	
	1.0s		6.00nm		4.7mb	
LPL	84.85	334	eP	34 48.80	0.7	
LPG	84.86	334	eP	34 48.90	0.6	
	0.8s		2.70nm		4.4mb	
MAF	85.49	337	eP	34 51.80	0.8	
	0.8s		6.70nm		4.9mb	

S.D. = 1.2 on 44 of 54 obs.

MAY 08, 1990 20h 42m 12.00± 0.52s
43.597 N ± 5.4km 12.166 E ± 4.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	282	P	42 15.40	-0.3	
			eSg	42 18.60		
RSM	0.39	32	P	42 20.70	0.7	
			eSg	42 28.00		
SFI	0.40	325	P	42 19.40	-0.7	
			eSg	42 26.90		
PGD	0.43	311	P	42 20.40	-0.4	
			eSg	42 27.40		
ARV	0.57	100	P	42 23.10	-0.5	
			eSg	42 32.90		
ASS	0.64	145	P	42 24.80	0.0	
			eSg	42 33.70		
PII	1.20	277	Pc	42 34.90	0.6	
			eSg	42 50.90		
BDI	1.23	293	P	42 35.40	0.5	
			eSg	42 51.10		
MNS	1.27	163	P	42 35.70	0.1	
TRI	2.40	28	eP	43 31.20	39.3X	
KBA	3.58	13	e(Pn)	43 13.00	4.2X	
			eSn	43 51.50		

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

? MAY 08, 1990 21h 15m 57.26± 2.18s
43.125 N ±41.5km 148.204 E ±26.0km
DEPTH = 60.0km (geophysicist)
4.4mb (6 obs.)
KURIL ISLANDS REGION (222)

KUSJ	2.56	271	P	16 32.10	-4.9X	
			eS	17 00.40		
HOOJ	3.70	260	eP	16 51.40	-1.7X	
			S	17 32.50		
ASAJ	4.16	286	P	16 57.10	-2.5X	
MRRJ	5.30	265	eP	17 12.50	-3.1X	
			S	18 11.20		
OFUJ	6.38	233	eP	17 28.30	-2.4X	
MAT	10.11	233	(P)	18 20.00	-2.2X	
BJI	24.08	274	eP	21 07.00	-0.9	
	1.5s		26.00nm		4.5mb	
HHC	27.19	278	eP	21 36.20	-0.9	
TIY	27.62	271	eP	21 43.80	2.8	
BTO	28.39	278	eP	21 46.50	-1.4	
GTA	36.16	281	eP	22 56.00	0.3	
CD2	37.12	266	eP	23 03.80	0.1	
WMO	43.04	293	P	23 53.00	0.5	
E	13s		0.40um			
CHTO	47.86	255	eP	24 30.20	-0.8	
	1.2s		1.74nm		3.9mb	
			pP	24 44.90	56kmX	
			sP	24 49.80		
SHL	48.77	268	eP	24 38.00	-0.2	
YKA	55.90	34	eP	25 30.60	-0.1	
	0.8s		0.90nm		3.9mb	
FRB	69.56	16	eP	27 01.00	-0.2	
NB2	70.46	339	P	27 06.20	-0.6	
	0.8s		6.00nm		4.6mb	
HFS	70.56	33B	eP	27 06.00	-1.4	
	0.5s		6.40nm		4.8mb	
CLL	78.22	333	eP	27 51.00	-0.5	
KHC	79.88	332	P	28 02.20	1.6	
KBA	81.71	331	e(P)	28 12.00	1.5	
	0.6s		3.30nm		4.5mb	
			i	28 24.90		
			e	29 35.50		

S.D. = 1.2 on 16 of 22 obs.

% MAY 0B, 1990 21h 30m 23.01± 0.76s
43.651 N ± 7.6km 12.115 E ± 6.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.12	259	Pc	30 25.70	-0.4	
			eSg	30 28.80		
SFI	0.33	325	P	30 29.80	0.0	
			eSg	30 35.80		
PGD	0.36	308	P	30 30.70	0.2	
			eSg	30 37.80		
RSM	0.37	41	P	30 31.00	0.4	
ARV	0.62	104	P	30 34.40	-1.1	
			eSg	30 42.80		
ASS	0.70	145	P	30 37.90	1.0	
			eSg	30 45.50		

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

& MAY 08, 1990 21h 40m 17.62s
19.362 N 155.083 W
DEPTH = 9.1km
HAWAII (613)
<HVO-P>. MD 4.0 (HVO). Felt (III) at Hilo and Kolopana.

WHA	0.04	133	iPc	40 19.52	-0.1	
MKA	0.08	274	iPd	40 19.86	-0.1	
KAE	0.09	213	iPc	40 20.16	0.1	
HUL	0.11	60	iPd	40 20.47	0.0	
			iS	40 22.49		
PUH	0.13	277	iPd	40 20.63	-0.1	
			iS	40 22.85		
MVH	0.14	8	iPd	40 21.01	0.1	
ESR	0.16	288	iPd	40 21.11	-0.1	
PWH	0.15	240	iPd	40 21.33	0.2	
AHA	0.17	274	iPd	40 21.38	-0.1	
			eS	40 23.96		
PKL	0.18	58	iPd	40 21.42	-0.2	
RIM	0.19	281	iPd	40 21.57	-0.2	
OUT	0.19	278	iPd	40 21.64	-0.2	
NPH	0.20	286	iPd	40 21.60	-0.3	
KNH	0.20	262	iPd	40 21.77	-0.2	
HLP	0.22	254	iPd	40 22.33	-0.1	
CPK	0.23	278	ePc	40 22.44	-0.2	
POH	0.24	66	ePd	40 22.55	-0.1	
HBH	0.24	46	iPc	40 22.71	0.0	
KPO	0.27	59	iPd	40 22.92	-0.3	
MLX	0.27	292	ePd	40 22.81	-0.4	
DES	0.29	265	iPd	40 23.03	-0.6	
MLH	0.32	295	iPd	40 23.90	-0.4	
KFH	0.32	281	iPd	40 24.11	-0.2	
NGH	0.34	9	iPd	40 24.97	0.3	
AIN	0.36	272	iPd	40 24.55	-0.4	
PLL	0.40	296	iPd	40 24.97	-0.8	
WOH	0.41	255	iPc	40 25.69	-0.3	
PPL	0.41	241	iPc	40 25.65	-0.4	
TRH	0.44	277	iPd	40 26.13	-0.6	
HMH	0.45	303	iPd	40 26.21	-0.6	
MWH	0.50	285	iPc	40 27.18	-0.7	
WOB	0.50	290	iPc	40 27.12	-0.8	
KHU	0.52	257	iPc	40 27.01	-1.1	
HPU	0.55	320	iPd	40 27.93	-0.8	
DAH	0.55	270	iPc	40 27.40	-1.4	
KKU	0.58	335	iPc	40 28.77	-0.6	
WKH	0.74	312	ePd	40 30.40	-1.9	
KUH	0.75	263	ePc	40 29.96	-2.5	
HUH	0.78	295	ePc	40 31.32	-1.8	

39 obs. ossociated

MAY 08, 1990 22h 33m 16.34± 0.30s
43.576 N ± 3.1km 12.129 E ± 2.5km
DEPTH = 9.4 ± 1.9 km

CENTRAL ITALY (381)
ML 3.9 (KBA), 3.8 (ZAG), 3.6 (VKA), 3.4 (LDG). MD 4.0 (TRI).

CRE	0.14	292	Pc	33 19.50	-0.1
			eSg	33 24.70	
SFI	0.40	330	P	33 23.60	-0.9
			eSg	33 31.40	
PGD	0.42	316	P	33 24.80	-0.1
			eSg	33 40.90	
RSM	0.42	34	P	33 25.00	0.1
			eSg	33 30.00	
ARV	0.60	97	Pc	33 27.30	-1.1
			eSg	33 37.00	
ASS	0.64	142	P	33 28.80	-0.3
			eSg	33 40.90	
PII	1.17	278	P	33 39.00	0.7
			eSg	33 55.60	
MME	1.20	301	P	33 39.40	0.4
			eSg	33 58.70	
BDI	1.21	294	P	33 38.80	-0.2
			eSg	33 55.30	
MNS	1.26	161	P	33 40.40	0.6
MAO	1.36	212	P	33 41.60	0.2
AQU	1.54	142	P	33 44.90	0.9
RMP	1.81	166	P	33 52.00	4.1X
AZI	1.86	148	P	33 54.10	5.6X
RDP	1.87	166	P	33 53.40	4.6X
SDI	2.25	146	P	33 55.80	1.6
BOB	2.27	303	P	33 56.00	1.4
SAL	2.33	331	P	34 03.00	7.6X
RIY	2.40	42	ePn	33 54.90	-1.4
			iSg	34 32.00	
TRI	2.43	28	ePn	33 55.90	-0.9
			iSg	35 35.20	
CTI	2.50	352	P	33 58.10	0.3
PGF	2.51	247	Pn	33 57.90	-0.2
DUI	2.57	137	P	34 05.10	6.2X
CEY	2.71	36	ePn	34 00.00	-0.9
			eSn	34 33.50	
PCP	2.76	292	P	34 01.11	-0.4
VOY	2.76	26	ePnc	34 00.60	-1.0
			eSg	34 46.00	
MDI	2.80	323	P	34 03.50	1.5
CKI	2.90	288	P	34 02.90	-0.6
			eSn	34 35.30	
FIN	2.90	284	P	34 02.16	-1.4
VBY	2.95	48	ePn	34 04.70	0.5
			iSg	35 03.10	
LJU	3.00	34	ePn	34 04.60	-0.3
			eSn	34 40.80	
FVI	3.05	8	P	34 04.00	-1.5
ROB	3.16	285	P	34 05.55	-1.6
HVAR	3.17	96	ePn	34 07.30	0.0
			iSg	34 46.00	
VAI	3.31	315	P	34 10.30	1.0
OGA	3.38	347	eP	34 10.40	-0.1
OSS	3.41	336	ePc	34 13.00	2.1
SBF	3.41	276	Pn	34 10.30	-0.5
			Sn	34 49.20	
BSS	3.42	144	P	34 26.80	15.9X
TMA	3.43	319	ePc	34 11.40	0.3
ENR	3.46	282	P	34 10.78	-0.8
VDL	3.47	328	ePd	34 13.50	1.8
SCE	3.48	355	iPc	34 12.90	1.1
STV	3.54	283	P	34 12.26	-0.3
ZAG	3.55	49	eP	34 16.00	3.4X
			iSn	34 57.20	
			iSg	35 13.00	
PTJ	3.58	48	e(P)	34 14.60	1.4
			eSn	35 02.00	
ORX	3.61	306	P	34 12.42	-1.2
KBA	3.61	13	ePn	34 13.50	-0.1
			ic	34 14.10	
			iSn	34 56.40	
			iSg	35 14.60	
DOI	3.64	286	P	34 13.70	-0.4
PZZ	3.74	286	P	34 14.56	-1.0
RSP	3.83	296	P	34 16.48	-0.4
SGO	3.83	141	P	34 20.40	3.7X
MMK	3.86	311	ePd	34 19.30	2.0
LLS	3.97	327	ePd	34 21.20	2.4
FRF	3.98	272	Pn	34 18.40	-0.4
			Sn	35 02.80	
LSD	4.02	300	P	34 18.67	-1.0
RRL	4.07	291	P	34 19.70	-0.5
SAX	4.16	333	ePd	34 23.50	1.8
BHG	4.18	7	iPc	34 22.60	1.0
DIX	4.19	308	ePd	34 24.70	2.7X
LRG	4.20	270	Pn	34 21.00	-0.8
			Sn	35 08.10	
BAI	4.28	123	P	34 23.50	0.4
LPG	4.30	298	Pn	34 24.00	0.4
EMS	4.46	306	ePd	34 27.80	2.0
ZLA	4.71	327	ePd	34 30.30	1.1
SLE	4.90	330	ePd	34 32.20	0.3
VKA	5.53	30	e(Pn)	34 41.00	0.3
			i	34 43.00	
			e(Sn)	35 44.00	
			e	36 10.00	
WET	5.60	5	iPc	34 40.20	-1.5
KHC	5.65	10	Pn	34 40.90	-1.5
			ePg	34 47.00	
			Sg	35 46.10	
BSF	5.66	321	Pn	34 42.20	-0.5
			Sn	35 45.10	
ZST	5.78	35	eP	34 57.00	12.8X
			e	35 05.50	
			e	36 34.30	
CDF	5.90	327	Pn	34 44.90	-1.1
			Sn	35 52.00	
HAU	6.00	320	Pn	34 46.80	-0.5
			Sn	35 53.20	
SRO	6.06	43	eP	34 53.40	5.3X
			e	35 14.40	
			e	35 46.30	
			e	36 13.70	
GRF	6.15	354	e(Pn)	34 47.30	-2.2
			e(Sg)	35 55.00	
SMF	6.62	300	Pn	34 55.70	-0.4
			Sn	36 07.80	
PRU	6.63	14	ePn	34 57.50	1.3
			Sg	36 07.00	
OHR	6.88	108	ePn	35 00.10	0.3
	0.6s		40.00nm		5.7mb X
			e	36 18.80	
LOR	6.89	305	Pn	34 58.80	-1.1
SKO	7.04	100	ePn	35 01.00	-1.0
CLL	7.76	4	(Pg)	35 09.00	-3.1X
			e	36 50.00	
DOU	8.32	324	Pc	35 33.10	13.3X
	0.4s		2.10nm		
	S.D. = 1.1		on 69 of 82 obs.		

& MAY 08, 1990 22h 35m 59.38s
63.709 N 152.479 W
DEPTH = 32.2km
CENTRAL ALASKA (1)
<AGS-P>. ML 4.0 (PMR).

KTH	0.71	102	iP	36 12.62	-0.5
			iS	36 21.89	
HUR	1.48	119	iP	36 24.63	0.6
			eS	36 43.27	
MCK	1.58	88	eP	36 25.62	0.1
CUT	1.65	141	iP	36 26.93	0.4
RND	1.65	99	eP	36 26.52	-0.1
			eS	36 47.71	
NEA	1.73	58	eP	36 26.40	-1.2
TTA	1.78	245	ePc	36 26.70	-1.7
SKT	1.79	165	iP	36 28.23	-0.3
			eS	36 51.97	
WRH	2.07	66	eP	36 31.34	-1.3
CCB	2.25	63	iP	36 33.65	-1.4
NCG	2.32	176	iP	36 35.77	-0.4
FBA	2.37	58	iPc	36 35.30	-1.5
PWA	2.39	149	eP	36 36.42	-0.6
SUA	2.39	160	eP	36 36.55	-0.7
IMA	2.42	348	eP	36 37.80	0.1
CRP	2.46	176	eP	36 37.95	-0.3
HDA	2.53	71	eP	36 37.76	-1.3
GHO	2.54	138	eP	36 38.83	-0.5
SPU	2.54	175	iP	36 39.21	-0.1
GLM	2.56	58	eP	36 38.05	-1.5
PLRM	2.63	142	eP	36 40.70	0.3
PMR	2.63	142	eP	36 40.20	-0.2
SML	2.70	133	eP	36 40.72	-0.8
PMS	2.82	150	eP	36 42.81	-0.4
SVW	2.99	211	eP	36 44.00	-1.7
NCA	3.11	121	eP	36 46.79	-0.6
RDT	3.15	179	eP	36 47.21	-0.7
PAX	3.25	100	eP	36 49.68	0.4
TOA	3.30	116	eP	36 50.10	0.0
RED	3.31	183	eP	36 49.19	-1.0
SLKM	3.38	161	eP	36 50.39	-0.9
KLU	3.76	123	eP	36 56.60	0.0
GLI	3.79	136	eP	36 56.86	-0.1
VZW	3.83	131	iP	36 57.54	0.0
VLZ	3.85	129	eP	36 57.03	-0.8
GLB	4.61	116	eP	37 08.50	-0.1
CDD	4.83	187	eP	37 11.69	0.0
TGL	5.40	119	iP	37 18.88	-0.9
BALM	5.42	115	iP	37 19.21	-1.0
INK	8.97	51	P	38 12.00	2.4
	40 obs. associated				

MAY 08, 1990 22h 37m 24.86± 0.49s
43.629 N ± 5.1km 12.148 E ± 3.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
ML 2.9 (KBA).

CRE	0.14	270	Pc	37 27.80	-0.5
			eSg	37 33.40	
SFI	0.36	324	P	37 31.70	-0.6
			eSg	37 40.10	
RSM	0.37	36	P	37 32.90	0.4
			eSg	37 38.00	
PGD	0.39	309	P	37 32.50	-0.5
			eSg	37 39.60	
ARV	0.59	102	P	37 35.50	-1.4
			eSg	37 45.40	
ASS	0.67	146	P	37 38.90	0.6
			eSg	37 47.90	
PII	1.18	275	P	37 46.90	0.0
			eSg	38 03.40	
MME	1.19	299	P	37 47.60	0.4
			eSg	38 01.50	
BDI	1.20	292	P	37 48.10	0.8
			eSg	38 03.30	
RIY	2.35	42	e(Pn)	38 05.00	1.0
TRI	2.38	28	e(P)	38 03.60	-0.9
			e	38 43.20	
VOY	2.70	27	ePn	38 08.80	-0.4
			eSg	38 47.60	
LJU	2.95	34	e(Pn)	38 12.50	-0.1
			eSn	38 51.60	
HVAR	3.17	97	i(Pn)	38 16.00	0.3
KBA	3.55	13	ePn	38 22.00	0.7
			iSn	39 03.50	
	S.D. = 0.7		on 15 of 15 obs.		

MAY 08, 1990 22h 38m 34.56± 0.71s
43.565 N ± 7.3km 12.142 E ± 5.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
ML 3.0 (KBA).

CRE	0.15	295	Pc	38 37.60	-0.6
			eSg	38 42.10	
SFI	0.41	330	P	38 42.30	-0.7
			eSg	38 50.70	
RSM	0.43	32	Pc	38 42.90	-0.4
			eSg	38 54.30	
PGD	0.44	316	P	38 42.70	-0.8
			eSg	38 49.60	
ARV	0.59	96	P	38 45.50	-0.9
			eSg	38 55.10	
ASS	0.62	142	P	38 47.40	0.3
			eSg	38 57.40	
PII	1.19	278	P	38 56.70	0.1
			eSg	39 11.60	
MME	1.22	302	P	38 57.70	0.3
			eSg	39 07.40	
BDI	1.22	295	P	38 58.10	0.7
			eSg	39 14.00	
TRI	2.44	28	iP	39 52.90	37.9X
KBA	3.61	13	i(Pn)	39 33.90	2.0
			iSn	40 13.40	
	S.D. = 1.0		on 10 of 11 obs.		

% MAY 08, 1990 23h 20m 40.15± 0.77s
43.583 N ± 7.6km 12.123 E ± 6.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.13	290	P	20 43.70	0.3
			eSg	20 46.50	
SFI	0.39	330	P	20 47.60	-0.5
			eSg	20 53.70	
PGD	0.41	315	P	20 48.70	0.1

08d 23h

		eSg	20	55.60		
RSM	0.42	35 P	20	49.10	0.4	
		eSg	21	00.40		
ARV	0.60	98 P	20	52.00	-0.3	
		eSg	21	01.60		
ASS	0.65	142 P	20	53.20	0.1	
		eSg	21	03.80		
MNS	1.27	161 P	21	15.30	11.6X	
		eSn	21	26.80		
S.D. = 0.5		on 6 of 7 obs.				

MAY 08, 1990 23h 21m 33.94± 0.94s
43.562 N ± 9.6km 12.121 E ± 7.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.14	299 P	21	36.00	-1.3	
		eSg	21	42.40		
SFI	0.41	332 P	21	43.60	1.3	
		eSg	21	53.10		
PGD	0.43	317 P	21	43.10	0.4	
		eSg	21	50.90		
RSM	0.44	33 P	21	41.30	-1.6	
		eSg	21	55.80		
ARV	0.60	96 P	21	47.70	1.6	
		eSg	21	57.20		
ASS	0.63	141 P	21	46.00	-0.6	
		eSg	21	59.50		
PII	1.17	278 P	21	56.00	0.2	
		eSn	22	15.10		
MME	1.21	302 P	22	00.10	3.5X	
		eSn	22	15.90		
BDI	1.21	295 P	22	00.90	4.4X	
		eSn	22	12.30		
MNS	1.25	161 P	22	01.00	3.9X	
		eSn	22	22.10		
VOY	2.77	26 e(Pn)	22	24.00	4.7X	
		eSn	23	05.30		
PTJ	3.60	48 eP	22	45.20	14.2X	
KBA	3.62	13 e(Pn)	22	34.00	2.6X	
		e	23	16.00		
S.D. = 1.5		on 7 of 13 obs.				

MAY 08, 1990 23h 27m 52.57± 0.66s
35.985 N ± 7.9km 27.075 E ± 5.3km
DEPTH = 10.0km (geophysicist)
4.1mb (3 obs.)
DODECANESE ISLANDS (369)
ML 4.1 (ATH).

YER	1.50	40 iPn	28	17.80	-1.8	
APE	1.65	311 ePb	28	21.40	-0.3	
SMG	1.73	354 ePb	28	19.50	-3.3X	
CIN	1.80	26 ePn	28	22.00	-1.9	
		iSg	28	44.00		
KSL	2.04	85 ePn	28	28.60	1.3	
ELL	2.41	71 ePn	28	34.50	1.7	
VAM	2.41	257 ePn	28	37.00	4.3X	
IZM	2.41	3 iPn	28	33.30	0.6	
KHL	3.04	39 ePn	28	41.10	-0.6	
BCK	3.18	61 ePn	28	45.00	1.3	
ATH	3.34	307 ePg	28	54.00	8.1X	
VLI	3.42	284 ePn	28	48.00	1.0	
EZN	3.88	351 iPn	28	50.00	-3.5X	
ALT	3.90	37 ePn	28	54.00	0.1	
ITM	4.31	288 ePn	29	03.00	3.3X	
EDC	4.40	8 iPn	29	14.90	14.0X	
PPCY	4.44	103 eP	29	02.00	0.5	
AGG	4.84	310 eP	29	11.80	4.6X	
YLV	4.92	21 ePn	29	15.00	6.7X	
CSS	5.21	99 eP	29	12.50	0.1	
LFK	5.31	96 eP	29	15.50	1.7	
ITU	5.33	16 eP	29	33.00	18.9X	
BBTK	5.92	48 eP	29	22.00	-0.5	
VAY	6.39	328 eP	29	28.70	-0.3	
FNA	6.56	319 eP	29	31.30	-0.2	
OHR	7.10	318 eP	29	40.00	1.0	
HRI	7.64	108 eP	29	45.00	-1.7	
DSI	8.19	120 eP	29	54.00	-0.3	
		eS	31	24.00		
PRNI	8.70	128 eP	30	00.00	-1.4	
MBH	9.02	131 eP	29	59.50	-6.3X	
KBA	15.09	321 eP	31	33.00	5.4X	
	1.0s	11.60nm		4.3mb		
		e	31	45.00		
KHC	16.44	327 P	31	46.70	1.9	
SMF	20.37	309 eP	32	30.70	-1.2	
	1.2s	5.95nm		3.8mb		
SSF	20.75	309 eP	32	34.80	-1.0	
	1.2s	11.90nm		4.1mb		
S.D. = 1.2		on 23 of 34 obs.				

% MAY 08, 1990 23h 32m 54.19± 1.51s
43.552 N ±13.8km 12.142 E ± 7.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	299 P	32	58.10	0.2	
		eSg	33	02.20		
SFI	0.43	330 P	33	02.20	-0.7	
		eSg	33	10.70		
RSM	0.44	31 P	33	03.40	0.3	
		eSg	33	10.30		
PGD	0.44	317 P	33	03.60	0.3	
		eSg	33	09.90		
ARV	0.58	95 P	33	05.90	-0.1	
		eSg	33	15.40		
S.D. = 0.6		on 5 of 5 obs.				

% MAY 08, 1990 23h 38m 18.69± 1.51s
39.384 N ±11.7km 23.283 E ±10.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.3 (THE).

PAIG	0.62	29 ePgd	38	31.60	0.4	
		eSg	38	41.30		
AGG	0.82	244 ePg	38	34.60	-0.1	
		eSg	38	48.00		
LIT	0.94	320 ePg	38	37.20	0.6	
		eSg	38	51.40		
OUR	1.09	29 ePg	38	39.00	-0.2	
		eSg	38	53.30		
THE	1.27	349 ePb	38	41.80	-0.4	
GRG	1.71	337 ePn	38	48.40	-0.3	
		eSn	39	10.60		
S.D. = 0.5		on 6 of 6 obs.				

MAY 08, 1990 23h 42m 31.54± 0.39s
43.624 N ± 4.2km 12.106 E ± 3.8km
DEPTH = 13.7 ± 3.1 km
CENTRAL ITALY (381)
ML 3.0 (LDG).

CRE	0.11	272 P	42	34.30	-0.7	
		eSg	42	38.60		
SFI	0.35	328 P	42	38.00	-0.9	
		eSg	42	43.90		
PGD	0.38	312 P	42	38.80	-0.8	
RSM	0.39	39 Pc	42	39.50	-0.3	
		eSg	42	50.60		
ARV	0.62	101 P	42	42.70	-1.0	
ASS	0.69	144 P	42	39.20	-5.6X	
		eSg	42	54.70		
PII	1.15	275 P	42	53.30	0.6	
MME	1.16	300 P	42	54.10	1.0	
BDI	1.18	292 P	42	53.80	0.6	
MNS	1.31	161 P	42	55.00	-0.4	
		eSn	43	17.20		
AQU	1.59	143 P	43	00.10	0.8	
		eSn	43	30.10		
BOB	2.23	302 P	43	11.20	2.5	
SDI	2.29	146 P	43	10.70	1.1	
RIY	2.37	43 e(Pn)	43	10.00	-0.6	
CTI	2.45	353 P	43	12.40	0.6	
		eSn	43	44.80		
PGF	2.52	246 Pn	43	12.30	-0.5	
VOY	2.72	27 ePn	43	15.20	-0.5	
		eSg	43	58.20		
MDI	2.75	322 P	43	19.90	3.9X	
		eSn	44	02.30		
CKI	2.87	288 P	43	19.00	1.2	
LJU	2.97	35 eP	43	29.00	9.9X	
		e(Sn)	43	56.50		
FVI	3.01	9 P	43	20.40	0.8	
SBF	3.39	276 Pn	43	24.80	-0.4	
		Sn	44	03.90		
KBA	3.56	14 ePn	43	28.00	0.3	
		e	44	05.00		
		i	44	12.50		
PTJ	3.56	49 eP	43	32.70	5.1X	
FRF	3.97	271 Pn	43	31.70	-1.5	
		Sn	44	18.60		
LRG	4.18	270 Pn	43	35.20	-1.1	
		Sn	44	24.00		
LPG	4.26	298 Pn	43	37.80	0.1	
KHC	5.60	10 ePg	44	02.00	5.5X	
		eSg	45	01.50		
BSF	5.62	320 Pn	43	57.00	0.3	
		Sn	44	59.70		
CDF	5.85	327 Pn	43	59.70	-0.3	
		Sn	45	05.90		
HAU	5.95	319 Pn	44	01.10	-0.2	
		Sn	45	06.50		
SMF	6.58	300 Pn	44	10.40	0.1	
		Sn	45	21.60		
LBF	6.64	303 Pn	44	10.10	-1.1	
		Sn	45	23.10		
LOR	6.85	305 Pn	44	13.70	-0.3	
		Sn	45	28.50		
S.D. = 0.9		on 29 of 34 obs.				

* MAY 08, 1990 23h 45m 49.87± 0.89s
36.373 N ±12.3km 27.179 E ± 6.3km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 4.0 (ATH).

YER	1.17	49 iPn	46	11.30	-0.4	
SMG	1.36	348 ePg	46	15.00	0.2	
CIN	1.42	30 ePn	46	16.00	0.3	
		iSg	46	36.00		
APE	1.50	298 ePb	46	16.50	-0.3	
KSL	1.96	97 ePb	46	22.40	-1.1	
IZM	2.02	2 ePn	46	29.30	4.9X	
ELL	2.23	80 ePn	46	28.00	0.5	
VAM	2.60	249 ePn	46	34.50	1.8	
KHL	2.70	43 ePn	46	39.00	4.8X	
BCK	2.94	67 ePn	46	40.50	2.9X	
ATH	3.19	301 ePb	46	46.00	4.9X	
VLI	3.43	277 ePn	46	42.00	-2.5	
ALT	3.55	40 ePn	46	47.00	0.8	
ITM	4.29	282 ePn	46	57.50	0.8	
S.D. = 1.3		on 10 of 14 obs.				

% MAY 08, 1990 23h 53m 19.86± 0.79s
43.579 N ± 7.7km 12.108 E ± 6.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.12	294 P	53	23.50	0.5	
		eSg	53	26.60		
SFI	0.39	332 P	53	27.50	-0.3	
		eSg	53	33.40		
PGD	0.41	317 P	53	28.00	-0.3	
		eSg	53	35.30		
RSM	0.43	35 P	53	28.90	0.3	
		eSg	53	37.10		
ARV	0.61	97 P	53	32.10	-0.1	
		eSg	53	41.30		
ASS	0.65	141 P	53	32.80	-0.1	
		eSg	53	45.40		
S.D. = 0.4		on 6 of 6 obs.				

% MAY 08, 1990 23h 54m 08.58± 0.52s
43.593 N ± 5.4km 12.170 E ± 4.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	283 Pc	54	11.90	-0.5	
		eSg	54	14.30		
RSM	0.39	31 Pc	54	17.00	0.4	
		eSg	54	28.50		
SFI	0.40	325 P	54	16.60	-0.2	
		eSg	54	23.20		
PGD	0.43	311 P	54	17.10	-0.3	
		eSg	54	23.90		
ARV	0.57	99 P	54	19.70	-0.4	
		eSg	54	29.50		
ASS	0.63	145 P	54	21.00	-0.3	
		eSg	54	32.20		
PII	1.20	277 P	54	30.80	-0.1	
		eSg	54	47.30		
BDI	1.23	293 P	54	32.40	0.9	
		eSg	54	48.20		
MNS	1.26	163 P	54	32.70	0.6	
S.D. = 0.6		on 9 of 9 obs.				

% MAY 08, 1990 23h 57m 57.53± 1.19s
43.606 N ±11.5km 12.105 E ± 6.6km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

CRE	0.11	281	P	58 00.90	0.4
			eSg	58 04.00	
SFI	0.36	330	P	58 04.50	-0.5
			eSg	58 10.90	
PGD	0.39	314	P	58 05.50	0.0
			eSg	58 12.90	
RSM	0.41	38	P	58 06.30	0.4
			eSg	58 17.70	
ARV	0.62	100	P	58 09.70	-0.3
			eSg	58 19.00	

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

% MAY 09, 1990 00h 05m 25.44± 0.75s
43.598 N ± 7.4km 12.107 E ± 6.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.12	285	P	05 28.90	0.4
			eSg	05 30.90	
SFI	0.37	330	Pd	05 32.70	-0.4
			eSg	05 37.10	
PGD	0.39	315	P	05 33.50	-0.1
			eSg	05 40.60	
RSM	0.41	37	P	05 34.10	0.2
			eSg	05 41.90	
ARV	0.61	99	P	05 37.90	0.0
			eSg	05 46.30	
ASS	0.66	142	P	05 38.50	-0.2
			eSg	05 50.30	

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

% MAY 09, 1990 00h 10m 33.37± 1.36s
43.576 N ±12.8km 12.125 E ± 7.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.14	293	Pc	10 37.20	0.5
			eSg	10 39.50	
SFI	0.40	330	P	10 40.90	-0.6
			eSg	10 45.30	
PGD	0.42	316	P	10 41.90	-0.1
			eSg	10 48.40	
RSM	0.42	34	Pc	10 42.50	0.5
			eSg	10 52.00	
ARV	0.60	97	P	10 45.20	-0.3
			eSg	10 54.80	
MNS	1.26	161	P	11 01.90	5.1X
			eSg	11 20.20	

S.D. = 0.7 on 5 of 6 obs.

? MAY 09, 1990 00h 34m 22.20± 0.97s
15.808 N ±10.8km 147.943 E ±25.4km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
MARIANA ISLANDS REGION (215)

MAT	22.39	339	(P)	39 19.00	-0.2
	0.9s	10.92nm		4.3mb	
BJI	36.70	317	eP	41 27.00	-0.9
WB5	37.89	201	eP	41 38.00	-0.2
WRA	37.96	201	Pd	41 38.30	-0.5
	0.8s	3.70nm		4.3mb	
CHTO	46.76	281	e(P)	42 51.20	0.6
GUN	58.32	293	P	44 17.40	0.3
	0.8s	15.00nm		5.1mb	
DMN	59.02	293	P	44 26.00	4.2X
KIC	145.12	307	PKP	53 59.14	0.2
	0.6s	5.50nm			
TIC	145.15	308	PKP	53 59.04	0.1
LIC	145.42	307	PKP	53 59.98	0.6
	1.0s	18.00nm			

S.D. = 0.6 on 9 of 10 obs.

MAY 09, 1990 00h 46m 54.38± 0.57s
43.626 N ± 5.7km 12.182 E ± 4.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.17	271	Pc	46 57.80	-0.5
			eSg	47 00.60	
RSM	0.36	33	Pc	47 03.10	1.3
			eSg	47 08.50	
SFI	0.38	321	Pd	47 01.60	-0.6
			eSg	47 07.40	
PGD	0.42	307	P	47 02.50	-0.4
			eSg	47 09.20	
ARV	0.57	103	P	47 06.20	0.3
			eSg	47 15.30	
ASS	0.66	148	P	47 06.90	-0.6
			eSg	47 16.30	
PII	1.21	275	P	47 17.10	0.3
			eSg	47 33.10	
MME	1.21	298	P	47 18.30	1.2
			eSg	47 32.80	
BDI	1.23	291	P	47 17.80	0.5
			eSg	47 32.90	
MNS	1.29	163	P	47 18.60	0.2
			eSg	47 36.10	
VOY	2.70	26	e(Pn)	47 44.00	5.3X
			eSg	48 21.30	
KBA	3.55	13	e(Pn)	47 49.00	-1.8
			e(Sn)	48 29.00	

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

MAY 09, 1990 00h 50m 59.45± 0.49s
15.059 N ± 8.2km 147.526 E ± 8.8km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
MARIANA ISLANDS REGION (215)

PJG	2.96	241	eP	51 45.20	-0.1
			eS	52 16.50	
GUMO	2.96	241	eP	51 45.10	-0.2
MAT	22.95	340	(P)	55 58.00	-4.0X
	0.9s	14.29nm		4.5mb	
BJI	36.98	318	eP	58 08.00	0.4
	1.5s	26.00nm		4.9mb	
WB5	37.05	201	eP	58 09.00	0.6
WRA	37.12	201	Pd	58 07.90	-1.1
	0.9s	4.70nm		4.3mb	
TIY	38.35	313	eP	58 19.50	0.2
GYA	39.70	293	eP	58 32.00	1.3
LZH	44.17	307	eP	59 05.50	-1.7
	2.5s	67.00nm		5.0mb	
CHG	46.52	282	eP	59 26.40	0.5
CHTO	46.52	282	eP	59 25.90	0.0
	0.7s	1.75nm		4.1mb	
GTA	48.18	310	eP	59 38.80	-0.1
WMQ	58.02	312	P	00 51.50	-0.2
INK	72.03	23	eP	02 21.00	-0.7
M8C	76.22	14	ePc	02 46.00	0.1
	1.0s	6.00nm		4.6mb	
SES	85.65	39	eP	03 36.00	-0.2
KIC	145.24	306	PKP	10 36.20	-0.2
TIC	145.28	306	PKP	10 36.10	-0.4
LIC	145.54	306	PKP	10 37.00	0.1
ZOBO	145.68	97	PKP	10 39.20	1.4

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

MAY 09, 1990 00h 51m 25.84± 0.60s
43.607 N ± 6.3km 12.139 E ± 5.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.14	279	Pc	51 28.70	-0.5
			eSg	51 31.60	
SFI	0.38	327	Pd	51 32.50	-1.1
			eSg	51 38.10	
RSM	0.39	35	Pc	51 33.90	0.0
			eSg	51 39.50	
PGD	0.40	312	Pd	51 33.30	-0.9
			eSg	51 39.80	
ARV	0.59	100	P	51 36.60	-1.3
			eSg	51 46.30	
ASS	0.66	144	P	51 37.80	-1.2
			eSg	51 47.00	
PII	1.18	276	P	51 47.80	0.0
			eSg	52 04.50	
MME	1.19	300	P	51 49.30	1.0
			eSg	52 03.90	
BDI	1.20	293	P	51 48.70	0.4
			eSg	52 03.40	
MNS	1.28	162	P	51 49.30	-0.4
			eSg	52 12.70	
AQU	1.56	143	P	51 56.10	2.4
			eSn	52 25.10	
KBA	3.57	13	e(Pn)	52 24.00	1.4
			e(Sn)	53 06.50	

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

% MAY 09, 1990 00h 57m 09.83± 0.68s
43.600 N ± 7.2km 12.173 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

RSM	0.38	32	Pc	57 18.30	0.6
			eSg	57 24.20	
SFI	0.40	324	P	57 17.10	-0.8
			eSg	57 22.90	
PGD	0.43	310	P	57 18.30	-0.3
			eSg	57 23.60	
ARV	0.57	100	Pc	57 21.10	-0.3
			eSg	57 30.50	
ASS	0.64	146	P	57 22.60	-0.1
			eSg	57 34.40	
PII	1.20	276	P	57 32.40	0.2
			eSg	57 48.60	
BDI	1.23	293	P	57 33.50	0.7
			eSg	57 48.80	

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

& MAY 09, 1990 01h 00m 58.20s
60.242 N 150.498 W
DEPTH = 31.8km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

SLKM	0.30	27	iP	01 05.58	-0.3
			iS	01 12.42	
NNL	0.45	244	iP	01 08.38	0.4
SEW	0.54	104	iP	01 08.18	-1.2
			eS	01 17.46	
NKA	0.62	324	iP	01 11.75	1.1
CNPM	0.81	208	iP	01 12.48	-0.8
			eS	01 24.61	
XLV	1.00	219	eP	01 15.21	-0.9
			eS	01 28.81	
RDT	1.00	290	iP	01 15.10	-1.1
PMS	1.11	24	iP	01 16.70	-0.9
			iS	01 31.35	
RED	1.15	280	iP	01 17.20	-1.0
			eS	01 32.27	
SPU	1.21	322	eP	01 18.26	-0.8
			eS	01 34.02	
SUA	1.23	355	iP	01 18.32	-1.1
			iS	01 35.62	
CRP	1.31	322	eP	01 19.75	-0.8
			eS	01 36.91	
NCG	1.42	326	eP	01 21.24	-0.9
PWA	1.45	12	eP	01 21.64	-0.7
PLRM	1.51	26	iP	01 21.86	-1.4
GHO	1.72	26	eP	01 25.12	-1.3
GLI	1.80	68	iP	01 24.68	-2.8
SKT	1.82	344	iP	01 26.89	-0.9
SML	1.89	33	eP	01 27.32	-1.6
CDD	2.07	232	eP	01 31.03	-0.4
VZW	2.11	65	eP	01 29.43	-2.6
CUT	2.17	3	eP	01 33.02	0.2
MCNL	2.22	243	eP	01 33.33	-0.1
VLZ	2.24	65	eP	01 31.03	-2.7
KLU	2.57	59	iP	01 36.36	-2.2

25 obs. associated

---

* MAY 09, 1990 01h 09m 47.22± 0.91s
36.438 N ±13.5km 27.285 E ± 6.9km
DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)

YER	1.06	49	ePn	10 06.10	0.2
SMG	1.32	344	ePb	10 09.50	0.1
APE	1.54	295	ePn	10 11.70	-1.1
KSL	1.88	99	ePn	10 16.00	-1.7
ELL	2.13	81	ePn	10 22.50	1.2
VAM	2.71	249	ePn	10 30.30	1.0
8CK	2.84	68	ePn	10 31.50	0.3

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

& MAY 09, 1990 01h 23m 45.10s
36.325 N 120.927 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).

PRI	0.28	131	iPd	23 51.20	0.3
LLA	0.29	357	iPd	23 50.90	-0.2
PRS	0.36	271	iPc	23 51.90	-0.5
SAO	0.61	317	iPc	23 55.80	-1.5
GCC	1.11	310	eP	24 04.80	-1.4
			eS	24 21.00	

09d 01h

ARN	1.13	335	eP	24 05.80	-0.8
MHC	1.17	331	eP	24 06.60	-0.6
			iS	24 25.20	
FRI	1.18	55	ePc	24 05.80	-1.7
			iS	24 21.50	
BCH	1.33	149	eP	24 08.60	-1.4
PCC	1.65	316	e(P)	24 13.70	-0.9
CMB	1.76	14	e(P)	24 14.90	-1.3
TNP	3.44	58	eP	24 47.50	7.1
KVN	3.53	39	eP	24 48.00	6.4
	13 obs. associated				

MAY 09, 1990 01h 23m 52.59± 0.61s
43.607 N ± 6.0km 12.160 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
ML 2.5 (KBA).

CRE	0.15	278	Pc	23 55.40	-0.8
			eSg	23 57.10	
RSM	0.38	33	Pc	24 00.50	0.0
			eSg	24 04.40	
SFI	0.38	325	P	23 59.30	-1.2
			eSg	24 05.40	
PGD	0.42	310	P	24 00.00	-1.1
			eSg	24 06.90	
ARV	0.58	101	P	24 03.10	-1.2
			eSg	24 12.70	
ASS	0.65	146	P	24 04.40	-1.2
			eSg	24 14.50	
PII	1.19	276	Pc	24 14.50	-0.3
			eSg	24 27.80	
MME	1.21	300	P	24 17.70	2.5
BDI	1.22	292	P	24 15.40	0.1
			eSg	24 30.30	
MNS	1.28	162	P	24 16.20	-0.2
			eSg	24 34.40	
AQU	1.55	144	P	24 22.60	2.3
BOB	2.27	302	P	24 34.40	3.6X
			eSn	25 10.90	
TRI	2.39	28	eP	25 10.70	38.3X
VOY	2.72	26	e(Pn)	24 37.10	-0.1
			eSg	25 20.50	
FVI	3.02	8	P	24 42.80	1.6
PTJ	3.55	48	eP	25 02.70	13.8X
KBA	3.57	13	e(Pn)	24 49.00	-0.3
			eSn	25 29.50	
S.D. = 1.4			on	14 of 17 obs.	

? MAY 09, 1990 02h 08m 46.34± 8.35s
0.603 N ±43.0km 79.184 W ±44.4km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF ECUADOR (105)

COTA	0.89	107	iP+	09 03.40	-0.3
			eS	09 16.50	
GGP	0.97	143	eP	09 05.00	-0.2
QUR	1.01	140	eP	09 05.70	-0.1
			eS	09 26.70	
CAYA	1.31	113	eP	09 11.20	0.3
			eS	09 38.20	
GECU	1.35	133	eP	09 12.00	0.3
VC1	1.46	148	eP	09 13.30	0.1
S.D. = 0.3			on	6 of 6 obs.	

% MAY 09, 1990 02h 12m 12.10± 0.64s
43.595 N ± 6.3km 12.158 E ± 5.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.15	282	Pc	12 15.60	-0.1
			eSg	12 18.30	
SFI	0.39	326	Pc	12 19.30	-0.9
			eSg	12 25.00	
RSM	0.39	33	P	12 20.80	0.6
			eSg	12 27.50	
PGD	0.42	312	P	12 20.30	-0.5
			eSg	12 26.90	
ARV	0.58	99	P	12 23.60	-0.2
			eSg	12 33.00	
PII	1.19	277	P	12 34.80	0.5
			eSg	12 50.70	
BDI	1.22	293	P	12 35.70	0.8
			eSg	12 50.60	
MNS	1.27	162	P	12 35.50	-0.2
			eSg	12 58.10	
S.D. = 0.7			on	8 of 8 obs.	

% MAY 09, 1990 02h 20m 41.23± 0.79s
43.564 N ± 7.7km 12.135 E ± 6.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.15	296	Pc	20 45.10	0.3
			eSg	20 47.50	
SFI	0.41	330	P	20 49.10	-0.5
			eSg	21 00.00	
RSM	0.43	32	P	20 50.20	0.2
PGD	0.43	316	P	20 50.20	0.1
			eSg	20 57.00	
ARV	0.59	96	P	20 53.20	0.0
			eSg	21 02.50	
ASS	0.62	142	P	20 53.70	-0.1
			eSg	21 04.50	
S.D. = 0.4			on	6 of 6 obs.	

MAY 09, 1990 02h 34m 49.80± 0.73s
43.249 N ± 5.8km 19.865 E ± 6.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (TTG).

PLE	0.35	283	iPgc	34 55.90	-1.2
			iSg	35 00.20	
IVA	0.38	176	ePg	34 57.60	0.0
			iSg	35 04.00	
PVY	0.66	173	ePg	35 02.20	-0.8
			eSg	35 13.00	
NKY	0.77	236	ePg	35 04.00	-0.9
			eSg	35 16.50	
TTG	0.93	209	ePg	35 07.00	-0.6
			eSg	35 22.00	
BRY	1.03	251	ePg	35 08.20	-1.1
			eSg	35 24.00	
BDV	1.23	219	ePg	35 13.40	0.7
			eSg	35 33.00	
HCY	1.29	232	ePg	35 14.00	0.4
			eSg	35 34.00	
ULC	1.36	200	ePg	35 15.00	0.2
			eSg	35 36.20	
BEO	1.63	15	ePn	35 19.50	0.9
			e(Sg)	35 39.50	
SKO	1.73	137	iPn	35 21.00	1.0
HVAR	2.50	270	ePn	35 33.40	2.3
			iSn	36 05.90	
BZS	2.68	27	ePc	35 32.00	-1.7
VAY	2.78	133	ePn	35 42.00	6.8X
MLR	4.90	61	eP	36 20.00	14.6X
			e	50 56.50	
RSM	5.43	280	P	36 21.00	8.3X
CRE	5.77	276	P	36 15.80	-1.9
			eSg	36 18.30	
SFI	5.86	279	P	36 20.10	1.4
PGD	5.95	279	P	36 21.60	1.4
			eSg	36 23.80	
S.D. = 1.3			on	16 of 19 obs.	

% MAY 09, 1990 02h 38m 39.54± 1.47s
43.555 N ±13.5km 12.143 E ± 7.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	298	P	38 43.30	0.1
			eSg	38 45.90	
SFI	0.42	330	P	38 47.60	-0.6
RSM	0.44	31	P	38 48.60	0.2
			eSg	38 54.00	
PGD	0.44	316	P	38 49.00	0.4
			eSg	38 51.50	
ARV	0.58	95	Pd	38 51.30	-0.1
			eSg	39 02.10	
S.D. = 0.5			on	5 of 5 obs.	

MAY 09, 1990 02h 38m 57.42± 0.16s
57.502 N ± 2.5km 155.695 W ± 2.5km
DEPTH = 77.2km (7 depth phases)
5.2mb (64 obs.)
ALASKA PENINSULA (12)
Felt (V) at Naknek and (III) at King Salmon.

KDC	1.74	81	iPd	39 24.50	-1.7
CDD	1.80	36	iP	39 27.28	0.2
MCNL	1.83	22	iP	39 28.41	0.9
AUE	2.23	32	iP	39 33.96	1.1
AUL	2.23	31	eP	39 33.82	0.9
XLV	2.86	45	eP	39 41.85	0.2
			eS	40 12.57	
CNPM	3.10	47	iP	39 44.34	-0.6
			eS	40 18.73	
RED	3.29	26	iP	39 48.57	0.8
			eS	40 26.31	
NNL	3.43	40	iP	39 49.96	0.4
SDN	3.44	233	iP	39 51.19	1.6
RDT	3.52	27	iP	39 51.12	0.2
SVW	3.62	1	iP	39 53.33	1.1
NKA	3.98	33	iP	39 58.55	1.3
SLKM	4.13	41	eP	39 57.79	-1.7X
SPU	4.13	25	iP	39 59.66	0.1
SEW	4.17	49	eP	39 57.62	-2.2X
CRP	4.19	24	eP	40 00.69	0.3
CGLM	4.26	25	eP	40 01.98	0.7
NCG	4.31	23	eP	40 02.43	0.4
SUA	4.71	30	eP	40 06.87	-0.7
MTU	4.87	56	eP	40 08.03	-1.8X
PMS	4.89	37	iPc	40 08.60	-1.5X
SKT	4.96	23	eP	40 10.43	-0.6
PWA	5.10	33	iPc	40 11.60	-1.4X
MID	5.28	65	eP	40 12.96	-2.4X
PLRM	5.29	36	eP	40 13.70	-1.8X
PMR	5.29	36	iPc	40 13.20	-2.3X
TTA	5.45	358	iPd	40 18.60	0.7
GHO	5.49	36	eP	40 16.45	-2.0X
GLI	5.57	49	eP	40 16.08	-3.4X
CUT	5.62	27	eP	40 19.97	-0.2
SML	5.71	38	eP	40 19.77	-1.7X
VZW	5.89	49	eP	40 21.01	-2.9X
VLZ	6.02	49	eP	40 22.93	-2.7X
NCA	6.35	41	eP	40 27.89	-2.5X
KLU	6.38	47	iP	40 28.37	-2.5X
KTH	6.51	19	eP	40 31.41	-1.2X
TOA	6.66	42	iPd	40 32.50	-2.1X
RND	6.82	27	eP	40 34.24	-2.6X
GLB	7.22	52	eP	40 39.14	-3.3X
TGL	7.38	58	iP	40 41.96	-2.6X
PAX	7.48	39	ePd	40 43.63	-2.3X
BALM	7.70	57	eP	40 46.29	-2.7X
			eS	42 07.66	
NEA	7.79	22	eP	40 46.90	-3.2X
WRH	7.90	25	eP	40 48.25	-3.5X
CCB	8.12	25	eP	40 51.04	-3.6X
HDA	8.12	28	eP	40 51.66	-3.0X
FBA	8.34	24	iPc	40 53.90	-3.8X
DOT	8.40	38	eP	40 57.33	-1.3X
PCA	8.42	66	eP	40 54.98	-4.0X
GLM	8.50	25	eP	40 56.50	-3.5X
IMA	8.65	5	iPc	41 02.00	-0.1
HYT	9.91	63	P	41 17.00	-2.2X
DWY	10.29	44	P	41 22.20	-2.0X
SIT	11.03	84	eP	41 28.70	-5.5X
ADK	13.35	254	eP	42 09.00	4.2X
INK	14.70	34	P	42 20.00	-2.2X
YKA	20.86	59	eP	43 32.80	-1.8X
	0.5s		3.50nm		3.9mb X
PGC	21.12	101	eP	43 37.00	-0.2
MCW	21.43	100	eP	43 40.50	0.1
GMW	22.15	103	eP	43 48.00	0.4
BMW	22.61	105	eP	43 52.40	0.3
RMW	22.72	102	eP	43 53.80	0.6
PNT	22.78	95	ePd	43 55.00	1.3
	0.9s		18.00nm		4.5mb
MBC	22.87	21	eP	43 53.00	-1.3
	0.5s		26.00nm		4.9mb
LON	23.17	103	eP	43 59.00	1.4
SHW	23.31	105	eP	44 01.00	2.0
EDM	24.15	82	iPd	44 07.30	0.3
NEW	24.73	95	eP	44 13.00	0.4
	0.8s		15.10nm		4.5mb
FHC	26.29	116	e(P)	44 27.90	0.8
			epP	44 47.40	87km
SES	26.80	86	eP	44 31.00	-0.7
WDC	27.17	114	ePd	44 35.80	0.7
			epP	44 53.10	74km
MIN	27.81	113	ePd	44 41.00	0.0
			epP	44 58.70	77km
ORV	28.46	114	ePd	44 46.10	-0.7
			epP	45 03.70	76km
LRM	28.75	95	eP	44 49.00	-0.6
HPI	29.80	99	eP	44 59.00	0.0
CMB	30.19	115	ePd	45 02.30	0.0
KVN	30.54	111	eP	45 05.20	-0.3

			e	45	21.50	68km				i	50	17.80	21kmX	VAI	76.19	11	Pc	50	38.60	0.4
PTI	30.76	99	eP	45	07.50	0.2	MOX	71.71	8	iPc	50	12.50	0.1	CAF	76.26	16	eP	50	38.70	-0.1
IMW	30.82	97	eP	45	08.00	-0.1		1.0s	65.00nm			5.5mb			0.9s	24.55nm			5.1mb	
PRS	31.07	118	ePd	45	09.90	0.0	KSP	71.82	5	iPc	50	12.50	-0.5	LPL	76.31	13	eP	50	40.00	0.7
FRI	31.34	115	eP	45	12.20	-0.1				e	50	34.00	82km		0.7s	6.05nm			4.6mb	
PRI	31.56	117	ePd	45	15.10	0.7	TNS	71.85	11	iPc	50	13.50	0.3	LPG	76.33	13	eP	50	40.40	0.9
TNP	31.73	111	eP	45	15.70	-0.3	GYA	72.02	291	P	50	14.80	0.1		1.2s	22.30nm			5.0mb	
	1.0s	12.50nm				4.7mb	HOF	72.06	8	iPc	50	14.50	0.0	ORX	76.34	12	P	50	39.92	0.6
BW06	32.33	97	eP	45	20.50	-0.6		0.7s	20.00nm			5.1mb		LPO	76.37	17	eP	50	39.20	-0.1
DUG	32.42	104	eP	45	21.60	-0.3	ABH	72.09	11	eP	50	14.55	-0.1		0.5s	18.20nm			5.3mb	
	0.7s	4.43nm				4.4mb	FLN	72.13	17	eP	50	14.20	-0.7	LSD	76.41	12	P	50	40.85	0.9
BCH	32.61	118	eP	45	24.00	0.5		0.8s	28.20nm			5.2mb		VOY	76.47	7	iPd	50	39.20	-0.8
ISA	33.00	115	eP	45	44.00	17.1X	RUP	72.22	12	eP	50	15.34	-0.1	RSP	76.73	12	P	50	42.18	0.7
DAU	33.08	102	eP	45	27.80	0.0	LDF	72.35	17	eP	50	15.60	-0.6	CEY	76.80	7	eP	50	41.00	-0.7
MSU	33.99	105	eP	45	36.00	0.4		0.8s	17.45nm			5.0mb		RRL	76.90	13	P	50	44.13	1.5
SBB	34.10	116	eP	45	36.00	-0.4	GRR	72.44	17	eP	50	16.30	-0.4	VBY	77.08	7	eP	50	43.70	0.4
GSC	34.11	114	eP	45	37.00	0.5		0.8s	20.15nm			5.1mb		BOB	77.35	11	Pc	50	45.60	0.8
RSSD	34.39	90	eP	45	38.30	-0.7	TOD	72.49	11	eP	50	17.07	0.0	PZZ	77.35	13	P	50	45.56	0.6
RVR	34.88	116	eP	45	43.00	0.0	PRU	72.57	7	Pc	50	17.30	-0.1	PCP	77.47	11	P	50	45.05	-0.5
TPC	35.44	114	eP	45	48.00	0.2		1.2s	16.50nm			4.8mb		STV	77.63	12	P	50	45.15	-1.3
PLM	35.65	116	eP	45	49.00	-0.7	KTD	72.70	11	eP	50	18.37	0.1	ROB	77.64	12	P	50	46.08	-0.4
RSON	35.73	73	eP	45	49.20	-0.8	KRA	72.75	3	eP	50	17.20	-1.2	ENR	77.66	12	P	50	45.36	-1.2
BAR	36.29	116	eP	45	56.00	1.1		0.9s	48.00nm			5.4mb		FIN	77.77	12	P	50	46.38	-0.7
GOL	36.73	97	eP	45	58.90	0.1	LPF	72.75	18	eP	50	18.40	-0.1	EPF	77.84	18	eP	50	47.10	-0.5
	0.9s	10.61nm				4.8mb		0.9s	24.55nm			5.1mb			0.9s	6.55nm			4.6mb	
GLA	36.89	114	eP	46	01.00	1.0	WET	73.30	8	iPc	50	22.00	0.3	SBF	78.02	12	eP	50	48.60	0.1
ALQ	39.69	103	eP	46	23.00	-0.5	KHC	73.36	7	iPc	50	22.70	0.6		0.9s	40.95nm			5.3mb	
	1.0s	2.00nm				4.0mb X		0.9s	24.50nm			5.1mb		FRF	78.23	13	eP	50	49.80	0.2
FRB	40.01	44	eP	46	25.00	-0.6	CDF	73.51	12	eP	50	22.90	-0.2		0.9s	14.75nm			4.9mb	
	0.5s	29.00nm				5.5mb		0.5s	13.10nm			5.1mb		LRG	78.29	13	eP	50	50.50	0.6
GDH	41.76	32	ePc	46	40.00	0.2	SPC	73.62	3	iP	50	23.30	-0.5		0.5s	5.10nm			4.7mb	
DAG	43.26	13	iPd	46	49.90	-2.0	HAU	73.81	12	eP	50	24.70	0.0	LMR	78.43	13	eP	50	51.10	0.4
	0.4s	14.41nm				5.2mb		0.7s	41.90nm			5.5mb			0.9s	13.10nm			4.9mb	
TUL	44.66	92	eP	47	02.80	-1.0	BSF	74.03	12	eP	50	25.90	-0.2	PGD	78.44	9	P	50	52.20	1.2
	0.7s	9.30nm				4.7mb		0.7s	22.05nm			5.2mb		ARV	78.92	8	P	50	53.90	0.5
Z	21s	0.27um				4.1Msz	GRC	74.09	15	P	50	26.40	0.1	PGF	79.49	11	eP	50	56.80	0.2
		LR		01	00.00		FEL	74.12	11	eP	50	26.40	-0.3		0.9s	21.30nm			5.1mb	
SCH	46.18	53	eP	47	15.00	-0.6	FUR	74.15	9	iPc	50	27.00	0.3	MNS	80.00	9	Pc	50	58.90	-0.4
CHJJ	47.48	272	P	47	26.30	0.3		0.7s	42.00nm			5.5mb		AQU	80.09	8	P	51	00.68	0.9
MAT	47.53	274	iPc	47	26.20	-0.3	LOR	74.22	14	eP	50	26.90	-0.2		0.8s	14.00nm			4.9mb	
	1.1s	45.57nm				5.3mb		0.8s	26.85nm			5.2mb		VTS	80.27	1	iP	51	01.00	0.2
IIDJ	48.48	273	P	47	34.20	0.3	SLE	74.28	11	ePc	50	27.30	-0.2	SKO	80.86	2	iPc	51	04.20	0.4
CN2	48.99	290	P	47	37.00	-0.6	MFF	74.29	17	eP	50	27.30	-0.1		0.9s	65.00nm			5.5mb	
WVLY	49.06	73	eP	47	37.00	-1.2		0.8s	34.90nm			5.3mb		RZN	81.18	360	iPc	51	06.00	0.4
TSRJ	49.48	274	P	47	41.70	0.2	SSF	74.38	15	eP	50	27.90	-0.1	VAY	81.53	1	eP	51	07.70	0.5
CBM	51.05	62	eP	47	51.20	-2.1		0.9s	62.25nm			5.5mb		OHR	81.71	3	ePd	51	08.50	0.2
NAV	51.67	79	eP	47	56.00	-2.1	ZST	74.50	5	iPc	50	28.70	0.1		1.0s	73.00nm			5.6mb	
CVL	52.40	77	eP	48	02.00	-1.6	LBF	74.52	14	eP	50	28.50	-0.4	GRG	81.89	1	ePc	51	10.00	0.8
AKU	53.04	20	iP	48	08.30	0.4		0.9s	21.30nm			5.1mb		ALN	81.96	359	ePc	51	08.40	-1.0
	0.9s	20.17nm				5.2mb	ZLA	74.55	11	ePc	50	29.10	0.1	MAIO	81.97	332	iPc	51	10.80	1.1
JSC	53.71	82	eP	48	10.50	-2.7	AVF	74.62	15	iPd	50	29.20	-0.2		0.8s	10.98nm			4.8mb	
SOD	55.43	359	iP	48	24.00	-1.3		0.6s	27.50nm			5.4mb		SOH	82.04	1	ePc	51	10.20	0.2
TIY	60.08	294	eP	48	58.60	0.1	BHG	74.72	8	iPc	50	30.20	0.3	FNA	82.05	2	ePc	51	10.00	0.0
SSE	60.79	283	Pd	49	03.00	-0.2		0.9s	59.00nm			5.5mb		THE	82.23	1	eP	51	04.90	-5.9X
	1.0s	23.00nm				5.3mb	BGF	74.78	15	iPd	50	30.00	-0.3	CHG	82.28	293	eP	51	11.00	-0.5
NB2	61.35	7	P	49	05.20	-1.6		0.7s	36.40nm			5.4mb		MGR	82.45	7	Pd	51	12.10	0.1
	0.8s	14.90nm				5.2mb	SMF	74.83	14	eP	50	30.40	-0.2	OUR	82.53	0	ePc	51	12.10	-0.3
NUR	62.33	360	iP	49	11.70	-1.5		0.9s	43.40nm			5.4mb		ASMO	82.59	22	iPd	51	14.60	1.6
	0.8s	32.30nm				5.5mb	SAX	74.88	10	ePc	50	31.50	0.3	LIT	82.75	1	ePc	51	13.60	0.0
HFS	62.41	6	eP	49	11.60	-2.1	LSF	74.89	16	iPd	50	30.80	-0.2	ALOJ	82.76	23	iPd	51	15.50	1.6
	0.5s	16.80nm				5.4mb	SRO	74.93	4	eP	50	31.60	0.5	ATEJ	82.96	23	iPd	51	16.50	1.5
GTA	64.68	304	Pc	49	28.00	-1.1	TCF	74.95	16	eP	50	31.10	-0.2	APHE	82.99	22	iPd	51	17.00	1.9
XAN	64.73	294	P	49	28.00	-1.3		0.8s	20.15nm			5.1mb		AGG	83.83	2	eP	51	17.20	-2.0
WHN	64.79	288	eP	49	29.00	-0.6	MAF	75.07	15	eP	50	31.90	-0.1	KKM	83.92	272	eP	51	22.00	2.0
EKA	65.35	17	Pd	49	32.80	-0.1		0.8s	22.85nm			5.1mb			S.D. = 0.8	on 207 of 246 obs.				
	0.6s	31.80nm				5.4mb	LLS	75.22	11	ePc	50	33.70	0.6	---						
LZH	65.53	299	eP	49	32.50	-2.1	AGO	75.32	15	P	50	33.37	0.0	%	MAY 09, 1990	03h 20m	03.99±	0.83s		
	2.0s	42.00nm				5.0mb	KBA	75.39	8	iPc	50	34.60	0.6		40.104 N ± 6.7km		29.340 E ±	7.4km		
WMQ	66.06	315	P	49	37.00	-0.8		0.5s	37.20nm			5.6mb			DEPTH = 10.0km	(geophysicist)				
COP	66.76	7	iPc	49	42.20	0.3				i	50	39.80	17kmX		TURKEY				(366)	
	0.9s	107.56nm				5.8mb				i	50	55.60								
QZH	67.07	281	Pd	49	47.50	3.2X	OGA	75.41	9	iPc	50	33.50	-0.7	YLV	0.46	3	iPg	20	13.40	0.0
WIT	69.10	11	eP	49	58.00	1.5		0.9s	19.00nm			5.0mb		HRT	0.76	19	iPn	20	18.90	0.0
CD2	69.80	296	P	50	00.80	-0.4	PLDF	75.46	15	P	50	34.11	-0.2	KCT	0.77	281	iPg	20	18.90	-0.1
WTS	69.93	11	ePc	50	01.50	0.0	OSS	75.51	10	ePc	50	35.30	0.6				iSg	20	32.40	
	0.8s	87.00nm				5.7mb	PYM	75.59	15	P	50	34.57	-0.5	EDC	1.16	283	ePn	20	25.70	0.1
ENN	71.04	12	ePc	50	08.50	0.2	VDL	75.65	11	ePc	50	36.40	0.9	ALT	1.20	150	ePn	20	26.50	0.0
	1.0s	81.00nm				5.6mb	EMS	75.78	12	ePc	50	36.90	0.6		S.D. = 0.1	on 5 of 5 obs.				
SNF	71.09	13	iPc	50	08.55	-0.1	RJF	75.81	16	eP	50	36.00	-0.2	---						
CLL	71.15	7	iPc	50	08.30	-0.7		0.8s	17.45nm			5.0mb			MAY 09, 1990	03h 33m	16.54±	0.63s		
	1.3s	35.00nm				5.1mb	DIX	75.83	12	ePc	50	37.50	0.9		43.598 N ± 6.2km		12.151 E ±	5.5km		
		e		50	29.00	78km	FVI	75.83	8	P	50	36.20	0.0		DEPTH = 10.0km	(geophysicist)				
MEM	71.20	12	iP	50	09.30	0.0	MMK	75.92	12	ePc	50	38.30	1.2		CENTRAL ITALY				(381)	
DOU	71.54	13	iPc	50	11.40	0.1	TMA	75.96	11	ePc	50	38.00	0.7		ML 2.4 (KBA).					
	0.8s	61.70nm				5.6mb	LFF	76.05	17	eP	50	37.70	0.2							
BRG	71.65	7	iPc	50	11.20	-0.8		0.5s	32.80nm			5.5mb		CRE	0.15	282	Pc	33	19.40	-0.7
	1.0s	36.00nm				5.2mb	LBL	76.14	15	P	50	38.33	0.4				eSg	33	22.20	

09d 03h

SFI	0.39	326	P	33 23.40	-1.1
			eSg	33 28.10	
RSM	0.40	33	Pc	33 24.70	0.1
			eSg	33 28.40	
PGD	0.42	312	P	33 24.10	-1.0
			eSg	33 26.50	
ARV	0.58	100	Pc	33 27.00	-1.4
			eSg	33 36.50	
ASS	0.65	145	P	33 28.20	-1.3
			eSg	33 40.20	
PII	1.19	277	Pc	33 38.70	0.0
			eSg	33 53.90	
MME	1.21	300	P	33 40.10	0.9
BDI	1.22	293	P	33 39.60	0.4
			eSg	33 54.30	
MNS	1.27	162	P	33 42.10	1.9
			eSg	34 00.30	
VOY	2.73	26	ePn	34 01.90	0.6
			eSg	34 45.90	
KBA	3.58	13	e(Pn)	34 15.00	1.6
			eSn	34 55.50	

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

---

* MAY 09, 1990 03h 34m 06.43± 1.51s
41.552 N ±13.8km 23.826 E ± 6.8km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SOH	0.81	206	ePg	34 22.00	-0.2
			eSg	34 34.20	
VAY	0.97	257	ePn	34 25.00	0.1
THE	1.13	216	ePb	34 27.40	-0.1
			eSb	34 43.00	
OUR	1.22	174	ePb	34 29.40	0.3
			eSb	34 47.80	
GRG	1.23	242	ePb	34 29.30	0.0
			eSb	34 45.90	
ALN	1.80	111	ePn	34 37.60	-0.1
			e	35 02.10	

S.D. = 0.2 on 6 of 6 obs.

% MAY 09, 1990 03h 34m 46.40± 0.77s
43.617 N ± 8.4km 12.130 E ± 6.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.13	275	Pc	34 49.80	0.2
			eSg	34 52.40	
SFI	0.36	327	P	34 53.80	-0.1
			eSg	34 59.80	
RSM	0.39	37	Pc	34 54.90	0.6
PGD	0.39	311	P	34 54.50	0.0
			eSg	34 55.90	
ARV	0.60	101	P	34 57.10	-1.5
			eSg	35 01.10	
ASS	0.67	144	P	35 01.00	1.2
			eSg	35 07.60	
PII	1.17	276	P	35 06.70	-1.5
BDI	1.20	292	P	35 09.90	1.2

S.D. = 1.2 on 8 of 8 obs.

? MAY 09, 1990 03h 42m 21.74±14.56s
34.256 S ±87.6km 71.614 W ±83.3km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

LNV	0.34	29	eP	42 29.50	-0.5
TACH	0.82	43	eP	42 35.50	-1.4
CHCH	0.86	68	eP	42 37.50	0.0
PCH	1.11	56	eP	42 42.00	0.9
			i	43 43.60	
			i	43 47.10	
SAN	1.13	45	eP	42 42.00	0.7
PEL	1.35	35	eP	42 45.50	1.0
FCH	1.44	50	eP	42 45.00	-1.1

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

---

* MAY 09, 1990 03h 47m 47.23± 0.55s
11.786 S ±13.0km 66.129 E ± 6.6km
DEPTH = 10.0km (geophysicist)
4.8mb (16 obs.)
MID-INDIAN RISE (429)

DMN	43.27	25	P	55 52.20	1.1
GUN	43.86	26	P	55 57.00	1.1
	1.0s	28.00nm		5.0mb	
CHG	44.40	47	eP	56 01.00	0.9
	0.9s	4.05nm		4.3mb	
SHL	44.81	34	iP	56 04.00	0.5
GYA	54.75	46	P	57 19.00	-0.6
CD2	55.75	39	eP	57 25.10	-1.6
WMQ	58.73	18	Pc	57 47.00	-0.6
GTA	59.81	30	eP	57 54.60	-0.6
XAN	61.08	40	P	58 02.50	-1.4
WRA	65.75	107	Pc	58 34.90	0.0
	0.9s	6.90nm		4.8mb	
WB5	65.78	107	eP	58 35.20	0.1
MLR	67.54	331	ePd	58 59.00	13.0X
SPC	72.90	330	eP	59 18.00	-0.6
SRO	72.94	329	eP	59 18.30	-0.3
ZST	73.81	328	eP	59 23.00	-0.7
LJU	73.85	325	e(P)	59 24.00	0.0
VOY	74.20	325	eP	59 26.00	-0.1
KHC	76.23	328	P	59 38.00	0.4
PRU	76.25	329	eP	59 38.50	0.9
BRG	77.09	329	eP	59 43.50	1.2
	1.2s	13.00nm		4.9mb	
CLL	77.83	329	eP	59 47.00	0.6
LPG	78.08	322	eP	59 47.10	-1.2
	0.7s	3.85nm		4.6mb	
LPL	78.10	322	eP	59 47.00	-1.3
MOX	78.15	328	eP	59 49.00	0.8
NUR	79.24	341	eP	59 53.00	-0.9
BSF	79.25	324	eP	59 53.70	-0.7
CDF	79.27	325	eP	59 54.00	-0.5
SMF	80.41	322	eP	00 00.10	-0.4
	0.8s	3.35nm		4.4mb	
LBF	80.49	322	eP	00 00.60	-0.4
	0.8s	5.35nm		4.6mb	
CAF	80.71	320	eP	00 02.50	0.3
	0.8s	4.05nm		4.5mb	
AVF	80.77	322	eP	00 01.90	-0.5
SSF	80.81	322	eP	00 02.60	0.0
	0.8s	6.70nm		4.7mb	
BGF	80.97	321	eP	00 04.00	0.5
	0.9s	10.65nm		4.9mb	
LPO	81.16	319	eP	00 04.80	0.3
	0.8s	8.05nm		4.8mb	
RJF	81.23	320	eP	00 05.30	0.4
	0.8s	6.70nm		4.7mb	
TCF	81.24	321	eP	00 05.00	0.1
LFF	81.56	319	eP	00 07.20	0.6
	0.8s	6.70nm		4.8mb	
LSF	81.64	321	eP	00 07.20	0.2
MFF	82.84	320	eP	00 01.35	-11.8X
	1.0s	8.00nm			
HFS	82.93	336	eP	00 13.60	0.2
	1.2s	20.40nm		5.2mb	
LDF	83.68	322	eP	00 17.70	0.2
LPF	84.00	322	eP	00 19.30	0.3
	1.0s	10.00nm		5.0mb	
NB2	84.45	336	P	00 21.60	0.4
	1.1s	6.70nm		4.8mb	
INK	122.09	8	ePKP	06 43.00	-0.1
YKA	129.37	0	ePKP	06 56.30	-1.0
	0.9s	0.90nm			
RSSD	146.68	347	PKP	07 31.50	1.8
IMW	147.90	356	PKP	07 28.00	-3.8X
HPI	148.18	359	PKP	07 37.00	4.8X
BW06	148.90	354	PKP	07 37.30	4.0X
WDC	150.32	13	ePKP	07 40.70	5.5X
MIN	150.75	12	e(PKP)	07 42.10	6.1X
TUL	150.95	329	ePKP	07 43.40	7.1X
	0.9s	10.20nm			
GLD	151.11	346	PKP	07 44.00	7.3X
GOL	151.20	346	PKP	07 42.80	5.9X
DAU	151.39	356	PKP	07 44.40	7.2X
DUG	151.69	358	PKP	07 44.20	6.7X
	0.6s	2.47nm			
KVN	152.59	7	PKP	07 46.50	7.7X
PV09	153.06	352	PKP	07 58.00	18.3X
TNP	153.64	6	PKP	07 50.00	9.6X
	0.5s	1.00nm			

S.D. = 0.8 on 45 of 60 obs.

MAY 09, 1990 04h 21m 10.19± 0.14s
56.381 S ± 4.2km 27.058 W ± 4.6km
DEPTH = 33.0km (normal)
6.0mb (22 obs.) 5.4Msz (8 obs.)
SOUTH SANDWICH ISLANDS REGION (153)
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=305 Dip=83 Slip= 90
NP2: 125 7 90
Principal Axes:
T Plg=52 Azm=215
P 38 35
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 102 No. of sta: 7
Moment Tensor; Scale 10**18 Nm
Mrr= 0.09 Mtt=-0.03
Mff=-0.06 Mrt=-0.82
Mrf= 0.69 Mtf= 0.05
Principal axes:
T Val= 1.07 Plg=47 Azm=219
N 0.01 1 310
P -1.08 42 41
Best Double Couple:Mo=1.1*10**18
NP1:Strike=156 Dip= 3 Slip= 116
NP2: 310 87 89
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 43C
Centroid Location:
Origin Time 04:21:26.7 0.2
Lat 56.57S 0.03 Lon 26.37W 0.05
Dep 112.8 1.8 Half-duration 3.7
Moment Tensor; Scale 10**17 Nm
Mrr=-1.72 0.27 Mtt= 7.60 0.44
Mff=-5.88 0.50 Mrt=-8.45 0.26
Mrf= 5.54 0.24 Mtf= 1.95 0.38
Principal Axes:
T Val= 12.67 Plg=32 Azm=185
N -0.57 34 299
P -12.10 40 63
Best Double Couple:Mo=1.2*10**18
NP1:Strike=219 Dip=34 Slip=-171
NP2: 122 85 -56

AIA	19.90	228	eP	25 45.00	3.7X
SPA	33.80	180	iPc	27 51.00	0.1
SPA	33.80	180	iPc	27 51.30	0.4X
	1.0s	499.00nm		6.4mb	
Z	20s	8.78um		5.5Msz	
		i	28 58.70		
CHCH	37.18	288	eP	28 20.50	0.7
PCH	37.35	289	eP	28 22.50	1.3
FCH	37.46	289	eP	28 23.50	1.1
TACH	37.55	288	eP	28 22.50	-0.3
SAN	37.56	289	eP	28 21.50	-1.4
LNV	37.57	288	eP	28 22.00	-0.9
PEL	37.81	289	iPc	28 25.20	0.1
	0.7s	61.64nm		5.6mb	
ZON	38.03	293	eP	28 26.00	-0.9
RTLL	38.10	293	ePc	28 26.10	-1.4
RTCB	38.14	293	eP	28 27.40	-0.5
CER	39.09	74	iPc	28 37.00	1.3
	1.0s	230.00nm		5.9mb	
MAW	39.84	143	iP	28 42.50	1.0
	0.9s	226.00nm		5.9mb	
		iS	34 25.00		
POF	42.55	71	iPd	29 06.00	1.9
	1.0s	115.00nm		5.6mb	
BAO	43.69	330	iPc	29 15.00	1.4
SBA	45.76	184	P	29 31.00	1.6
BLF	46.10	77	iPc	29 32.50	-0.3
	0.9s	123.08nm		5.8mb	
BFS	48.16	75	iPd	29 40.00	-9.1X
	1.0s	590.00nm		6.6mb	
KSR	49.05	75	iPd	29 54.00	-2.0
	1.0s	215.00nm		6.1mb	
SLR	49.89	76	iPd	29 55.50	-7.0X
	1.5s	763.89nm		6.5mb	
Z	18s	15.12um		6.0Msz	
LPB	50.40	305	Pc	30 03.50	-3.2X
	1.2s	437.50nm		6.3mb	
Z	24s	5.04um		5.4MszX	
		S	37 06.00		
		LR	41 41.00		
BFT	50.89	78	iPd	30 10.00	-0.1
ARE	52.04	302	eP	30 18.00	-1.0
BUL	54.60	72	iPc	30 31.50	-6.3X
		i	38 01.80		
		i	40 20.00		
PT03	56.24	299	eP	30 43.90	-5.6X
DRV	56.89	174	eP	30 53.80	0.3

09d 04h

PT02	57.45	299	iPd	30	58.00	-0.1
PT08	58.35	299	iP	31	06.20	1.4
PT10	58.46	299	eP	31	05.00	-0.1
NNA	58.47	299	iP	31	06.00	0.7
	0.9s	50.42nm			5.6mb	
	Z 20s	1.60um			5.1Msz	
LIC	64.97	24	Pd	31	48.22	-0.5
	0.8s	39.50nm			5.6mb	
	Z 20s	0.93um			5.0Msz	
		S		40	21.00	
KIC	65.16	25	Pd	31	49.60	-0.4
TIC	65.37	24	Pd	31	50.80	-0.6
WEGH	65.54	29	eP	31	52.00	-0.4
LEGH	65.63	30	eP	31	53.00	0.0
SHGH	65.94	30	eP	31	55.50	0.6
KOGH	66.04	29	eP	31	56.00	0.4
KUK	66.10	29	eP	31	53.00	-3.0X
MCQ	69.37	184	eP	32	17.00	1.0
LWI	69.87	62	iP-	32	20.70	0.9
LWI	69.87	62	iP-	32	21.80	2.0
PSO	70.23	305	eP	32	23.00	0.8
MBO	71.01	10	iPd	32	28.20	1.9
BCAO	71.08	49	iPd	32	26.10	-0.8
	0.6s	185.00nm			6.3mb	
		ic		33	00.60	
BOG	71.85	310	eP	32	33.00	1.1
		eS		41	44.00	
CUM	73.36	322	iP	32	42.00	1.7
OLLA	73.88	319	eP	32	43.00	-0.5
PLAV	74.00	318	eP	32	50.00	5.6X
SDV	74.29	315	eP	32	45.60	-0.4
LLAV	74.30	319	iPd	32	47.20	1.3
NAI	74.73	68	iPc	32	55.00	6.3X
MORO	75.22	318	eP	32	51.00	-0.3
TLC	77.89	192	P	33	06.30	0.4
MHZ	78.00	192	eP	33	06.80	0.4
MMCZ	78.07	192	P	33	07.90	1.0
UPA	78.12	307	ePd	33	08.60	1.3
MSZ	78.53	191	P	33	09.00	-0.2
MQZ	78.91	194	P	33	12.20	0.9
LTZ	79.87	194	P	33	16.40	-0.2
KHZ	80.04	195	P	33	17.20	-0.2
	1.0s	80.00nm			5.7mb	
THZ	80.78	195	P	33	21.40	-0.1
SNZO	80.95	196	P	33	24.00	1.8
		S		43	12.00	
		SS		49	16.00	
WEL	80.96	196	P	33	23.40	1.1
	1.0s	*******	nm		8.2mb	X
PORP	81.26	322	e(P)	33	23.00	-1.1
PGZ	81.37	198	P	33	25.10	0.7
	0.8s	240.00nm			6.3mb	
MGP	81.37	322	e(P)	33	23.00	-1.6
MNG	81.50	197	eP	33	24.80	-0.4
	0.8s	26.00nm			5.3mb	
CNZ	82.87	198	P	33	32.60	0.1
NGZ	82.89	198	eP	33	32.50	-0.1
TAZ	83.65	198	eP	33	37.10	0.8
HBZ	83.94	200	P	33	39.00	1.3
WLZ	84.19	198	eP	33	38.00	-1.1
RKG	84.87	151	eP	33	40.50	-2.0
NWAO	86.00	151	eP	33	48.00	-0.2
TOO	86.20	174	iPd	33	50.20	1.0
	0.7s	78.00nm			6.0mb	
		e		37	12.00	
BFD	86.39	172	eP	33	49.00	-1.0
		e		33	51.00	
		eTT		49	04.00	
MUN	86.61	149	eP	33	50.50	-0.7
	0.9s	171.00nm			6.3mb	
KLB	87.41	151	eP	33	54.00	-1.1
BAL	88.04	149	eP	33	57.00	-1.1
ADE	88.21	168	iPc	33	59.80	0.9
	0.8s	522.39nm			6.9mb	
TIO	88.58	17	iP	34	03.00	2.4
CAN	88.60	177	eP	34	01.80	1.0
		e		37	33.10	
CNB	88.61	177	eP	34	02.00	1.1
COOL	88.97	153	eP	34	02.00	-0.6
MRWA	89.14	148	iPd	34	04.90	1.5
BWA	89.47	176	eP	34	05.20	0.2
FORR	90.58	159	eP	34	10.00	-0.1
AVE	90.88	16	iP	34	13.50	2.4
		i		34	54.00	
IFR	91.47	18	iPd	34	17.00	3.0
TVO	91.73	234	iP	34	17.00	1.4
	0.8s	55.00nm			6.0mb	

CMS	92.27	174	eP	34	18.00	0.1
MEKA	92.33	150	eP	34	18.30	0.1
NKM	93.31	18	iP	34	25.00	2.8X
			i	34	26.00	
COO	93.38	179	eP	34	20.00	-3.1X
			e	34	24.00	
EJIF	94.28	17	eP	34	30.00	3.4X
MAL	94.72	18	eP	34	30.00	1.4
			eSKS	44	52.00	
			iS	45	38.00	
EPRU	94.82	17	eP	34	32.50	3.4X
EVAL	95.18	16	eP	34	33.80	3.1X
EHOR	95.65	17	eP	34	36.00	3.1X
EBAN	96.23	18	e(P)	34	37.50	1.9
BRS	96.56	180	iPc	34	37.50	-0.2
	0.8s	8.00nm			5.3mb	
RMQ	97.39	176	iPd	34	42.10	0.7
TOL	97.86	18	eP	34	46.00	3.2X
			ePP	38	42.00	
			eS	45	13.00	
			ePS	47	22.00	
DZM	101.03	193	iPdiff	34	59.90	2.1X
WRA	102.37	162	Pdiffd	35	03.10	-0.6
	1.0s	9.30nm			5.4mb	
WB5	102.44	162	ePdiff	35	03.00	-1.0
			e	39	14.80	
LSF	105.03	20	ePKP	39	36.80	7.4X
	1.5s	31.35nm				
TCF	105.20	21	ePKP	39	38.40	8.6X
	1.6s	31.10nm				
OHR	105.21	35	ePKP	39	22.00	-8.0X
MAF	105.21	21	ePKP	39	38.60	8.8X
	1.6s	28.00nm				
AVF	105.91	21	ePKP	39	43.00	12.0X
	1.2s	8.95nm				
VAY	105.97	37	ePKP	39	22.00	-9.3X
SKO	106.19	36	ePKP	39	37.50	5.8X
			i	39	43.30	
			i	39	51.50	
			i	45	49.50	
			i	46	30.00	
			i	54	48.00	
SSF	106.20	21	ePKP	39	45.20	13.6X
	1.6s	24.90nm				
LBF	106.22	22	ePKP	39	45.20	13.5X
TRI	107.33	29	ePKP	39	53.20	19.5X
VOY	107.67	29	e(PKP)	39	34.00	-0.5
			e	39	55.00	
BHD	107.79	57	ePKP	39	25.50	-9.5X
			eSKS	45	56.00	
			eSKKS	46	50.00	
LJU	107.85	29	e(PKP)	39	42.00	7.2X
ITU	108.04	41	ePKP	39	56.00	20.8X
BBTK	108.36	45	ePKP	39	46.00	9.9X
TUL	108.75	307	e(PKP)	39	53.00	16.2X
	1.0s	5.70nm				
MSL	109.80	54	ePKP	39	41.00	2.3X
			eSKS	46	05.00	
			eSKKS	47	04.00	
BUC	109.91	38	ePKP	39	47.00	8.4X
SLY	110.23	56	ePKP	39	30.00	-9.5X
			eSKS	46	06.00	
			eSKKS	47	08.00	
BRG	112.15	27	ePKP	39	21.50	-21.2X
			e	40	09.50	
			e	50	04.00	
			esP	50	11.00	
KSP	112.72	28	e(PKP)	40	05.00	21.2X
ALQ	112.94	299	ePKP	39	43.00	-2.0
	Z 18s	0.52um			5.2Msz	
EKA	113.04	15	PKP	39	44.00	-0.2
	2.2s	40.40nm				
SCH	115.47	336	ePKP	39	48.00	-1.0
GLA	115.65	291	ePKP	39	50.00	-0.1
BAR	116.32	290	ePKP	39	51.00	-0.4
OUE	116.71	75	ePKP	39	53.00	0.6
PLM	116.95	290	ePKP	39	53.00	0.3
TPC	117.11	291	ePKP	39	53.00	0.1
MAIO	117.57	65	ePKP	39	53.00	-0.7
			e	41	09.00	
RVR	117.71	290	ePKP	39	53.00	-0.9
			e	43	19.00	
MWC	118.25	290	ePKP	39	55.00	-0.2
PAS	118.25	290	ePKP	39	55.00	0.1
GSC	118.43	292	ePKP	39	55.00	-0.4
SBB	118.48	290	ePKP	39	55.00	-0.5
			e	43	19.00	

MSU	118.57	297	ePKP	**39**	55.00	-0.7
			iPKKP	**58**	13.80	
RSSD	119.09	307	ePKP	**39**	54.20	-2.3X
			iPKKP	**58**	10.40	
SYP	119.49	289	ePKP	**39**	58.00	0.5
ISA	119.57	291	ePKP	**39**	58.00	0.5
			e	**43**	23.00	
BCH	120.05	289	PKP	**39**	59.00	0.5
RSON	120.20	318	PKP	**39**	54.50	-3.6X
HFS	120.57	22	ePKP	**39**	56.30	-2.2X
	0.7s	12.00nm				
TNP	120.77	293	ePKP	**39**	59.80	-0.1
			iPKKP	**58**	05.00	
NB2	120.89	21	PKP	**39**	58.30	-0.9
	0.9s	20.90nm				
PRI	121.08	289	ePKPd	**40**	01.10	0.7
			eSKP	**43**	25.90	
FRI	121.23	291	ePKPd	**40**	00.50	0.0
			eSKP	**43**	25.60	
			ePKKP	**58**	03.00	
LLA	121.59	290	ePKP	**40**	01.80	0.6
			eSKP	**43**	27.00	
PRS	121.60	289	ePKPd	**40**	01.80	0.5
			eSKP	**43**	26.40	
KVN	121.96	293	ePKP	**40**	01.70	-0.4
			iPKKP	**50**	00.20	
SAO	121.96	289	ePKP	**40**	01.90	0.0
CMB	122.37	291	ePKPd	**40**	02.90	0.2
			eSKP	**43**	27.30	
			ePKKP	**49**	58.90	
ARN	122.45	290	PKP	**40**	03.50	0.6
GCC	122.45	289	ePKP	**40**	03.00	0.2
			eSKP	**43**	27.80	
MHC	122.50	290	ePKPd	**40**	03.80	0.7
PCC	123.01	289	ePKPd	**40**	04.20	0.4
BKS	123.21	290	ePKP	**40**	05.20	0.9
	0.8s	116.00nm				
BRK	123.23	290	ePKPd	**40**	04.70	0.4
NUR	123.48	28	iPKP	**40**	03.00	-1.0
	0.7s	25.40nm				
FRB	123.99	339	ePKP	**40**	03.00	-1.9
NWRM	123.99	290	PKP	**40**	06.00	0.2
ORV	124.08	291	ePKPd	**40**	05.70	-0.3
			eSKP	**43**	30.00	
LRM	124.25	303	ePKP	**40**	06.20	-0.2
DMN	124.70	92	PKP	**40**	06.60	-1.2
MIN	124.72	292	ePKPd	**40**	06.70	-0.6
			eSKP	**43**	30.70	
CHG	125.18	110	ePKPd	**40**	07.90	-0.7
	1.1s	19.94nm				
			e	**52**	30.60	
CHTO	125.18	110	iPKPd	**40**	08.00	-0.6
	1.2s	20.49nm				
GUN	125.37	92	PKP	**40**	08.00	-1.2
	0.8s	42.00nm				
WDC	125.38	292	ePKPd	**40**	07.80	-0.6
			eSKP	**43**	32.40	
FHC	126.29	291	ePKPd	**40**	09.40	-0.9
FFC	126.37	316	ePKP	**40**	09.00	-0.9
	0.6s	10.00nm				
GDH	126.80	349	iPKPc	**40**	09.20	-1.1
	0.9s	50.42nm				
SES	126.96	307	ePKP	**40**	01.00	-10.2X
LON	129.42	297	PKP	**40**	14.90	-1.2
LSA	129.67	95	PKP	**40**	01.70	-15.9X
SOD	129.70	24	iPKP	**40**	14.80	-1.0
			i	**43**	24.90	
BMW	129.94	296	PKP	**40**	16.90	-0.1
EDM	129.97	308	ePKP	**40**	15.50	-1.4
PNT	130.14	301	ePKPd	**40**	16.00	-1.3
QIZ	130.81	121	ePKP	**40**	19.70	0.3
KEV	131.71	22	ePKP	**40**	19.00	-0.6
			e	**43**	32.00	
KMI	132.35	110	PKPc	**40**	22.00	-0.5
	7.0s	1200.00nm				
	Z 20s	1.00um			5.5Msz	
DAG	132.99	3	iPKPd	**40**	19.70	-2.2X
	0.7s	19.18nm				
		ipP		**43**	37.00	
YKA	136.46	318	ePKP	**40**	13.20	-15.6X
	1.1s	3.70nm				
GUA	136.80	169	ePKP	**40**	15.00	-15.9X
GUMO	136.85	168	ePKP	**40**	15.00	-15.9X
PJG	136.85	168	ePKP	**40**	15.30	-15.6X
CD2	137.50	106	ePKP	**40**	31.40	-0.5
WMO	137.90	79	PKP	**40**	25.00	-7.3X
	E 36s	1.60um				

09d 04h

		PP	43 17.00			
LZH	141.48	101 PKPc	40 32.00	-7.1X		
GTA	141.63	93 PKPc	40 33.00	-6.2X		
		PKS	44 03.20			
XAN	142.67	108 PKP	40 35.50	-5.6X		
		PKS	44 06.00			
WHN	142.68	117 ePKP	40 33.50	-7.6X		
	4.0s	600.00nm				
	E 10s	0.40um				
MBC	144.31	336 ePKP	40 40.00	-2.5X		
	0.7s	71.00nm				
INK	146.10	320 ePKP	40 43.00	-2.7X		
	0.6s	134.00nm				
NJ2	146.11	121 PKPc	40 47.00	0.1		
SSE	146.39	125 PKP	40 46.50	-0.8		
	Z 20s	0.90um		5.5Msz		
		pPKP	40 57.00			
		PP	44 15.00			
TIY	147.31	107 ePKP	40 48.00	-0.7		
	Z 18s	1.00um		5.6Msz		
	N 18s	1.50um				
BTO	148.09	101 ePKP	40 49.00	-0.9		
	N 14s	0.60um				
	E 14s	0.70um				
HHC	149.10	102 PKP	40 50.00	-1.6		
TOA	149.39	306 ePKPd	40 49.50	-1.8		
PMR	150.58	304 ePKPd	40 49.90	-3.0X		
FBA	150.80	311 ePKP	40 49.30	-3.9X		
KDC	150.97	296 PKP	40 49.20	-4.4X		
BJI	151.00	109 ePKP	40 52.00	-2.2X		
	Z 28s	0.48um		5.2MszX		
DL2	152.95	117 PKP	40 54.50	-2.6X		
		SS	04 14.00			
IMA	153.39	313 ePKPd	40 54.00	-3.1X		
TTA	154.02	306 ePKPd	40 55.00	-3.0X		
SHK	154.12	139 iPKPc	40 45.40	-13.5X		
	0.6s	1786.67nm				
BRW	154.31	325 PKP	40 53.40	-4.6X		
SNY	156.13	115 ePKP	40 57.20	-4.1X		
	Z 28s	1.10um		5.5MszX		
	E 28s	0.90um				
MAT	157.80	147 (PKP)	40 58.00	-5.7X		
CN2	158.51	114 PKP	41 02.00	-2.2X		
	Z 24s	0.90um		5.5MszX		
		e	41 37.00			
		ePP	45 17.00			
MDJ	161.16	119 ePKP	41 05.00	-2.0		
	S.D. = 1.0	on 154 of 221 obs.				

MAY 09, 1990 04h 42m 49.69± 0.69s
5.989 S ± 3.7km 147.586 E ± 4.0km
DEPTH = 69.2 ± 6.2 km
5.5mb (21 obs.)
EAST PAPUA NEW GUINEA REGION (207)

LAT	0.88	221 iPd	43 08.30	1.4		
PMG	3.43	187 iPd+	43 40.80	-1.0		
MNDI	3.91	267 eP	43 53.50	4.7X		
RAB	4.90	69 iPd	44 02.00	-0.6		
HNR	12.72	106 eP	45 49.00	-0.4		
CTA	14.07	185 iPc	46 07.80	0.6		
	0.8s	16.42nm		4.5mb		
QIS	16.42	207 eP	46 36.00	-1.3		
		e	46 49.00			
MTN	17.60	246 iPc	46 53.40	1.5		
WB5	18.86	222 iPd	47 05.50	-1.7		
		eS	50 38.50			
WRA	18.93	222 Pc	47 06.40	-1.6		
	0.7s	74.70nm		5.0mb		
RMQ	20.42	177 iPd	47 23.90	0.2		
		i	47 27.00			
QLP	20.73	189 iPd	47 26.50	-0.3		
KNA	20.85	241 eP	47 27.70	-0.4		
PVC	23.37	122 iPc	48 06.50	13.5X		
DZM	24.25	133 iPc	48 00.60	-1.0		
COO	24.79	171 eP	48 07.00	0.3		
		e	48 20.00			
CMS	25.42	183 eP	48 13.00	0.5		
BWA	28.31	179 eP	48 36.50	-2.4		
		e	48 42.30			
WARB	28.34	223 iPc	48 40.30	1.0		
	0.6s	57.00nm		5.4mb		
CAN	29.22	178 eP	48 43.10	-4.0X		
		e	48 46.90			
FORR	30.76	214 eP	49 00.30	-0.4		
MBL	30.82	238 eP	49 01.40	0.0		
MEKA	34.46	230 iPc	49 33.40	0.4		
	0.9s	155.00nm		5.9mb		
NANU	35.04	239 iPd	49 38.70	0.7		
	0.5s	24.00nm		5.4mb		
COOL	35.06	222 eP	49 38.10	0.0		
	0.5s	21.00nm		5.3mb		
MRWA	37.73	228 iPc	50 02.00	1.5		
	0.6s	29.00nm		5.4mb		
KLB	37.78	224 iPc	50 01.10	0.1		
	0.5s	44.00nm		5.6mb		
BAL	37.96	226 eP	50 02.50	0.0		
NWAO	38.93	223 iPd	50 11.10	0.5		
	0.5s	16.00nm		5.2mb		
MUN	39.08	225 eP	50 12.30	0.5		
RKG	39.77	221 eP	50 21.00	3.5X		
IIDJ	42.24	348 P	50 38.60	0.8		
TCW	42.40	150 P	50 38.90	-0.1		
MSZ	42.43	158 P	50 40.00	0.8		
MNG	42.58	148 P	50 40.10	-0.4		
		i	51 01.00			
CHJJ	42.58	350 P	50 40.90	0.4		
LTZ	42.65	153 P	50 40.90	-0.2		
CAW	42.72	149 P	50 41.60	0.0		
TSRJ	42.72	346 eP	50 41.90	0.3		
WDW	42.80	149 P	50 41.60	-0.6		
MTW	42.98	149 P	50 43.00	-0.7		
BLW	43.12	149 eP	50 43.80	-1.1		
MAT	43.21	349 iPd	50 45.50	-0.1		
	1.1s	96.20nm		5.5mb		
MTMJ	43.33	349 P	50 47.20	0.5		
NIIJ	43.74	350 eP	50 51.30	1.4		
SSE	44.68	327 P	51 13.00	15.4X		
IPM	47.66	282 ePd	51 20.90	-0.5		
LOE	50.91	298 P	52 03.00	16.7X		
GYA	51.11	311 eP	52 04.60	16.8X		
	N 10s	0.80um				
	E 10s	1.00um				
KMI	53.45	307 eP	52 22.50	17.1X		
CHTO	53.89	298 e(P)	52 07.80	-0.7		
	1.2s	2.43nm		4.1mb X		
BJI	54.18	330 eP	52 09.00	-1.2		
TIY	54.42	326 eP	52 12.00	-0.2		
HHC	57.13	328 eP	52 29.00	-2.7		
BTO	57.78	327 P	52 36.20	0.0		
LZH	58.58	319 Pc	52 41.50	-0.5		
	1.6s	39.00nm		5.3mb		
DRV	60.80	183 eP	52 57.20	0.7		
AFR	62.15	107 iP	53 07.00	0.7		
	1.0s	45.00nm		5.5mb		
PPN	62.48	107 iP	53 09.40	0.9		
	1.0s	55.00nm		5.6mb		
SHL	62.50	303 iP	53 10.50	1.7		
TVO	62.66	107 iP	53 11.00	1.2		
	1.0s	70.00nm		5.7mb		
TBI	62.84	113 iP	53 12.10	1.3		
	0.9s	75.00nm		5.8mb		
PMO	63.88	104 iP	53 19.10	1.3		
	1.0s	85.00nm		5.7mb		
VAH	64.14	104 iP	53 20.20	0.7		
	1.0s	40.00nm		5.3mb		
TPT	64.15	104 iP	53 20.50	0.9		
	1.0s	55.00nm		5.5mb		
RUV	64.38	104 iP	53 21.90	0.8		
	1.0s	55.00nm		5.5mb		
MAW	82.48	203 iP	55 06.40	0.8		
PMR	82.94	25 eP	55 07.50	-0.6		
IMA	83.34	21 eP	55 10.20	-0.1		
SPA	84.05	180 iPc	55 15.10	1.2		
	1.0s	69.00nm		5.6mb		
		i	55 30.50			
QUE	84.94	301 eP	55 05.20	-13.9X		
FBA	84.95	23 eP	55 16.50	-1.7		
INK	91.43	21 ePc	55 49.00	0.0		
PNT	96.32	41 eP	56 12.00	0.1		
	0.7s	6.00nm		5.2mb		
MBC	96.51	14 eP	56 04.00	-8.2X		
BRG	121.00	328 e(PKP)	01 35.00	-0.8		
CLL	121.26	328 ePKP	01 36.00	-0.3		
KHC	122.14	326 PKP	01 39.00	0.9		
LNV	125.80	140 ePKP	01 45.50	-0.1		
PEL	126.78	140 iPKP	01 48.00	0.3		
	1.0s	25.00nm				
BCAO	129.25	271 ePKPd	01 53.00	0.1		
	0.7s	2.00nm				
		id	05 13.70			
LPB	138.21	123 PKP	01 56.00	-14.2X		
		i	02 07.00			
ZOBO	138.32	123 PKP	01 58.00	-12.6X		
	1.1s	31.90nm				
		i	02 11.00			
CCH	139.39	125 ePKP	02 03.80	-8.4X		
		i	02 14.80			
SDV	142.01	83 ePKP	02 12.30	-4.6X		
MGP	144.12	67 ePKP	02 16.50	-3.5X		
MORO	144.18	80 iPKPd	02 18.00	-2.4X		
SIV	144.20	128 iPKPd	02 18.80	-1.5		
AVE	144.25	323 ePKP	02 18.50	-1.4		
		i	02 33.50			
PORP	144.52	67 ePKP	02 18.70	-2.1X		
PLAV	145.05	81 ePKP	02 21.00	-1.1		
CPD	145.19	67 ePKP	02 21.00	-0.9		
GUAC	145.25	81 iPKPc	02 22.30	0.0		
LLAV	145.68	80 iPKP	02 22.40	-0.6		
OLLA	145.72	81 iPKPc	02 23.30	0.2		
TIO	145.76	320 iPKPd	02 23.40	0.7		
		i	02 37.50			
KUK	148.14	272 ePKP	02 27.00	0.2		
TCE	150.61	79 ePKP	02 35.64	5.0X		
TPP	150.95	80 ePKP	02 36.84	5.8X		
TRN	150.96	79 ePKP	02 36.75	5.7X		
TBH	151.30	79 ePKP	02 39.31	7.7X		
KIC	152.49	272 PKP	02 40.40	7.0X		
TIC	152.77	273 PKP	02 40.78	7.0X		
LIC	152.77	272 PKP	02 40.92	7.2X		
BAO	153.55	144 iPKPc	02 35.70	0.7		
	S.D. = 0.9	on 81 of 105 obs.				

% MAY 09, 1990 04h 50m 06.38± 1.49s
39.089 N ±13.8km 22.644 E ± 9.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.25	255 ePg	50 11.60	-0.2		
		eSg	50 15.00			
LIT	1.02	353 ePg	50 25.60	0.0		
		eSg	50 38.10			
PAIG	1.16	43 ePg	50 28.20	0.2		
OUR	1.62	39 ePb	50 34.60	-0.4		
IGT	1.85	285 ePn	50 38.90	0.5		
GRG	1.87	354 ePn	50 39.60	0.8		
FNA	1.95	330 ePn	50 39.00	-0.9		
	S.D. = 0.7	on 7 of 7 obs.				

MAY 09, 1990 04h 55m 34.77± 0.62s
37.263 N ± 6.6km 29.471 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.62	146 iPg	55 47.20	-0.2		
BCK	0.91	77 iPn	55 52.50	0.2		
YER	0.96	263 iPn	55 53.00	0.0		
KHL	1.06	2 ePn	55 54.60	-0.2		
CIN	1.15	287 ePg	55 56.00	-0.3		
		iSg	56 11.00			
ALT	1.86	16 ePn	56 07.00	0.0		
IZM	2.08	304 ePn	56 13.50	3.3X		
SMG	2.14	283 ePn	56 11.50	0.5		
	S.D. = 0.3	on 7 of 8 obs.				

---

* MAY 09, 1990 05h 24m 23.13± 1.57s
29.390 N ±24.7km 66.925 E ±16.0km
DEPTH = 33.0km (normol)
4.2mb (4 obs.)
PAKISTAN (710)

QUE	0.80	2 iPd	24 38.10	0.0		
NDI	9.04	92 iPd	26 35.00	0.7		
	0.7s	27.40nm		5.5mb X		
		iS	28 17.50			
MAIO	9.30	320 eP	26 40.00	2.0		
		eS	28 30.00			
DMN	16.08	92 P	28 08.20	-0.5		
GUN	16.71	90 P	28 15.80	-0.9		
SHL	22.45	94 iP	29 23.50	2.6X		
CHTO	30.97	103 eP	30 41.00	1.3		
	0.7s	1.11nm		3.8mb		
HFS	46.83	327 eP	32 49.80	-1.6		
	1.4s	17.50nm		4.9mb		
NB2	48.26	327 P	33 01.00	-1.6		
	0.7s	1.80nm		4.2mb		
YKA	88.43	1 eP	37 13.30	0.5		
	0.7s	0.90nm		4.2mb		
	S.D. = 1.4	on 9 of 10 obs.				

MAY 09, 1990 06h 20m 22.19± 0.82s

36.307 N ±11.4km 27.178 E ± 5.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 4.0 (ATH).

YER	1.21	47	iPn	20 43.80	-1.0
SMG	1.43	349	ePb	20 48.00	-0.1
CIN	1.48	29	eP	20 48.00	-0.9
APE	1.53	300	ePb	20 50.20	0.6
KSL	1.95	95	ePn	20 55.00	-0.7
IZM	2.09	2	iPn	21 01.50	3.8X
ELL	2.24	78	ePn	21 00.30	0.3
VAM	2.58	250	ePn	21 04.70	0.0
KHL	2.75	42	ePn	21 09.60	2.4
BCK	2.97	66	ePn	21 11.50	1.2
ATH	3.23	302	ePg	21 26.00	12.1X
VLI	3.44	278	ePn	21 15.70	-1.2
ALT	3.60	39	ePn	21 18.00	-1.2
ITM	4.31	283	ePn	21 30.00	0.7
LFK	5.27	99	ePn	21 46.10	3.2X
BBTK	5.64	50	eP	21 48.00	-0.3

S.D. = 1.2 on 13 of 16 obs.

MAY 09, 1990 06h 35m 18.25± 0.35s
48.179 N ± 8.2km 154.932 E ± 6.5km
DEPTH = 33.0km (normal)
4.5mb (18 obs.)
KURIL ISLANDS (221)

MAT	16.93	233	eP	39 12.00	-2.1X
	0.8s	12.69nm			4.1mb
IMA	31.93	37	P	41 42.20	-0.5
	0.9s	4.17nm			4.3mb
FBA	34.27	40	P	42 02.50	-0.4
	0.7s	10.17nm			4.9mb
MBC	42.83	21	eP	43 15.00	0.9
YKA	49.04	38	eP	44 03.00	-0.4
	1.0s	2.80nm			4.2mb
SHL	53.64	269	iP	44 37.50	-1.4
CHG	53.64	257	eP	44 39.10	0.4
CHTO	53.64	257	eP	44 38.90	0.2
	1.0s	3.75nm			4.3mb
		pP		44 45.00	20kmX
		sP		44 48.30	
DMN	56.82	276	P	45 01.60	-0.4
FFC	58.85	41	iPd	45 16.30	0.7
	1.1s	18.00nm			5.1mb
LRM	59.35	54	eP	45 19.70	0.1
BW06	62.91	55	P	45 43.60	0.0
	0.8s	2.14nm			4.3mb
FRB	63.29	20	eP	45 44.00	-1.5
RSSD	64.96	51	P	45 56.30	-0.7
ANMO	70.04	60	P	46 29.40	0.5
	0.5s	1.58nm			4.3mb
ALQ	70.04	60	eP	46 29.00	0.1
	0.9s	1.47nm			4.0mb
WB5	70.21	201	eP	46 30.00	0.3
WRA	70.28	201	Pd	46 30.10	0.0
	0.9s	3.90nm			4.5mb
EKA	75.23	347	P	46 59.00	0.1
	1.1s	5.30nm			4.5mb
CLL	75.66	336	iP	47 01.00	-0.4
	1.3s	15.00nm			4.8mb
PRU	76.43	335	ePd	47 06.00	0.2
KHC	77.48	335	iPd	47 12.60	0.9
	1.0s	7.00nm			4.6mb
CDF	79.79	339	eP	47 24.00	-0.4
HAU	80.39	339	eP	47 27.10	-0.4
LOR	81.66	341	eP	47 33.80	-0.3
	0.8s	4.70nm			4.6mb
AVF	82.22	341	eP	47 36.90	-0.1
	0.8s	5.35nm			4.6mb
SMF	82.25	340	eP	47 37.00	-0.2
	0.8s	5.35nm			4.6mb
LPL	82.62	338	P	47 40.20	0.7
LPG	82.64	338	eP	47 40.30	0.7
	0.9s	9.85nm			4.9mb
MAF	82.93	341	eP	47 41.40	0.6
	0.9s	8.20nm			4.8mb
TCF	82.95	341	eP	47 41.10	0.2
LSF	83.13	342	eP	47 41.90	0.1
CAF	84.27	341	eP	47 48.20	0.5

S.D. = 0.6 on 32 of 33 obs.

MAY 09, 1990 06h 37m 09.42± 0.89s
37.060 N ± 8.7km 3.559 W ± 7.3km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 3.0 (MDD). Felt (III) at Dilar, Padul and Gojar.

AFC	0.19	3	iPgc	37 12.70	-1.1
			eSg	37 15.70	
MAL	0.76	244	iPn	37 22.00	-2.2
			iSg	37 32.00	
ENIJ	1.08	94	iPgd	37 29.80	0.1
			eSg	37 44.40	
EBAN	1.12	351	iPgc	37 30.60	0.2
			eSg	37 46.20	
EPRU	1.34	267	ePn	37 35.30	1.1
			eSn	37 53.80	
EHOR	1.54	300	iPnc	37 37.10	0.1
			eSn	37 57.20	
EJIF	1.65	249	ePn	37 39.80	1.3
EVIA	1.78	28	iPnc	37 41.10	0.5
			eSn	38 03.50	
GUD	3.61	353	ePg	38 19.50	12.9X
			eSg	39 01.20	
ETOR	3.93	17	ePn	38 11.20	0.0

S.D. = 1.3 on 9 of 10 obs.

• MAY 09, 1990 06h 44m 34.14± 0.83s
38.532 N ± 6.3km 27.344 E ±14.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.15	205	iPg	44 37.50	-0.1
			iSg	44 41.50	
CIN	1.10	148	ePg	44 55.00	0.2
			iSg	45 13.00	
EZN	1.51	329	ePn	44 57.60	-3.7X
KHL	1.72	96	ePn	45 10.00	5.6X
EDC	1.86	12	ePn	45 06.60	0.4
KGT	1.92	359	ePn	45 07.20	0.1
YLV	2.57	37	ePn	45 16.00	-0.5

S.D. = 0.5 on 5 of 7 obs.

MAY 09, 1990 07h 43m 11.59± 0.52s
43.626 N ± 5.5km 12.169 E ± 4.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	271	Pc	43 14.70	-0.6
			eSg	43 17.20	
RSM	0.36	34	P	43 19.80	0.7
			eSg	43 29.30	
SFI	0.37	322	P	43 18.70	-0.6
			eSg	43 21.70	
PGD	0.41	308	P	43 19.90	-0.1
			eSg	43 26.20	
ARV	0.58	102	P	43 22.40	-0.9
			eSg	43 31.90	
ASS	0.66	147	P	43 24.40	-0.4
			eSg	43 32.70	
PII	1.20	275	P	43 34.00	0.1
			eSg	43 49.80	
MME	1.20	299	P	43 34.80	0.6
			eSg	43 55.30	
BDI	1.22	292	P	43 34.50	0.2
			eSg	43 49.90	
MNS	1.30	163	P	43 36.60	1.0
			eSg	43 57.90	
TRI	2.37	28	eP	44 30.10	39.0X
VOY	2.70	26	ePn	43 51.80	-4.1X
			eSg	44 40.70	

S.D. = 0.7 on 10 of 12 obs.

% MAY 09, 1990 07h 50m 26.74± 0.84s
9.626 N ± 9.6km 69.745 W ± 7.4km
DEPTH = 10.0km (geophysicist)
VENEZUELA (101)

TOV	0.17	344	iPgc	50 30.50	-0.1
			iSg	50 33.00	
SDV	1.14	230	iPnd	50 48.30	0.0
			iSn	51 04.00	
MORO	1.87	49	eP	50 59.50	0.3
			eS	51 28.00	
PLAV	2.22	83	eP	51 05.60	1.2
			iS	51 37.90	
GUAC	2.50	77	eP	51 07.00	-1.3
			eS	51 48.00	
OLLA	2.92	82	eP	51 13.50	-0.8
			eS	51 57.00	
LLAV	3.01	73	eP	51 16.10	0.6
			eS	52 00.00	

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

• MAY 09, 1990 08h 05m 33.61± 1.67s
2.167 S ± 5.6km 80.596 W ±13.7km
DEPTH = 27.8 ± 12.2 km
4.7mb (6 obs.)
NEAR COAST OF ECUADOR (105)

GGP	2.81	45	iP+	06 17.40	-0.9
QTO	2.84	47	eP	06 19.00	0.5
			S	06 53.00	
QUR	2.86	46	eP	06 18.10	-0.7
			eS	06 52.00	
GECU	3.03	53	eP	06 22.40	1.1
			S	06 58.20	
NNA	10.44	159	iP	08 04.30	-0.4
	0.6s	10.00nm			5.3mb
			iS	09 54.50	
PT10	10.48	160	eP	08 04.50	-0.7
			eS	09 56.00	
PT08	10.52	158	iPc	08 07.10	0.9
PT02	11.47	159	eP	08 16.70	-2.1
			e(S)	10 15.60	
PT03	12.67	158	eP	08 36.30	1.4
			e(S)	10 50.80	
ARE	16.79	148	eP	09 34.00	5.1X
ZOBO	18.63	140	P	09 52.20	0.2
	Z 20s	0.25um			
		LR		18 10.00	
LPB	18.84	140	P	09 50.00	-4.4X
CCH	20.74	138	P	10 15.20	0.0
ALQ	44.17	329	eP	13 43.50	1.4
	0.9s	3.78nm			4.2mb
SES	58.50	338	eP	15 30.00	0.3
FFC	59.39	346	eP	15 35.00	-0.8
PNT	61.34	332	eP	15 50.00	0.8
	0.9s	12.00nm			5.0mb
YKA	69.43	344	eP	16 38.50	-2.5
	0.6s	1.50nm			4.3mb
INK	79.10	342	ePc	17 36.30	-0.5
		pP		17 48.00	39kmX
MBC	81.37	351	eP	17 49.00	0.3
	0.7s	4.00nm			4.5mb
SPA	87.85	180	eP	18 22.80	1.2
	1.0s	9.50nm			5.1mb
SSE	144.62	327	ePKP	25 07.50	-2.4X
			i	25 14.00	
DMN	151.24	27	PKP	25 25.60	4.7X
GUN	151.32	26	PKP	25 26.00	4.9X

S.D. = 1.2 on 19 of 24 obs.

MAY 09, 1990 10h 03m 28.96± 0.37s
19.757 S ± 5.2km 177.857 W ± 3.9km
DEPTH = 449.3 ± 4.1 km
4.9mb (23 obs.)
FIJI ISLANDS REGION (181)

TVI	3.50	323	iP	04 40.50	-0.1
KRO	3.57	313	iP	04 40.90	-0.2
OVA	3.79	302	iP	04 43.50	0.5
SVA	3.85	294	eP	04 43.90	0.5
VUN	3.89	296	eP	04 43.80	0.0
NDE	4.14	319	iP	04 46.10	-0.1
SGE	4.54	298	eP	04 50.90	1.0
DZM	14.85	258	iPc	06 40.90	0.9
NOZ	19.13	190	eP	07 23.50	1.1
MNG	21.56	194	eP	07 44.50	-1.1
	0.2s	4.00nm			4.6mb
LTZ	24.42	198	eP	08 09.70	-2.0
AFR	26.69	90	iP	08 31.00	-1.1
	1.2s	90.00nm			5.1mb
PAE	26.85	90	iP	08 32.50	-1.0
	1.2s	70.00nm			5.0mb
PPT	26.87	90	iP	08 32.80	-0.9
	1.2s	115.00nm			5.2mb
BRS	27.92	249	iPc	08 43.30	0.3
			e(S)	12 08.00	
PMO	28.96	85	iP	08 51.10	-0.9
	1.2s	70.00nm			5.0mb
VAH	29.15	86	iP	08 52.40	-1.3
	1.2s	50.00nm			4.8mb
TPT	29.22	85	iP	08 53.20	-1.1
	1.2s	80.00nm			5.0mb
COO	29.34	242	eP	08 56.70	1.4
RUV	29.40	86	iP	08 54.70	-1.1

09d 10h

	1.2s	70.00nm		5.0mb			0.7s	2.10nm							
CAN	33.04	235	iPc	09 27.90	1.0	EKA	144.26	5	PKPc	22 12.20	-1.5	? MAY 09, 1990 10h 49m 51.76± 1.39s			
BWA	33.21	237	iPc	09 27.00	-1.4		1.0s	46.70nm				26.937 N ±10.0km 142.197 E ±49.8km			
CTA	33.70	263	iPc	09 33.00	0.4	KRA	146.61	339	ePKP	22 19.20	1.4	DEPTH = 33.0km (normal)			
	0.9s	120.17nm		5.3mb		WIT	146.82	355	ePKP	22 22.00	4.0X	4.9mb (1 obs.)			
CMS	34.61	243	eP	09 41.50	1.4	KSP	147.02	343	ePKP	22 21.20	2.8X	BONIN ISLANDS REGION			(212)
QIS	39.86	261	iPd	10 23.60	0.1				id	22 22.80					
RKT	39.96	103	iP	10 24.80	0.6	SPC	147.24	338	ePKP	22 21.80	2.7X	IIDJ	9.27	338	P 52 07.40 1.2
	1.0s	75.00nm		5.1mb		CLL	147.37	347	ePKP	22 20.00	1.1	KAKJ	9.40	350	eP 52 08.60 0.7
WB5	44.82	261	iPc	11 02.20	-0.9		1.0s	39.00nm							S 53 43.90
WRA	44.84	261	Pc	11 02.10	-1.2	BRG	147.58	346	iPKP	22 22.60	3.3X	CHJJ	9.48	344	P 52 09.40 0.3
	1.0s	31.00nm		4.7mb			1.4s	29.00nm							S 53 41.90
GUA	49.37	309	eP	11 37.00	-0.9	WTS	147.62	355	ePKPc	22 22.50	3.2X	TSRJ	10.08	330	eP 52 17.20 -0.2
	0.7s	136.99nm		5.5mb			0.9s	34.00nm				MAT	10.16	341	eP 52 17.00 -1.4
GUMO	49.43	309	eP	11 37.50	-0.9				e	22 26.00		MTMJ	10.32	340	P 52 20.80 0.2
	0.5s	93.88nm		5.4mb		MLR	147.67	328	ePKPc	22 35.00	15.2X	NIIJ	10.62	346	P 52 23.90 -0.8
PJG	49.43	309	eP	11 37.50	-0.9	PRU	148.26	345	PKPd	22 24.30	3.9X	WB5	47.15	190	iPc 58 23.20 0.2
FORR	49.68	246	eP	11 40.00	0.0				e	22 29.20		WRA	47.22	190	Pc 58 23.30 -0.2
KNA	50.83	265	eP	11 48.00	-0.7	MOX	148.27	349	ePKPc	22 24.50	4.0X		0.9s	12.70nm	4.9mb
MBL	58.05	257	iPd	12 39.30	-0.6		1.5s	37.00nm				S.D. = 0.9 on 9 of 9 obs.			
MEKA	58.36	250	eP	12 41.30	-0.7	ENN	148.91	355	ePKPc	22 26.00	4.6X				
NANU	61.72	254	eP	13 04.00	-0.4		0.8s	12.00nm				? MAY 09, 1990 11h 08m 45.26±10.31s			
	0.3s	5.00nm		4.5mb					e	22 31.00		10.691 N ±43.2km 62.726 W ±86.4km			
KAKJ	68.36	324	P	13 45.80	0.0	MEM	149.06	355	PKP	22 26.60	5.0X	DEPTH = 33.0km (normal)			
CHJJ	68.90	324	P	13 47.60	-1.5	SRO	149.09	339	iPKP	22 26.20	4.5X	NEAR COAST OF VENEZUELA			(97)
IIDJ	69.11	322	P	13 49.60	-0.9				e	23 42.80		MD 3.8 (TRN).			
NIIJ	69.76	324	P	13 53.50	-0.7	ZST	149.15	340	ePKP	22 27.00	5.2X				
MTMJ	69.95	323	P	13 54.60	-1.0	TNS	149.19	352	ePKPc	22 27.00	5.1X	TCE	0.96	90	eP 09 03.09 0.7
TSRJ	70.27	321	P	13 56.70	-0.6	KHC	149.29	345	ePKP	22 22.50	0.4				eS 09 14.58
SPA	70.37	180	iPc	13 59.40	1.7				i	22 27.00		TRN	1.30	92	eP 09 06.93 -0.3
	1.0s	15.50nm		4.6mb		VKA	149.33	341	ePKP	22 31.50	9.4X				eS 09 21.91
PRS	77.19	44	ePc	14 37.50	0.9		0.8s	22.40nm				TPP	1.31	106	eP 09 07.72 0.4
PCC	77.24	42	e(P)	14 37.10	0.3				ic	22 32.20					eS 09 22.28
BCH	77.37	45	P	14 38.70	1.0				i	22 40.50		TBH	1.64	97	eP 09 11.45 -0.8
SAO	77.40	43	ePc	14 37.90	0.2	ABH	149.63	353	ePKP	22 27.69	5.1X				eS 09 31.19
PRI	77.54	44	eP	14 39.60	0.9	DOU	149.67	357	PKP	22 28.00	5.5X	FCV	2.85	30	eP 09 29.28 -0.1
MHC	77.62	43	ePc	14 39.80	0.7	TOD	149.75	351	ePKP	22 27.75	5.0X				eS 10 01.09
ARN	77.69	43	P	14 39.70	0.4	RUP	149.87	354	ePKP	22 28.39	5.4X	SVB	2.94	29	eP 09 30.45 -0.3
PAS	78.08	47	eP	14 42.00	0.5	FLN	150.99	4	ePKP	22 30.10	5.5X				eS 10 05.02
MWC	78.20	47	eP	14 43.00	0.6		0.7s	33.05nm				SVV	3.00	29	eP 09 32.04 0.4
BAR	78.33	49	eP	14 44.00	1.1	CDF	151.11	353	ePKP	22 30.80	5.9X				eS 10 06.29
RVR	78.55	48	eP	14 45.00	1.0		0.6s	11.70nm				S.D. = 0.6 on 7 of 7 obs.			
PLM	78.56	48	eP	14 44.00	-0.3	LDF	151.17	3	ePKP	22 30.40	5.5X				
SBB	78.62	47	eP	14 44.00	-0.4		0.6s	16.25nm				* MAY 09, 1990 12h 18m 40.32± 0.62s			
PEC	78.64	48	P	14 44.30	-0.2	GRR	151.33	4	ePKP	22 31.00	5.9X	1.453 N ±14.6km 123.780 E ±13.1km			
FRI	78.66	44	ePc	14 44.70	0.2		0.7s	26.45nm				DEPTH = 33.0km (normal)			
ISA	78.72	46	eP	14 45.00	0.1	HAU	151.61	354	ePKP	22 31.80	6.2X	4.5mb (2 obs.)			
CMB	78.83	43	ePc	14 45.90	0.5		0.6s	13.55nm				MINAHASSA PENINSULA			(265)
WDC	79.02	40	ePc	14 46.70	0.4	SOTA	151.62	347	ePKP	22 31.50	5.8X				
ORV	79.03	41	ePc	14 46.50	0.1		0.8s	22.40nm				TSM	6.33	296	ePc 20 13.20 -0.6
MIN	79.44	40	eP	14 48.80	0.1				ic	22 32.20		KKM	8.82	301	eP 20 47.00 -1.6
TPC	79.53	48	eP	14 50.00	0.8				i	22 40.50		KGM	20.46	272	eP 23 17.80 -0.2
GSC	79.66	47	eP	14 50.00	0.1	LPF	151.68	5	ePKP	22 31.80	6.2X	IPM	22.93	278	ePc 23 44.30 1.5
GLA	79.84	50	eP	14 52.00	1.2		0.6s	37.00nm				WB5	23.61	154	eP 23 47.40 -1.9
KDC	80.05	13	iPc	14 51.20	-0.1	BSF	151.74	353	ePKP	22 31.90	6.0X	WRA	23.65	155	Pd 23 48.00 -1.8
KVN	80.88	43	P	14 55.90	-0.4		0.6s	9.00nm					1.0s	17.00nm	4.5mb
TNP	80.91	44	P	14 57.00	0.5	LJU	151.87	342	ePKP	22 33.00	7.0X	PMG	25.66	115	eP 24 10.00 0.9
	1.0s	10.42nm		4.4mb		VOY	152.06	342	ePKP	22 32.50	6.1X	QIS	26.81	145	eP 24 18.00 -1.6
SVW	82.55	11	ePd	15 03.20	-0.9	VBY	152.13	340	e(PKP)	22 34.00	7.7X				e 24 27.00
GMW	83.21	34	P	15 08.00	0.3	TRI	152.40	342	ePKP	22 32.00	5.3X	LOE	26.86	307	eP 24 02.00 -18.1X
RMW	83.68	34	P	15 10.00	-0.1	LOR	152.52	357	ePKP	22 33.80	6.9X	CHG	29.84	307	eP 24 47.90 0.9
TTA	84.19	10	iPd	15 12.00	-0.3		0.7s	12.15nm				CHTO	29.84	307	eP 24 47.30 0.3
PMR	84.27	13	iPd	15 11.50	-1.1	SSF	152.74	358	ePKP	22 34.50	7.3X	MAT	37.38	19	(P) 25 51.00 -0.9
	1.1s	46.90nm		5.1mb			0.8s	12.10nm					1.2s	7.81nm	4.4mb
MSU	84.50	46	P	15 15.80	1.2	LBF	152.80	357	ePKP	22 34.40	7.1X	ADE	38.84	160	eP 26 06.00 1.8
TOA	85.39	14	ePd	15 18.00	-0.2		0.7s	7.70nm				SHL	38.98	311	iP 26 05.80 0.1
PNT	85.97	34	eP	15 21.00	-0.2	AVF	153.02	358	ePKP	22 34.60	7.1X	BRS	40.01	138	iP 26 17.00 3.0X
	0.9s	21.00nm		4.9mb			0.8s	4.05nm							i 26 21.00
ALQ	86.83	51	eP	15 26.20	0.3	SMF	153.15	357	ePKP	22 35.00	7.2X	BWA	42.53	149	eP 26 36.10 1.5
	1.0s	8.50nm		4.4mb			1.1s	8.55nm				CAN	43.52	150	eP 26 42.80 0.1
FBA	87.49	12	iPd	15 26.90	-1.2	MFF	153.16	3	ePKP	22 35.00	7.3X	BUL	95.35	250	iPc 31 56.00 -7.3X
	1.0s	55.00nm		5.3mb			0.7s	11.00nm				ZOBO	161.18	142	PKP 38 41.50 1.5
IMA	87.49	10	iPd	15 27.70	-0.6	OHR	153.43	327	ePKP	22 37.50	9.1X	S.D. = 1.4 on 16 of 19 obs.			
	1.1s	1.40nm		3.7mb X		TCF	153.54	360	ePKP	22 35.90	7.6X				
LRM	88.06	40	eP	15 32.00	0.5		0.8s	6.70nm				MAY 09, 1990 14h 33m 35.76± 0.45s			
BW06	88.34	43	P	15 32.70	-0.2	LSF	153.57	1	ePKP	22 35.80	7.5X	11.485 S ± 5.5km 166.585 E ± 8.6km			
GOL	89.72	47	P	15 40.10	0.7	MAF	153.60	359	ePKP	22 36.50	8.1X	DEPTH = 33.5km (2 depth phases)			
	1.1s	19.23nm		4.9mb			0.9s	8.20nm				5.1mb (14 obs.)			
GLD	89.85	47	P	15 41.50	1.7	LPL	154.03	353	ePKP	22 38.10	8.8X	SANTA CRUZ ISLANDS			(184)
	1.2s	25.25nm		5.0mb			0.7s	2.20nm				CENTROID, MOMENT TENSOR			(HRV)
CHG	90.12	290	eP	15 43.00	1.7	LPG	154.05	353	ePKP	22 38.10	8.7X	Data Used: GDSN			
SES	91.19	36	ePc	15 46.00	0.4		0.7s	2.75nm				L.P.B.: 12S, 20C			
RSSD	92.53	44	P	15 52.30	0.2	RJF	154.52	1	ePKP	22 38.00	8.4X	Centroid Locotion:			
INK	93.52	15	eP	15 55.00	-0.9	LFF	154.86	2	ePKP	22 38.70	8.6X	Origin Time 14:33:46.1 1.3			
YKA	95.78	25	eP	16 04.80	-1.4	CAF	154.90	0	ePKP	22 39.10	8.9X	Lat 11.56S 0.16 Lon 165.73E 0.15			
	1.1s	3.40nm		4.5mb		LPO	155.13	2	ePKP	22 39.20	8.7X	Dep 33.0 FIX Half-duratian 1.5			
NB2	138.26	353	PKP	22 04.60	1.5	S.D. = 0.9 on 94 of 140 obs.						Moment Tensor; Scale 10**16 Nm			

```
      Mrr= 2.21 0.26   Mtt=-1.28 0.51
      Mff=-0.94 0.44   Mrt= 2.59 0.69
      Mrf=-1.12 0.74   Mtf= 0.56 0.28
     Principal Axes:
      T  Val=  3.71   Plg=62   Azm= 20
      N       -0.57      3       116
      P       -3.14     28       208
    Best Double Couple:Ma=3.4*10**16
     NP1:Strike=307 Dip=18 Slip= 101
     NP2:       115     73        87

HNR    6.84 287 eP     35 18.00   1.6
              eS     36 31.00
DZM   10.53 181 iPc    36 09.80   2.2
              iS     38 01.00
BRS   20.46 217 iPd    38 04.80  -8.5X
      0.5s     6.00nm          4.2mb
CTA   21.33 244 iPd    38 25.00   2.7X
      1.0s    53.00nm          4.9mb
RMQ   22.47 226 iPc    38 35.00   1.4
COO   23.38 213 eP     38 45.00   2.5
CMS   27.64 221 eP     39 22.00  -0.4
              e      39 26.00   14kmX
MNG   30.06 166 P      39 43.30  -0.8
      0.4s     7.00nm          4.8mb
PGZ   30.25 165 eP     39 44.70  -1.1
      0.4s    23.00nm          5.3mb
THZ   30.67 171 eP     39 49.40  -0.1
LTZ   31.57 172 P      39 57.20  -0.2
WB5   32.07 251 eP     40 00.20  -1.9
WRA   32.11 251 Pd     40 00.90  -1.5
      0.8s    18.50nm          5.0mb
TOO   32.14 213 eP     40 02.50   0.1
MQZ   32.53 172 P      40 05.60  -0.1
ADE   34.46 223 iPc    40 22.70   0.0
MTN   34.67 264 eP     40 24.00  -0.6
MBL   45.74 252 iPc    41 55.90  -0.1
COOL  46.18 238 eP     41 58.20  -1.2
MEKA  47.56 244 eP     42 10.20  -0.2
NANU  49.83 250 eP     42 28.00   0.1
      0.5s    13.00nm          5.2mb
NWAO  49.91 237 eP     42 27.70  -0.7
MUN   50.54 238 eP     42 32.30  -0.9
PPR   52.05 292 ePc    42 46.00   1.2
KKM   53.05 287 ePc    42 52.00  -0.5
NJ2   62.91 315 Pc     44 01.00  -0.2
CN2   66.54 329 P      44 24.30  -0.3
              sP     44 40.20
BJI   69.34 321 eP     44 42.00  -0.1
              pP     44 51.00   29km
LOE   70.19 293 eP     44 47.00  -0.8
TIY   70.44 317 P      44 49.30   0.3
XAN   71.02 312 Pc     44 52.50  -0.1
KMI   72.05 301 Pd     45 00.00   0.8
              sP     45 14.50
CHG   73.15 294 ePc    45 05.50   0.0
      1.1s    16.77nm          4.9mb
CHTO  73.15 294 iPc    45 05.80   0.3
      1.2s    62.71nm          5.5mb
              pP     45 19.90   49kmX
CD2   73.52 307 P      45 07.00  -0.5
      1.0s    13.00nm          4.9mb
LZH   75.66 312 Pc     45 20.00   0.1
      1.2s    38.00nm          5.3mb
              pP     45 31.50   38km
SPA   78.59 180 iPc    45 35.40  -0.2
      1.0s    30.00nm          5.3mb
GTA   79.95 314 Pc     45 44.30   0.9
SHL   81.45 298 iP     45 51.50  -0.1
GUN   87.25 299 P      46 21.20   0.1
      0.8s    13.00nm          5.2mb
DMN   87.84 299 P      46 23.80   0.0
      0.8s    32.00nm          5.7mb
WMQ   99.99 315 P      46 33.20  -0.2
GBA   91.84 283 Pd     46 47.80   5.5X
      0.9s     1.70nm          4.5mb
YKA   94.98  27 eP     46 56.70   0.9
      0.5s     0.30nm          4.0mb X
BCAO 147.62 260 iPKPc 53 19.00   2.4X
      0.2s    92.00nm
              ic     53 34.40
              ic     53 36.50
     S.D. = 0.9  an  41 of  45 abs.
-------------------------------------
% MAY 09, 1990  15h 10m 51.81± 0.98s
  40.649 N ± 9.4km   15.850 E ± 6.9km
  DEPTH =  10.0km  (geophysicist)

 SOUTHERN ITALY                    (390)
SGO     0.42 258 Pc     10 59.80  -0.6
MGR     0.56 204 P      11 01.90  -1.2
                eSg     11 10.50
ORI     0.74 142 P      11 06.30  -0.1
                eSg     11 19.80
BSS     0.81 280 P      11 08.60   1.2
                eSg     11 20.70
BAI     0.90  58 P      11 08.50  -0.6
                eSg     11 22.00
TDS     1.06 159 P      11 13.10   1.4
     S.D. = 1.4   an   6 of   6 abs.
-------------------------------------
% MAY 09, 1990  15h 11m 56.16± 1.00s
  40.646 N ± 9.6km   15.852 E ± 7.1km
  DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                    (390)
SGO     0.42 258 Pc     12 04.10  -0.7
                eSg     12 12.30
MGR     0.56 204 P      12 06.50  -0.9
                eSg     12 14.80
ORI     0.74 142 P      12 09.90  -0.8
                eSg     12 22.40
BSS     0.81 281 P      12 12.80   1.0
                eSg     12 25.10
BAI     0.90  58 P      12 13.00  -0.4
                eSg     12 26.00
TDS     1.05 159 P      12 17.80   1.8
     S.D. = 1.4   on   6 of   6 obs.
-------------------------------------
*  MAY 09, 1990  16h 08m 33.80± 0.66s
  12.812 N ±11.0km   88.353 W ± 8.8km
  DEPTH =  58.4km  (  5 depth phases)
  5.0mb ( 18 abs.)
 OFF COAST OF CENTRAL AMERICA    ( 76)
     Felt (III) at San Salvador, El
     Salvador.

QZA     0.95 319 iPc    08 51.20   0.0
SJAS    1.16 317 iPd    08 54.50   0.3
LFU     1.19 322 iPd    08 56.00   1.4
SSS     1.19 316 iPd    08 54.60   0.0
                eS      09 07.80
VSS     1.27 317 iPc    08 56.50   0.8
YPE     1.83 315 iPd    09 04.30   0.7
CUSS    1.90 305 eP     09 04.20  -0.2
TPX     4.33 299 iP     09 39.20   0.6
                iS      10 19.50
SCX     5.69 314 eP     10 15.50  17.8X
                (S)     11 17.00
OXX     9.13 299 eP     10 47.50   1.7
                (S)     12 27.00
UPA     9.46 113 eP     10 53.70   3.7X
      0.8s     19.40nm          5.2mb
   Z 18s      0.24um          3.8Msz
                e      11 09.80
PPM    11.67 304 iP     11 21.80   1.2
                (S)     13 44.50
PRM    21.87  13 P      13 25.50   2.3
UYO    21.97 346 eP     13 25.30   1.0
JSC    22.32  16 P      13 30.00   2.3
LHS    22.63  16 P      13 33.30   2.5
RSCP   22.83   6 P      13 34.00   1.3
TKL    23.12  10 P      13 37.00   1.5
MEO    23.76 339 e(P)   13 43.00   1.2
CVL    26.57  18 P      14 09.00   0.8
ALQ    27.46 326 eP     14 16.00  -0.6
      0.7s     6.34nm          4.3mb
ANMO   27.47 326 P      14 18.90   2.3
      0.6s     4.42nm          4.2mb
GLD    30.69 334 P      14 45.40   0.0
      0.9s    38.16nm          5.1mb
GOL    30.71 334 P      14 45.20  -0.5
      0.8s    44.64nm          5.2mb
GLA    31.47 314 P      14 52.30   0.1
                pP     15 07.00   60km
TPC    32.90 315 eP     15 19.00   14.3X
PLM    33.07 313 P      15 07.50   1.2
                pP     15 21.00   53km
RSSD   33.98 340 P      15 14.00  -0.1
DAU    34.07 328 P      15 15.00   0.0
MWC    34.37 313 eP     15 33.00   15.4X
SBB    34.45 314 eP     15 17.00  -1.1
BW06   35.05 332 P      15 22.00  -1.3
ZOBO   35.14 145 iPc    15 27.00   2.3
   Z  24s      0.20um          3.8MszX
                LR     27 04.00
TNP    35.96 320 P      15 31.20   0.2
      0.7s     2.67nm          4.3mb
IMW    36.55 332 P      15 35.80  -0.2
KVN    37.09 320 P      15 40.50   0.0
CCH    37.16 143 (P)    15 46.00   4.6X
RSON   38.19 355 P      15 47.60  -1.7
      0.6s    19.63nm          5.2mb
              pP     16 03.30   62km
LRM    38.72 333 iPc    15 59.70   5.5X
SIV    39.33 136 P      16 01.00   1.7
NEW    42.67 332 P      16 25.00  -1.4
      0.8s     5.21nm          4.3mb
FFC    43.16 348 iPc    16 30.10  -0.1
      0.5s    24.00nm          5.2mb
LON    43.98 327 P      16 35.70  -1.3
BMW    44.58 326 P      16 40.80  -1.1
EDM    44.96 339 iPc    16 44.30  -0.5
      0.5s    82.00nm          5.8mb
SCH    45.19  17 ePc    16 45.90  -0.7
      0.6s    25.00nm          5.2mb
MCW    45.74 328 P      16 50.00  -1.0
BAO    48.92 124 eP     17 14.70  -1.7
FRB    52.74  11 eP     17 42.00  -2.5
YKA    53.03 345 eP     17 44.90  -1.9
      0.8s    24.80nm          5.3mb
INK    62.60 343 eP     18 52.00  -1.8
      0.8s    27.00nm          5.4mb
              pP     19 08.00   59km
PMR    65.09 333 P      19 08.50  -1.7
      0.6s     7.64nm          4.9mb
MBC    65.54 352 eP     19 12.00  -0.9
      0.5s     6.00nm          4.8mb
              pP     19 28.00   59km
FBA    65.74 336 P      19 12.20  -2.2
      0.6s     9.85nm          5.0mb
IMA    68.45 337 P      19 29.30  -2.3
      0.6s     1.54nm          4.1mb
TTA    68.56 333 P      19 29.50  -2.7
NB2    83.48  29 P      20 54.80  -1.5
      0.8s     1.70nm          4.1mb
BUL   119.41 106 iPKPc  27 14.60  -4.7X
WB5   138.50 254 ePKP    27 48.20  -7.4X
                e      27 56.60
                e      28 12.80
WRA   138.52 254 PKPc   27 46.70  -8.9X
      0.6s     0.70nm
CHG   147.76 347 ePKP    28 12.60   1.1
CHTO  147.76 347 ePKP    28 12.60   1.1
      0.8s     4.03nm
LOE   148.37 341 ePKP    28 14.00   1.5
GBA   150.21  29 PKPc    28 19.80   4.5X
      0.6s     5.00nm
MUN   150.47 226 ePKP    28 22.00   6.7X
MBL   151.83 249 iPKPc   28 25.20   7.6X
     S.D. = 1.4  an  54 of  66 abs.
-------------------------------------
   MAY 09, 1990  16h 44m 54.69± 1.37s
  13.158 S ± 4.3km  167.219 E ± 6.4km
  DEPTH = 195.3 ± 12.0 km
  4.9mb ( 17 obs.)
 VANUATU ISLANDS                   (186)
HNR     8.04 297 eP     46 49.00  -0.5
DZM     8.89 185 iPc    47 09.00   8.4X
              iS     48 49.00
BRS    19.57 221 iPc    49 11.00   1.3
      1.0s     5.50nm          4.0mb
PMG    20.02 279 eP     49 15.00   0.7
CTA    21.22 248 iPd    49 28.60   2.3
      1.1s    40.51nm          4.9mb
              iS     53 16.00
RMQ    21.81 230 iPc    49 34.00   2.0
      0.9s   183.00nm          5.6mb
HBZ    26.27 160 eP     50 12.30  -1.4
CMS    26.82 224 eP     50 19.00   0.2
CNZ    26.96 166 eP     50 21.60   1.5
BWA    27.18 216 eP     50 21.00  -1.1
              ePcP    53 37.20
CAN    27.52 214 eP     50 25.30   0.2
              ePcP    53 38.30
MNG    28.30 167 eP     50 31.00  -1.0
      0.4s    11.00nm          4.9mb
PGZ    28.49 165 eP     50 32.10  -1.5
      0.5s    43.00nm          5.4mb
THZ    28.93 171 P      50 38.00   0.4
```

09d 16h

KHZ	29.66	171	eP	50	43.00	-1.0	OHR	139.58	320	ePKP	03	51.50	-9.5X	ECHE	151.68	341	iPKPd	04	28.90	8.0X
LTZ	29.84	173	P	50	45.90	0.3	MEM	139.63	342	iPKP	04	04.60	4.0X	TOL	152.29	345	iPKPd	04	30.00	8.3X
TOO	31.09	215	eP	50	56.00	-0.7	ABH	139.76	340	ePKP	04	01.50	0.5		1.0s		80.00nm			
WB5	32.16	254	eP	51	04.80	-1.3	VBY	139.95	329	e(PKP)	04	02.10	0.7	EPLA	152.55	349	ePKP	04	30.40	8.3X
WRA	32.19	253	Pd	51	05.20	-1.2	RUP	140.08	340	ePKP	04	02.10	0.5	EVIA	153.03	342	iPKPc	04	31.70	8.8X
	0.9s		7.90nm			4.4mb	GWF	140.51	339	PKP	03	56.03	-6.3X	EALH	153.40	340	ePKP	04	32.30	9.0X
KNA	37.29	261	eP	51	49.40	-0.3	DOU	140.51	342	PKP	04	00.50	-1.8	EBAN	153.84	344	ePKP	04	33.20	9.3X
FORR	40.06	237	eP	52	12.00	-0.4				i	04	05.20		KIC	169.59	230	(PKP)	04	40.40	0.1
WARB	40.18	245	iPc	52	13.80	0.3	CDF	141.11	339	PKP	03	57.00	-6.5X	LKO	172.09	244	PKP	04	41.58	0.1
	0.4s		14.00nm			4.9mb	FEL	141.29	338	PKP	03	57.92	-6.0X		1.0s		32.50nm			
MBL	45.83	253	eP	52	59.00	-0.1	ECH	141.31	339	PKP	03	58.53	-5.3X		S.D. = 0.9		on 90 of 147 obs.			
MEKA	47.43	246	eP	53	11.20	-0.4	VITF	141.72	340	PKP	03	58.90	-5.5X	----------						
NANU	49.87	252	eP	53	30.30	0.0	BSF	141.77	339	PKP	03	59.11	-5.6X	*	MAY 09, 1990 16h 51m 38.50± 1.17s					
	0.7s		35.00nm			5.0mb	LOMF	142.17	338	PKP	03	59.47	-5.9X		6.382 S ±11.7km 152.033 E ±21.7km					
CHJJ	55.73	332	P	54	12.60	-0.7	RSM	142.47	330	PKP	04	03.40	-2.5X		DEPTH = 33.0km (normal)					
IIDJ	55.77	331	P	54	13.60	0.0	VAI	142.64	335	PKP	04	02.30	-3.8X		4.5mb (2 obs.)					
WKYJ	55.90	328	eP	54	14.30	-0.3	FLN	143.07	346	ePKP	04	03.10	-3.7X		NEW BRITAIN REGION					(192)
MAT	56.50	332	iPc	54	17.70	-1.0		0.9s		14.75nm										
	1.0s		32.00nm			5.0mb	LDF	143.14	346	ePKP	04	03.20	-3.7X	RAB	2.18	4	iPc	52	13.00	-0.2
TKSJ	56.52	327	eP	54	17.90	-0.9		1.1s		14.65nm					0.5s		591.55nm			
MTMJ	56.72	332	P	54	20.00	-0.3	ORX	143.15	335	PKP	04	03.80	-3.4X				iS	52	41.50	
NIIJ	56.72	333	P	54	20.50	0.3	BOB	143.23	333	PKP	04	04.50	-2.8X	PMG	5.69	238	eP	53	02.00	-1.0
TSRJ	56.74	330	P	54	20.80	0.4	LOR	143.25	341	ePKP	04	03.80	-3.4X	RMQ	20.24	189	eP	56	13.00	-0.8
YONJ	57.75	327	eP	54	26.50	-1.0	LBF	143.46	341	ePKP	04	04.60	-3.0X	BRS	20.91	178	iP	56	21.00	0.3
SSE	62.36	316	Pc	54	58.00	-0.8		0.9s		7.35nm							i	56	24.00	
	0.8s		16.00nm			4.9mb	GRR	143.50	347	ePKP	04	04.20	-3.3X	WB5	21.78	230	eP	56	31.30	1.7
SBA	64.70	180	e(P)	55	14.40	1.1		0.6s		7.20nm				WRA	21.84	230	Pd	56	32.10	1.9X
BJI	71.02	321	eP	55	53.50	0.4	SSF	143.54	341	ePKP	04	04.90	-2.7X		0.7s		4.20nm		4.0mb	
	1.0s		15.00nm			4.7mb	LSD	143.63	336	PKP	04	06.26	-1.9X	MBL	34.45	242	eP	58	30.50	5.0X
KMI	73.45	301	Pc	56	09.00	1.1	LPL	143.74	337	ePKP	04	06.10	-2.3X	NANU	38.68	242	eP	59	07.00	5.8X
	1.0s		0.06nm			2.3mb X		0.7s		8.25nm					0.5s		13.00nm		5.0mb	
CHG	74.39	294	ePc	56	13.50	0.3	LPG	143.75	337	ePKP	04	06.00	-2.5X		S.D. = 1.5		on 5 of 8 obs.			
	1.0s		18.25nm			4.8mb		0.8s		14.80nm				----------						
CHTO	74.39	294	iPc	56	13.90	0.7	PCP	143.80	334	PKP	04	05.44	-2.8X		MAY 09, 1990 18h 10m 20.92± 0.62s					
	0.8s		12.63nm			4.7mb	AVF	143.83	341	ePKP	04	05.40	-2.7X		38.905 N ± 5.3km 22.043 E ± 6.6km					
SPA	76.93	180	iPc	56	27.10	0.3	RSP	143.84	336	PKP	04	05.85	-2.5X		DEPTH = 10.0km (geophysicist)					
	1.0s		61.00nm			5.3mb	LPF	143.88	347	ePKP	04	05.80	-2.4X		GREECE					(364)
TTA	81.03	16	iPc	56	49.90	1.2		0.7s		20.95nm					ML 2.7 (THE).					
PMR	82.04	19	ePc	56	54.70	0.8	CKI	144.01	334	PKP	04	06.40	-2.1X							
	0.8s		20.50nm			4.9mb	BNI	144.15	336	PKP	04	07.90	-1.0X	AGG	0.25	62	ePg	10	26.80	0.5
SHL	82.78	298	iP	56	58.50	-0.2	BGF	144.20	341	ePKP	04	06.90	-1.9X				eSg	10	33.40	
MAW	83.31	202	iP	57	01.60	1.2		0.9s		40.15nm				NEO	1.00	66	eP	10	41.00	1.1
TOA	83.39	20	ePc	57	02.50	1.6	FIN	144.21	334	PKP	04	06.67	-2.3X	LIT	1.24	16	ePb	10	43.50	-0.5
IMA	84.15	15	iPd	57	06.00	1.3	BST	144.22	350	PKP	03	59.26	-9.5X				eSb	11	01.70	
	1.2s		2.00nm			3.7mb X	RRL	144.22	336	PKP	04	08.11	-1.1	PAIG	1.63	51	ePn	10	48.90	-0.8
CMB	84.61	49	eP	57	08.60	1.1	ROB	144.29	334	PKP	04	07.08	-2.0X				eSn	11	13.40	
			e	58	03.60		PZZ	144.44	335	PKP	04	06.67	-2.8X	ITM	1.72	183	eP	10	52.00	0.9
FRI	84.75	50	eP	57	09.30	1.2	ENR	144.53	335	PKP	04	06.88	-2.7X	KEK	1.92	296	eP	10	54.50	0.6
FBA	84.88	18	iPd	57	08.90	0.7	STV	144.56	335	PKP	04	06.47	-3.1X	FNA	1.95	345	ePn	10	53.30	-1.1
GUN	88.60	299	P	57	27.10	-0.3	MAF	144.59	342	ePKP	04	08.50	-1.0				eSn	11	19.50	
DMN	89.18	298	P	57	30.00	-0.1		0.9s		41.75nm				GRG	2.07	8	ePn	10	56.40	0.3
	0.8s		60.00nm			5.6mb	TCF	144.63	342	ePKP	04	08.40	-1.2				eSn	11	25.10	
GBA	92.82	283	P	57	48.00	1.4		0.9s		46.70nm				OUR	2.07	46	ePn	10	55.30	-0.8
YKA	96.18	27	eP	57	59.70	-1.4	ATN	144.65	320	PKP	04	07.80	-2.0X				eSn	11	24.00	
	0.8s		2.50nm			4.6mb	SBF	144.82	334	ePKP	04	08.70	-1.3	SOH	2.16	27	ePn	10	57.90	0.4
KEV	118.20	345	ePKP	03	14.00	-5.3X	LSF	144.87	343	ePKP	04	09.00	-0.9	VLI	2.29	162	eP	10	58.20	-1.2
SOD	119.99	344	iPKP	03	22.00	-0.8	MFF	145.00	345	ePKP	04	09.50	-0.6	OHR	2.40	337	ePn	11	07.20	6.3X
SUF	123.36	340	iPKP	03	29.20	-0.2	PGF	145.17	331	ePKP	04	09.90	-0.8	VAY	2.45	9	ePn	11	02.50	1.0
	0.7s		31.60nm					0.8s		32.25nm				SRS	2.51	28	ePn	11	02.20	-0.2
NUR	125.40	338	iPKP	03	33.40	0.0	FRF	145.40	335	ePKP	04	10.50	-0.4				eSn	11	33.90	
	0.8s		45.50nm					0.9s		55.70nm				SKO	3.10	352	ePn	11	20.00	9.3X
BUL	127.53	232	iPKPc	03	33.00	-6.0X	LRG	145.60	335	ePKP	04	11.30	0.1		S.D. = 0.9		on 13 of 15 obs.			
NB2	129.10	345	PKP	03	40.40	-0.2		0.8s		37.60nm				----------						
	0.9s		13.60nm				LMR	145.64	335	ePKP	04	11.40	0.1	&	MAY 09, 1990 18h 49m 52.39s					
HFS	129.21	343	ePKP	03	40.00	-0.7		0.9s		52.40nm					58.344 N 142.725 W					
	0.8s		13.10nm				RJF	145.73	342	ePKP	04	11.50	0.1		DEPTH = 10.0km (geophysicist)					
SPC	134.95	330	ePKP	03	52.20	-0.1		1.1s		43.95nm					3.7mb (1 obs.)					
BRG	136.57	336	iPKP	03	55.20	0.2	CAF	145.90	341	ePKP	04	12.10	0.3		GULF OF ALASKA					(15)
	1.1s		10.00nm					0.9s		24.55nm					<AGS-P>.					
CLL	136.60	337	ePKP	03	55.00	-0.1	LFF	146.29	343	ePKP	04	12.70	0.4							
	0.9s		17.00nm					0.8s		28.20nm				YKU	1.97	51	iPd	50	21.90	-4.2
PRU	137.00	334	ePKP	03	55.50	-0.4	LPO	146.39	342	ePKP	04	12.80	0.3	YAH	2.09	13	iP	50	23.19	-4.9
			e	03	57.80			0.9s		36.05nm							eS	50	47.25	
ZST	137.15	331	e(PKP)	03	56.40	0.2	BCAO	147.90	257	iPKPd	04	15.30	-0.6	MID	2.17	302	iPc	50	20.00	-9.0
EKA	137.26	352	PKP	03	59.00	2.8X		0.4s		94.00nm				PCA	2.17	35	iP	50	24.06	-5.0
	0.9s		4.40nm							ic	04	18.90					eS	50	47.88	
WIT	137.50	343	ePKP	03	58.00	1.3				id	05	11.10		BCPM	2.27	43	eP	50	25.29	-5.2
KHC	138.06	334	PKP	03	58.50	0.5	ETER	147.95	338	ePKP	04	19.00	3.9X				eS	50	50.53	
			PP	07	14.50		EPF	148.15	342	ePKP	04	18.40	3.0X	HON	2.29	59	iP	50	25.43	-5.3
WTS	138.17	342	ePKP	03	58.00	0.0	ECRI	149.34	345	iPKPc	04	23.20	5.9X				eS	50	50.15	
	0.9s		17.00nm				EMON	149.47	352	iPKPc	04	22.60	5.1X	TGL	2.42	359	iP	50	27.38	-5.3
GRF	138.58	336	ePKP	03	59.00	0.2	EBR	150.09	340	ePKP	04	25.00	6.6X				eS	50	53.80	
			e	04	02.00		ESEL	150.11	335	ePKP	04	24.90	6.4X	BALM	2.71	4	iP	50	31.60	-5.3
FNA	139.40	319	ePKPd	03	58.80	-1.8X	EROO	150.12	340	ePKP	04	23.90	5.4X				eS	51	00.62	
ENN	139.52	342	ePKP	04	01.00	0.6	STS	150.15	354	ePKP	04	24.90	6.5X	MTU	3.03	305	eP	50	35.56	-5.6
	1.0s		22.00nm				ETOR	150.89	343	iPKPc	04	26.50	6.8X	VLZ	3.34	328	eP	50	39.53	-6.1
TOD	139.56	338	ePKP	04	00.76	0.2	GUD	151.59	346	iPKPc	04	28.70	7.8X	VZW	3.34	326	eP	50	39.73	-6.1

09d 18h

GLI	3.38	321	eP	50	39.99	-6.2
			eS	51	17.03	
KLU	3.54	334	eP	50	42.83	-5.8
HYT	3.64	45	Pc	50	45.00	-5.1
SEW	3.88	300	eP	50	46.82	-6.5
			eS	51	28.65	
TOA	4.15	337	iPc	50	52.20	-4.9
SIT	4.18	105	iPc	50	50.20	-7.3
NCA	4.19	333	eP	50	52.07	-5.8
SLKM	4.40	303	eP	50	54.24	-6.5
SML	4.47	323	eP	50	55.52	-6.2
PMS	4.51	313	eP	50	56.94	-5.4
CNPM	4.57	289	eP	50	57.90	-5.2
GHO	4.63	321	eP	50	58.66	-5.5
NNL	4.72	295	eP	50	59.49	-5.9
XLV	4.80	287	eP	51	00.17	-6.2
PAX	4.83	345	eP	51	01.75	-5.2
PWA	4.89	316	iPc	51	02.10	-5.5
SUA	5.11	311	eP	51	03.95	-6.9
KDC	5.22	268	eP	51	07.37	-5.0
RDT	5.42	298	eP	51	08.36	-6.9
SPU	5.51	305	eP	51	09.19	-7.3
CUT	5.53	321	eP	51	11.20	-5.5
RED	5.54	296	eP	51	09.43	-7.5
CRP	5.59	306	eP	51	11.28	-6.4
AUE	5.62	285	eP	51	13.27	-4.7
NCG	5.65	307	eP	51	11.76	-6.8
AUL	5.66	285	eP	51	13.72	-4.8
SKT	5.71	313	eP	51	12.71	-6.6
CDD	5.73	281	eP	51	14.92	-4.7
HUR	5.76	327	eP	51	14.61	-5.3
RND	5.89	332	eP	51	15.98	-5.9
MCNL	6.10	283	eP	51	19.67	-5.1
IMA	9.27	331	ePc	52	02.90	-6.2
SDN	10.19	260	ePc	52	16.60	-4.9
YKA	14.43	61	eP	53	21.10	2.7
	0.7s		1.40nm			3.7mb
	45 obs. associated					

? MAY 09, 1990 18h 50m 54.86± 6.70s
8.907 S ±63.5km 128.215 E ±13.7km
DEPTH = 197.9 ± 34.1 km
3.6mb (1 obs.)
TIMOR SEA (290)

MTN	4.85	144	eP	52	08.00	0.1
			eS	53	11.00	
KNA	6.82	176	eP	52	33.80	0.3
			eS	53	58.00	
WB5	12.43	152	eP	53	46.00	-0.3
			eS	56	06.00	
WRA	12 47	152	Pd	53	47.30	0.5
	0.3s		0.70nm			3.6mb
M8L	14.62	213	eP	54	13.00	-0.7
QIS	15.97	138	eP	54	30.00	-0.4
			eS	57	27.00	
NANU	18.24	220	eP	54	56.50	0.5
	S.D. = 0.7		on 7 of 7 obs.			

MAY 09, 1990 18h 55m 08.24± 0.22s
18.383 S ± 5.9km 174.088 W ± 5.9km
DEPTH = 99.1km (6 depth phases)
5.1mb (20 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 18:55:11.3 1.0
Lat 18.81S FIX;Lon 173.92W FIX
Dep 128.1 5.5 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 3.65 0.54 Mtt=-4.48 1.02
Mff= 0.83 0.79 Mrt= 2.11 0.65
Mrf= 5.20 0.56 Mtf=-1.81 0.81
Principal Axes:
T Val= 7.65 Plg=53 Azm=275
N -1.02 26 47
P -6.63 24 149
Best Double Couple:Mo=7.1*10**16
NP1:Strike=280 Dip=32 Slip= 148
NP2: 38 74 62

AFI	4.97	27	eP	56	15.00	-7.0X
			eS	57	02.00	
SVA	7.09	271	ePd	56	57.30	6.2X
VUN	7.09	272	eP	56	57.80	6.7X
RAR	13.76	104	P	58	18.00	-2.3
			S	00	41.00	
PVC	16.75	269	iP	59	04.50	6.3X
DZM	18.63	255	iPc	59	21.90	0.8
HBZ	20.27	198	eP	59	38.70	0.7
	0.5s		29.00nm			4.9mb
PUZ	20.73	197	eP	59	44.00	1.3
NOZ	21.30	197	eP	59	50.20	1.8
WLZ	21.39	203	P	59	51.90	2.6
TAZ	21.41	201	eP	59	51.20	1.7
NGZ	22.57	201	eP	00	01.20	0.1
PGZ	23.66	199	P	00	12.60	1.1
	0.6s		59.00nm			5.2mb
MNG	23.91	200	eP	00	12.60	-1.3
PMO	25.30	86	iP	00	25.60	-1.6
	1.1s		60.00nm			5.0mb
VAH	25.51	87	iP	00	26.70	-2.5
	1.1s		35.00nm			4.8mb
TPT	25.57	86	iP	00	27.80	-1.9
	1.1s		55.00nm			5.0mb
RUV	25.75	87	iP	00	29.40	-2.0
	1.1s		60.00nm			5.0mb
THZ	25.82	203	P	00	32.00	0.1
KHZ	26.17	201	P	00	34.60	-0.4
LTZ	26.94	203	eP	00	40.50	-1.6
MSZ	30.23	206	P	01	11.00	-0.5
BRS	31.74	248	iPc	01	24.00	-1.0
	1.0s		5.50nm			4.2mb
			i	01	30.00	21kmX
COO	33.13	242	iPc	01	36.60	-0.5
RMQ	35.18	250	iPd	01	54.20	-0.5
CAN	36.75	235	eP	02	06.80	-1.0
			e	04	30.20	
BWA	36.95	237	eP	02	06.20	-3.3X
CTA	37.42	261	iPc	02	11.90	-1.7
	0.8s		99.25nm			5.8mb
CMS	38.41	242	iPd	02	20.70	-1.0
PMG	38.60	278	eP	02	23.00	-0.5
OLP	39.23	250	iPc	02	27.50	-1.1
TOO	40.12	233	eP	02	35.00	-0.8
QIS	43.60	259	eP	03	02.00	-2.5
WB5	48.57	259	iPc	03	41.30	-2.4
WRA	48.58	259	Pd	03	41.80	-2.0
	0.5s		39.70nm			5.6mb
MTN	52.89	268	eP	04	13.00	-3.5X
FORR	53.49	245	eP	04	18.00	-2.6
KNA	54.51	263	iPc	04	26.10	-2.2
	0.5s		47.00nm			5.8mb
WARB	55.00	251	eP	04	30.00	-1.9
	0.4s		6.00nm			5.0mb
SBA	60.24	185	eP	05	10.20	2.4
MBL	61.84	255	iPd	05	17.40	-2.1
MUN	63.57	243	eP	05	29.00	-1.8
NANU	65.53	253	iPc	05	42.30	-1.2
	0.4s		16.00nm			5.3mb
MAT	70.80	321	iPc	06	14.30	-1.7
	1.1s		16.46nm			4.8mb
SPA	71.73	180	iPc	06	22.30	0.9
	1.0s		25.50nm			5.0mb
			i	06	48.30	101km
CMB	75.43	41	eP	06	42.20	-0.9
			e	07	07.80	99km
ORV	75.69	39	e(P)	06	45.00	0.5
KVN	77.47	41	iP	06	54.60	0.0
			pP	07	20.00	97km
MDJ	80.99	323	Pc	07	13.50	0.3
PMS	81.76	12	iPd	07	16.70	-0.2
	1.0s		2.30nm			4.0mb X
TTA	82.28	8	iPc	07	19.50	-0.2
CN2	82.95	321	Pc	07	23.50	0.1
SNY	83.03	318	eP	07	22.00	-1.8
TIA	84.63	311	eP	07	32.10	0.0
MAW	84.77	199	eP	07	33.00	0.8
FBA	85.43	11	iPc	07	34.60	-0.8
IMA	85.59	8	iPc	07	36.20	-0.2
	1.2s		11.70nm			4.7mb
IPM	86.59	276	ePd	07	44.60	2.4
	0.9s		35.20nm			5.4mb
BJI	87.04	314	eP	07	44.50	0.7
	2.0s		78.00nm			5.4mb
SNG	87.80	278	eP	07	49.80	1.8
SES	88.01	35	eP	07	48.00	-0.3
			pP	08	13.00	93km
TIY	88.67	310	iPc	07	52.30	0.5
GYA	88.86	298	P	07	54.60	1.6
XAN	89.84	306	P	07	58.00	0.7
HHC	90.57	313	Pc	08	01.60	1.0
INK	91.31	14	eP	08	03.00	-0.3
			pP	08	29.00	97km
BTO	91.55	312	eP	08	05.00	-0.1
KMI	91.72	296	Pc	08	08.00	1.6
CHG	93.03	289	eP	08	13.60	1.3
CHTO	93.03	289	eP	08	13.60	1.4
	1.0s		10.50nm			5.1mb
			pP	08	42.20	108km
YKA	93.08	24	eP	08	10.50	-1.0
	1.0s		1.90nm			4.4mb
LZH	94.45	306	eP	08	19.50	0.8
	2.0s		33.00nm			5.4mb
QUE	123.71	294	ePKP	13	57.10	0.5
SUF	133.53	347	ePKP	14	12.00	-2.1X
NUR	135.84	347	iPKP	14	18.00	-0.5
NB2	137.22	356	PKP	14	20.40	-0.8
	0.7s		2.20nm			
HFS	137.93	354	ePKP	14	11.90	-10.6X
	0.6s		2.30nm			
EKA	142.47	9	PKP	14	28.00	-2.8X
	0.8s		2.00nm			
NAI	143.88	241	iPKPd	14	35.50	0.8
	1.0s		20.00nm			
WIT	145.64	359	ePKP	14	37.00	0.8
WTS	146.45	359	ePKPc	14	38.50	0.9
	0.7s		59.00nm			
KRA	146.46	344	ePKP	14	38.80	1.1
KSP	146.57	348	iPKPc	14	39.70	1.8
	0.7s		53.00nm			
			i	15	06.00	
CLL	146.67	352	iPKPc	14	39.80	1.8
	1.7s		98.00nm			
			ipP	15	05.40	
BRG	146.96	351	iPKPc	14	40.40	1.9
	1.6s		56.00nm			
			i	15	09.60	
KAS	146.96	320	ePKP	14	42.00	3.1X
SPC	147.16	343	ePKP	14	40.10	1.0
MOX	147.49	353	ePKP	14	42.00	2.6X
	1.6s		31.00nm			
VRI	147.61	332	ePKPd	14	44.00	4.3X
PRU	147.72	350	ePKP	14	42.50	2.8X
			e	15	09.50	
HOF	147.79	353	iPKPc	14	42.80	2.9X
MEM	147.85	360	PKP	14	43.10	3.3X
TNS	148.17	357	ePKPd	14	44.10	3.6X
MLR	148.25	333	ePKP	14	52.00	11.1X
SHBJ	148.34	302	PKPd	14	45.00	3.6X
DOU	148.34	2	PKPc	14	44.30	3.6X
			e	15	12.90	
BBTK	148.47	318	ePKP	14	46.00	4.6X
GRF	148.48	353	ePKPc	14	45.30	4.3X
			e(pPKP	15	13.90	
ABH	148.55	358	ePKP	14	45.10	4.0X
KHC	148.71	350	iPKPc	14	45.50	4.1X
			e	15	14.80	
RUP	148.74	359	ePKP	14	45.76	4.3X
TOD	148.77	356	ePKP	14	45.61	4.2X
WET	148.80	351	ePKP	14	45.90	4.4X
CMP	148.82	333	ePKPc	14	52.00	10.3X
ZST	148.90	345	e(PKP)	14	42.90	1.3
			i	14	46.80	
			i	14	50.30	
			e	15	23.90	
			e	15	28.60	
SRO	148.95	344	iPKP	14	46.30	4.6X
VKA	149.01	346	ePKP	14	45.00	3.1X
	0.9s		23.10nm			
			i	14	50.50	
			i	15	16.30	
			i	15	19.20	
KTD	149.09	357	ePKP	14	46.38	4.4X
FLN	149.26	8	ePKP	14	42.00	-0.2
	0.9s		9.85nm			
CSTJ	149.43	300	PKPc	14	47.60	4.5X
HRI	149.46	305	ePKP	14	49.00	5.8X
LDF	149.47	8	ePKP	14	42.40	-0.1
	0.8s		6.70nm			
SOP	149.51	346	ePKP	14	42.70	0.1
GRR	149.57	9	ePKP	14	42.70	0.1
MDSJ	149.62	302	PKPc	14	47.90	4.5X
BURJ	149.78	303	PKPc	14	48.10	4.5X
BZS	149.87	338	ePKP	14	44.00	0.8
LPF	149.89	9	ePKP	14	43.30	0.2
SALJ	149.95	303	PKPc	14	48.70	4.8X
FUR	149.97	353	iPKPc	14	48.80	5.5X
	1.0s		45.00nm			

09d 19h

KFNJ	150.01	302	PKPc	14	48.30	4.5X
BHG	150.19	351	iPKPc	14	49.10	5.5X
	1.0s	20.00nm				
DSI	150.34	302	ePKP	14	46.00	1.7
FEL	150.53	357	ePKP	14	49.80	5.5X
SOTA	150.91	353	ePKP	14	45.00	0.1
	0.9s	23.10nm				
			i	14	50.50	
			i	15	16.30	
			i	15	19.20	
PRNI	151.04	300	ePKP	14	52.00	6.5X
LOR	151.14	3	ePKP	14	45.30	0.2
	0.9s	6.55nm				
FVI	151.30	350	PKP	14	50.70	5.4X
MBH	151.31	299	iPKPc	14	52.50	6.7X
PTJ	151.32	345	ePKP	14	45.10	-0.4
SSF	151.33	3	ePKP	14	45.70	0.3
	1.0s	7.00nm				
KHL	151.40	319	ePKP	14	52.00	6.1X
MFF	151.42	9	ePKP	14	45.60	0.1
LBF	151.43	3	ePKP	14	45.90	0.3
	1.0s	6.00nm				
LJU	151.51	347	e(PKP)	14	46.00	0.3
			e	14	52.00	
VOY	151.65	348	ePKP	14	46.20	0.2
			e	14	51.70	
SMF	151.76	3	ePKP	14	46.40	0.4
	0.7s	2.75nm				
CEY	151.82	347	e(PKP)	14	52.60	6.4X
VBY	151.86	346	iPKPc	14	53.50	7.3X
LSF	151.97	6	ePKP	14	46.40	0.0
TCF	152.00	5	ePKP	14	46.70	0.3
	1.0s	5.00nm				
ELL	152.07	316	ePKP	14	53.50	6.5X
MAF	152.10	5	ePKP	14	47.20	0.7
VAI	152.49	356	PKPc	14	54.10	7.1X
SKO	153.02	334	ePKP	14	47.60	-0.3
			i	14	55.40	
			i	15	07.00	
CAF	153.34	6	ePKP	14	49.00	0.7
BNI	153.40	359	PKP	14	50.50	1.9
FNA	154.02	332	ePKP	14	56.80	7.3X
EPF	154.98	10	ePKP	14	51.50	0.9
	0.9s	4.10nm				
BCAO	161.44	223	iPKPd	14	59.40	0.4
	0.5s	3.00nm				
			id	15	44.20	

S.D. = 1.3 on 102 of 150 obs.

& MAY 09, 1990 19h 44m 08.47s
60.204 N 152.883 W
DEPTH = 108.2km
SOUTHERN ALASKA (2)
<AGS-P>.

RED	0.22	14	iP	44	23.15	0.7
			eS	44	35.30	
RDT	0.44	32	iP	44	24.27	-0.8
			eS	44	36.70	
NNL	0.81	101	iP	44	28.19	0.3
AUL	0.87	199	iP	44	27.57	-0.9
NKA	0.98	56	eP	44	30.70	1.2
SPU	1.06	22	iP	44	30.11	-0.4
CNPM	1.07	129	iP	44	30.00	-0.6
			iS	44	46.35	
CRP	1.13	18	eP	44	28.35	-3.0
			iS	44	48.61	
NCG	1.26	16	eP	44	32.77	0.0
MCNL	1.26	216	eP	44	30.88	-1.8
CDD	1.34	197	iP	44	31.80	-1.8
SLKM	1.36	76	eP	44	33.14	-0.7
SUA	1.64	39	eP	44	37.26	-0.2
SEW	1.72	92	eP	44	37.45	-0.8
SKT	1.90	20	iP	44	40.51	-0.1
PMS	1.94	56	iP	44	40.63	-0.5
GHO	2.49	49	eP	44	46.77	-1.6
CUT	2.54	29	eP	44	48.77	-0.2
MTU	2.63	92	eP	44	49.34	-0.8
SML	2.74	52	iP	44	49.94	-1.7
GLI	2.94	74	eP	44	51.01	-3.3
VZW	3.23	72	iP	44	55.92	-2.4
VLZ	3.36	71	eP	44	57.38	-2.5
MID	3.40	100	iP	44	59.41	-1.1
NCA	3.45	56	eP	44	59.35	-1.9
KLU	3.64	66	iP	45	01.42	-2.5

26 obs. ossocioted

MAY 09, 1990 19h 46m 43.11± 0.30s
2.813 S ± 4.6km 119.729 E ± 6.5km
DEPTH = 33.0km (normol)
5.5mb (23 obs.) 4.6Msz (11 obs.)
SULAWESI (268)
CENTROID, MOMENT TENSOR (HRV)
Dotc Used: GDSN
L.P.B.: 12S, 26C
Centroid Locotion:
Origin Time 19:46:42.8 0.5
Lot 2.84S FIX;Lon 119.57E FIX
Dep 15.0 FIX Holf-duration 1.7
Moment Tensor; Scole 10**16 Nm
Mrr=-2.59 0.60 Mtt= 0.62 0.46
Mff= 1.97 0.82 Mrt= 0.21 1.11
Mrf=-4.14 1.28 Mtf= 6.80 0.54
Principol Axes:
T Vol= 8.91 Plg=15 Azm=129
N -1.40 52 19
P -7.51 34 229
Best Double Couple:Mo=8.2*10**16
NP1:Strike=264 Dip=55 Slip= -15
NP2: 3 78 -144

TSM	7.18	347	ePc	48	28.80	0.3
	1.0s	938.30nm			6.7mb	X
KKM	9.47	338	ePd	49	00.00	-0.5
	0.9s	94.80nm			6.0mb	
			e	50	46.50	
DAV	11.43	31	eP	49	30.00	2.8
PPR	12.55	355	ePd	49	42.00	-0.2
MTN	15.05	132	eP	50	13.00	-2.2
			e	50	25.00	
PGP	16.25	4	eP	50	34.50	3.8X
	0.8s	73.00nm			4.9mb	
KGM	17.09	286	eP	50	44.00	2.7
MBL	18.24	180	iPd	50	55.40	-0.1
	1.0s	76.00nm			4.8mb	
NANU	20.05	191	eP	51	17.10	0.6
IPM	20.08	291	ePc	51	17.20	0.4
	1.5s	377.70nm			5.5mb	
CVP	20.49	6	iP	51	22.00	0.9
	1.8s	416.00nm			5.5mb	
PIP	21.02	2	eP	51	26.50	0.0
SNG	21.50	298	eP	51	31.10	-0.3
	1.2s	253.13nm			5.5mb	
			eS	55	38.70	
WRA	22.21	141	Pd	51	38.00	-0.5
	1.8s	370.00nm			5.5mb	
QIZ	23.78	336	P	51	55.00	1.2
	N 16s	2.20um				
			eS	56	05.50	
			SS	56	56.00	
WARB	24.17	165	eP	51	58.00	0.5
	0.8s	26.00nm			4.8mb	
HKC	25.55	348	eP	52	12.00	1.3
OIS	26.20	134	eP	52	16.00	-0.8
			i	55	45.00	
GZH	26.48	347	eP	52	19.00	-0.3
	E 11s	0.66um				
			eS	56	55.00	
LOE	26.81	319	eP	52	22.00	-0.4
QZH	27.61	358	eP	52	28.00	-1.6
CHG	29.67	317	ePc	52	48.30	0.0
	1.3s	72.12nm			5.3mb	
CHTO	29.67	317	eP	52	48.20	-0.1
GUMO	29.79	56	eP	52	51.40	2.0
PJG	29.79	56	eP	52	51.10	1.7
GYA	31.72	337	iPc	53	06.80	0.4
	Z 20s	0.90um			4.4Msz	
	N 15s	1.00um				
	E 15s	0.70um				
			PP	54	09.00	
KMI	32.29	330	Pc	53	13.00	1.4
	3.0s	500.00nm			5.9mb	
	Z 16s	1.50um			4.8MszX	
	N 13s	0.50um				
	E 13s	0.60um				
WHN	33.56	352	ePc	53	23.50	1.3
	3.0s	900.00nm			6.2mb	
	Z 20s	1.30um			4.6Msz	
	N 14s	0.80um				
	E 11s	0.20um				
			eS	58	48.00	
SSE	33.75	2	eP	53	24.00	0.2
	Z 20s	0.70um			4.4Msz	
	N 12s	0.40um				

NJ2	34.68	359	Pc	53	32.00	0.1
	3.0s	400.00nm			5.8mb	
	Z 20s	0.60um			4.3Msz	
			pP	53	37.80	20kmX
			ePP	54	50.00	
			S	59	04.00	
RMO	36.45	133	eP	53	48.00	1.0
CD2	36.83	337	P	53	50.00	-0.2
	1.6s	200.00nm			5.7mb	
	Z 20s	0.60um			4.4Msz	
			PP	55	17.00	
			S	59	38.00	
XAN	38.04	345	P	54	00.00	-0.3
	N 13s	0.60um				
TIA	38.90	357	eP	54	06.70	-0.7
	1.8s	100.00nm			5.3mb	
			eS	00	00.00	
BRS	39.94	131	iPc	54	21.00	4.8X
			e(PP)	55	42.00	
TIY	40.88	351	Pc	54	23.50	-0.4
	Z 21s	1.40um			4.8Msz	
	N 15s	1.10um				
			sP	54	32.50	
			PP	56	07.00	
			S	00	29.50	
COO	41.07	136	eP	54	29.00	3.5X
BWA	41.26	143	eP	54	30.30	3.3X
LZH	41.45	340	Pc	54	28.00	-0.6
	4.0s	590.00nm			5.7mb	X
			pP	54	38.00	34kmX
			PP	56	05.00	
CAN	42.22	143	eP	54	35.20	0.3
LSA	42.34	322	Pc	54	36.90	0.5
BJI	42.77	356	eP	54	38.00	-1.2
	1.0s	54.00nm			5.2mb	
	Z 24s	0.64um			4.4MszX	
	N 15s	0.61um				
			eS	01	00.00	
MAT	42.78	22	(P)	54	32.00	-7.3X
	2.0s	70.59nm			5.0mb	
	Z 20s	0.71um			4.6Msz	
			(S)	00	56.00	
HHC	44.09	351	eP	54	50.00	0.0
	Z 24s	1.40um			4.8MszX	
BTO	44.11	349	P	54	48.00	-2.2
	N 13s	0.50um				
	E 13s	0.60um				
			PP	56	35.00	
			S	01	26.00	
SNY	44.57	4	Pc	54	51.50	-2.2
	Z 22s	0.90um			4.6Msz	
	N 24s	1.00um				
			S	01	22.00	
			SS	04	42.00	
GUN	44.65	315	P	54	55.40	0.3
GBA	45.01	292	Pd	54	57.40	-0.3
	1.1s	40.80nm			5.2mb	
HYB	45.31	298	eP	54	59.50	-0.6
	1.6s	400.00nm			6.1mb	
GTA	45.84	338	iPc	55	04.80	0.7
	1.8s	500.00nm			6.1mb	
	Z 20s	1.20um			4.8Msz	
	E 14s	0.70um				
			S	01	50.00	
CN2	46.69	6	eP	55	09.50	-1.0
	Z 20s	2.00um			5.1Msz	
	N 20s	1.20um				
			eS	02	00.00	
MDJ	48.03	9	Pc	55	20.00	-1.1
	Z 25s	1.10um			4.7MszX	
			eS	02	20.00	
NDI	51.42	311	iPc	55	45.00	-2.3
	1.1s	37.97nm			5.3mb	
			eS	03	08.00	
WMQ	54.60	332	iPc	56	10.50	-0.3
	1.5s	100.00nm			5.6mb	
	Z 20s	0.70um			4.7Msz	
	N 12s	0.40um				
			pP	56	20.50	33kmX
			PP	58	16.00	
			S	03	49.00	
			ScS	05	47.00	
KSH	58.15	321	P	56	37.20	0.9
	4.0s	1100.00nm			6.3mb	X
			S	04	39.00	
QUE	60.08	307	eP	56	48.00	-2.0
MAIO	68.17	311	iPd	57	42.70	0.1

```
MAW     75.27 199 iPc    58 26.00    1.7
        1.0s     61.00nm          5.6mb
SPA     87.21 180 eP     59 28.20    0.9
        1.6s     52.78nm          5.5mb
BUL     90.09 250 iPc    59 36.00   -5.9X
SLR     90.10 244 eP     59 35.00   -6.8X
KSR     91.34 244 eP     59 47.50   -0.1
INK     98.76  21 eP     00 19.00   -1.3
VAI    106.53 317 PKP    05 22.30   15.9X
LKO    125.28 280 PKP    05 43.96    0.7
        0.9s     25.00nm
ALQ    126.57  48 ePKP   05 46.00    0.5
LPB    159.28 158 PKP    06 40.00   -0.6
ZOBO   159.51 158 PKP    06 44.00    2.9X
        1.1s     13.63nm
                   LR     01 06.00
SIV    161.30 178 PKP    06 41.00   -1.2
                   i      07 28.00
      S.D. = 1.1  on  60 of  69 obs.
-------------------------------------
   MAY 09, 1990  20h 27m 32.33± 0.70s
   40.620 N ± 8.4km   15.871 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                 (390)

SGO     0.43 262 P       27 40.60   -0.5
                 eSg     27 47.70
MGR     0.54 207 Pc      27 42.50   -0.7
                 eSg     27 52.00
ORI     0.71 141 P       27 46.40    0.1
                 eSg     27 59.00
BSS     0.83 282 Pc      27 49.10    0.8
                 eSg     27 59.70
BAI     0.91  56 P       27 48.50   -1.1
TDS     1.02 159 P       27 54.50    2.8X
BRT     1.04  75 Pc      27 51.20   -0.8
                 eSg     28 06.90
LCI     1.61 100 P       28 03.00    2.1
SDI     1.89 306 P       28 05.40    0.4
HVAR    2.59   9 e(Pn)   28 20.80    5.8X
OHR     3.77  81 ePn     28 36.50    4.7X
VOY     5.60 346 e(Pn)   29 55.80   58.1X
                 eSg     30 40.90
      S.D. = 1.3  on   8 of  12 obs.
-------------------------------------
% MAY 09, 1990  20h 33m 53.79± 0.80s
   40.703 N ± 8.3km   15.817 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                 (390)

SGO     0.41 250 P       34 02.30    0.1
                 eSg     34 09.40
MGR     0 60 200 Pc      34 04.40   -1.5
                 eSg     34 13.00
BSS     0.77 277 P       34 09.30    0.4
                 eSg     34 20.30
ORI     0.80 143 P       34 10.10    0.7
                 eSg     34 20.50
BAI     0.90  62 P       34 11.00    0.0
                 eSg     34 24.00
BRT     1.07  80 Pd      34 13.20   -0.7
                 eSg     34 28.50
TDS     1.12 159 P       34 15.50    0.8
      S.D. = 1.0  on   7 of   7 obs.
-------------------------------------
% MAY 09, 1990  20h 39m 40.41± 2.03s
   39.675 N ±17.2km   16.769 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                 (390)

TDS     0.33 267 Pd      39 46.60   -0.7
                 eSg     39 53.20
ORI     0.46 328 Pc      39 49.40   -0.4
                 eSg     39 58.30
MGR     1.04 297 P       40 00.90    0.8
LCI     1.12  54 P       40 01.40    0.0
BRT     1.25  15 P       40 02.20   -1.4
                 eSg     40 20.10
BAI     1.44   3 P       40 08.00    1.4
      S.D. = 1.3  on   6 of   6 obs.
-------------------------------------
* MAY 09, 1990  20h 54m 59.10± 1.12s
   36.550 N ±13.6km   27.293 E ± 8.2km
   DEPTH =   5.0km  (geophysicist)
 DODECANESE ISLANDS             (369)

YER     0.99  53 ePn     55 18.20   -0.1
SMG     1.21 343 ePn     55 23.00    0.9
CIN     1.23  31 eP      55 25.00    2.7X
APE     1.51 291 ePb     55 25.30   -1.5
IZM     1.85 359 ePn     55 39.00    7.3X
ELL     2.11  84 ePn     55 35.50   -0.2
KHL     2.51  44 ePn     55 44.00    2.7X
VAM     2.76 246 ePn     55 45.70    0.9
BCK     2.79  70 ePn     55 48.00    2.7X
VLI     3.51 274 ePn     55 50.00   -5.4X
      S.D. = 1.4  on   5 of  10 obs.
-------------------------------------
   MAY 09, 1990  21h 40m 22.77± 0.76s
   36.110 N ± 7.7km   27.078 E ± 5.2km
   DEPTH =  23.9 ±  6.3 km
   4.1mb (  2 obs.)
 DODECANESE ISLANDS             (369)
      ML 4.0 (ATH).

YER     1.41  43 iPn     40 46.50   -0.6
APE     1.57 308 ePb     40 50.00    0.6
SMG     1.61 353 ePg     40 49.00   -0.9
CIN     1.69  28 eP      40 51.00   -0.1
KSL     2.03  89 ePn     40 57.20    1.2
                 eSn     41 24.50
IZM     2.29   4 iPn     41 03.80    4.0X
ELL     2.37  74 iPn     41 03.00    2.0X
VAM     2.44 254 ePn     41 07.00    5.0X
KHL     2.95  41 ePn     41 09.00   -0.1
BCK     3.12  63 ePn     41 13.50    1.8
ATH     3.27 306 ePg     41 25.00   11.4X
VLI     3.39 282 ePn     41 15.70    0.3
EZN     3.76 351 ePn     41 20.70    0.2
ALT     3.80  38 ePn     41 21.30    0.0
ITM     4.28 286 ePn     41 32.00    4.0X
NEO     4.42 317 ePn     41 30.00    0.0
PPCY    4.47 104 eP      41 31.00    0.3
YLV     4.80  21 ePn     41 43.00    7.5X
CSS     5.23 101 eP      41 40.80   -0.6
LFK     5.32  97 ePn     41 43.60    0.8
BBTK    5.83  49 eP      41 51.00    0.9
OHR     7.01 317 e(P)    42 11.00    4.5X
HRI     7.68 109 eP      42 14.00   -2.0
                 eS      43 35.00
DSI     8.26 121 eP      42 19.00   -4.9X
MBH     9.10 132 eP      42 34.00   -1.7
KHC    16.34 327 P       44 11.50   -0.6
HFS    25.54 344 eP      45 49.90   -1.1
        0.5s     1.20nm          3.8mb
BCAO   32.49 196 ePc     46 55.40    1.7
        0.4s     2.00nm          4.4mb
      S.D. = 1.1  on  20 of  28 obs.
-------------------------------------
   MAY 09, 1990  22h 38m 19.07± 0.36s
   61.979 S ± 6.2km  161.434 E ±10.8km
   DEPTH =  10.0km  (geophysicist)
   5.0mb (  5 obs.)  5.7Msz (  3 obs.)
 BALLENY ISLANDS REGION         (702)
      CENTROID, MOMENT TENSOR   (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 32C
      Centroid Location:
      Origin Time        22:38:30.8 0.4
      Lat 61.84S 0.05 Lon 160.51E 0.08
      Dep  15.0 FIX Half-duration  2.9
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.20 0.13  Mtt= 4.66 0.16
        Mff=-4.86 0.17  Mrt= 1.40 0.39
        Mrf=-1.22 0.46  Mtf=-1.81 0.14
       Principal Axes:
        T  Val=  5.48  Plg=17  Azm= 12
        N       -0.12      70      159
        P       -5.36      10      279
      Best Double Couple:Mo=5.4*10**17
       NP1:Strike= 55 Dip=71 Slip= 175
       NP2:       146     85      19

MCQ     7.61 349 iPd     40 04.10   -8.5X
                 eS      40 07.00
DRV    10.38 234 eP      40 51.80    0.9
SBA    16.04 176 iPc     42 06.00    0.1
                 S       45 23.20
MHZ    17.56  19 P       42 25.60    0.4
MMCZ   17.59  18 P       42 26.40    0.7
MSZ    17.75  15 P       42 28.40    0.9
WEL    22.23  27 P       43 16.00   -1.0
                 S       47 28.00
SPA    28.18 180 iPc     44 12.60   -0.8
       1.0s     13.50nm          4.7mb
     Z 20s      18.24um          5.7Msz
MAW    38.07 218 iP      45 42.20    3.4X
     Z 16s      19.00um          6.0MszX
                   e     57 45.00
CTA    43.17 339 iPc     46 21.00   -0.3
       1.2s     70.31nm          5.3mb
                   iS    52 52.00
                   iSS   56 00.00
WRA    46.02 323 P       46 44.00   -0.2
       1.3s     20.00nm          4.9mb
WB5    46.07 324 eP      46 43.00   -1.6
AIA    48.65 156 eP      47 04.70    0.4
SNG    83.16 299 eP      50 45.00   -1.3
SLR    84.88 221 eP      50 51.00   -4.2X
LPB    92.56 133 P       51 32.00   -0.2
     Z 24s      2.71um           5.6MszX
                   LR    21 52.00
ZOBO   92.80 133 P       51 33.00   -0.5
       1.5s     18.82nm          5.3mb
                   LR    22 00.00
CHG    94.35 303 eP      51 41.00    1.3
CHTO   94.35 303 eP      51 39.10   -0.6
       0.9s     2.56nm           4.6mb
SIV    95.37 139 P       51 44.00   -0.7
BW06  126.19  66 ePKP    57 21.20   -1.5
MAIO  126.76 279 ePKP    57 26.00    2.3X
LRM   127.42  61 ePKP    57 27.40    2.5X
RSSD  129.67  69 ePKP    57 26.80   -2.4X
FVM   131.03  84 ePKP    57 40.00    8.3X
SES   131.62  59 ePKP    57 34.00    1.5
TAB   134.38 270 ePKP    57 51.00   12.8X
INK   138.09  30 ePKP    57 47.00    2.9X
YKA   139.25  45 ePKP    57 38.10   -8.3X
       0.8s     0.80nm
IZM   143.49 251 ePKP    57 52.80   -1.9
RSNY  143.63  92 ePKP    58 04.30    9.6X
HRT   144.36 256 ePKP    57 53.00   -3.1X
MBC   146.58  25 ePKP    57 59.00    0.3
       1.0s     19.00nm
VAY   147.96 249 ePKP    58 02.00    0.1
TIO   148.07 199 iPKP    58 10.00    7.4X
                   i     58 20.50
CFR   148.45 260 ePKP    58 04.00    1.5
OHR   148.57 247 ePKP    58 05.00    2.0X
       1.5s     89.00nm
                   e     58 16.50
SKO   148.99 249 ePKP    58 05.00    1.4
       2.0s    181.00nm
                   i     58 18.50
                   i     58 22.50
VRI   149.63 259 ePKPc   58 07.50    3.1X
MLR   149.70 258 ePKPd   58 20.00   15.3X
CLI   149.87 261 ePKP    58 20.00   15.2X
CMP   149.95 257 ePKPc   58 12.00    7.1X
TNR   150.59 256 ePKPd   58 16.00   10.1X
BEO   151.68 251 ePKP    58 14.00    6.5X
SPC   155.05 257 e(PKP)  58 24.00   11.7X
LJU   155.23 245 e(PKP)  58 16.50    4.1X
KRA   155.80 258 ePKP    58 14.00    1.0
KHC   158.02 249 ePKP    58 19.30    3.4X
     Z 19s      1.60um           5.9Msz
     N 19s      0.80um
     E 18s      1.20um
                   e     58 50.50
KSP   158.02 256 e(PKP)  58 13.00   -2.8X
                   e     58 55.00
PRU   158.21 252 ePKP    58 25.00    9.0X
                   e     58 50.50
BRG   159.11 253 e(PKP)  58 35.00   18.0X
     Z 20s      1.00um           5.7Msz
     N 20s      1.50um
     E 20s      1.00um
                   e     59 12.00
DOU   162.54 238 PKP     58 15.00   -5.5X
                   e     59 25.70
      S.D. = 1.1  on  25 of  52 obs.
-------------------------------------
   MAY 09, 1990  23h 06m 40.45± 0.71s
   36.375 N ±10.5km   27.229 E ± 5.0km
   DEPTH =  33.0km  (normol)
 DODECANESE ISLANDS             (369)
      ML 4.0 (ATH).

YER     1.14  48 iPn     07 00.00   -0.1
SMG     1.37 347 ePn     07 03.00   -0.4
APE     1.53 297 ePn     07 06.00    0.2
```

09d 23h

KSL	1.92	97	ePn	07	10.50	-0.9
IZM	2.02	1	ePn	07	18.80	5.9X
ELL	2.19	79	iPn	07	15.70	0.4
VAM	2.64	249	ePn	07	22.50	0.8
KHL	2.67	43	ePn	07	23.00	0.9
BCK	2.90	67	ePn	07	25.50	0.1
ATH	3.23	301	ePb	07	37.30	7.4X
VLI	3.47	277	ePn	07	30.00	-3.5X
ITM	4.33	282	ePn	07	44.80	-0.9

S.D. = 0.8 an 9 of 12 abs.

& MAY 09, 1990 23h 17m 40.38s
60.550 N 151.089 W
DEPTH = 14.8km
3.0mb (1 obs.)
KENAI PENINSULA, ALASKA (14)
<AGS-P>. ML 3.7 (PMR). Felt (II) at Kenai.

NKA	0.21	339	iP	17	47.17	1.9
SLKM	0.43	95	iP	17	48.69	-0.5
			eS	17	54.91	
NNL	0.52	192	iP	17	51.76	1.1
RDT	0.65	273	iP	17	52.56	-0.4
SPU	0.79	324	iP	17	54.69	-0.7
BRLK	0.80	173	eP	17	54.87	-0.5
			iS	18	05.44	
RED	0.84	262	iP	17	55.54	-0.7
CRP	0.89	325	iP	17	56.64	-0.4
SEW	0.93	118	eP	17	56.71	-1.0
			eS	18	09.25	
SUA	0.93	10	eP	17	56.93	-0.9
			eS	18	10.90	
NCG	1.00	329	iP	17	58.28	-0.7
			eS	18	11.21	
PMS	1.02	46	iPc	17	57.60	-1.7
CNPM	1.03	184	iP	17	58.59	-0.8
			eS	18	12.01	
XLV	1.14	196	eP	17	59.84	-1.5
PWA	1.25	27	iPc	18	02.00	-1.1
PLRM	1.41	41	eP	18	03.77	-1.7
PMR	1.41	41	iPc	18	04.00	-1.5
SKT	1.45	352	iP	18	05.49	-0.6
GHO	1.61	40	eP	18	07.35	-1.1
AUE	1.66	225	eP	18	08.54	-0.4
AUL	1.66	226	eP	18	08.63	-0.5
			eS	18	30.37	
SML	1.84	45	iP	18	11.12	-0.6
CUT	1.90	12	eP	18	12.64	0.1
GLI	1.99	79	iP	18	12.61	-1.3
CDD	2.08	220	iP	18	14.68	-0.4
MCNL	2.14	232	eP	18	15.07	-0.9
VZW	2.28	75	iP	18	17.17	-0.9
SVW	2.29	286	iPd	18	16.70	-1.5
VLZ	2.40	74	eP	18	18.91	-0.8
NCA	2.52	53	eP	18	21.41	0.0
HUR	2.53	15	eP	18	22.85	1.2
KLU	2.69	67	iP	18	23.43	-0.5
TOA	2.84	55	iPc	18	26.30	0.3
KDC	2.90	195	iPd	18	26.30	-0.5
KTH	3.02	1	eP	18	29.11	0.6
RND	3.05	19	eP	18	29.96	0.9
TTA	3.34	318	iPd	18	32.20	-1.0
PAX	3.61	45	eP	18	37.11	0.1
GLB	3.66	73	eP	18	36.25	-1.4
TGL	4.07	84	eP	18	41.10	-2.4
WRH	4.17	18	eP	18	45.29	0.4
BALM	4.31	80	eP	18	43.90	-3.1
CCB	4.38	19	eP	18	46.27	-1.6
IMA	5.66	349	ePc	19	04.30	-1.8
YKA	17.36	68	eP	21	42.00	-1.2
	0.6s		0.70nm			3.0mb

45 obs. associated

& MAY 10, 1990 00h 16m 38.21s
58.183 N 142.557 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AGS-P>.

YAH	2.23	10	iP	17	10.70	-5.2
			eS	17	37.79	
PCA	2.26	31	iP	17	11.09	-5.1
HQN	2.30	55	eP	17	11.52	-5.2
			eS	17	37.31	
BCPM	2.33	39	eP	17	12.23	-5.0

4 obs. associated

---

* MAY 10, 1990 00h 21m 21.98± 1.24s
36.182 N ±15.9km 27.138 E ± 7.0km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 3.9 (ATH).

YER	1.32	44	ePn	21	45.70	-0.8
SMG	1.54	351	ePb	21	49.50	0.0
APE	1.57	305	ePn	21	51.00	1.1
KSL	1.98	91	ePn	21	55.70	-0.2
ELL	2.30	75	ePn	22	01.50	0.8
VAM	2.51	253	ePn	22	08.00	4.5X
BCK	3.05	64	ePn	22	15.00	3.8X
ATH	3.27	304	ePb	22	22.60	8.4X
VLI	3.43	280	ePn	22	15.60	-0.9

S.D. = 1.0 on 6 of 9 obs.

& MAY 10, 1990 00h 42m 25.22s
59.326 N 153.274 W
DEPTH = 88.4km
SOUTHERN ALASKA (2)
<AGS-P>.

AUE	0.06	303	iP	42	37.45	1.2
AUL	0.10	304	iP	42	37.64	1.3
OPT	0.33	4	iP	42	37.70	-1.2
CDD	0.44	206	iP	42	38.76	-0.8
			eS	42	49.21	
MCNL	0.56	256	iP	42	39.88	-0.7
			eS	42	51.17	
XLV	0.80	80	eP	42	42.10	-0.8
			eS	42	55.04	
CNPM	1.06	78	eP	42	44.88	-1.0
			iS	43	00.29	
RED	1.13	13	iP	42	45.91	-0.8
NNL	1.23	54	eP	42	47.85	-0.1
RDT	1.33	19	iP	42	48.18	-1.0
			eS	43	06.09	
NKA	1.75	35	eP	42	55.34	0.8
SLKM	1.94	51	eP	42	55.70	-1.5
SPU	1.96	18	iP	42	56.56	-0.8
CRP	2.03	15	iP	42	57.76	-0.7
SEW	2.09	66	eP	42	57.59	-1.5
SVW	2.14	328	eP	42	58.74	-1.1
NCG	2.16	14	iP	42	59.46	-0.7
SUA	2.49	29	eP	43	04.03	-0.6
PMS	2.67	42	iP	43	05.73	-1.3
SKT	2.80	17	eP	43	07.53	-1.3
PWA	2.87	34	eP	43	09.09	-0.7
PLRM	3.06	40	eP	43	10.12	-2.3
GHO	3.26	39	eP	43	13.27	-2.0
CUT	3.42	24	eP	43	16.43	-0.9
GLI	3.46	61	eP	43	14.40	-3.6
VZW	3.78	60	eP	43	19.12	-3.2

26 abs. associated

MAY 10, 1990 00h 50m 41.96± 0.80s
40.655 N ± 8.8km 15.835 E ± 5.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.41	257	Pc	50	49.80	-0.6
			eSg	50	56.60	
MGR	0.56	203	Pd	50	52.10	-1.2
			eSg	51	01.40	
ORI	0.75	141	P	50	56.10	-0.6
			eSg	51	07.50	
BSS	0.79	280	P	50	58.40	1.0
			eSg	51	08.70	
BAI	0.91	59	P	50	59.00	-0.3
			eSg	51	13.50	
BRT	1.06	77	P	51	00.90	-1.1
			eSg	51	16.40	
TDS	1.07	159	P	51	03.50	1.4
			eSg	51	19.30	
LCI	1.65	101	P	51	12.20	1.2
			eSg	51	35.70	
HVAR	2.56	10	ePn	51	30.80	6.6X

S.D. = 1.3 on 8 of 9 obs.

MAY 10, 1990 00h 58m 48.66± 0.24s
54.824 S ± 5.2km 146.247 E ± 4.6km
DEPTH = 10.0km (geophysicist)
5.5mb (15 obs.) 5.5Msz (18 obs.)
WEST OF MACQUARIE ISLAND (701)
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time 00:59: 0.2 0.5
Lat 54.73S 0.05 Lon 145.91E 0.06
Dep 15.0 FIX Half-duration 3.2
Moment Tensor; Scale 10**17 Nm
Mrr=-0.29 0.17 Mtt= 2.79 0.20
Mff=-2.50 0.23 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-6.31 0.20
Principal Axes:

	Val=	Plg=	Azm=
T	6.99	0	214
N	-0.29	90	180
P	-6.69	0	124

Best Double Cauple:Ma=6.8*10**17
NP1:Strike=259 Dip=90 Slip=-180
NP2: 349 90 0

MCQ	7.38	93	eP	00	33.00	-5.9X
DRV	12.26	192	eP	01	50.00	4.1X
MSZ	17.23	63	P	02	53.00	2.3
TOO	17.27	358	eP	02	51.00	-0.2
			e	02	54.00	
TLC	17.48	66	P	02	54.20	0.2
MMCZ	17.64	66	P	02	56.20	0.3
MHZ	17.68	66	P	02	57.70	1.3
BFD	17.83	350	eP	03	00.00	1.7
			e	03	03.60	
CAN	19.60	7	iPc	03	19.30	-0.5
CNB	19.63	8	eP	03	20.00	-0.2
			e	03	26.00	
ADE	20.54	342	eP	03	30.00	0.3
RIV	21.27	11	eP	03	38.00	0.9
			eS	07	40.00	
KHZ	21.74	66	P	03	42.80	1.0
	1.1s		81.00nm			5.1mb
THZ	21.86	64	P	03	43.50	0.4
TCW	22.98	65	P	03	54.40	0.3
WEL	23.18	66	P	03	54.00	-2.1
			S	08	12.00	
WDW	23.32	66	P	03	58.10	0.7
CMS	23.33	359	eP	04	01.00	3.4X
KIW	23.56	66	P	03	59.50	-0.3
MTW	23.66	67	P	04	01.70	0.9
MNG	24.04	66	P	04	04.20	-0.2
SBA	24.24	170	P	04	05.80	-0.2
			S	08	32.00	
COO	24.57	12	eP	03	49.00	-20.7X
			i	04	11.20	
FORR	27.24	324	eP	04	34.00	-0.5
HBZ	27.74	65	eP	04	37.00	-2.0
BRS	27.82	13	iPd	04	39.00	-0.9
			i	04	46.70	
			e	06	54.00	
			iS	09	21.00	
			e	09	42.00	
QLP	28.25	356	eP	04	44.00	0.3
RMQ	28.37	5	ePd	04	44.70	-0.1
			e	04	51.60	
NWAO	29.91	305	eP	04	58.40	-0.2
KLB	30.77	307	eP	05	06.20	0.0
MUN	31.18	305	eP	05	09.00	-0.8
Z	20s		19.90um			5.8Msz
BAL	32.09	307	eP	05	17.50	-0.3
QIS	34.58	349	iPc	05	38.00	-1.5
CTA	34.68	0	iPc+	05	40.10	-0.2
	1.5s		206.94nm			5.8mb
			iPP	07	00.00	
			iS	11	12.00	
MEKA	34.71	313	eP	05	40.50	-0.1
SPA	35.36	180	iPd	05	44.30	-1.7
	1.2s		59.86nm			5.3mb
Z	18s		9.88um			5.6Msz
			i	05	53.80	
WRA	35.98	341	Pd	05	50.10	-1.3
	0.8s		62.20nm			5.5mb
WB5	36.04	341	eP	05	50.20	-1.7
DZM	36.05	33	iPc	05	50.00	-2.1
MAW	38.84	217	eP-	06	15.00	0.1
Z	19s		14.00um			5.8Msz
MBL	39.07	319	iPd	06	18.00	0.7
	0.9s		68.00nm			5.3mb
NANU	39.56	312	eP	06	22.30	0.9
PVC	40.70	33	iPc	06	33.10	2.3
KNA	41.28	334	eP	06	34.80	-0.7
MTN	43.53	338	eP	06	53.00	-0.9
PMG	45.30	1	eP	07	07.50	-0.7

RAB 50.71 8 eP 07 48.00 -2.3
TRT 54.11 317 ePc 08 14.40 -1.3
0.7s 64.70nm 5.8mb
DAV 64.06 337 eP 09 24.00 -0.7
KKM 65.61 327 eP 09 39.00 4.1X
IPM 70.02 311 ePd 10 03.30 0.9
OCP 72.41 334 eP 10 07.00 -9.7X
SNG 72.52 312 eP 10 17.40 0.0
eS 19 46.50
BAG 74.24 334 eP 10 26.00 -1.6
QIZ 79.85 325 eP 11 00.00 1.4
N 18s 2.50um
eS 21 06.00
NST 80.36 315 eP 11 05.00 3.7X
BLF 81.89 230 iPc 11 01.50 -8.1X
1.0s 30.00nm 5.3mb
GZH 82.56 330 eP 11 14.00 1.3
Z 22s 1.50um 5.3Msz
E 14s 0.80um
eS 21 26.00
QZH 82.92 335 eP 11 15.00 0.5
N 10s 1.10um
E 10s 0.70um
BFS 83.52 231 iPc 11 10.00 -8.1X
0.6s 13 33nm 5.3mb
CHG 83.67 316 ePd 11 19.00 0.4
1.0s 19.75nm 5.3mb
CHTO 83.67 316 eP 11 18.90 0.4
1.0s 19.25nm 5.3mb
SLR 83.83 233 iPd 11 15.50 -4.2X
GYA 87.80 325 P 11 39.60 0.7
Z 40s 1.30um 5.0MszX
N 20s 1.80um
E 20s 1.60um
SKS 22 11.00
S 22 27.00
KMI 87.93 321 Pd 11 42.00 2.3
1.6s 80.00nm 5.8mb
Z 20s 2.30um 5.6Msz
N 18s 1.60um
sS 22 31.00
SSE 88.25 339 P 11 44.00 3.2X
1.5s 16.00nm 5.1mb
Z 20s 1.50um 5.4Msz
S 22 24.00
BUL 88.45 236 eP 11 40.90 -1.6
WHN 89.34 333 ePc 11 46.50 0.5
Z 20s 0.40um 4.8Msz
N 10s 0.20um
E 12s 0.50um
pP 11 58.00 37kmX
eSKS 22 14.00
S 22 38.00
HON 89.49 50 P 11 30.00 -16.9X
Z 22s 2.22um 5.5Msz
NJ2 89.68 337 eP 11 47.00 -0.6
Z 20s 0.70um 5.1Msz
SKS 22 18.00
S 22 43.50
MAT 91.26 354 eP 11 56.00 1.2
1.2s 39.06nm 5.6mb
Z 20s 1.06um 5.3Msz
eS 22 27.00
HYB 91.89 298 eP 12 00.00 1.8
CD2 92.87 324 eP 12 02.70 0.3
Z 20s 1.10um 5.3Msz
SKS 22 39.00
S 23 12.00
TIA 94.06 337 eP 12 07.40 -0.3
Z 26s 1.40um 5.3MszX
N 19s 1.30um
XAN 94.14 330 P 12 08.50 0.3
SKS 22 40.00
S 23 20.00
TIY 96.63 334 eP 12 19.80 0.3
Z 22s 1.40um 5.4Msz
N 14s 0.60um
GUN 97.27 309 P 12 22.40 -0.6
DMN 97.36 308 P 12 22.60 -0.7
0.8s 19.00nm 5.8mb
LZH 97.59 327 eP 12 24.50 0.5
1.5s 27.00nm 5.7mb
Z 40s 3.20um 5.5MszX
N 15s 0.70um
E 15s 0.80um
PP 16 20.00
SKS 23 00.00

ZOBO 103.40 146 Pdiff 12 50.00 -1.1
Z 22s 1.53um 5.5Msz
LR 47 06.00
FRI 121.42 69 e(PKP) 17 45.30 2.3X
WDC 122.53 65 ePKP 17 47.40 2.4X
TNP 123.57 70 PKP 17 50.10 2.7X
KVN 123.79 69 PKP 17 47.90 0.1
TTA 125.72 28 PKP 17 50.00 -0.7
TTA 125.72 28 ePKPc 17 56.00 5.3X
MSU 126.65 73 PKP 17 53.50 0.1
PMR 126.70 33 PKP 17 50.80 -1.6
Z 22s 3.98um 6.0Msz
PMR 126.70 33 iPKPd 18 02.90 10.5X
ALQ 127.32 81 ePKP 17 53.00 -1.8
Z 20s 2.22um 5.8Msz
DUG 127.47 71 PKP 17 54.50 -0.3
TOA 128.02 33 iPKPd 18 06.10 11.0X
PV09 128.33 75 PKP 17 55.50 -1.2
DAU 128.48 72 PKP 17 57.30 0.3
IMA 128.82 27 ePKPd 17 56.00 -0.6
NEW 130.65 61 PKP 18 06.50 6.0X
BW06 131.02 71 PKP 18 01.50 -0.1
GOL 131.27 77 PKP 18 06.90 4.7X
Z 18s 1.39um 5.7Msz
MEO 131.74 87 e(PKP) 18 02.00 -0.9
RSSD 134.94 73 PKP 18 05.00 -4.0X
SES 135.08 62 ePKP 18 08.00 -0.8
INK 136.10 32 ePKP 18 08.00 -2.1X
YKA 139.91 45 ePKP 18 08.30 -9.0X
0.7s 1.40nm
GBTN 140.66 98 PKP 18 18.20 -1.4
VAY 141.09 274 ePKP 18 13.50 -6.6X
JSC 141.35 102 PKP 18 09.00 -11.8X
MLR 141.73 281 ePKP 18 29.00 7.6X
OHR 141.98 272 ePKP 18 16.20 -5.6X
1.2s 36.00nm
FFC 142.08 61 ePKP 18 19.00 -2.5X
0.7s 6.00nm
SKO 142.16 274 ePKP 18 26.00 3.9X
MBC 143.37 24 ePKP 18 19.00 -4.1X
1.0s 24.00nm
BLA 143.91 100 PKP 18 20.00 -5.2X
BZS 144.27 279 ePKP 18 22.50 -3.0X
RSON 144.54 71 PKP 18 20.90 -4.9X
SGO 144.80 267 PKP 18 24.50 -2.0
CVL 145.57 101 PKP 18 25.00 -3.0X
HVAR 145.79 271 ePKP 18 28.00 -0.2
DUI 146.00 268 PKP 18 30.10 1.4
NA2 146.07 101 PKP 18 27.50 -1.3
CBN 146.34 101 ePKP 18 27.00 -2.2X
SDI 146.40 267 PKP 18 28.90 -0.4
SPC 147.00 283 ePKP 18 31.40 1.2
AQU 147.05 268 PKP 18 33.10 2.8X
RDP 147.07 266 PKP 18 34.00 3.6X
SRO 147.38 280 ePKP 18 32.20 1.6
MNS 147.48 267 PKP 18 32.80 1.8
KRA 147.61 284 ePKP 18 33.20 2.3X
e 18 41.20
ZAG 147.62 275 ePKP 18 35.50 4.5X
PTJ 147.68 275 ePKP 18 30.50 -0.8
VBY 147.86 274 ePKP 18 36.70 5.3X
ZST 148.27 279 ePKP 18 35.30 3.3X
e 18 40.20
RIY 148.27 273 ePKP 18 35.30 3.2X
WVLY 148.47 94 PKP 18 31.50 -1.1
CEY 148.47 274 ePKP 18 37.00 4.5X
LJU 148.58 274 ePKP 18 37.30 4.7X
VKA 148.75 279 ePKP 18 36.00 3.2X
2.8s 209.00nm
e 18 42.00
e 18 54.00
VKA 148.75 279 iPKPc 18 38.50 5.7X
0.7s 45.80nm
i 18 41.40
i 18 43.00
i 18 47.10
i 19 38.80
i 22 24.10
SFI 148.90 269 PKP 18 38.00 4.9X
VOY 148.94 274 ePKP 18 37.40 4.1X
PGD 148.95 268 PKP 18 37.50 4.0X
SUF 149.04 309 ePKP 18 34.00 1.2
NUR 149.17 305 iPKP 18 37.00 4.0X
i 18 49.00
TIO 149.56 229 iPKP 18 40.00 5.2X
i 18 56.00
SOD 149.62 318 iPKP 18 37.30 3.8X

i 18 43.80
KEV 149.65 323 ePKP 18 37.00 3.5X
e 18 42.00
PGF 149.71 264 ePKP 18 33.40 -1.2
0.7s 16.55nm
FVI 149.90 274 PKP 18 39.30 4.8X
KMR 149.90 277 (PKP) 18 45.00 10.5X
KSP 150.03 283 ePKP 18 38.80 4.2X
0.9s 22.00nm
TBR 150.11 100 PKP 18 40.80 5.7X
PRU 150.62 281 ePKP 18 40.00 4.5X
e 18 45.50
SAL 150.65 270 PKP 18 42.20 6.5X
KHC 150.76 279 PKP 18 41.50 5.7X
Z 19s 1.00um 5.6Msz
N 19s 0.60um
e 18 47.40
IFR 150.76 235 iPKP 18 43.00 6.5X
SQTA 151.14 274 iPKPc 18 38.50 1.9
0.7s 45.80nm
i 18 41.40
i 18 43.00
i 18 47.10
i 19 38.80
i 22 24.10
FIN 151.18 266 PKP 18 41.80 5.2X
CKI 151.27 266 PKP 18 43.80 7.1X
BRG 151.37 282 iPKP 18 43.00 6.4X
0.9s 10.00nm
i 18 48.60
SBF 151.42 265 ePKP 18 37.30 0.3
0.8s 44.35nm
ROB 151.43 266 PKP 18 42.93 5.9X
LMR 151.63 263 ePKP 18 38.10 0.8
1.0s 20.00nm
ENR 151.65 265 PKP 18 43.45 6.0X
FRF 151.69 263 ePKP 18 38.40 1.0
0.9s 37.65nm
STV 151.71 265 PKP 18 43.55 6.0X
LRG 151.79 263 ePKP 18 38.60 1.1
0.9s 24.55nm
VAI 151.82 269 PKP 18 42.90 5.5X
PZZ 152.00 265 PKP 18 44.06 6.1X
RSNY 152.07 95 PKP 18 43.80 5.9X
CLL 152.10 282 e(PKP) 18 43.00 5.3X
1.3s 32.00nm
i 18 48.90
WNY 152.36 95 PKP 18 42.50 4.1X
GRF 152.38 278 ePKPc 18 46.30 8.1X
Z 20s 0.80um 5.5Msz
e 19 04.60
NKM 152.46 237 ePKP 18 44.00 5.3X
i 18 52.00
LSD 152.52 267 PKP 18 46.42 7.6X
MOX 152.59 280 ePKP 18 47.00 8.6X
LPG 152.77 267 ePKP 18 40.60 1.4
0.9s 20.45nm
LPL 152.80 267 ePKP 18 40.80 1.6
1.0s 15.00nm
HBVT 152.80 96 PKP 18 40.70 1.8
BSF 154.02 271 ePKP 18 42.40 1.7
0.9s 9.85nm
HAU 154.36 271 ePKP 18 43.30 2.3X
HFS 154.41 301 ePKP 18 51.90 11.3X
0.5s 1.40nm
EPF 154.95 256 ePKP 18 44.90 2.9X
0.7s 4.40nm
CAF 155.14 261 ePKP 18 45.50 3.4X
LBF 155.20 267 ePKP 18 45.20 3.0X
0.9s 6.55nm
LOR 155.42 268 ePKP 18 45.60 3.2X
SSF 155.51 267 ePKP 18 46.10 3.6X
BGF 155.62 265 ePKP 18 46.80 4.1X
0.7s 4.40nm
DOU 156.37 274 PKP 18 54.60 11.0X
i 19 13.70
CBM 157.11 96 PKP 18 41.50 -3.1X
S.D. = 1.1 on 102 of 188 obs.

% MAY 10, 1990 01h 30m 31.88± 2.67s
39.455 N ±19.3km 28.354 E ±20.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KCT 0.79 0 iPg 30 48.10 0.8
EDC 0.97 337 iPg 30 49.90 -0.4
eSg 31 01.90

10d 01h

YLV	1.36	35	ePn	30 56.00	-0.9
ALT	1.42	106	ePn	30 58.00	0.2
HRT	1.70	36	ePn	31 02.00	0.3

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

MAY 10, 1990 01h 36m 57.08± 0.32s
12.334 N ± 6.1km 129.797 E ± 9.7km
DEPTH = 33.0km (normal)
4.8mb (14 obs.)
EAST OF PHILIPPINE ISLANDS (260)

SSE	20.29	338	P	41 36.50	3.6X
	2.0s	82.00nm		4.7mb	
NJ2	22.05	335	P	41 51.00	0.3
WHN	23.08	324	eP	42 03.00	2.2
MTN	25.05	177	eP	42 20.00	0.0
GYA	25.89	306	P	42 29.00	1.0
TIA	26.38	336	eP	42 29.00	-3.2X
XAN	28.78	322	P	42 53.00	-1.2
BJI	30.10	339	eP	43 05.50	-0.3
	1.0s	7.00nm		4.4mb	
CD2	30.33	312	eP	43 02.40	-5.6X
CHTO	30.38	286	eP	43 08.70	0.1
	1.3s	3.27nm		4.0mb	
WB5	32.33	172	eP	43 24.40	-1.1
WRA	32.38	172	Pc	43 24.90	-1.2
	1.1s	17.20nm		4.9mb	
LZH	33.26	320	eP	43 18.50	-15.3X
	2.5s	40.00nm			
QIS	34.08	163	eP	43 39.60	-1.2
GUN	43.80	298	P	45 02.00	-0.2
	1.0s	62.00nm		5.3mb	
DMN	44.41	297	P	45 06.80	-0.2
	1.0s	45.00nm		5.3mb	
NWAO	46.58	195	eP	45 25.00	1.3
ADE	47.79	170	iPd	45 34.70	1.3
BFD	50.68	167	eP	45 56.00	0.5
CAN	50.76	160	eP	45 57.70	1.5
GBA	50.96	278	Pc	45 58.60	0.6
	0.8s	13.60nm		5.0mb	
SVW	71.84	30	iPc	48 19.30	0.9
TTA	71.91	28	iPc	48 19.40	0.5
BRW	73.10	19	iPc	48 26.50	0.9
IMA	73.34	24	iPc	48 27.80	0.5
	0.9s	6.20nm		4.6mb	
PMR	74.99	29	iPc	48 36.20	-0.5
	0.9s	11.50nm		4.9mb	
FBA	75.70	26	eP	48 40.20	-0.5
	1.0s	0.90nm		3.7mb X	
TOA	76.40	29	iPc	48 45.80	1.0
INK	81.10	22	eP	49 10.50	0.4
KEV	82.90	340	eP	49 20.00	0.5
MBC	82.94	13	eP	49 20.00	0.4
	0.8s	4.00nm		4.6mb	
SOD	83.71	338	eP	49 21.00	-2.7
SUF	85.29	333	iP	49 32.20	0.5
	0.6s	5.00nm		4.9mb	
NUR	86.67	331	iP	49 37.00	-1.5
YKA	90.46	25	eP	49 56.00	-0.5
	0.8s	1.40nm		4.3mb	
HFS	91.80	333	eP	50 01.50	-1.3
	1.3s	16.60nm		5.3mb	
NB2	92.42	335	P	50 04.30	-1.3
	0.9s	7.00nm		5.1mb	
VAY	94.50	314	eP	50 15.40	-0.1
ZOBO	162.20	105	PKP	56 57.00	-0.7

S.D. = 1.1 on 35 of 39 obs.

? MAY 10, 1990 02h 04m 50.76± 0.88s
16.267 S ±64.8km 69.449 W ±10.4km
DEPTH = 160.2 ± 16.2 km
4.9mb (1 obs.)
PERU-BOLIVIA BORDER REGION (118)

ZOBO	1.27	90	Pd	05 25.50	5.7X
LPB	1.32	102	P	05 19.80	-0.3
ARE	1.97	264	iPc	05 27.00	0.1
			iS	05 54.50	
CCH	3.36	110	P	05 44.00	0.1
			S	06 05.00	
SIV	8.06	89	P	06 46.40	0.4
			eS	08 15.00	
KIC	67.84	76	(P)	15 33.60	-0.5
LKO	68.19	73	P	15 36.50	0.2
	0.4s	8.50nm		4.9mb	

S.D. = 0.5 on 6 of 7 obs.

MAY 10, 1990 02h 08m 56.73± 1.70s
27.272 N ± 9.2km 140.231 E ± 7.7km
DEPTH = 353.5 ± 16.6 km
4.7mb (12 obs.)
BONIN ISLANDS REGION (212)

MAT	9.40	350	(P)	11 07.00	-1.4
	0.6s	6.67nm		4.1mb	
			eS	12 54.00	
SNY	19.92	321	Pd	13 04.70	1.1
	0.9s	30.00nm		4.6mb	
CN2	20.36	328	iPc	13 09.40	1.6
TIA	21.54	300	eP	13 19.70	0.3
TIY	25.57	301	eP	13 58.80	2.2
CD2	31.99	285	P	14 53.00	-0.1
CHTO	38.77	266	e(P)	15 48.70	-1.2
	0.5s	0.89nm		3.3mb X	
WMQ	45.06	306	eP	16 40.50	0.1
WB5	47.22	188	iPc	16 57.10	0.0
WRA	47.28	188	Pc	16 57.40	-0.2
	0.5s	17.20nm		4.5mb	
GUN	47.83	284	P	17 02.80	0.5
DMN	48.57	284	P	17 07.80	0.0
SVW	54.06	33	ePd	17 48.50	0.8
TTA	54.17	30	iPd	17 48.60	0.0
IMA	55.72	27	ePd	17 59.60	0.0
	0.7s	2.90nm		3.8mb	
BRW	55.83	20	iPd	18 00.50	0.4
PMR	57.22	32	ePd	18 09.00	-0.9
	0.9s	14.60nm		4.4mb	
FBA	58.01	29	iPc	18 15.40	0.0
INK	63.59	24	ePd	18 51.70	-0.6
MBC	66.17	15	ePd	19 08.50	-0.2
	0.5s	8.00nm		4.7mb	
KEV	72.24	340	iP	19 44.70	-0.6
	0.5s	11.20nm		4.8mb	
YKA	72.81	28	eP	19 48.00	-0.7
	0.5s	8.20nm		4.7mb	
SOD	73.60	338	iP	19 52.00	-1.2
SUF	76.28	334	iP	20 07.80	-0.5
	0.4s	11.50nm		5.0mb	
WDC	77.88	51	eP	20 18.10	0.6
NUR	78.12	333	iP	20 18.00	-0.3
ORV	79.04	51	eP	20 24.10	0.4
CM8	80.50	52	eP	20 32.20	0.7
PRS	80.57	54	eP	20 32.70	0.9
FRI	81.46	53	eP	20 36.80	0.4
LRM	81.92	42	ePd	20 39.90	0.9
FFC	82.50	31	eP	20 41.50	0.1
	0.8s	15.00nm		4.9mb	
HFS	82.57	336	eP	20 40.00	-1.6
	0.8s	11.70nm		4.8mb	
NB2	82.79	338	P	20 41.00	-1.8
	0.7s	7.50nm		4.6mb	
ZOBO	151.55	73	PKP	28 12.80	7.5X

S.D. = 0.9 on 34 of 35 obs.

? MAY 10, 1990 02h 31m 44.98± 8.93s
51.531 N ±59.6km 20.435 E ±52.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.1 (KRA).

KRA	1.51	192	ePgc	32 12.50	0.4
			iSg	32 22.70	
SPC	2.35	183	ePn	32 24.10	-0.3
	0.6s	0.10nm			
			i(Sg)	32 44.60	
			Lg	32 49.00	
KSP	2.70	257	ePn	32 28.50	-0.7
	0.8s	87.00nm			
			iPg	32 31.10	
			iS	32 54.70	
SRO	3.97	201	e(P)	32 47.70	0.6
ZST	3.97	214	eP	32 46.00	-1.2
			e	33 08.40	
			e	33 22.80	
PRU	4.05	250	ePn	32 48.50	0.2
			e	32 51.00	
			Sg	33 26.50	
BRG	4.13	263	ePg	32 59.00	9.5X
			iSg	33 39.00	
SOP	4.60	215	eP	33 31.60	35.4X
KHC	5.01	244	Pg	33 02.80	0.9
			Sn	33 32.50	
			Sg	33 52.80	

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

MAY 10, 1990 03h 54m 16.85± 0.39s
50.448 N ± 3.9km 5.269 E ± 3.7km
DEPTH = 11.2 ± 2.9 km
BELGIUM (541)
ML 3.1 (LDG), 2.5 (UCC), 2.5 (JCK).

MEM	0.50	71	iPc	54 26.71	-0.3
ENN	0.53	52	iPg	54 27.30	-0.2
	0.5s	44.00nm			
			e(Sg)	54 34.50	
DOU	0.56	231	iPc	54 29.30	1.2
			iS	54 37.70	
SNF	0.63	276	iP	54 30.37	1.0
			iS	54 39.51	
JCK	0.94	51	iPgc	54 34.70	0.0
			eSg	54 48.30	
WLF	0.97	144	iP	54 36.30	1.2
			iS	54 48.04	
PLH	1.13	60	iPgd	54 38.30	0.4
			eSg	54 53.00	
RUP	1.37	122	ePn	54 42.13	0.2
ABH	1.57	110	ePn	54 44.90	0.2
TNS	2.05	95	ePn	54 55.10	3.4X
			eSn	55 19.70	
CDF	2.42	146	Pn	54 58.20	1.2
			Pg	55 02.60	
			Sg	55 32.00	
TOD	2.43	109	ePn	54 56.72	-0.4
HAU	2.55	163	Pn	54 59.40	0.7
			Pg	55 05.20	
			Sg	55 36.60	
BSF	2.80	159	Pn	55 03.60	1.1
			Sg	55 44.00	
LOR	3.32	197	Pn	55 09.80	0.1
			Sn	55 48.80	
LBF	3.57	194	Pn	55 12.90	-0.4
SSF	3.58	200	Pn	55 13.40	-0.1
			Sn	55 54.20	
AVF	3.87	200	Pn	55 17.00	-0.6
			Sn	56 02.00	
			Sg	56 18.00	
SMF	3.92	195	Pn	55 18.00	-0.3
			Sg	56 20.00	
LDF	3.97	244	Pn	55 19.20	0.3
			Pg	55 32.40	
FLN	4.10	248	Pn	55 20.80	0.0
BGF	4.21	203	Pn	55 21.80	-0.6
			Sn	56 08.00	
			Sg	56 30.80	
GRR	4.50	245	Pn	55 26.20	-0.2
			Pg	55 42.00	
			Sn	56 15.40	
MAF	4.60	204	Pn	55 27.20	-0.7
TCF	4.64	207	Pn	55 27.60	-0.8
LSF	4.88	212	Pn	55 31.10	-0.8
LPG	5.05	168	Pn	55 34.60	0.0

S.D. = 0.7 on 26 of 27 obs.

& MAY 10, 1990 04h 39m 51.70s
60.313 N 152.072 W
DEPTH = 69.5km
SOUTHERN ALASKA (2)
<AGS-P>.

RDT	0.31	328	iP	40 02.54	-0.6
RED	0.36	287	iP	40 02.95	-0.6
NNL	0.47	125	iP	40 05.09	0.7
NKA	0.60	43	iP	40 06.98	1.4
SPU	0.87	1	iP	40 08.18	-0.7
			iS	40 22.00	
XLV	0.88	168	eP	40 08.02	-0.9
CNPM	0.90	152	eP	40 08.56	-0.6
			eS	40 22.43	
SLKM	0.94	77	eP	40 08.97	-0.7
CRP	0.96	358	eP	40 09.58	-0.5
NCG	1.10	358	eP	40 11.16	-0.6
AUE	1.16	215	eP	40 11.88	-0.6
SUA	1.33	29	eP	40 14.32	-0.5
SEW	1.33	98	eP	40 13.68	-1.0
			eS	40 34.20	
PMS	1.55	52	eP	40 17.57	-0.2
CDD	1.60	211	eP	40 16.94	-1.5
MCNL	1.61	226	eP	40 16.76	-1.8
SKT	1.69	9	iP	40 18.54	-1.2
PWA	1.72	38	eP	40 19.80	-0.2

```
SVW      1.92 296 eP     40 20.43   -2.4
PLRM     1.93  47 eP     40 21.57   -1.3
GHO      2.12  45 eP     40 24.08   -1.6
SML      2.36  49 iP     40 27.23   -1.7
GLI      2.52  75 eP     40 27.86   -3.3
VZW      2.82  72 eP     40 32.48   -2.8
VLZ      2.94  71 eP     40 34.21   -2.7
KLU      3.23  66 iP     40 38.50   -2.7
       26 obs. assocloted
-------------------------------------
*  MAY  10, 1990  04h 43m 24.17± 1.62s
   47.884 N ±18.2km  113.045 W ±11.7km
   DEPTH =   5.0km  (geophysicist)
 MONTANA                          (456)
      ML 3.6 (BUT).

HRY      1.43 144 iPd    43 50.80   -0.2
BUT      1.90 170 ePn    43 57.80    0.1
                  iPg    43 59.30
                  eSn    44 21.20
                  iSg    44 24.00
LRM      2.10 169 iPnd   44 00.60   -0.1
SXM      2.14 143 ePn    44 02.10    0.8
LCCM     2.20 158 iPnd   44 02.00    0.0
EBI      2.34 245 iPnc   44 04.70    0.7
MEMT     2.69 147 ePn    44 09.00   -0.1
BGMT     2.74 165 ePn    44 09.20   -0.6
NEW      2.76 279 eP     44 10.00    0.1
DPW      3.47 272 eP     44 19.50   -0.5
     S.D. = 0.5  on  10 of  10 obs.
-------------------------------------
?  MAY  10, 1990  05h 01m 44.84± 5.64s
   48.802 N ±42.7km     0.642 W ±20.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.7 (LDG).

FLN      0.11 110 Pg     01 47.70    0.0
                  Sg     01 49.90
LDF      0.40 121 Pg     01 53.10    0.0
                  Sg     01 58.80
GRR      0.44 199 Pg     01 53.70   -0.1
                  Sg     02 00.00
LPF      0.82 199 Pg     02 00.70    0.1
                  Sg     02 12.00
MFF      2.23 171 Pg     02 26.00    3.7X
                  Sg     02 55.00
BGF      3.26 132 Pg     02 45.50    8.6X
                  Sg     03 27.00
     S.D. = 0.1  on   4 of   6 obs.
-------------------------------------
   MAY  10, 1990  05h 35m 35.43± 1.43s
   10.678 N ±11.7km    67.062 W ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF VENEZUELA          ( 97)
      Felt ot Corocas ond Mirondo.

CAR      0.22 142 iPc    35 40.50    0.3
                  iS     35 43.50
LLAV     0.32 129 iPc    35 41.90   -0.2
                  iS     35 46.90
GUAC     0.53 203 iPd    35 46.20    0.1
                  iS     35 52.10
OLLA     0.70 159 iPd    35 49.30   -0.1
PLAV     0.91 209 iPd    35 52.80   -0.2
MORO     1.25 279 iPd    35 58.70    0.0
                  iS     36 14.10
TOV      2.83 252 ePn    36 30.70    9.1X
                  eSn    37 06.90
SDV      3.94 243 ePn    36 47.50   10.0X
                  iSn    37 39.40
     S.D. = 0.3  on   6 of   8 obs.
-------------------------------------
   MAY  10, 1990  08h 14m 35.35± 0.67s
    6.176 S ± 3.2km   146.807 E ± 4.0km
   DEPTH = 100.8 ±  6.5 km
   5.4mb ( 38 obs.)
 EAST PAPUA NEW GUINEA REGION     (207)
      CENTROID, MOMENT TENSOR     (HRV)
      Doto Used: GDSN
      L.P.B.: 13S, 25C
      Centroid Locotion:
      Origin Time        08:14:41.5 0.4
      Lot  6.31S 0.04 Lon 146.76E 0.04
      Dep 104.0 1.9 Holf-durotion  2.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.03 0.05  Mtt= 1.81 0.08
        Mff=-1.78 0.09  Mrt=-0.02 0.05
        Mrf= 0.49 0.05  Mtf=-1.11 0.07
      Principol Axes:
        T  Val=  2.14  Plg= 4  Azm=196
        N        0.06      77      305
        P       -2.20      12      105
      Best Double Couple:Mo=2.2*10**17
       NP1:Strike=242 Dip=78 Slip=-174
       NP2:       150     84      -12

LAT      0.51 158 iPc    14 52.80    1.3
RAB      5.69  70 iPd    15 59.50    0.5
                  iS     16 02.00
HNR     13.41 105 eP     17 42.00   -0.9
                  eS     20 12.00
CTA     13.84 182 iP     17 47.70   -0.7
        1.0s   380.00nm          5.6mb
                  iS     20 20.00
QIS     15.91 205 eP     18 13.00   -1.8
        0.6s    79.00nm          5.1mb
                  e      21 15.00
MTN     16.82 246 iPc    18 26.10    0.0
                  eS     21 24.00
WRA     18.28 220 Pd     18 42.10   -1.9
        0.9s   370.90nm          5.6mb
AAI     18.71 277 ePc    18 49.50    0.6
        1.0s   305.00nm          5.6mb
GUA     19.68 355 eP     18 58.90   -0.2
        1.2s   500.00nm          5.7mb
GUMO    19.73 354 eP     18 59.10   -0.5
        1.1s   358.07nm          5.6mb
                  eS     22 36.00
PJG     19.73 354 eP     18 59.00   -0.6
RMO     20.29 175 eP     19 05.00   -0.3
        0.9s   413.00nm          5.8mb
QLP     20.44 187 iPc    19 06.20   -0.7
BRS     21.85 166 iPd    19 20.00   -1.0
        0.8s     9.00nm          4.2mb X
                  i      19 33.00
                  i      19 40.50
                  i      19 51.00
                  iS     23 17.00
KUPT    23.30 259 ePc    19 48.50   13.4X
PVC     23.94 121 iPc    19 42.90    1.6
DZM     24.69 132 iPc    19 47.90   -0.7
DAV     24.95 302 eP     19 56.00    5.0X
CMS     25.20 182 iPc    19 52.60   -0.5
        1.2s   548.00nm          5.9mb
WARB    27.68 222 iPc    20 16.00    0.1
BWA     28.15 177 iPc    20 19.70   -0.4
CAN     29.07 176 iPc    20 27.90   -0.5
CNB     29.09 176 ePd    20 28.30   -0.3
ADE     29.61 194 iPc    20 32.50   -0.7
        1.2s   281.25nm          5.8mb
MBL     30.07 238 iPc    20 37.00   -0.3
FORR    30.18 213 eP     20 37.00   -1.2
        0.4s    24.00nm          5.3mb
TSM     30.50 289 ePd    20 43.10    2.0
        0.9s   477.90nm          6.2mb
BFD     31.10 187 iPc    20 45.20   -1.0
TOO     31.27 182 iPc    20 47.60   -0.2
        1.0s   235.00nm          5.9mb
KKM     32.86 291 ePd    21 01.00   -0.9
        0.8s    90.70nm          5.6mb
MEKA    33.74 230 iPc    21 09.50    0.1
        0.5s    41.00nm          5.5mb
NANU    34.28 238 iPc    21 14.20    0.2
        0.5s    32.00nm          5.4mb
BAG     34.31 311 eP     21 13.00   -1.5
COOL    34.40 221 iPc    21 09.50   -5.5X
        0.8s   107.00nm          5.8mb
MRWA    37.02 228 iPc    21 37.20    0.1
KLB     37.11 223 iPc    21 37.30   -0.5
BAL     37.27 226 iPc    21 39.00   -0.2
NWAO    38.27 222 iPc    21 47.40   -0.1
MUN     38.41 224 iPc    21 49.00    0.3
        1.2s     9.00nm          4.5mb
RKG     39.12 221 iPc    21 58.00    3.4X
        0.6s   207.00nm          6.1mb
QZH     41.36 319 eP     22 13.50    0.4
                  pP     22 42.00 126kmX
                  S      28 20.00
                  sS     29 08.00
CNZ     41.87 146 eP     22 19.10    1.9
MSZ     42.55 158 P      22 23.00    0.5
TCW     42.63 149 P      22 24.00    0.7
CHJJ    42.64 351 eP     22 23.10   -0.3

PUZ     42.69 143 P      22 23.90    0.1
MNG     42.83 148 P      22 25.40    0.4
        0.7s    33.00nm          5.3mb
LTZ     42.84 152 P      22 25.40    0.4
NOZ     42.91 143 P      22 26.00    0.5
WDW     43.04 149 eP     22 26.30   -0.3
MTW     43.23 148 P      22 28.40    0.3
MAT     43.25 350 iPc    22 27.10   -1.3
        1.3s    67.31nm          5.3mb
                  eS     28 40.00
PGZ     43.26 147 eP     22 28.50    0.1
MTMJ    43.36 349 eP     22 28.50   -0.9
KGM     44.18 279 eP     22 37.80    1.6
QIZ     44.20 305 eP     22 34.00   -2.3
      N  12s      0.80um
                  S      29 02.50
SSE     44.43 328 P      22 35.80   -2.1
        1.0s    26.00nm          5.0mb
      Z  20s      0.50um          4.4Msz
      E  12s      0.30um
                  pP     23 04.90 128kmX
                  S      29 04.00
                  sS     29 51.00
OFUJ    45.28 354 P      22 44.50    0.0
NJ2     46.42 327 eP     22 54.00    0.4
                  pP     23 20.00 111kmX
                  S      29 35.00
IPM     46.94 282 ePd    23 00.00    1.9
        0.9s   112.40nm          5.7mb
WHN     47.95 321 Pc     23 08.00    2.3
      N  10s      0.50um
SNG     47.96 285 eP     23 07.10    1.1
        1.1s   126.58nm          5.7mb
LOE     50.31 299 eP     23 24.00    0.0
TIA     50.53 329 eP     23 24.00   -1.4
                  pP     23 52.10 120kmX
GYA     50.65 312 eP     23 30.00    3.3X
                  pP     23 56.00 109kmX
                  S      30 38.00
NST     51.06 296 iPc    23 34.00    4.3X
SNY     52.28 338 Pc     23 37.60   -0.9
        1.0s    20.00nm          5.1mb
      Z  22s      0.80um          4.7Msz
                  pP     24 07.00 125kmX
                  S      30 51.50
                  sS     31 41.00
MDJ     52.88 345 Pd     23 42.00   -0.9
KMI     52.95 308 Pc     23 46.00    2.0
                  pP     24 12.50 111kmX
CHG     53.30 299 iPc    23 48.00    1.6
        1.0s    15.00nm          5.0mb
CHTO    53.30 299 eP     23 48.00    1.6
CN2     53.36 341 iPc    23 45.20   -1.2
      Z  22s      0.40um          4.4Msz
BJI     53.96 331 eP     23 50.00   -0.9
        1.0s    18.00nm          5.1mb
      Z  20s     30.00um          6.4MszX
TIY     54.14 326 iPd    23 52.20   -0.2
      Z  16s      1.00um          5.0MszX
      N  13s      0.30um
                  S      31 19.00
CD2     55.26 314 P      24 00.00   -0.6
HHC     56.88 328 eP     24 10.20   -1.9
BTO     57.52 327 eP     24 17.00    0.4
                  pP     24 45.50 118kmX
                  eS     32 03.00
LZH     58.22 320 eP     24 23.00    1.4
      Z  30s      0.60um          4.5MszX
                  pP     24 50.50 113kmX
                  eS     32 16.00
GTA     62.75 320 eP     24 52.20   -0.1
PPN     63.16 106 eP     24 56.00    0.8
        1.0s    40.00nm          5.3mb
LSA     64.19 307 P      25 03.20    0.8
PMO     64.59 104 iP     25 05.60    1.1
        1.0s    55.00nm          5.4mb
VAH     64.85 104 iP     25 07.00    0.8
        1.0s    30.00nm          5.2mb
TPT     64.86 104 iP     25 07.20    0.9
        1.0s    55.00nm          5.4mb
RUV     65.09 104 iP     25 08.40    0.7
        1.0s    30.00nm          5.2mb
GUN     67.80 303 P      25 25.10   -0.2
DMN     68.34 303 P      25 28.50   -0.1
        0.8s    61.00nm          5.5mb
KOD     70.95 283 eP     25 46.00    1.3
HYB     71.34 291 ePc    25 47.00    0.3
```

10d 08h

GBA	71.60	286	Pd	25	48.60	0.4
	0.7s		24.50nm			5.1mb
SBA	72.40	176	eP	25	53.20	1.4
WMO	72.80	319	eP	25	56.00	1.1
			PP	28	37.00	
			S	35	11.50	
NDI	75.31	302	eP	26	36.00	26.4X
POO	75.95	291	iPc	26	14.70	1.3
KSH	79.33	312	eP	26	33.00	1.2
SVW	80.47	25	iPc	26	38.00	0.7
TTA	81.28	23	iPc	26	41.70	0.1
MAW	82.01	203	iPd	26	45.90	0.7
PMR	83.45	26	iPc	26	51.90	-0.7
	0.8s		8.60nm			4.7mb
IMA	83.79	21	iPc	26	54.50	0.0
	1.3s		22.40nm			4.9mb
SPA	83.87	180	iPc	26	55.20	0.3
	0.9s		54.55nm			5.5mb
TOA	84.94	26	iPc	27	00.50	0.3
FBA	85.42	23	P	27	00.30	-2.1
	0.9s		18.75nm			5.1mb
BRW	85.64	16	iPc	27	03.90	0.5
INK	91.89	21	eP	27	32.00	-1.0
GMW	94.78	43	P	27	49.70	2.9X
MBC	96.87	14	eP	27	55.00	-0.8
YKA	99.41	28	eP	28	06.70	-0.8
	1.0s		1.70nm			4.6mb
BCAO	128.48	271	ePKPd	33	33.60	0.5
	0.4s		2.00nm			
			ic	36	46.70	
LPB	138.75	124	PKP	33	51.00	-1.9
ZOBO	138.86	123	PKP	33	49.00	-4.3X
	Z 24s		0.08um			4.4MszX
			LR	49	44.00	
CCH	139.91	126	ePKP	33	59.00	4.2X
SIV	144.69	129	PKP	34	01.40	-1.4
TIO	145.39	319	iPKP	34	07.50	3.7X
			i	34	33.90	
KIC	151.72	272	PKP	34	21.70	7.7X
LIC	152.00	272	PKP	34	22.20	7.8X
TIC	152.00	273	PKP	34	22.20	7.8X
LKO	152.46	279	PKP	34	23.22	8.2X
BAO	153.84	146	ePKP	34	25.80	8.8X
	S.D. = 1.0		on 103 of 119 obs.			

& MAY 10, 1990 08h 19m 45.00s
59.801 N 153.542 W
DEPTH = 140.3km
SOUTHERN ALASKA (2)
<AGS-P>.

AUL	0.42	173	eP	20	04.37	-0.7
RED	0.73	32	eP	20	06.16	-0.9
			eS	20	22.94	
MCNL	0.74	214	eP	20	05.99	-1.0
CDD	0.88	183	eP	20	07.19	-0.9
			eS	20	24.91	
RDT	0.96	36	iP	20	07.94	-0.9
XLV	0.99	110	eP	20	08.28	-0.7
NNL	1.16	77	eP	20	10.86	0.3
CNPM	1.20	102	iP	20	10.05	-1.0
			eS	20	29.64	
NKA	1.49	50	eP	20	15.19	1.2
SPU	1.57	27	iP	20	14.00	-1.0
			eS	20	37.09	
CRP	1.62	24	iP	20	15.03	-0.7
SLKM	1.81	65	iP	20	16.75	-0.9
SEW	2.08	80	iP	20	19.64	-1.3
SUA	2.16	38	eP	20	20.89	-1.2
SKT	2.40	23	eP	20	23.50	-1.4
PMS	2.44	52	eP	20	23.89	-1.6
PWA	2.59	43	eP	20	27.02	-0.2
GHO	3.01	47	eP	20	30.19	-2.5
SML	3.25	49	eP	20	34.45	-1.4
GLI	3.38	69	eP	20	35.35	-2.2
VZW	3.69	67	eP	20	38.79	-2.8
	21 obs. associated					

• MAY 10, 1990 09h 16m 56.71± 1.70s
20.599 S ±11.9km 176.535 W ±17.8km
DEPTH = 293.7 ± 15.1 km
3.7mb (2 obs.)
FIJI ISLANDS REGION (181)

SVA	5.33	297	eP	18	19.90	1.4
NDE	5.60	315	iP	18	20.20	-1.6
DZM	15.93	262	iPc	20	28.20	1.2
MNG	21.09	197	P	21	17.50	-1.7
THZ	22.92	201	eP	21	37.60	0.8
KHZ	23.31	199	eP	21	41.20	0.9
LTZ	24.04	201	eP	21	47.50	0.3
CAN	33.60	237	eP	23	11.60	-0.1
BWA	33.82	239	eP	23	12.90	-0.7
CMS	35.35	244	eP	23	26.70	0.2
WB5	45.93	262	eP	24	51.70	-1.0
WRA	45.94	262	P	24	53.00	0.1
	0.3s		0.70nm			3.5mb
NANU	62.70	255	eP	26	52.00	-1.2
KVN	80.65	42	eP	28	39.00	0.3
CHTO	91.57	289	eP	29	33.00	1.1
	0.8s		1.28nm			3.9mb
INK	94.01	15	ePc	29	32.70	-9.3X
	0.6s		22.00nm			5.5mb X
MBC	102.59	12	ePdiff	30	34.90	14.3X
	0.5s		2.00nm			
WMO	108.03	311	PKP	34	26.50	-24.7X
NUR	137.41	345	ePKP	36	01.00	14.4X
LDF	151.92	5	iPKPc	36	15.50	4.4X
	0.5s		4.35nm			
GRR	152.06	6	iPKPc	36	16.60	5.3X
	0.5s		4.35nm			
CDF	152.08	355	iPKPc	36	18.00	6.5X
	0.7s		6.60nm			
LPF	152.39	7	ePKP	36	18.70	6.9X
	0.5s		6.55nm			
HAU	152.56	356	iPKPc	36	20.10	8.0X
	0.6s		8.10nm			
BSF	152.70	355	iPKPc	36	21.00	8.6X
	0.6s		9.90nm			
LOR	153.39	359	iPKPc	36	23.70	10.4X
	0.6s		4.95nm			
SSF	153.60	360	iPKPc	36	24.80	11.2X
	0.6s		8.10nm			
LBF	153.68	359	iPKPc	36	25.10	11.4X
	0.5s		3.65nm			
AVF	153.87	0	iPKPc	36	26.20	12.3X
	0.6s		5.40nm			
	S.D. = 1.2		on 15 of 29 obs.			

MAY 10, 1990 09h 24m 08.60± 0.26s
51.660 N ± 6.7km 173.391 W ± 3.1km
DEPTH = 33.0km (normal)
5.0mb (28 obs.) 4.2Msz (1 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	2.06	278	iP	24	42.10	0.6
KDC	13.50	55	e(P)	27	18.00	-2.0
SVW	13.61	39	ePc	27	22.80	1.4
TTA	14.62	33	ePc	27	36.40	1.6
PMR	16.54	44	iPc	28	00.70	1.4
IMA	17.55	27	iPd	28	14.40	2.4
	0.9s		6.20nm			3.7mb X
TOA	18.03	44	iPc	28	17.40	-0.5
FBA	18.70	35	eP	28	24.20	-1.9
	0.7s		16.72nm			4.3mb
BRW	21.10	15	eP	28	53.00	1.0
KUSJ	29.29	270	eP	30	06.40	-3.3X
ASAJ	30.05	273	eP	30	17.00	0.5
HOOJ	30.55	270	eP	30	19.40	-1.6
MRRJ	31.91	271	eP	30	33.00	0.1
GMW	32.51	77	eP	30	38.00	-0.2
YKA	32.57	48	eP	30	37.60	-0.8
	0.4s		2.40nm			4.4mb
LON	33.47	78	eP	30	47.50	1.0
NEW	35.60	73	eP	31	04.00	-0.7
EDM	35.70	63	ePc	31	06.00	0.5
WDC	36.25	87	eP	31	11.30	1.0
MIN	36.97	87	eP	31	21.70	5.2X
CHJJ	37.00	264	P	31	16.50	-0.1
MAT	37.17	265	iPd	31	20.90	2.8
	0.9s		8.40nm			4.6mb
MTMJ	37.40	266	P	31	23.50	3.4X
ORV	37.50	88	eP	31	30.90	10.1X
IIDJ	38.04	264	P	31	23.70	-1.7
SES	38.18	67	ePc	31	26.50	0.1
ARN	38.82	91	e(P)	31	32.50	0.6
CMB	39.11	89	eP	31	36.20	1.9
LRM	39.57	74	eP	31	39.20	0.8
KVN	39.91	86	eP	31	41.00	-0.2
			e	31	53.00	
PRI	40.12	92	e(P)	31	57.20	14.4X
FRI	40.18	90	eP	31	44.10	1.0
CN2	40.79	284	eP	31	46.80	-1.2
TNP	41.05	87	eP	31	50.70	0.2
	1.0s		10.00nm			4.5mb
			e	32	02.50	
FFC	41.20	57	iPc	31	51.70	0.4
	0.9s		18.00nm			4.8mb
ISA	41.79	90	eP	31	57.00	0.6
SBB	42.82	91	eP	32	06.00	1.1
BW06	42.98	76	eP	32	06.20	-0.1
MWC	42.98	92	eP	32	07.00	0.6
SNY	43.04	283	Pc	32	06.40	-0.1
GSC	43.06	89	eP	32	07.00	0.1
DAU	43.33	80	eP	32	09.50	0.2
RVR	43.56	91	eP	32	20.00	9.2X
MSU	43.91	82	eP	32	14.00	0.1
PLM	44.31	92	eP	32	18.00	0.9
			e	32	29.00	
BAR	44.87	92	eP	32	26.00	4.5X
RSSD	45.50	71	eP	32	25.80	-0.8
GLA	45.77	90	eP	32	29.00	0.4
GOL	47.34	77	eP	32	41.00	-0.3
	0.8s		13.39nm			5.0mb
RSON	47.49	58	eP	32	41.40	-0.5
BJI	48.59	285	eP	32	50.50	-0.1
	1.0s		12.00nm			4.9mb
ALO	49.72	82	eP	32	59.00	-0.6
	1.3s		5.77nm			4.4mb
DAG	50.83	7	iP	33	06.00	-1.2
HHC	50.83	289	eP	33	07.00	-0.9
FRB	50.97	34	eP	33	08.00	-0.4
SSE	51.37	273	Pc	33	11.50	-0.4
BTO	51.90	290	P	33	16.00	0.0
NJ2	52.17	276	eP	33	19.00	1.1
TIY	52.32	285	Pc	33	19.00	-0.2
	Z 16s		0.70um			4.8MszX
TUL	55.57	74	eP	33	52.00	9.1X
	1.0s		5.70nm			4.6mb
			i	33	55.70	
WHN	55.99	278	eP	33	46.00	0.0
XAN	56.89	284	P	33	51.00	-1.5
FVM	57.33	69	eP	33	53.70	-1.8
SCH	57.66	41	eP	33	56.00	-1.7
KEV	57.98	352	eP	33	56.00	-3.6X
LZH	58.51	290	Pc	34	03.00	-1.0
	1.5s		58.00nm			5.5mb
	Z 20s		0.20um			4.2Msz
GTA	58.56	295	iPc	34	03.00	-1.3
SOD	60.34	351	iP	34	14.00	-2.0
RSNY	61.42	54	eP	34	22.20	-1.5
	1.1s		24.84nm			5.3mb
WNY	61.87	53	eP	34	25.70	-1.1
CD2	62.19	285	P	34	28.40	-0.7
HBVT	62.29	53	eP	34	28.50	-1.0
GBTN	62.53	67	eP	34	29.50	-1.6
TKL	62.78	66	eP	34	31.40	-1.4
CBM	62.79	48	eP	34	31.70	-1.0
BNH	63.01	52	eP	34	33.70	-0.6
NAV	63.27	63	eP	34	35.50	-0.6
BLA	63.56	63	eP	34	37.40	-0.6
	0.8s		24.83nm			5.4mb
GYA	63.63	280	P	34	38.80	0.1
CVL	64.08	61	eP	34	41.10	-0.2
NA2	64.36	61	eP	34	42.70	-0.4
EMM	64.71	49	eP	34	44.40	-0.9
SUF	64.92	350	eP	34	46.00	-0.4
JSC	65.20	66	eP	34	47.50	-1.1
LHS	65.31	65	eP	34	48.50	-0.8
NB2	67.59	358	P	35	02.80	-0.7
	0.6s		2.20nm			4.4mb
LSA	70.48	293	P	35	22.40	0.1
EKA	73.07	6	Pc	35	36.10	-0.6
	1.1s		6.50nm			4.5mb
CHG	74.05	280	eP	35	44.90	1.9
CHTO	74.05	280	eP	35	42.40	-0.5
GUN	74.83	296	P	35	48.00	0.2
DMN	75.50	296	P	35	51.60	0.1
	0.8s		53.00nm			5.6mb
KSP	77.54	354	ePc	36	02.00	-0.2
			i	36	09.40	
BRG	77.65	355	iP	36	03.00	0.2
	1.0s		20.00nm			5.1mb
			i	36	10.00	
MOX	77.98	357	eP	36	05.00	0.4
KRA	78.03	351	eP	36	07.50	2.6
PRU	78.51	355	P	36	07.70	0.2
			e	36	12.20	
GRF	78.95	357	iPc	36	11.20	1.2
	0.7s		22.00nm			5.3mb
KHC	79.41	355	P	36	13.00	0.5

	1.0s	8.50nm		4.7mb				e	26	43.00					e	56	28.50					
ZST	80.12	353	eP	36	14.80	-1.5	BCH	41.07	92	eP	26	32.50	1.0	GRR	80.23	5	iPc	30	57.90	0.2		
MAIO	80.94	319	eP	36	20.00	-1.0	FFC	41.24	57	iPc	26	32.90	0.4		0.7s	6.60nm			4.7mb			
MFF	81.95	5	iPc	36	26.60	0.7		1.0s	20.00nm			4.8mb		CDF	80.41	360	eP	30	59.20	0.4		
	0.6s	5.40nm			4.8mb		SBB	42.80	91	eP	26	46.00	0.4		0.7s	6.60nm			4.7mb			
SMF	82.05	2	iPc	36	27.00	0.6	BW06	42.99	76	eP	26	47.60	0.4	LPF	80.57	5	iPc	31	00.00	0.5		
	0.8s	11.40nm			5.0mb			0.8s	4.21nm			4.2mb			0.8s	6.70nm			4.7mb			
TCF	82.36	3	eP	36	28.60	0.5	GSC	43.04	89	eP	26	48.00	0.4	BSF	80.99	360	eP	31	02.20	0.3		
LSF	82.37	4	iPc	36	28.70	0.6	SNY	43.08	283	Pc	26	47.60	-0.1	MAIO	81.03	319	eP	31	03.00	0.7		
MAF	82.44	3	iPc	36	29.40	0.9		1.2s	40.00nm			5.0mb		SQTA	81.52	357	i(P)	31	04.70	0.0		
	0.5s	4.35nm			4.8mb		DAU	43.33	80	eP	26	50.80	0.7		1.0s	17.90nm			5.0mb			
LFF	83.65	4	iPc	36	35.60	0.9	RVR	43.54	91	eP	27	03.00	11.5X	LOR	81.53	2	iPc	31	04.90	0.3		
LPO	83.92	4	iPc	36	36.80	0.7	MSU	43.91	82	eP	26	55.10	0.4		0.8s	6.05nm			4.7mb			
WB5	84.58	228	eP	36	41.00	1.4	PLM	44.28	92	eP	26	59.00	1.2	SSF	81.72	2	iPc	31	06.10	0.5		
		e		36	50.20		BAR	44.85	92	eP	27	03.00	0.8		0.8s	8.75nm			4.8mb			
WRA	84.64	228	Pc	36	50.40	10.5X	RSSD	45.52	71	eP	27	07.20	-0.4	LBF	81.81	2	eP	31	06.40	0.3		
	0.8s	3.30nm					GLA	45.75	90	eP	27	09.00	-0.4		0.8s	7.40nm			4.8mb			
SBF	84.86	359	eP	36	41.60	0.7	GOL	47.35	77	eP	27	21.90	-0.3	AVF	81.99	2	iPc	31	07.40	0.4		
	0.9s	19.65nm			5.3mb			0.8s	21.58nm			5.2mb			0.7s	4.95nm			4.6mb			
FRF	85.16	360	eP	36	43.20	0.9	RSON	47.52	58	eP	27	22.00	-1.0	MFF	82.05	5	eP	31	07.80	0.5		
	0.8s	13.45nm			5.2mb		BJI	48.64	285	eP	27	32.00	0.2		0.7s	5.50nm			4.7mb			
LRG	85.27	0	eP	36	44.10	1.3		1.0s	12.00nm			4.9mb		SMF	82.15	2	eP	31	08.30	0.5		
	0.9s	13.10nm			5.1mb		Z	24s	0.32um			4.2MszX		BGF	82.21	3	eP	31	08.60	0.5		
LMR	85.39	0	eP	36	44.50	1.1	ALQ	49.71	82	eP	27	39.90	-0.5		0.7s	4.40nm			4.6mb			
	0.9s	14.75nm			5.2mb			1.2s	6.25nm			4.5mb		TCF	82.46	3	eP	31	09.90	0.4		
SKO	85.86	349	iP	36	46.60	0.7	DAG	50.93	7	eP	27	47.00	-1.8		0.7s	3.30nm			4.5mb			
	1.1s	62.00nm			5.7mb		FRB	51.05	34	eP	27	49.00	-0.9	LSF	82.47	4	eP	31	09.90	0.4		
PGF	86.15	358	eP	36	48.10	0.7	SSE	51.39	273	P	27	54.00	1.0	MAF	82.54	3	eP	31	10.60	0.7		
	1.1s	29.30nm			5.4mb			1.2s	19.00nm			4.9mb			0.6s	3.60nm			4.6mb			
VAY	86.36	348	eP	36	49.40	1.1	BTO	51.95	290	eP	27	57.00	-0.2	LFF	83.75	4	eP	31	16.90	0.8		
OHR	86.78	349	iP	36	51.00	0.5	NJ2	52.19	276	eP	28	00.00	1.0	CAF	83.82	3	eP	31	17.30	0.8		
	1.2s	85.00nm			5.9mb		TIY	52.37	285	P	28	00.30	-0.1	LPO	84.02	4	eP	31	18.00	0.5		
		e		37	04.60		Z	18s	0.73um			4.8Msz		WB5	84.52	228	eP	31	31.00	10.8X		
POO	88.94	299	iPc	37	00.80	-0.4			pP		28	15.50	58kmX	WRA	84.59	228	P	31	33.00	12.5X		
BUL	144.14	323	iPKPd	43	35.00	-7.6X	TUL	55.58	74	e(P)	28	29.20	5.3X		0.8s	2.30nm						
	0.9s	15.55nm						0.8s	6.20nm			4.7mb		FRF	85.26	360	eP	31	24.40	0.7		
	S.D. = 1.0	on 109 of 120 obs.					XAN	56.94	284	P	28	32.50	-1.2		0.9s	13.10nm			5.1mb			
----------							FVM	57.35	69	eP	28	34.00	-2.5	LRG	85.37	0	eP	31	25.30	1.1		
MAY 10, 1990 11h 18m 49.45± 0.25s							LZH	58.57	290	Pc	28	44.00	-1.2		0.9s	9.85nm			5.0mb			
51.558 N ± 6.3km 173.361 W ± 2.9km								1.4s	47.00nm			5.4mb		LMR	85.49	0	eP	31	25.90	1.1		
DEPTH = 33.0km (normol)									pP		28	57.00	46kmX		1.1s	17.10nm			5.2mb			
4.8mb (42 obs.) 4.5Msz (2 obs.)									sP		29	10.00		EPF	85.63	5	eP	31	25.80	0.2		
ANDREANOF ISLANDS, ALEUTIAN IS. (7)									PP		30	54.50		SKO	85.96	349	iP	31	27.70	0.5		
							GTA	58.62	295	iPc	28	44.30	-1.2		1.2s	76.00nm			5.8mb			
ADK	2.09	280	iPc	19	23.40	0.6	RSNY	61.47	54	eP	29	03.40	-1.5			i		31	41.00			
KDC	13.55	55	eP	22	03.00	1.6		1.0s	21.69nm			5.2mb		PGF	86.25	358	eP	31	29.20	0.4		
	0.4s	12.07nm			5.1mb		WNY	61.92	53	eP	29	06.50	-1.4		1.0s	24.00nm			5.4mb			
SVW	13.67	39	ePc	22	04.10	0.9	WMQ	62.05	306	eP	29	05.00	-3.8X	VAY	86.46	348	eP	31	30.50	0.8		
TTA	14.70	33	ePd	22	18.10	1.5	CD2	62.24	285	P	29	09.60	-0.6	OHR	86.89	349	iP	31	32.00	0.1		
	1.3s	150.90nm			5.3mb			1.0s	200.00nm			6.2mb X			1.3s	103.00nm			5.9mb X			
PMS	16.26	44	ePd	22	36.60	-0.1	HBVT	62.34	53	eP	29	09.20	-1.4			i		31	40.00			
PMR	16.60	43	iPd	22	42.00	1.1	GBTN	62.55	67	eP	29	10.70	-1.5			e		31	46.40			
IMA	17.63	27	eP	22	55.10	1.2	TKL	62.80	66	eP	29	11.80	-2.0	HYB	87.29	295	eP	31	34.00	-0.1		
	1.0s	17.50nm			4.1mb		CBM	62.84	48	eP	29	12.80	-1.1	POO	89.00	299	eP	31	42.50	0.2		
TOA	18.09	44	iPd	22	58.70	-0.9	BNH	63.06	52	eP	29	13.90	-1.5	KRI	140.83	324	ePKP	38	14.20	-3.6X		
FBA	18.78	35	eP	23	05.50	-2.4	NAV	63.30	63	eP	29	16.00	-1.2	BUL	144.23	323	iPKPc	38	16.20	-7.4X		
BRW	21.19	15	eP	23	33.00	-0.8	BLA	63.59	63	eP	29	18.30	-0.7		1.0s	15.00nm						
KUSJ	29.30	270	eP	24	48.50	-2.2		0.9s	37.19nm			5.5mb			S.D. = 0.9	on 110 of 123 obs.						
ASAJ	30.07	273	eP	24	58.40	0.8	GYA	63.67	280	P	29	19.80	0.0	----------								
MBC	32.19	21	eP	25	16.00	0.2			pP		29	32.40	44kmX	• MAY 10, 1990 11h 51m 56.10± 1.64s								
	1.0s	5.00nm			4.4mb		CVL	64.11	61	eP	29	21.90	-0.5	50.042 N ±15.6km 5.329 E ± 8.5km								
GMW	32.52	77	eP	25	20.00	0.9	NA2	64.40	60	eP	29	22.70	-1.5	DEPTH = 10.0km (geophysicist)								
YKA	32.62	47	eP	25	18.50	-1.3	JSC	65.23	66	eP	29	27.60	-2.0	BELGIUM							(541)	
	0.7s	2.30nm			4.2mb		LHS	65.34	65	eP	29	29.20	-1.1	MD 2.1 (UCC).								
LON	33.48	78	eP	25	28.80	1.4	KMI	67.05	282	eP	29	41.00	-0.7									
NEW	35.61	73	eP	25	45.80	0.1	NB2	67.69	358	P	29	43.60	-1.4	DOU	0.48	277	iPd	52	05.80	0.0		
	1.0s	16.88nm			4.9mb			0.7s	2.20nm			4.4mb					iS	52	15.00			
WDC	36.24	87	eP	25	52.30	1.3	LSA	70.54	293	P	30	04.40	0.9	WLF	0.65	125	iPd	52	08.50	-0.6		
MIN	36.95	87	eP	26	04.40	7.2X	EKA	73.17	6	P	30	18.00	-0.1	HAU	2.15	161	Pn	52	33.80	1.4		
CHJJ	37.01	264	P	25	57.60	0.1		1.1s	7.80nm			4.6mb					Sg	53	05.20			
MAT	37.18	266	eP	25	59.00	0.0	CHG	74.09	280	eP	30	24.00	0.0	LOR	2.94	200	Pn	52	43.60	-0.2		
	1.0s	10.00nm			4.6mb		CHTO	74.09	280	eP	30	20.90	-3.1X				Sg	53	30.00			
MTMJ	37.41	266	P	26	04.70	3.7X	GUN	74.89	296	P	30	29.00	0.0	SSF	3.22	203	Pn	52	47.50	-0.2		
ORV	37.48	88	e(P)	26	09.50	8.0X	DMN	75.56	296	P	30	32.80	0.1				Sg	53	40.00			
IIDJ	38.05	264	P	26	06.70	0.4	BRG	77.76	355	iP	30	44.40	0.2	LDF	3.85	250	Pn	52	57.00	0.4		
SES	38.20	66	eP	26	08.00	0.5		1.0s	20.00nm			5.1mb		BGF	3.86	206	Pn	52	56.00	-0.8		
		pP		26	48.00	187kmX			i		30	51.40					Sn	53	39.60			
ARN	38.80	91	eP	26	13.30	0.7			eSg		56	47.50		FLN	4.01	254	Pn	52	58.70	-0.1		
CMB	39.09	89	eP	26	16.10	1.0	KRA	78.13	351	eP	30	41.70	-4.6X		S.D. = 0.8	on 8 of 8 obs.						
LRM	39.59	74	ePd	26	19.90	0.6	GRF	79.05	357	iPc	30	52.40	1.0	----------								
KVN	39.90	86	eP	26	22.40	0.5		1.0s	32.00nm			5.3mb		• MAY 10, 1990 12h 15m 14.23± 1.17s								
		e		26	34.30		KHC	79.52	355	P	30	54.50	0.6	37.883 N ± 7.3km 30.473 E ±12.0km								
CN2	40.83	284	P	26	28.40	-0.8	LDF	80.06	5	eP	30	56.80	0.0	DEPTH = 10.0km (geophysicist)								
Z	22s	0.50um			4.3Msz			0.8s	6.70nm			4.7mb		TURKEY							(366)	
		pP		26	43.50	59kmX	VKA	80.21	353	i(P)	31	04.70	7.1X									
TNP	41.04	87	eP	26	31.60	0.3		1.0s	17.90nm			5.0mb		BCK	0.43	168	iPg	15	23.00	0.0		
	0.8s	5.39nm			4.3mb		ZST	80.22	353	i(P)	30	58.10	0.4				eSg	15	26.00			

10d 12h

KHL	0.87	301	iPg	15	30.90	-0.1
			eSg	15	44.30	
ALT	1.20	346	ePn	15	36.80	0.1
YER	1.89	247	ePn	15	47.20	0.2
CIN	1.91	262	eP	15	47.00	-0.1
GPA	2.41	357	ePn	15	59.00	4.7X

S.D. = 0.2 on 5 of 6 obs.

MAY 10, 1990 12h 36m 28.28± 0.64s
7.714 S ± 6.0km 116.172 E ± 7.5km
DEPTH = 313.9 ± 9.0 km
4.4mb (5 obs.)
BALI SEA (278)

TRT	3.51	270	iPd	37	30.50	0.1
			iS	38	19.20	
KUPT	7.73	109	ePd	38	23.70	4.2X
AAI	12.61	72	eP	39	19.50	0.3
KKM	13.67	0	ePc	39	32.00	0.0
	0.3s		57.10nm		5.4mb	
MBL	13.83	166	eP	39	33.00	-0.9
			eS	42	10.00	
NANU	14.78	182	eP	39	45.10	0.2
IPM	19.43	308	ePd	40	36.30	3.0X
WB5	21.38	126	iPd	40	52.30	-0.1
WRA	21.40	126	Pd	40	52.40	-0.1
	0.4s		5.90nm		4.3mb	
SNG	21.43	313	eP	40	53.60	0.7
FORR	25.58	156	eP	41	32.00	0.7
QIS	26.02	122	iPd	41	34.60	-0.8
CHG	31.36	327	ePc	42	23.00	0.5
	0.9s		10.50nm		4.3mb	
CHTO	31.36	327	iPc	42	23.00	0.5
	0.7s		9.37nm		4.4mb	
BRS	39.79	124	iPc	43	34.20	1.0
	0.5s		15.50nm		4.6mb	
CD2	40.20	343	iPc	43	37.00	0.5
XAN	42.09	351	P	43	51.70	-0.1
TIY	45.32	356	eP	44	16.20	-1.3
GUN	45.95	322	P	44	22.30	-0.7
DMN	46.22	321	P	44	24.00	-1.0
GTA	49.28	343	eP	44	48.60	0.5
YKA	114.15	23	ePKP	54	22.40	-9.2X
	0.6s		0.40nm			

S.D. = 0.7 on 19 of 22 obs.

% MAY 10, 1990 13h 57m 56.76± 0.80s
31.688 S ± 7.1km 117.058 E ± 8.2km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

KLB	0.61	81	eP	58	09.10	0.1
			eS	58	16.60	
MUN	0.78	248	iPd	58	12.10	0.2
			iS	58	22.00	
BAL	1.12	344	eP	58	18.50	0.8
			iS	58	32.90	
NWAO	1.24	173	eP	58	19.80	-0.1
			iS	58	36.10	
MRWA	2.63	339	eP	58	39.00	-1.0
			eS	59	15.00	

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

? MAY 10, 1990 14h 15m 48.36±10.53s
51.685 N ±62.7km 16.304 E ±65.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.84	180	iP	16	04.80	0.2
	0.2s		45.00nm			
			iS	16	14.00	
BRG	1.69	242	iPg	16	18.70	0.7
			iSg	16	30.70	
PRU	2.03	214	Pn	16	23.60	0.6
			Pg	16	24.70	
			Sn	16	41.80	
			Sg	16	48.10	
CLL	2.10	261	iPn	16	23.70	-0.2
			iPg	16	27.00	
			iSg	16	52.90	
KHC	3.10	215	ePn	16	37.00	-1.2
			ePg	16	44.00	
			Sn	17	13.10	
			Sg	17	23.00	
MOX	3.13	252	ePg	16	47.00	8.4X
			iSg	17	26.00	

S.D. = 1.0 on 5 of 6 obs.

MAY 10, 1990 14h 17m 59.40± 0.81s
36.421 N ±11.0km 27.263 E ± 6.1km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.09	49	ePn	18	19.80	0.0
SMG	1.33	345	ePb	18	24.20	0.3
APE	1.53	295	ePn	18	26.50	-0.4
KSL	1.90	98	ePn	18	31.00	-1.1
ELL	2.15	80	ePn	18	37.00	1.0
VAM	2.68	249	ePn	18	44.50	1.1
BCK	2.86	68	ePn	18	09.00	-37.0X
VLI	3.49	276	ePn	18	54.00	-0.9

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

• MAY 10, 1990 14h 24m 37.10± 1.46s
36.370 N ±17.1km 27.278 E ± 8.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.11	46	ePn	24	57.80	-0.2
SMG	1.38	345	ePb	25	02.50	0.1
APE	1.57	297	ePb	25	05.00	-0.1
KSL	1.88	97	ePn	25	09.00	-0.5
ELL	2.15	79	ePn	25	15.00	1.4
BCK	2.87	67	ePn	25	23.00	-0.8

S.D. = 1.0 on 6 of 6 obs.

• MAY 10, 1990 14h 30m 07.80± 1.13s
42.687 N ±12.8km 144.602 E ±14.5km
DEPTH = 93.5 ± 6.4 km
4.6mb (6 obs.)
HOKKAIDO, JAPAN REGION (224)

KUSJ	0.42	11	iP+	30	22.70	0.2
			S	30	32.40	
HOOJ	1.02	253	iPd	30	29.00	0.8
			S	30	43.60	
MAT	7.87	221	iPd	31	59.90	-1.5
	0.7s		14.38nm		4.7mb	
			eS	33	26.00	
MDJ	11.05	285	eP	32	44.20	-0.1
CN2	14.01	281	Pd	33	22.00	-1.2
BJI	21.46	273	eP	34	54.50	4.7X
BTO	25.82	277	P	35	32.50	0.6
LZH	31.95	272	Pc	36	27.00	0.2
	1.0s		17.00nm		4.8mb	
CD2	34.44	264	eP	36	47.70	-0.6
WMQ	40.76	292	P	37	41.50	0.6
CHG	45.19	253	eP	38	18.50	1.4
CHTO	45.19	253	eP	38	18.10	1.0
	1.2s		7.29nm		4.4mb	
GUN	49.21	272	P	38	48.80	0.0
YKA	57.71	33	eP	39	53.70	3.2X
	0.6s		0.40nm		3.6mb	
KEV	59.04	339	eP	40	05.00	5.3X
SUF	64.05	333	eP	40	33.00	-0.2
NUR	66.12	332	iP	40	45.80	-0.7
	0.5s		11.20nm		5.1mb	
NB2	69.90	338	P	41	09.70	-0.5
	0.8s		7.00nm		4.6mb	
KHC	78.96	330	eP	41	54.00	-8.4X

S.D. = 0.9 on 15 of 19 obs.

MAY 10, 1990 14h 58m 11.18± 0.49s
44.507 N ± 3.8km 129.566 W ± 3.7km
DEPTH = 10.0km (geophysicist)
4.1mb (5 obs.)
OFF COAST OF OREGON (30)

GROR	4.28	77	P	59	17.45	-0.4
KMOR	4.45	73	P	59	19.24	-1.1
NLO	4.60	68	P	59	22.65	0.3
ONR	4.70	58	P	59	24.15	0.3
BMW	4.87	64	P	59	25.64	-0.7
OBH	4.88	53	P	59	25.17	-1.1
OOW	4.94	47	P	59	27.54	0.3
RVW	5.08	69	P	59	28.75	-0.5
OTR	5.09	43	P	59	29.94	0.6
OSP	5.11	41	P	59	30.23	0.7
CPW	5.13	59	P	59	29.66	-0.3
PGO	5.14	77	P	59	30.85	0.9
SMW	5.17	55	P	59	30.43	-0.1
OBC	5.19	45	P	59	31.21	0.5
GT2	5.23	80	P	59	31.18	-0.2
OSD	5.25	49	P	59	31.57	-0.2
LVP	5.29	70	P	59	31.73	-0.5
APW	5.31	64	P	59	31.99	-0.4
CZM	5.33	66	P	59	32.18	-0.5
FL2	5.36	69	P	59	32.83	-0.4
ERK	5.40	68	P	59	33.48	-0.3
MTMW	5.41	71	P	59	33.66	-0.3
SHW	5.43	69	P	59	34.66	0.3
VLMM	5.43	76	P	59	33.81	-0.5
STD	5.46	69	P	59	34.38	-0.2
HSR	5.46	70	P	59	34.84	0.0
REMW	5.47	69	P	59	35.39	0.5
YEL	5.47	69	P	59	35.23	0.3
STW	5.47	46	P	59	35.04	0.3
JLK	5.48	70	P	59	34.85	-0.1
TDL	5.49	68	P	59	34.62	-0.5
ESD	5.49	69	P	59	35.43	0.2
HDW	5.51	53	P	59	35.62	0.2
SOSW	5.51	69	P	59	35.16	-0.3
MEW	5.53	58	P	59	36.60	1.0
CDFW	5.54	70	P	59	35.84	0.1
KOSW	5.54	67	P	59	35.40	-0.4
LMW	5.54	65	P	59	35.83	0.0
TDH	5.58	79	P	59	36.15	-0.2
GMW	5.61	55	P	59	36.83	0.1
VLL	5.68	78	P	59	37.55	-0.1
VBEM	5.71	82	P	59	37.99	-0.2
BLN	5.76	50	P	59	39.46	0.7
GULW	5.81	73	P	59	39.82	0.3
VFP	5.81	79	P	59	39.63	0.0
RVC	5.85	63	P	59	40.27	0.2
ASR	5.86	71	P	59	40.15	-0.1
PGW	5.86	53	P	59	41.25	1.1
LON	5.88	65	eP	59	40.30	-0.2
SPW	5.94	57	P	59	42.33	1.1
GLK	5.96	67	P	59	41.89	0.3
FMW	6.04	64	P	59	42.73	-0.1
WPW	6.04	66	P	59	42.68	-0.1
GSM	6.06	61	P	59	43.56	0.5
CROR	6.13	83	P	59	43.44	-0.6
RMW	6.16	59	P	59	44.91	0.4
OHW	6.18	49	P	59	45.19	0.6
MCW	6.24	46	P	59	45.74	0.2
VGB	6.31	78	P	59	46.51	-0.1
HTW	6.34	56	P	59	47.07	0.1
GL2	6.34	74	P	59	46.97	-0.1
VIPM	6.40	87	P	59	47.05	-0.9
VTHM	6.44	81	P	59	47.77	-0.6
JCW	6.44	52	P	59	48.79	0.3
CMW	6.46	50	P	59	49.30	0.5
WDC	6.50	125	e(P)	59	51.50	2.2
NAC	6.52	67	P	59	49.87	0.3
TWW	6.62	64	P	59	52.30	1.3
EBG	6.74	66	P	59	52.75	0.1
MBW	6.79	48	P	59	53.94	0.5
TBM	6.81	64	P	59	53.79	0.2
RPW	6.81	52	P	59	54.16	0.5
MXC	6.83	69	P	59	53.84	-0.1
JBO	6.97	79	P	59	55.24	-0.5
BRVW	7.01	70	P	59	56.14	-0.3
PATW	7.06	75	P	59	57.01	-0.1
ETW	7.13	61	P	59	58.90	0.7
RSW	7.27	71	P	00	00.48	0.5
NLW	7.32	58	P	00	00.73	-0.1
WAH2	7.36	69	P	00	01.03	-0.3
GBL	7.40	70	P	00	02.03	0.3
WTV	7.40	61	P	00	01.46	-0.5
WIW	7.48	71	P	00	02.99	0.1
CRF	7.50	68	P	00	03.06	-0.1
DHW2	7.63	59	P	00	04.01	-1.1
WRD	7.70	68	P	00	05.57	-0.4
SAW	7.75	62	P	00	05.89	-0.9
PNT	8.34	51	iPd	00	15.00	0.1
NEW	9.39	62	eP	00	27.50	-2.0
CMB	9.46	130	eP	00	30.20	-0.3
FRI	10.59	132	eP	00	47.10	1.2
LRM	12.16	78	eP	01	08.40	0.9
IMW	13.38	86	eP	01	25.00	1.1
SES	13.83	58	eP	01	37.00	7.4X
GOL	18.56	97	eP	02	30.00	-0.1
	0.9s		10.04nm		4.0mb	
YKA	20.00	21	eP	02	45.00	-1.4
	1.1s		3.10nm		3.6mb	
TOA	20.12	337	iPd	02	50.40	2.7
ANMO	20.12	110	eP	02	46.50	-1.6
FFC	20.46	50	iPc	02	51.00	-0.3
	1.0s		34.00nm		4.6mb	
PMR	20.62	333	eP	02	51.30	-1.5

	0.9s	10.42nm			4.2mb
TTA	23.89	330	ePd	03 25.50	0.0
INK	23.95	356	eP	03 26.00	0.1
RSON	24.79	62	eP	03 34.00	-0.2
IMA	25.28	337	eP	03 37.50	-1.4
	1.0s	4.38nm			4.1mb
MEO	25.62	102	e(P)	03 42.30	0.0

S.D. = 0.7 on 104 of 105 obs.

% MAY 10, 1990 16h 19m 19.80± 1.16s
40.730 N ±12.5km 15.797 E ± 6.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.41	245	P	19 28.70	0.5
			eSg	19 36.60	
MGR	0.62	197	P	19 31.00	-1.3
			eSg	19 43.20	
BSS	0.76	275	P	19 34.50	-0.1
			eSg	19 45.70	
ORI	0.83	143	P	19 36.90	1.0
			eSg	19 50.40	
BRT	1.08	82	P	19 39.60	-0.5
			eSg	19 54.40	

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

% MAY 10, 1990 16h 33m 43.71± 0.83s
44.487 N ± 8.0km 7.442 E ± 6.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PZZ	0.24	274	P	33 50.44	1.4
STV	0.26	199	P	33 48.39	-0.8
ENR	0.26	183	P	33 49.01	-0.3
ROB	0.36	122	P	33 52.60	1.4
FIN	0.62	117	P	33 55.57	-0.6
RRL	0.64	313	P	33 55.78	-0.9
PCP	0.79	86	P	33 58.85	-0.3

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

& MAY 10, 1990 16h 43m 48.80s
37.288 N 121.692 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.4 (BRK).
Mo=1.9*10**14 Nm (BRK). Felt along Metcolf Rood.

MHC	0.07	37	iPc	43 50.50	-0.1
ARN	0.14	64	iPd	43 51.40	-0.3
GCC	0.35	223	iPd	43 56.30	0.4
			iS	44 02.40	
SAO	0.56	159	iPd	44 00.00	0.0
PCC	0.59	291	iPc	44 00.20	-0.4
			eS	44 11.50	
BKS	0.73	324	iPc	44 03.00	-0.4
			iS	44 14.50	
BRK	0.74	322	ePc	44 03.10	-0.5
			eS	44 13.40	
LLA	0.90	138	iPc	44 05.20	-1.3
PRS	0.99	165	iPd	44 07.00	-1.0
CMB	1.28	54	iPc	44 11.70	-1.3
			iS	44 28.90	
PRI	1.41	144	e(P)	44 13.00	-2.3
FRI	1.61	100	ePc	44 16.20	-1.8
KVN	3.33	57	eP	44 41.50	-1.3

13 obs. associated

? MAY 10, 1990 17h 44m 17.76± 3.19s
11.971 N ±25.7km 89.127 W ±34.6km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
OFF COAST OF CENTRAL AMERICA (76)
Felt (II) at Son Salvador, El Salvador.

SJAS	1.69	359	iPd	44 45.20	-0.2
VSS	1.76	356	iPc	44 46.60	0.0
LFU	1.77	0	iPc	44 46.80	0.2
TME	2.05	354	iPc	44 50.50	-0.1
CUSS	2.09	338	iPc	44 51.10	-0.1
YPE	2.20	346	iPd	44 53.10	0.2
TPX	4.22	314	iP	46 07.80	46.4X
YKA	53.65	346	eP	53 38.10	0.0
	0.4s	0.40nm			3.8mb

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

---

* MAY 10, 1990 18h 43m 46.84± 0.79s
32.149 S ±11.3km 69.095 W ±13.3km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

RTCV	0.55	59	iPd	44 00.30	2.0
			(S)	44 14.60	
RTBS	0.57	328	iPd	44 00.10	1.6
ZON	0.70	31	iPc	44 00.00	-0.3
			eS	44 13.00	
RTCB	0.71	21	eP	44 00.00	-0.5
RTLL	0.98	33	iPc	44 02.00	-2.3
FCH	1.55	220	iPc	44 15.00	2.3X
			iS	44 39.50	
PEL	1.67	233	iPc	44 14.50	0.3
			iS	44 38.50	
ROCH	1.81	243	iP	44 15.40	-1.1
			iS	44 41.50	
PCH	1.89	219	iP	44 18.30	0.8
			iS	44 46.00	
TACH	2.16	225	iPd	44 20.50	-0.7
			iS	44 50.70	
CHCH	2.21	216	eP	44 22.00	0.1
			iS	44 53.00	
LNV	2.65	227	eP	44 25.40	-2.8X

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

? MAY 10, 1990 19h 07m 02.76± 4.02s
58.709 N ±32.3km 6.181 E ±10.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.0 (BER).

KMY	0.70	317	eP	07 15.54	-1.0
			iSg	07 23.63	
BLS1	0.76	26	iPc	07 17.07	-0.6
			iSg	07 25.71	
ODD1	1.23	11	iPc	07 25.50	-0.1
			iS	07 40.70	
BER	1.73	346	iPc	07 34.15	1.1
			iSg	07 56.61	
ASK	1.85	345	iP	07 35.60	0.9
			iSg	07 58.15	
HYA	2.46	0	iPc	07 43.28	-0.3
			iSg	08 17.96	
NRA0	3.39	51	Pn	07 56.80	0.0
			Lg	08 48.10	

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

% MAY 10, 1990 19h 49m 02.29± 2.77s
40.728 N ± 9.7km 9.538 W ±25.5km
DEPTH = 10.0km (geophysicist)
PORTUGAL (376)
mbLg 3.5 (MDD).

STS	2.28	19	ePg	49 46.80	6.3X
			eSg	50 15.50	
EPLA	2.72	103	ePn	49 47.70	0.8
			eSn	50 21.00	
EMON	3.17	31	ePn	49 53.00	-0.1
			eSn	50 31.00	
EVAL	3.82	144	ePn	50 02.60	0.2
			eSn	50 46.60	
GUD	4.09	89	ePn	50 06.80	0.4
			eSn	50 55.00	
TOL	4.28	100	ePn	50 07.50	-1.5
			iSn	51 04.00	
			eSg	51 25.00	
EHOR	4.42	130	ePn	50 11.00	0.1
			eSn	51 01.00	
EBAN	5.14	118	ePn	50 20.60	-0.5
ETOR	5.68	87	ePn	50 29.50	0.6

S.D. = 0.9 on 8 of 9 obs.

% MAY 10, 1990 20h 46m 53.80± 1.24s
44.228 N ± 6.4km 7.329 E ±14.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG).

SBF	0.37	168	Pg	47 01.50	0.0
			Sg	47 07.20	
FRF	0.83	217	Pg	47 09.60	-0.2
			Sg	47 21.00	
LRG	1.04	223	Pg	47 13.60	0.1
			Sg	47 28.00	
LMR	1.07	214	Pg	47 14.10	0.1
			Sg	47 28.40	
LPG	1.33	342	Pg	47 18.60	0.0

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

% MAY 10, 1990 20h 47m 53.61± 0.72s
44.308 N ± 7.7km 7.392 E ± 5.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

STV	0.08	217	P	47 56.26	0.1
			S	47 58.10	
ENR	0.08	166	P	47 56.26	0.0
			S	47 58.20	
PZZ	0.29	314	P	47 59.65	0.0
			S	48 03.95	
ROB	0.34	92	P	48 01.28	0.5
			S	48 06.41	
FIN	0.59	99	P	48 05.07	-0.6
			S	48 13.18	
PCP	0.86	74	P	48 10.20	0.0
			S	48 21.79	

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

MAY 10, 1990 20h 50m 34.05± 0.48s
13.225 N ± 5.0km 143.781 E ± 8.7km
DEPTH = 185.7 ± 6.5 km
4.8mb (10 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUMO	1.12	71	iPd	51 03.40	-0.1
			eS	51 24.50	
PJG	1.12	71	iPd	51 03.50	0.0
GUA	1.14	74	iPd	51 03.70	0.0
			iS	51 24.50	
KAKJ	23.11	353	P	55 25.20	0.7
CHJJ	23.13	350	P	55 24.20	-0.6
MAT	23.75	349	iPd	55 29.80	-0.9
MTMJ	23.87	348	P	55 31.40	-0.5
NIIJ	24.29	351	P	55 35.50	-0.3
PPR	24.78	265	ePd	55 43.00	2.5
WHN	32.15	307	ePd	56 46.30	0.2
DL2	32.23	327	eP	56 46.50	-0.2
QIS	33.82	187	iPd	57 00.00	-0.6
BJI	36.08	323	eP	57 19.50	0.0
	1.3s	27.00nm			4.7mb
TIY	37.06	317	Pd	57 28.40	0.6
GYA	37.17	296	P	57 30.00	1.0
			PcP	59 45.40	
XAN	37.80	309	P	57 34.00	-0.1
BTO	40.20	319	eP	57 53.50	-0.4
KMI	40.38	293	eP	57 56.50	0.8
CD2	40.79	302	iPd	57 58.80	0.0
BRS	41.31	168	iPc	58 03.00	0.0
	0.6s	5.00nm			4.2mb
MBL	41.48	215	eP	58 04.00	-0.5
DZM	41.53	147	iPd	58 06.50	1.6
LZH	42.43	310	Pd	58 12.50	0.3
	2.0s	47.00nm			4.7mb
SNG	42.86	266	eP	58 17.00	1.2
CHTO	43.37	283	eP	58 19.80	-0.1
	0.7s	1.27nm			3.6mb X
NANU	45.07	218	iPd	58 33.20	-0.1
	0.5s	47.00nm			5.2mb
FORR	46.34	199	eP	58 42.70	-0.5
	0.4s	41.00nm			5.3mb
GTA	46.63	312	iPd	58 45.80	0.2
COOL	48.96	206	iPd	59 02.30	-1.2
	0.4s	12.00nm			4.8mb
TOO	50.55	178	iPd	59 16.90	1.4
BAL	50.77	210	eP	59 16.20	-1.1
	0.4s	12.00nm			4.8mb
KLB	51.08	209	iPd	59 18.10	-1.5
	0.4s	10.00nm			4.8mb
LSA	51.22	298	P	59 21.10	-0.3
MUN	52.14	210	iPd	59 16.20	-11.3X
	0.4s	97.00nm			
GUN	55.68	295	P	59 53.00	-0.9
DMN	56.35	294	P	59 57.40	-1.2
WMQ	56.62	314	P	00 00.20	0.2
HYB	62.79	283	iPd	00 41.00	-1.3
	1.0s	30.00nm			5.1mb
MAIO	77.74	305	eP	02 13.00	0.8
YKA	83.67	27	eP	02 42.60	-0.1
	0.4s	1.20nm			4.0mb
BW06	92.97	45	eP	03 46.10	18.4X
	1.0s	1.50nm			

10d 21h

```
BCAO   122.88 284 ePKPc 09 10.10  -0.4
         0.6s      3.00nm
KIC    143.17 300 PKP   09 45.00  -3.5X
TIC    143.26 301 PKP   09 45.20  -3.5X
LIC    143.49 300 PKP   09 46.10  -2.9X
ZOBO   149.02 100 PKP   10 00.00   1.3
       Z  22s      0.13um          4.7Msz
                   LR    15 08.00
       S.D. = 0.9  on  41 of  46 obs.
-------------------------------------------
*  MAY  10, 1990  20h 57m 52.63± 0.98s
   36.392 N ±13.3km   27.282 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS                (369)

YER      1.09  47 ePn   58 13.60   0.4
SMG      1.36 345 ePb   58 17.80   0.2
APE      1.56 296 ePn   58 19.30  -1.2
KSL      1.88  98 ePn   58 23.70  -1.4
ELL      2.14  80 ePn   58 30.00   1.0
VAM      2.69 249 ePn   58 37.70   1.0
BCK      2.86  67 eP    58 46.00   6.8X
       S.D. = 1.3  on   6 of   7 obs.
-------------------------------------------
%  MAY  10, 1990  21h 13m 59.05± 0.73s
   43.633 N ± 7.2km   12.165 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

CRE      0.16 268 P     14 01.90  -0.8
                eSg     14 04.70
RSM      0.36  35 Pc    14 07.10   0.6
                eSg     14 12.70
SFI      0.37 322 P     14 05.90  -0.7
                eSg     14 11.80
PGD      0.40 307 P     14 07.60   0.3
                eSg     14 14.10
ARV      0.58 103 P     14 09.80  -1.0
                eSg     14 19.50
BDI      1.21 291 P     14 22.50   0.8
                eSg     14 37.30
MNS      1.30 163 P     14 24.00   0.8
                eSg     14 42.00
       S.D. = 1.0  on   7 of   7 obs.
-------------------------------------------
   MAY  10, 1990  21h 15m 37.99± 0.36s
    9.581 N ± 7.8km   84.727 W ± 5.6km
   DEPTH =  33.0km  (normal)
   4.9mb ( 53 obs.)  4.2Msz (  2 obs.)
 COSTA RICA                        ( 78)
      Felt (III) at Jaco and San Jose.

TPX      9.07 306 eP    17 51.80   2.2
PRM     24.48   5 P     20 56.00   0.6
JSC     24.79   7 P     20 58.00  -0.3
LHS     25.04   8 P     21 02.00   1.3
PWLA    25.46 354 P     20 58.00  -6.7X
RSCP    25.91 358 P     21 07.00  -1.9
BLA     27.78   7 eP    21 27.00   1.0
         1.0s     29.00nm          4.9mb
TUL     28.08 341 e(P)  21 24.70  -3.9X
         1.0s      9.00nm          4.4mb
       Z  22s      0.70um          4.2Msz
                   LR    30 00.00
MEO     28.11 335 e(P)  21 26.50  -2.5
ZOBO    30.49 147 P     21 49.50  -1.6
       Z  24s      0.65um          4.2MszX
                   LR    31 04.00
LPB     30.72 148 eP    22 10.00  17.1X
       Z  16s      1.35um          4.7MszX
                   eLR   31 40.00
ALQ     32.12 325 eP    22 04.00  -0.8
         0.9s      6.72nm          4.5mb
ANMO    32.12 325 P     22 04.00  -0.8
         1.2s      7.81nm          4.5mb
SIV     34.56 137 P     22 24.20  -1.7
GOL     35.19 332 P     22 29.00  -2.4
         0.8s      5.95nm          4.6mb
PLM     37.86 313 P     22 54.00   0.1
BW06    39.56 331 eP    23 07.10  -1.0
         1.0s      4.75nm          4.2mb
TNP     40.71 319 P     23 16.00  -1.5
         0.8s      7.35nm          4.5mb
PHAM    41.63 315 P     23 26.00   1.1
FRI     41.75 316 eP    23 26.00   0.2
KVN     41.84 320 P     23 27.00   0.3
PRI     41.97 315 e(P)  23 28.60   0.8

CMB     42.76 317 eP    23 35.40   1.3
ARN     43.18 316 P     23 39.00   1.4
ORV     44.31 319 eP    23 47.80   1.2
SCH     47.32  14 eP    24 09.00  -1.3
PNT     49.12 330 eP    24 24.00  -0.4
FRB     55.29   9 eP    25 06.00  -4.3X
YKA     57.08 344 eP    25 21.70  -1.5
         1.3s      2.10nm          4.0mb
INK     66.73 342 eP    26 27.00  -0.7
MBC     69.22 352 eP    26 41.00  -2.1
         0.8s      4.00nm          4.5mb
FBA     70.12 336 e(P)  26 49.80   1.0
IMA     72.81 337 P     27 04.00  -1.1
         1.1s      3.59nm          4.3mb
TTA     73.03 333 P     27 05.40  -1.0
         1.2s     12.12nm          4.8mb
MAL     76.60  55 eP    27 29.00   1.8
TOL     76.79  51 eP    27 29.50   1.2
LKO     77.85  82 P     27 34.72   0.1
         1.3s     60.50nm          5.5mb
LPF     78.73  43 eP    27 38.40  -0.4
         1.0s     20.00nm          5.1mb
TIC     78.81  85 P     27 39.84  -0.1
         1.2s     23.50nm          5.1mb
GRR     78.84  42 eP    27 39.00  -0.4
         1.0s     28.00nm          5.2mb
LIC     78.86  86 P     27 40.26   0.1
         1.2s     24.50nm          5.1mb
FLN     79.08  42 eP    27 40.40  -0.3
         1.2s     38.70nm          5.3mb
KIC     79.13  85 P     27 41.86   0.3
         1.1s     14.50nm          4.9mb
LDF     79.33  42 eP    27 41.80  -0.2
         1.0s     24.00nm          5.1mb
MFF     79.40  44 eP    27 42.20  -0.2
         0.8s      8.05nm          4.8mb
EPF     79.94  48 eP    27 45.70   0.2
         1.2s     31.25nm          5.2mb
LFF     80.11  46 eP    27 46.20  -0.1
         1.0s     14.00nm          4.9mb
LPO     80.44  46 eP    27 47.70  -0.4
         1.0s     22.00nm          5.1mb
LSF     80.58  45 eP    27 48.20  -0.6
         1.0s     10.00nm          4.8mb
RJF     80.63  46 eP    27 48.80  -0.3
         1.2s     20.85nm          5.0mb
TCF     81.04  45 eP    27 50.60  -0.7
         1.0s     10.00nm          4.8mb
CAF     81.05  46 eP    27 51.00  -0.3
         1.2s     25.30nm          5.1mb
MAF     81.30  45 eP    27 52.30  -0.3
         1.2s     17.85nm          4.9mb
BGF     81.46  44 eP    27 53.00  -0.4
         1.0s     14.00nm          4.9mb
AVF     81.79  44 eP    27 54.30  -0.8
         1.0s      8.00nm          4.7mb
SSF     81.87  44 eP    27 54.60  -0.9
         1.0s      8.00nm          4.7mb
LOR     82.09  43 eP    27 56.00  -0.7
         1.0s      9.00nm          4.8mb
SMF     82.14  44 eP    27 56.20  -0.7
         1.0s      8.00nm          4.7mb
LBF     82.20  44 eP    27 57.30   0.0
         1.2s      8.95nm          4.7mb
DOU     82.30  41 P     27 57.70   0.1
ENN     83.07  40 eP    28 01.50  -0.1
         1.0s     14.00nm          5.0mb
MEM     83.14  40 P     28 01.40  -0.6
WIT     83.29  38 eP    28 04.50   1.8
WTS     83.48  38 eP    28 04.00   0.3
         1.0s     22.00nm          5.2mb
HAU     83.68  42 eP    28 04.60  -0.3
         1.0s      8.00nm          4.8mb
BSF     84.00  43 eP    28 06.00  -0.6
         1.0s     12.00nm          5.0mb
CDF     84.24  42 eP    28 07.40  -0.4
         1.0s     12.00nm          5.0mb
LPL     84.27  45 eP    28 08.60   0.5
         1.0s      6.00nm          4.7mb
LRG     84.28  47 eP    28 08.00   0.1
         1.2s     17.85nm          5.1mb
LPG     84.28  45 eP    28 08.70   0.4
         1.0s      8.00nm          4.8mb
EMS     84.33  44 ePd   28 09.10   0.7
LMR     84.40  47 eP    28 08.50   0.0
         1.0s      8.00nm          4.9mb
FRF     84.47  47 eP    28 08.80  -0.1

         0.8s      8.05nm          5.0mb
NB2     84.56  29 P     28 09.20   0.2
         1.4s     18.80nm          5.1mb
DIX     84.66  44 ePd   28 10.10   0.0
SBF     84.99  47 eP    28 11.60   0.0
         1.2s     38.70nm          5.5mb
MMK     85.04  44 ePc   28 13.30   1.3
ZLA     85.12  43 ePc   28 12.30   0.2
SLE     85.14  43 ePd   28 12.30   0.1
TMA     85.66  44 ePd   28 15.40   0.4
SAX     85.79  43 ePd   28 16.40   0.6
PGF     86.33  48 eP    28 18.20  -0.1
         1.0s     16.00nm          5.2mb
OSS     86.43  43 ePd   28 19.60   0.8
GRF     86.60  40 ePc   28 20.00   0.6
         1.2s     28.00nm          5.4mb
       Z  19s      0.10um          4.2Msz
MOX     86.67  39 eP    28 20.00   0.3
         1.4s     29.00nm          5.3mb
OGA     86.99  43 eP    28 22.40   0.8
SQTA    87.05  43 e(P)  28 20.50  -1.3
         0.1s     17.10nm          6.2mb X
                    i    28 22.60
                    i    28 28.10
CLL     87.39  39 iPd   28 23.90   0.8
         1.5s     31.00nm          5.3mb
WET     87.77  41 iPd   28 25.90   0.9
         1.2s     57.00nm          5.7mb
BHG     88.06  42 iPd   28 27.10   0.6
BRG     88.07  39 iP    28 26.70   0.3
         1.4s     24.00nm          5.3mb
KHC     88.22  41 iP    28 27.40   0.2
         1.2s     15.00nm          5.2mb
PRU     88.64  40 eP    28 29.50   0.3
VOY     89.10  44 eP    28 32.00   0.4
KSP     89.52  38 eP    28 34.00   0.7
CEY     89.53  44 eP    28 34.00   0.5
LJU     89.54  43 eP    28 34.00   0.5
VKA     90.18  41 e(P)  28 20.50 -16.0X
         1.2s     17.10nm
                    i    28 22.60
                    i    28 28.10
PTJ     90.53  43 eP    28 39.10   0.8
ZST     90.71  41 eP    28 39.80   0.9
                    e    40 02.40
SRO     91.60  41 eP    28 41.90  -1.0
KRA     91.98  39 eP    28 44.90   0.2
SPC     92.43  39 eP    28 47.40   0.4
BJI    126.97 340 ePKP   34 41.50   0.9
HHC    127.62 344 ePKP   34 43.00   1.0
TIY    130.29 342 ePKP   34 47.80   0.7
GTA    131.08 355 PKP    34 48.40  -0.2
GYA    142.51 343 PKP    35 10.00  -0.2
KMI    144.75 348 PKPd   35 13.50  -0.7
QIZ    148.15 333 ePKP   35 19.80   0.2
HYB    148.49  32 ePKPd  35 22.50   2.3X
         1.4s     75.00nm
GBA    150.95  38 PKPd   35 24.60   0.7
         1.0s     10.20nm
CHG    151.55 353 ePKPd  35 31.10   6.3X
         1.5s     38.19nm
LOE    152.44 347 ePKP   35 33.80   7.7X
       S.D. = 0.9  on 106 of 114 obs.
-------------------------------------------
%  MAY  10, 1990  21h 15m 45.55± 0.63s
   43.610 N ± 6.3km   12.164 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

CRE      0.16 277 P     15 48.70  -0.5
                eSg     15 51.60
RSM      0.38  33 Pc    15 53.90   0.5
                eSg     15 59.60
SFI      0.38 324 P     15 52.80  -0.6
                eSg     15 58.80
PGD      0.42 310 P     15 54.00  -0.1
                eSg     16 00.90
ARV      0.58 101 P     15 56.70  -0.6
                eSg     16 06.30
PII      1.20 276 P     16 07.90   0.1
                eSg     16 23.30
BDI      1.22 292 P     16 09.20   0.9
                eSg     16 24.70
MNS      1.28 163 P     16 09.60   0.3
                eSg     16 28.70
       S.D. = 0.7  on   8 of   8 obs.
-------------------------------------------
```

% MAY 10, 1990 21h 46m 04.22± 1.43s
43.574 N ±13.4km 12.115 E ± 7.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.13	295	Pc	46 08.20	0.7
			eSg	46 11.30	
SFI	0.40	331	P	46 12.00	-0.3
PGD	0.42	317	P	46 12.20	-0.6
			eSg	46 19.90	
RSM	0.43	35	Pc	46 13.50	0.5
ARV	0.61	97	P	46 16.10	-0.4
			eSg	46 26.20	

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

MAY 10, 1990 21h 52m 48.22± 0.67s
43.537 N ± 4.9km 7.778 E ± 4.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (LDG).

REVF	0.36	304	Pg	52 55.89	0.2
			Sg	53 00.59	
SBF	0.41	323	Pg	52 56.40	-0.2
			Sg	53 01.60	
AURF	0.48	317	Pg	52 57.65	-0.3
AUTN	0.52	331	Pg	52 58.15	-0.7
TOUF	0.61	321	Pg	52 59.92	-0.8
CALN	0.68	289	Pg	53 01.89	0.1
			Sg	53 10.41	
ENR	0.74	340	P	53 02.02	-0.7
			S	53 11.45	
FIN	0.74	25	P	53 02.84	0.1
			S	53 11.96	
ROB	0.76	5	P	53 02.84	-0.3
			S	53 11.96	
STV	0.78	335	P	53 02.74	-0.7
			S	53 12.37	
FRF	0.82	272	Pg	53 04.20	0.1
			Sg	53 14.70	
LMR	0.95	258	Pg	53 06.20	0.0
			Sg	53 17.90	
CKI	0.96	22	P	53 06.00	-0.5
			eSg	53 19.00	
LRG	1.03	266	Pg	53 07.90	0.2
			Sg	53 20.80	
DOI	1.04	339	Pd	53 07.50	-0.4
			eSg	53 20.00	
PZZ	1.08	333	P	53 08.17	-0.5
			S	53 21.40	
PCP	1.15	29	P	53 10.32	0.6
			S	53 24.48	
PGF	1.33	137	Pg	53 12.32	-0.6
RRL	1.56	333	P	53 16.89	0.7
			S	53 34.42	
RSP	1.66	347	P	53 15.66	-1.9
BNI	1.71	333	P	53 18.90	0.6
			eSn	53 38.90	
LSD	1.97	347	P	53 23.48	1.2
LPG	2.09	340	Pg	53 26.00	2.0
LPL	2.12	340	Pg	53 26.40	2.1

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

MAY 10, 1990 22h 18m 34.36± 0.68s
43.582 N ± 6.8km 12.157 E ± 5.3km
DEPTH = 13.7 ± 6.5 km
CENTRAL ITALY (381)

CRE	0.16	287	Pc	18 38.20	-0.2
			eSg	18 40.70	
SFI	0.40	327	P	18 42.20	-0.5
			eSg	18 49.20	
RSM	0.41	32	Pc	18 43.30	0.5
PGD	0.43	313	P	18 43.50	0.1
			eSg	18 50.10	
ARV	0.58	98	Pc	18 45.90	0.1
			eSg	18 55.60	
PII	1.19	277	P	18 57.50	1.3
MME	1.22	301	P	18 56.50	-0.3
BDI	1.23	294	P	18 56.40	-0.5
			eSg	19 14.30	
MNS	1.26	162	P	18 57.90	0.5
			eSg	19 14.50	
AQU	1.53	143	P	19 00.40	-0.9

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

---

* MAY 10, 1990 22h 53m 26.14± 1.51s
36.243 N ±15.4km 27.183 E ± 8.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.25	44	ePn	53 49.50	0.0
SMG	1.49	349	ePb	53 53.20	0.3
CIN	1.54	28	eP	53 53.00	-0.6
APE	1.56	302	ePn	53 54.00	0.0
KSL	1.95	93	ePn	53 59.00	-0.5
ELL	2.25	76	ePn	54 05.00	0.9
VAM	2.56	252	ePn	54 14.00	5.6X

S.D. = 0.7 on 6 of 7 obs.

& MAY 10, 1990 23h 19m 01.79s
58.341 N 142.694 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AGS-P>.

YAH	2.09	13	eP	19 32.38	-5.1
			eS	19 56.96	
PCA	2.16	34	eP	19 33.30	-5.1
HON	2.27	59	eP	19 34.83	-5.1
			eS	20 00.61	

3 obs. associated

& MAY 10, 1990 23h 26m 04.32s
63.174 N 150.115 W
DEPTH = 102.9km
CENTRAL ALASKA (1)
<AGS-P>.

HUR	0.29	132	iP	26 19.14	-0.3
			eS	26 30.74	
KTH	0.53	317	eP	26 20.65	-0.3
			iS	26 33.40	
RND	0.62	67	iP	26 21.25	-0.4
			iS	26 34.55	
MCK	0.77	43	iP	26 22.61	-0.3
			iS	26 35.76	
CUT	0.78	185	eP	26 22.66	-0.3
SKT	1.37	209	iP	26 28.70	-0.8
NEA	1.48	18	eP	26 29.82	-1.1
GHO	1.51	158	eP	26 31.23	-0.1
PWA	1.53	176	iPc	26 31.50	0.0
WRH	1.58	34	iP	26 31.23	-0.9
			eS	26 51.04	
SML	1.60	148	iP	26 32.06	-0.4
PLRM	1.65	163	eP	26 32.51	-0.5
			eS	26 55.07	
PMR	1.65	163	iPc	26 31.40	-1.6
SUA	1.74	190	eP	26 34.36	0.1
CCB	1.80	34	iP	26 33.78	-1.1
HDA	1.87	47	eP	26 34.74	-1.1
			iS	26 57.62	
NCA	1.93	126	eP	26 37.50	0.9
PMS	1.95	172	iPc	26 36.60	-0.3
FBA	2.01	29	iPd	26 36.70	-0.9
TOA	2.11	119	iPc	26 39.10	0.0
PAX	2.12	93	eP	26 38.88	-0.4
CRP	2.14	207	eP	26 38.99	-0.5
GLM	2.18	32	iP	26 38.90	-1.0
SDG	2.19	105	eP	26 41.20	1.1
SPU	2.20	205	eP	26 39.61	-0.5
NKA	2.50	193	eP	26 46.51	2.5
KLU	2.58	129	eP	26 44.03	-1.3
SLKM	2.68	181	eP	26 46.24	-0.3
TTA	2.70	267	iPc	26 45.60	-1.3
VZW	2.70	140	eP	26 47.00	0.1
GLI	2.71	147	eP	26 45.31	-1.6
VLZ	2.71	137	eP	26 45.54	-1.4
RDT	2.83	204	eP	26 48.69	0.1
RED	3.04	206	eP	26 52.01	0.5
SEW	3.10	174	eP	26 51.23	-0.9
IMA	3.29	334	iPd	26 53.30	-1.6
SVW	3.31	234	iPd	26 54.30	-0.9
GLB	3.42	118	iP	26 55.25	-1.4
CNPM	3.70	189	iP	26 59.26	-1.2

39 obs. associated

? MAY 11, 1990 00h 39m 42.61± 6.76s
40.347 N ±70.8km 20.398 E ±45.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.2 (SKO).

OHR	0.82	22	iPg	39 58.00	-0.6
			iSg	40 08.30	
SKO	1.80	26	ePn	40 14.50	0.5
			iSg	40 35.00	
LCI	1.87	270	P	40 14.30	-0.6
			eSg	40 34.00	
VAY	1.91	59	ePn	40 22.00	6.5X
BRT	2.49	283	P	40 24.40	0.6

S.D. = 1.1 on 4 of 5 obs.

MAY 11, 1990 01h 00m 23.78± 0.80s
46.313 N ± 9.2km 13.200 E ± 8.4km
DEPTH = 5.0km (geophysicist)
AUSTRIA (546)
MD 3.0 (LJU). ML 2.4 (VIE).

FVI	0.40	314	P	00 30.30	-1.6
			eSg	00 36.10	
VOY	0.56	120	ePg	00 34.70	-0.3
			eSg	00 45.30	
TRI	0.72	147	eP	00 38.10	-0.1
			e	00 48.70	
LJU	0.97	106	e(Pg)	00 48.50	5.9X
			eSg	00 58.50	
CEY	1.03	123	eP	01 00.80	17.1X
			eSg	01 02.60	
CTI	1.11	257	P	00 45.20	0.1
			eSg	01 00.00	
SOTA	1.64	304	iPgc	00 54.90	1.4
			iSg	01 15.20	
KHC	2.83	5	ePg	01 11.00	0.5
			Sg	01 55.40	

S.D. = 1.2 on 6 of 8 obs.

---

* MAY 11, 1990 01h 01m 12.34± 1.64s
23.616 S ±10.7km 179.982 E ± 8.6km
DEPTH = 561.8 ± 21.1 km
4.8mb (9 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	12.58	274	iPc	03 58.20	1.0
PUZ	14.49	185	eP	04 14.50	-1.5
THZ	19.04	196	eP	05 01.00	1.0
KHZ	19.50	194	eP	05 03.70	-0.5
LTZ	20.16	197	eP	05 11.50	1.2
BRS	24.82	256	iP	05 53.20	0.6
RMQ	28.40	258	ePd	06 24.90	1.0
CTA	31.46	270	iPd	06 50.10	0.1
	0.5s	116.20nm		5.8mb	
PMG	34.39	289	iPd	07 13.90	-0.7
	0.6s	53.33nm		5.3mb	
WB5	42.40	266	iPd	08 19.10	-0.5
FORR	46.35	249	iPd	08 48.90	-1.2
	0.4s	43.00nm		5.3mb	
KLB	55.08	247	iPd	09 53.10	-0.7
	0.6s	25.00nm		4.7mb	
MBL	55.31	260	iPd	09 54.40	-1.2
	0.4s	7.00nm		4.3mb	
NWAO	55.34	245	eP	09 55.00	-0.6
MUN	56.33	246	eP	10 02.00	-0.5
MRWA	56.97	250	iPd	10 06.30	-0.6
NANU	58.83	257	iPd	10 19.30	-0.2
	0.4s	36.00nm		5.0mb	
SPA	66.53	180	iPc	11 09.70	1.3
	0.9s	17.27nm		4.6mb	
MAT	71.65	326	(P)	11 37.00	-2.0
	0.8s	9.70nm		4.4mb	
FRI	82.81	45	eP	12 39.00	0.1
CMB	83.01	43	eP	12 40.00	0.0
ORV	83.24	42	eP	12 41.10	0.0
WDC	83.25	40	eP	12 41.40	0.3
TIA	84.02	314	Pd	12 45.30	0.3
KVN	85.05	44	e(P)	12 49.90	-0.3
TNP	85.05	45	e(P)	12 50.00	-0.3
TIY	87.98	313	eP	13 05.00	1.0
XAN	88.55	308	P	13 07.40	0.7
CHG	89.56	291	eP	13 13.00	1.5
ALQ	90.79	52	eP	13 16.50	-0.7
	0.9s	2.10nm		4.1mb	
CD2	90.91	303	eP	13 19.00	1.4
NB2	141.80	351	PKP	19 35.40	-5.9X
	0.7s	1.90nm			
CLL	150.58	343	iPKPc	20 01.80	6.1X
	0.9s	11.00nm			
BRG	150.71	342	iPKP	20 02.00	6.1X
			e	22 19.00	

S.D. = 1.0 on 31 of 34 obs.

11d 01h

* MAY 11, 1990 01h 37m 20.60± 0.83s
33.414 N ±12.0km 81.125 E ± 9.5km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
TIBET (306)

NDI	5.79	216	eP	38 47.00	0.6
DMN	6.73	148	P	38 58.40	-1.5
GUN	6.84	142	P	39 02.00	0.4
MAIO	17.98	285	iPd	41 29.40	-0.3
KMI	20.56	108	Pc	42 00.00	0.7
CHTO	21.57	128	eP	42 09.70	0.3
YKA	83.59	7	eP	49 46.20	-0.2
	0.7s		0.80nm		4.0mb
	S.D. = 0.9		on 7 of 7 obs.		

---

* MAY 11, 1990 02h 17m 09.20± 1.16s
7.086 S ± 8.5km 129.804 E ±12.1km
DEPTH = 156.4 ± 15.3 km
4.3mb (4 obs.)
BANDA SEA (280)

AAI	3.74	335	ePd	18 07.50	0.6
MTN	5.87	167	eP	18 35.00	-0.1
WB5	13.47	161	eP	20 13.30	-2.0
			eS	22 37.00	
WRA	13.52	161	Pd	20 14.10	-1.8
	0.3s		21.00nm		5.0mb
OIS	16.42	146	eP	20 52.00	-0.1
			iS	23 44.00	
MBL	16.99	214	iPd	21 00.00	0.9
	0.3s		5.00nm		4.3mb
			eS	23 51.00	
PMG	17.32	99	eP	21 05.00	1.8
CTA	20.53	131	iPd	21 41.80	4.7X
NANU	20.64	220	eP	21 39.00	1.0
	0.3s		4.00nm		4.3mb
			eS	25 22.00	
FORR	23.69	184	eP	22 09.00	1.2
			eS	26 35.00	
MRWA	25.58	209	eP	22 25.00	-0.4
BWA	32.17	150	eP	23 28.30	4.1X
CAN	33.17	151	eP	23 34.30	1.4
			eS	24 13.80	
			iSg	24 25.90	
CHG	39.85	311	eP	24 29.30	0.2
MAT	44.11	10	eP	25 02.00	-1.6
	0.9s		8.40nm		4.4mb
GUN	54.86	311	P	26 25.00	-1.2
ZOBO	150.79	143	PKP	36 49.50	9.3X
	Z 20s		0.09um		4.6Msz
			LR	57 28.00	
	S.D. = 1.4		on 14 of 17 obs.		

MAY 11, 1990 03h 14m 16.25± 0.55s
15.500 N ± 6.7km 147.643 E ±11.1km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
MARIANA ISLANDS REGION (215)

PJG	3.29	235	eP	15 06.50	-0.2
			eS	15 40.50	
GUMO	3.29	235	eP	15 06.40	-0.3
CHJJ	21.87	341	P	19 08.30	0.2
MAT	22.58	340	(P)	19 14.00	-1.1
	0.6s		4.00nm		4.1mb
MTMJ	22.75	339	P	19 16.60	-0.3
NIIJ	22.97	342	P	19 19.60	0.7
WB5	37.50	201	eP	21 29.10	0.1
WRA	37.57	201	Pc	21 29.50	0.0
	0.7s		4.30nm		4.4mb
LZH	44.00	306	P	22 23.40	0.8
GUN	58.18	293	P	24 10.00	-0.1
INK	71.58	23	eP	25 36.00	0.2
YKA	79.93	28	eP	26 22.20	-1.0
	0.4s		0.30nm		3.6mb
KIC	145.07	306	PKP	33 52.90	0.0
TIC	145.11	307	PKP	33 53.60	0.6
LIC	145.38	307	PKP	33 53.80	0.4
	S.D. = 0.6		on 15 of 15 obs.		

% MAY 11, 1990 03h 20m 28.15± 1.29s
39.952 N ±13.0km 27.319 E ± 8.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

KGT	0.50	359	iPg	20 38.10	0.0
			iSg	20 43.10	
EDC	0.57	46	iPg	20 38.90	-0.7
			eSg	20 46.90	
EZN	0.77	261	iPg	20 43.50	-0.2
			iSg	20 55.00	
KCT	0.85	69	iPn	20 45.10	0.1
CTT	1.46	35	ePg	20 56.10	0.9
	S.D. = 0.8		on 5 of 5 obs.		

% MAY 11, 1990 03h 21m 13.31± 0.50s
43.596 N ± 5.2km 12.167 E ± 4.6km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	282	Pc	21 16.60	-0.1
			eSg	21 18.80	
RSM	0.39	32	Pc	21 21.90	0.8
			eSg	21 27.60	
SFI	0.40	325	P	21 20.60	-0.7
			eSg	21 26.70	
PGD	0.43	311	P	21 21.80	-0.1
			eSg	21 28.00	
ARV	0.57	100	P	21 24.40	-0.4
			eSg	21 34.10	
ASS	0.64	145	P	21 26.10	0.0
			eSg	21 37.30	
PII	1.20	277	P	21 36.20	0.1
			eSg	21 54.20	
BDI	1.23	293	P	21 37.10	0.4
			eSg	21 53.70	
MNS	1.27	163	P	21 38.40	1.1
SDI	2.25	147	P	21 50.60	-1.2
	S.D. = 0.7		on 10 of 10 obs.		

% MAY 11, 1990 03h 29m 48.48± 1.45s
43.563 N ±13.3km 12.160 E ± 6.6km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.16	293	Pc	29 52.10	0.2
			eSg	29 54.00	
RSM	0.42	30	Pc	29 57.30	0.4
SFI	0.42	328	P	29 56.10	-0.8
			eSg	30 02.10	
PGD	0.45	315	P	29 57.90	0.5
			eSg	30 03.40	
ARV	0.57	96	P	29 59.80	-0.2
			eSg	30 09.50	
	S.D. = 0.7		on 5 of 5 obs.		

? MAY 11, 1990 03h 34m 25.01± 5.39s
51.570 N ±34.8km 16.143 E ±31.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.4 (VKA), 3.3 (GRF).

KSP	0.73	173	iP	34 39.50	0.1
	0.4s		71.00nm		
			iS	34 48.90	
PRU	1.88	213	Pn	34 57.60	0.1
			Pg	35 00.00	
			Sn	35 15.00	
			Sg	35 24.00	
			i	35 30.50	
CLL	1.98	264	iPn	34 58.80	-0.1
			ePg	35 02.00	
			iSg	35 28.20	
KHC	2.94	215	ePn	35 12.00	-0.7
			Pg	35 19.00	
			Sn	35 49.00	
			Sg	35 58.70	
HOF	2.98	247	ePn	35 13.20	0.1
MOX	3.00	254	ePg	35 21.00	7.6X
			iSg	36 02.00	
WET	3.20	222	ePn	35 16.70	0.3
VKA	3.31	178	ePg	35 27.00	9.1X
			iSg	36 12.90	
			i	36 15.70	
GRF	3.65	241	ePn	35 23.00	0.2
			ePg	35 34.60	
			eSg	36 21.50	
	S.D. = 0.4		on 7 of 9 obs.		

? MAY 11, 1990 03h 42m 07.24± 5.11s
15.933 N ±26.4km 147.079 E ±82.6km
DEPTH = 33.0km (normal)
4.9mb (3 obs.)
MARIANA ISLANDS REGION (215)

GUMO	3.17	223	eP	42 55.70	-0.2
PJG	3.16	223	eP	42 56.30	0.4
			eS	43 33.70	
IIDJ	21.12	339	P	46 52.10	0.5
CHJJ	21.29	342	P	46 53.80	0.6
MAT	21.99	341	(P)	47 00.00	-0.3
	0.8s		11.94nm		4.4mb
			(S)	51 12.00	
MTMJ	22.16	340	P	47 01.60	-0.4
BJI	36.05	318	eP	49 07.00	-0.5
	1.5s		26.00nm		4.9mb
			e	54 10.50	
LZH	43.30	306	Pd	50 09.00	1.0
	2.0s		75.00nm		5.1mb
GUN	57.51	293	P	51 55.80	-0.6
DMN	58.20	293	P	52 00.70	-0.5
	S.D. = 0.7		on 10 of 10 obs.		

MAY 11, 1990 03h 47m 04.55± 0.40s
15.556 N ± 5.3km 147.861 E ± 7.0km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.49	235	eP	47 58.50	0.6
			eS	48 36.00	
GUMO	3.50	236	eP	47 58.30	0.3
PJG	3.50	236	eP	47 58.30	0.3
IIDJ	21.75	338	eP	51 55.50	0.3
CHJJ	21.89	340	P	51 57.00	0.4
MAT	22.60	339	(P)	52 03.00	-0.6
	0.8s		17.16nm		4.6mb
MTMJ	22.78	339	P	52 05.20	-0.2
NIIJ	22.98	342	P	52 08.00	0.7
WB5	37.63	201	eP	54 18.20	-0.1
WRA	37.70	201	Pc	54 19.00	0.1
	0.9s		5.00nm		4.4mb
XAN	39.55	305	P	54 33.80	-0.6
GYA	39.80	293	P	54 37.00	0.3
LZH	44.13	306	Pd	55 12.00	0.0
	1.6s		52.00nm		5.1mb
CHG	46.73	281	eP	55 39.00	6.3X
CHTO	46.73	281	ePd	55 32.40	-0.3
			pP	55 42.90	36kmX
GTA	48.11	309	Pd	55 43.20	-0.3
WMO	57.93	312	P	56 56.50	0.4
GUN	58.35	293	P	56 59.00	-0.6
	1.0s		32.00nm		5.4mb
DMN	59.04	293	P	57 03.40	-1.0
HYB	66.14	282	eP	57 50.50	-0.9
INK	71.45	23	eP	58 24.00	0.6
MBC	75.67	14	eP	58 48.50	0.7
	0.7s		4.00nm		4.5mb
MAIO	79.67	305	eP	59 12.00	1.2
YKA	79.78	28	eP	59 10.40	-0.3
	0.8s		1.30nm		4.0mb
SES	85.06	39	eP	59 39.00	0.7
KIC	145.20	307	PKPd	06 41.28	-0.1
	0.7s		11.00nm		
TIC	145.24	307	PKP	06 41.16	-0.3
	0.8s		12.00nm		
ZOBO	145.41	96	PKP	06 41.00	-1.4
LIC	145.51	307	PKP	06 42.16	0.2
	0.8s		11.50nm		
CCH	147.36	98	ePKP	06 51.00	5.8X
	S.D. = 0.6		on 28 of 30 obs.		

% MAY 11, 1990 04h 26m 42.86± 0.93s
30.505 S ± 9.2km 116.902 E ± 8.0km
DEPTH = 5.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.20	239	iPd	26 46.50	-0.4
KLB	1.31	146	eP	27 08.50	0.9
			eS	27 25.00	
MRWA	1.50	328	iPd	27 11.00	0.5
			eS	27 39.00	
MUN	1.58	202	eP	27 11.50	-0.1
			iS	27 31.10	
COOL	3.67	97	eP	27 40.70	-0.9
			eS	28 27.30	
	S.D. = 1.0		on 5 of 5 obs.		

? MAY 11, 1990 05h 02m 55.51± 7.38s
16.950 N ±37.0km 100.509 W ±58.3km

DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.63	97	iPc	03 07.95	0.0
			iS	03 15.27	
III	1.73	35	iP	03 23.14	-0.8
			iS	03 40.72	
UNM	2.68	28	iP	03 37.30	-0.3
			(S)	04 09.00	
IIJ	2.86	15	iP	03 39.79	-0.6
			(S)	04 18.30	
IIT	2.94	45	iP	03 41.49	0.3
			(S)	04 25.53	
IIC	3.04	23	(P)	03 44.08	1.3
			(S)	04 23.40	
OXX	3.62	87	(P)	03 16.58	-34.3X
			(S)	04 46.44	
LVVM	4.75	54	(P)	04 18.16	11.5X

S.D. = 1.0 on 6 of 8 obs.

MAY 11, 1990 05h 03m 27.29± 0.31s
51.476 N ± 6.3km 159.387 E ± 5.0km
DEPTH = 10.0km (geophysicist)
5.0mb (47 obs.) 4.8Msz (3 obs.)
OFF EAST COAST OF KAMCHATKA (219)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 05:03:41.2 0.7
Lat 51.69N 0.08 Lon 159.93E 0.09
Dep 15.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr=-4.36 0.32 Mtt= 1.19 0.48
Mff= 3.17 0.35 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 2.88 0.42
Principal Axes:

	Val=	Plg=	Azm=
T	5.22	0	125
N	-0.86	0	35
P	-4.36	90	180

Best Double Couple:Mo=4.8*10**16
NP1:Strike=215 Dip=45 Slip= -90
NP2: 35 45 -90

SMY	9.15	76	P	05 37.40	-4.7X
KUSJ	13.00	236	eP	06 32.60	-2.0
ASAJ	13.43	243	P	06 41.80	1.5
NIIJ	20.27	233	P	08 06.00	0.5
MDJ	20.97	263	eP	08 10.00	-2.6
	Z 20s		3.30um		4.7Msz
CHJJ	21.22	231	eP	08 20.60	5.3X
MAT	21.22	234	iPc	08 15.80	0.5
	1.0s		81.00nm		5.1mb
			(S)	12 17.00	
TSRJ	23.13	236	P	08 37.40	3.1X
CN2	23.95	265	eP	08 40.50	-1.7
	Z 16s		6.50um		5.2MszX
	N 17s		4.90um		
	E 17s		2.40um		
TTA	26.16	47	P	09 02.90	-0.2
SNY	26.17	263	Pd	09 03.00	-0.3
	Z 14s		6.80um		5.3MszX
	N 14s		3.00um		
	E 15s		3.90um		
IMA	27.55	40	eP	09 15.20	-0.7
	0.8s		1.70nm		3.8mb X
BRW	27.87	29	eP	09 18.10	-0.4
FBA	29.89	43	eP	09 36.30	-0.5
BJI	31.80	266	eP	09 55.00	1.2
	Z 16s		3.20um		5.1MszX
	N 15s		2.90um		
	E 14s		1.20um		
TIA	33.56	260	Pd	10 08.40	-0.9
	Z 16s		2.80um		5.1MszX
	N 15s		2.20um		
	E 15s		1.90um		
HHC	34.21	271	eP	10 16.50	1.5
	Z 16s		5.00um		5.3MszX
	N 12s		1.20um		
	E 13s		2.90um		
NJ2	35.34	253	Pc	10 25.00	0.5
	N 15s		2.30um		
	E 15s		1.20um		
INK	35.43	36	eP	10 24.00	-0.9
TIY	35.52	266	Pd	10 26.10	-0.1
	Z 15s		3.80um		5.3MszX
	N 16s		4.20um		

MBC	38.70	22	eP	10 52.00	-0.4
	0.8s		10.00nm		4.6mb
WHN	39.12	255	eP	10 56.50	0.2
	Z 16s		1.80um		5.0MszX
	E 13s		1.50um		
XAN	40.06	264	P	11 03.60	-0.6
	N 16s		1.90um		
	E 15s		1.20um		
QZH	40.79	245	eP	11 08.00	-2.2
	Z 16s		1.10um		4.8MszX
	N 14s		0.80um		
LZH	41.91	271	Pc	11 19.50	0.0
	1.5s		42.00nm		4.9mb
	Z 18s		3.60um		5.3Msz
	N 14s		2.20um		
	E 15s		2.60um		
GTA	42.37	278	eP	11 22.50	-0.7
	Z 14s		5.40um		5.6MszX
	E 14s		3.90um		
YKA	44.66	41	eP	11 40.30	-1.0
	0.8s		1.70nm		4.0mb
CD2	45.39	265	eP	11 47.00	-0.6
	Z 16s		1.70um		5.1MszX
	N 15s		2.50um		
GYA	46.74	258	iPc	11 59.80	1.4
	N 18s		2.10um		
	E 18s		1.40um		
WMQ	47.11	290	P	12 00.40	-0.7
	Z 15s		4.50um		5.6MszX
	E 14s		3.30um		
			pP	12 07.50	24kmX
KBS	48.43	352	eP	12 10.70	-0.2
KMI	50.12	261	Pc	12 25.00	0.2
	1.5s		100.00nm		5.6mb
	Z 15s		2.30um		5.3MszX
	N 15s		1.70um		
	E 18s		1.30um		
QIZ	50.45	249	eP	12 28.40	1.4
	E 13s		1.60um		
DAG	52.02	359	eP	12 37.00	-1.3
SES	52.95	53	eP	12 51.00	5.3X
ORV	54.11	70	e(P)	13 08.20	13.9X
KEV	54.21	342	eP	12 51.00	-3.6X
FFC	54.47	45	eP	13 14.00	17.3X
	0.9s		12.00nm		
CMB	55.77	70	eP	13 06.00	-0.4
SOD	56.28	340	iP	13 09.00	-0.7
LOE	56.53	255	eP	13 12.00	-0.1
PTI	57.11	61	P	13 16.40	0.2
CHG	57.16	259	ePc	13 17.20	0.7
	1.0s		29.75nm		5.3mb
CHTO	57.16	259	ePc	13 17.20	0.7
			pP	13 20.00	9kmX
GDH	57.18	13	eP	13 13.00	-3.1X
TNP	57.59	68	P	13 19.00	-0.6
	1.0s		8.17nm		4.7mb
GUN	58.64	276	P	13 26.40	-0.9
BW06	58.70	59	P	13 26.60	-0.8
	1.0s		5.00nm		4.6mb
NST	58.84	255	eP	13 32.70	4.4X
CLC	58.91	70	eP	13 28.00	-0.7
			e	14 05.00	
FRB	59.17	23	eP	13 27.00	-3.0X
DMN	59.33	277	P	13 31.50	-0.5
DAU	59.39	63	P	13 34.00	1.7
SBB	59.55	71	eP	13 44.00	10.8X
GSC	59.73	70	eP	13 38.00	3.6X
			e	14 24.00	
RSSD	60.68	55	P	13 40.00	-1.0
RSON	60.77	44	P	13 40.00	-1.2
	0.8s		10.02nm		5.0mb
TPC	61.01	71	eP	13 45.00	1.9
GLA	62.47	71	eP	13 58.00	5.0X
NUR	62.60	337	iP	13 52.00	-1.3
	0.7s		14.70nm		5.3mb
GOL	63.10	59	P	14 14.70	17.4X
UPP	64.80	340	iP	14 07.00	-0.8
			i	14 38.50	
NB2	64.97	344	P	14 07.50	-1.5
	0.7s		12.00nm		5.2mb
SNG	65.25	249	eP	14 13.20	2.0
HFS	65.36	342	eP	14 10.00	-1.4
	0.5s		19.40nm		5.5mb
	Z 17s		1.11um		5.1MszX
			LR	40 21.00	
ANMO	65.94	64	P	14 19.40	3.7X
	1.0s		5.00nm		4.7mb

ALQ	65.94	64	eP	14 16.00	0.3
	1.0s		5.75nm		4.7mb
SCH	67.32	27	eP	14 23.00	-1.0
MEO	70.38	59	e(P)	14 47.80	4.6X
HYB	70.90	274	iPc	14 46.70	0.1
	1.0s		35.00nm		5.4mb
			e	15 18.10	
EKA	72.57	350	Pd	14 58.20	2.2
	0.6s		13.90nm		5.2mb
POO	72.98	278	eP	14 58.00	-0.9
KRA	73.13	334	eP	14 59.40	0.1
			e	15 30.20	
			e	25 34.00	
KSP	73.36	337	iPd	15 00.70	0.1
			i	15 32.10	
CLL	73.71	339	iP	15 02.50	-0.1
	1.0s		19.00nm		5.1mb
			i	15 35.00	
SPC	73.83	333	e(P)	15 03.40	-0.2
			i	15 35.80	
BRG	73.90	338	iP	15 03.60	-0.1
	1.1s		21.00nm		5.1mb
			e	15 35.50	
WTS	74.33	343	eP	15 06.50	0.3
	0.9s		14.00nm		5.0mb
			e	15 39.00	
WB5	74.36	204	eP	15 06.00	-0.7
WRA	74.43	204	Pd	15 06.50	-0.6
	1.0s		4.80nm		4.5mb
GBA	74.48	272	Pd	15 07.40	-0.2
	0.8s		10.00nm		4.9mb
PRU	74.58	337	ePc	15 07.70	0.0
	Z 14s		2.50um		5.7MszX
	N 14s		2.00um		
			e	15 39.50	
MOX	74.64	339	eP	15 08.00	-0.1
VRI	74.80	328	ePd	15 08.50	-0.6
PSZ	75.08	333	eP	15 11.00	0.3
MLR	75.40	328	eP	15 13.00	0.4
ZST	75.59	335	iP	15 14.10	0.6
			i	15 46.30	
KHC	75.61	338	iPc	15 14.00	0.3
	1.0s		11.00nm		4.9mb
	Z 15s		28.00um		6.7MszX
	N 15s		1.80um		
	E 15s		1.00um		
			i	15 45.90	
SRO	75.61	334	iP	15 13.50	-0.1
			e	15 46.00	
GRF	75.62	339	eP	15 14.30	0.6
	1.1s		24.00nm		5.2mb
	Z 22s		0.30um		4.6Msz
			e	15 27.20	
			ec	15 45.60	
ENN	75.67	343	eP	15 14.50	0.6
	0.9s		15.00nm		5.1mb
			e	15 46.00	
BUD	75.72	333	eP	15 14.50	0.3
WET	75.76	338	eP	15 15.00	0.5
	1.0s		18.00nm		5.1mb
SLY	75.77	310	ePd	15 07.00	-7.7X
			e	15 46.00	
MEM	75.81	343	P	15 15.50	0.8
KAS	76.14	321	eP	15 17.50	0.7
MSL	76.25	312	ePd	15 17.50	0.0
			e	15 49.00	
KMR	76.48	337	eP	15 19.00	0.5
DOU	76.56	344	P	15 19.10	0.2
BZS	76.66	331	ePc	15 18.00	-1.5
CDF	77.67	341	eP	15 23.30	-2.0
	0.8s		5.35nm		4.7mb
BBTK	77.84	321	iPd	15 26.00	-0.4
SQTA	77.95	338	i(P)	15 27.80	0.9
	1.0s		16.10nm		5.1mb
			e	15 56.00	
			i	16 11.90	
			i	16 25.50	
PTJ	78.01	335	iPd	15 27.70	0.6
ZAG	78.08	335	iP	15 26.50	-0.9
BHD	78.19	309	ePd	15 26.00	-2.2
			e	16 01.00	
HAU	78.24	342	eP	15 27.30	-1.0
	0.8s		5.35nm		4.7mb
BSF	78.32	342	eP	15 27.70	-1.2
LOR	79.41	343	eP	15 34.60	-0.1
	0.8s		10.75nm		4.9mb
LPF	79.46	347	eP	15 35.60	0.7

11d 05h

	0.8s	10.75nm		4.9mb	
SSF	79.68	344 eP	15	36.20	0.1
	0.8s	4.05nm		4.5mb	
AVF	79.97	344 eP	15	38.00	0.3
	0.6s	7.20nm		4.8mb	
SKO	80.00	330 eP	15	38.30	0.4
		i	16	09.60	
SMF	80.02	343 eP	15	38.10	0.1
	0.8s	8.05nm		4.7mb	
VAY	80.23	328 eP	15	39.40	0.3
		i	16	11.30	
BGF	80.28	344 eP	15	39.80	0.4
	1.2s	23.80nm		5.1mb	
LPL	80.55	341 eP	15	41.80	0.7
	0.8s	11.40nm		4.9mb	
LPG	80.56	341 eP	15	42.10	0.8
	1.0s	21.00nm		5.1mb	
TCF	80.65	344 eP	15	41.90	0.5
	0.8s	6.70nm		4.7mb	
MAF	80.65	344 eP	15	42.30	0.9
	1.0s	24.00nm		5.2mb	
MFF	80.73	346 eP	15	42.60	0.9
	0.6s	5.40nm		4.7mb	
MME	80.93	338 P	15	45.90	2.8
OHR	80.99	330 eP	15	42.80	-0.4
	1.1s	470.00nm		6.4mb	X
		e	16	14.70	
BDI	81.08	338 P	15	45.50	1.8
LFK	81.44	318 eP	15	44.30	-1.4
SBF	81.98	340 eP	15	48.40	0.0
	0.8s	10.75nm		5.0mb	
CAF	82.00	344 eP	15	49.60	1.2
	1.2s	20.85nm		5.1mb	
MNS	82.14	336 P	15	49.30	0.1
LFF	82.21	345 eP	15	51.10	1.6
	1.0s	20.00nm		5.2mb	
LPO	82.38	344 eP	15	51.40	1.0
	1.2s	35.70nm		5.4mb	
LRG	82.60	341 eP	15	51.90	0.4
	0.8s	8.05nm		4.9mb	
LMR	82.68	340 eP	15	52.30	0.3
	0.8s	9.40nm		5.0mb	
PGF	82.88	338 eP	15	53.00	-0.2
	0.6s	7.20nm		5.0mb	
MGR	83.46	333 P	15	56.40	0.4
EPF	84.13	345 eP	16	01.40	1.9
	0.8s	6.70nm		4.9mb	
BLF	138.79	284 ePKP	22	57.00	1.7
	S.D. = 1.0	on 119 of 136 obs.			

---

* MAY 11, 1990 05h 03m 59.41± 0.60s
51.708 N ±12.4km 159.224 E ±10.5km
DEPTH = 10.0km (geophysicist)
5.3mb (4 obs.) 4.7Msz (3 obs.)
OFF EAST COAST OF KAMCHATKA (219)

MAT	21.27	233 (P)	08	48.00	0.0
	1.2s	176.56nm		5.3mb	
	Z 20s	3.55um		4.8Msz	
		eS	12	49.00	
SSE	34.64	248 P	10	50.50	-0.2
	Z 20s	0.90um		4.5Msz	
	N 13s	0.80um			
	E 13s	0.60um			
		i	13	25.00	
		sP	15	28.00	
		S	16	28.00	
		e	17	02.00	
		i	20	18.00	
SOD	56.02	340 iP	13	40.80	0.9
CHTO	57.10	258 P	13	48.90	0.6
GUN	58.51	276 P	13	58.10	-0.4
ISA	58.52	71 eP	13	58.00	-0.1
BW06	58.67	60 (P)	14	06.10	6.8X
DMN	59.20	276 P	14	03.40	0.2
MSU	60.17	65 P	14	10.00	0.2
NUR	62.34	337 iP	14	24.00	0.2
	0.7s	17.40nm		5.4mb	
NB2	64.72	343 P	14	39.70	0.2
	1.0s	22.10nm		5.3mb	
HFS	65.10	342 eP	14	41.80	-0.1
	0.5s	16.80nm		5.5mb	
MAIO	67.89	301 eP	14	56.00	-4.0X
		eS	24	20.00	
TUL	70.94	56 eP	15	37.30	18.6X
	1.1s	20.20nm			
	Z 21s	0.66um		4.9Msz	
		LR	39	00.00	
FVM	72.01	51 P	15	30.00	4.9X
VOY	78.17	336 e(P)	15	59.00	-1.1
VBY	78.31	335 e(P)	16	00.30	-0.5
KRI	127.24	292 iPKPd	23	18.80	12.9X
BUL	130.43	290 ePKP	23	28.80	16.9X
	S.D. = 0.6	on 13 of 19 obs.			

---

* MAY 11, 1990 05h 22m 24.16± 0.46s
7.553 N ± 8.1km 126.693 E ±11.4km
DEPTH = 30.7km (3 depth phases)
4.7mb (6 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	1.20	247 iPd-	22	45.00	0.1
MNI	6.34	197 eP	24	03.00	4.9X
TRT	20.64	223 ePd	27	11.90	7.9X
MTN	20.74	168 eP	27	05.00	0.0
SSE	23.98	348 eP	27	43.00	6.1X
LOE	26.23	294 eP	28	02.00	3.5X
WB5	28.29	165 eP	28	19.90	2.8
WRA	28.34	165 P	28	23.00	5.4X
	0.4s	2.10nm		4.2mb	
KMI	28.78	310 Pc	28	22.50	0.6
CHTO	29.19	295 (P)	28	26.20	0.8
		pP	28	34.30	28km
QIS	30.68	156 eP	28	37.90	-0.7
XAN	31.05	331 eP	28	49.00	7.3X
CD2	31.62	320 eP	28	46.80	0.0
BJI	33.69	345 eP	29	12.00	7.4X
LZH	35.25	327 P	29	23.60	5.3X
	1.0s	23.00nm		5.1mb	
		pP	29	33.50	34km
MRWA	37.98	195 eP	29	40.00	-1.1
FORR	38.21	178 eP	29	42.00	-0.9
	0.3s	15.00nm		5.3mb	
KLB	39.85	192 eP	29	56.00	-0.7
GTA	39.86	327 eP	30	03.80	6.9X
LSA	39.98	308 eP	30	01.00	2.6
	Z 15s	3.30um		5.3MszX	
	E 13s	1.00um			
MUN	40.56	194 eP	30	02.00	-0.6
GUN	43.54	303 P	30	26.80	-0.7
DMN	44.09	302 P	30	38.40	6.6X
BWA	46.54	155 eP	30	52.00	1.1
		e	31	01.20	31km
MAIO	67.21	306 eP	33	17.00	-1.0
FBA	81.31	25 e(P)	34	38.20	-0.5
INK	86.64	22 eP	35	06.00	0.3
MBC	88.25	13 eP	35	14.00	0.6
	1.0s	5.00nm		4.8mb	
HFS	94.64	332 eP	35	41.00	-2.2
	0.4s	1.10nm		4.6mb	
YKA	96.05	24 eP	35	48.70	-1.0
	0.7s	0.70nm		4.2mb	
LKO	129.52	289 PKP	41	42.06	9.3X
KIC	129.62	285 PKP	41	32.50	-0.4
TIC	129.82	285 PKP	41	33.00	-0.3
LIC	129.93	285 PKP	41	33.00	-0.5
ZOBO	163.12	122 PKP	42	27.90	1.8
	S.D. = 1.2	on 24 of 35 obs.			

% MAY 11, 1990 05h 45m 55.75± 2.27s
44.137 N ±25.9km 7.611 E ± 6.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

ENR	0.16	303 P	45	59.53	0.0
		S	46	04.04	
STV	0.23	298 P	46	00.66	-0.1
		S	46	04.86	
ROB	0.24	50 P	46	00.86	-0.1
		S	46	05.68	
FIN	0.44	80 P	46	04.76	0.1
PZZ	0.52	315 P	46	06.50	0.2
		S	46	15.22	
	S.D. = 0.2	on 5 of 5 obs.			

? MAY 11, 1990 05h 51m 24.65± 1.66s
51.577 N ±34.6km 159.246 E ±24.6km
DEPTH = 10.0km (geophysicist)
4.7mb (11 obs.)
OFF EAST COAST OF KAMCHATKA (219)

FBA	29.88	43 e(P)	57	34.00	-0.1
INK	35.40	36 eP	58	21.00	-1.0
MBC	38.64	22 eP	58	49.00	-0.2
LZH	41.82	271 eP	59	16.00	-0.1
	1.0s	16.00nm		4.7mb	
YKA	44.64	41 eP	59	38.00	-0.5
	0.6s	0.40nm		3.5mb	X
KMI	50.05	260 Pc	00	21.50	-0.1
CHG	57.09	259 eP	01	13.90	0.5
CHTO	57.09	259 ePc	01	13.90	0.5
		pP	01	16.70	9kmX
GUN	58.54	276 P	01	22.80	-1.1
NUR	62.47	337 eP	01	48.00	-1.8
APO	64.81	342 eP	02	03.60	-1.7
	0.8s	7.70nm		4.9mb	
NB2	64.85	343 P	02	04.60	-1.0
	0.8s	3.80nm		4.6mb	
EKA	72.46	350 Pd	02	54.90	2.3
	0.5s	2.50nm		4.6mb	
GBA	74.39	272 Pc	03	03.20	-1.2
	0.5s	23.10nm		5.5mb	
AVF	79.84	343 eP	03	35.80	1.4
	1.2s	8.95nm		4.6mb	
LPL	80.42	341 eP	03	41.00	3.2X
	1.0s	8.00nm		4.7mb	
LPG	80.44	341 eP	03	40.10	2.1
	1.0s	9.00nm		4.7mb	
MAF	80.53	344 eP	03	40.20	2.1
	1.0s	6.00nm		4.6mb	
CAF	81.88	344 eP	03	49.00	3.8X
	0.8s	5.35nm		4.7mb	
LPO	82.26	344 eP	03	50.50	3.4X
	0.8s	6.70nm		4.8mb	
	S.D. = 1.4	on 17 of 20 obs.			

? MAY 11, 1990 06h 33m 46.80± 1.12s
51.427 N ±24.3km 159.483 E ±21.4km
DEPTH = 10.0km (geophysicist)
4.5mb (4 obs.)
OFF EAST COAST OF KAMCHATKA (219)

MAT	21.24	234 (P)	38	36.00	1.0
	1.0s	9.00nm		4.1mb	
FBA	29.89	43 e(P)	39	57.00	0.7
INK	35.43	36 eP	40	45.00	0.6
MBC	38.73	22 eP	41	12.00	-0.1
CHTO	57.21	259 eP	43	37.80	1.4
		pP	43	40.80	10kmX
GUN	58.70	277 P	43	47.00	-0.2
DMN	59.40	277 P	43	50.20	-1.7
NB2	65.04	344 P	44	28.20	-0.7
	0.7s	2.60nm		4.5mb	
HFS	65.42	342 eP	44	30.30	-1.0
	0.6s	5.40nm		4.9mb	
EKA	72.63	350 Pd	45	18.60	2.8X
	0.5s	2.50nm		4.6mb	
KHC	75.68	338 eP	45	35.50	1.9
AIA	153.86	139 ePKP	53	36.10	-1.8
	S.D. = 1.4	on 11 of 12 obs.			

MAY 11, 1990 07h 04m 50.41± 0.51s
51.497 N ± 8.9km 159.282 E ± 9.2km
DEPTH = 10.0km (geophysicist)
4.8mb (16 obs.)
OFF EAST COAST OF KAMCHATKA (219)

NIIJ	20.23	233 eP	09	28.30	0.1
MDJ	20.90	262 eP	09	33.00	-2.1
MAT	21.18	233 iPc	09	38.10	0.1
	0.9s	37.82nm		4.8mb	
	Z 20s	0.35um		3.7MszX	
		eS	13	39.00	
CHJJ	21.18	231 eP	09	38.90	0.9
IIDJ	22.16	232 eP	09	57.70	9.8X
TSRJ	23.09	235 eP	09	58.20	1.2
CN2	23.89	265 P	10	03.80	-0.9
SNY	26.11	262 Pc	10	25.80	0.0
FBA	29.92	43 eP	11	00.20	0.0
TIA	33.50	260 Pd	11	31.20	-0.6
INK	35.45	36 eP	11	47.00	-1.2
		pP	12	08.00	88kmX
TIY	35.46	266 eP	11	49.00	0.2
	Z 14s	0.80um		4.6MszX	
	N 15s	0.60um			
MBC	38.71	22 eP	12	15.00	-0.5
XAN	40.00	264 P	12	26.00	-0.8
LZH	41.84	271 P	12	41.50	-0.6
	1.5s	33.00nm		4.8mb	
GTA	42.31	278 eP	12	45.60	-0.2

YKA 44.69 41 eP 13 03.10 -1.5
0.8s 0.80nm 3.7mb X
CD2 45.32 265 eP 13 10.10 -0.1
GYA 46.68 258 iPc 13 21.60 0.6
WMO 47.04 290 P 13 24.00 0.3
KMI 50.06 261 Pc 13 52.50 5.0X
DAG 52.00 359 iPd 14 00.00 -1.2
1.0s 10.00nm 4.7mb
CHG 57.10 259 eP 14 40.00 0.8
0.9s 13.03nm 5.0mb
CHTO 57.10 259 eP 14 39.70 0.5
pP 14 42.50 9kmX
GUN 58.57 276 P 14 49.20 -0.7
DMN 59.26 277 P 14 54.40 -0.2
NB2 64.94 343 P 15 30.70 -1.2
0.9s 6.90nm 4.8mb
HFS 65.32 342 eP 15 32.70 -1.5
0.9s 11.30nm 5.1mb
ALQ 65.99 64 e(P) 15 44.00 4.8X
HYB 70.83 274 ePc 16 08.50 -0.8
EKA 72.54 350 Pd 16 20.70 1.8
0.8s 6.60nm 4.8mb
KSP 73.31 337 eP 16 23.00 -0.5
CLL 73.66 339 eP 16 25.00 -0.5
1.0s 10.00nm 4.8mb
SPC 73.78 333 eP 16 26.80 0.4
WB5 74.35 204 eP 16 28.20 -1.6
GBA 74.42 272 Pd 16 30.10 -0.3
WRA 74.42 204 P 16 31.00 0.8
1.0s 2.30nm 4.2mb
PRU 74.53 337 eP 16 30.50 -0.1
MLR 75.35 328 eP 16 36.00 0.5
ZST 75.54 335 eP 16 37.30 0.9
KHC 75.56 338 P 16 37.30 0.7
1.0s 7.00nm 4.7mb
CDF 77.63 341 eP 16 48.20 0.0
HAU 78.20 342 eP 16 51.20 0.0
LOR 79.37 343 eP 16 57.50 -0.2
0.8s 5.35nm 4.6mb
AVF 79.93 343 eP 17 00.80 0.2
0.8s 6.05nm 4.6mb
SMF 79.98 343 eP 17 01.10 0.2
LPL 80.50 341 eP 17 04.70 0.7
0.8s 5.35nm 4.6mb
LPG 80.52 341 eP 17 05.00 0.8
1.1s 13.45nm 4.9mb
TCF 80.61 344 eP 17 04.60 0.3
MAF 80.62 344 eP 17 05.10 0.8
LSF 80.76 345 eP 17 05.50 0.4
CAF 81.96 344 eP 17 12.40 1.0
0.8s 5.35nm 4.7mb
LPO 82.34 344 eP 17 14.10 0.8
LMR 82.64 340 eP 17 17.10 2.2
PGF 82.84 338 eP 17 18.80 2.7X
1.0s 8.00nm 4.8mb
S.D. = 0.9 on 51 of 55 obs.

? MAY 11, 1990 07h 51m 16.30± 3.66s
36.988 N ±11.2km 13.853 W ±36.8km
DEPTH = 33.0km (normal)
NORTH ATLANTIC OCEAN (402)

EVAL 5.70 82 ePn 52 41.00 0.2
eSn 53 36.30
EPLA 6.82 61 ePn 52 56.60 -0.1
eSn 54 03.60
STS 7.16 33 ePn 53 02.00 0.7
eSn 54 11.00
EMON 8.14 36 ePn 53 14.50 -0.7
eSn 54 35.00
TIO 8.15 136 iPn 53 15.40 0.0
iSn 54 40.00
S.D. = 0.7 on 5 of 5 obs.

& MAY 11, 1990 08h 28m 50.47s
62.099 N 150.314 W
DEPTH = 8.1km
CENTRAL ALASKA (1)
<AGS-P>.

CUT 0.31 4 iP 28 56.83 0.1
eS 29 01.91
PWA 0.49 155 iP 29 00.83 0.4
iS 29 08.14
SKT 0.59 259 iP 29 02.17 -0.1
iS 29 10.66
SUA 0.67 198 iP 29 04.17 0.2
eS 29 14.71
GHO 0.73 116 iP 29 04.26 -0.9
eS 29 15.11
PLRM 0.76 132 iP 29 04.99 -0.4
iS 29 15.23
PMS 0.93 157 eP 29 07.95 -0.5
eS 29 20.84
HUR 0.94 19 eP 29 07.34 -1.2
eS 29 19.45
SML 0.98 106 iP 29 08.49 -0.8
eS 29 21.88
CRP 1.21 227 eP 29 13.44 0.1
eS 29 30.18
SPU 1.24 223 eP 29 13.00 -0.7
iS 29 30.01
RND 1.47 26 eP 29 16.49 -0.9
iS 29 35.58
KTH 1.49 349 eP 29 17.47 -0.1
SLKM 1.60 178 eP 29 19.15 0.1
NCA 1.65 92 eP 29 19.65 -0.2
RDT 1.83 214 eP 29 23.22 0.7
TOA 1.95 88 eP 29 24.72 0.5
GLI 1.97 127 eP 29 25.13 0.7
RED 2.06 216 eP 29 26.95 1.1
VZW 2.08 118 eP 29 27.14 1.0
VLZ 2.14 115 eP 29 27.35 0.5
KLU 2.17 104 iP 29 27.69 0.2
PAX 2.41 67 eP 29 32.33 1.4
23 obs. associated

? MAY 11, 1990 10h 33m 18.02± 0.92s
37.011 N ± 8.2km 22.775 E ± 8.4km
DEPTH = 5.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.0 (ATH).

VLI 0.32 156 iPg 33 24.00 -0.5
ITM 0.70 284 ePg 33 32.00 0.0
eSg 33 42.00
ATH 1.22 38 Pb 33 41.00 -0.1
VAM 1.97 144 ePn 33 53.00 0.6
VLS 2.09 305 ePg 33 59.70 5.5X
S.D. = 0.7 on 4 of 5 obs.

• MAY 11, 1990 10h 36m 22.22± 2.70s
3.860 S ±16.6km 141.195 E ±13.7km
DEPTH = 68.8 ± 31.4 km
4.9mb (2 obs.)
PAPUA NEW GUINEA (202)

MNDI 3.35 133 eP 37 15.50 2.0
LAT 6.41 116 eP 37 55.50 -0.7
PMG 8.09 133 eP 38 18.00 -1.4
MTN 13.37 227 eP 39 30.00 -0.5
eS 41 55.00
QIS 16.67 185 eP 40 11.00 -1.9
eS 43 10.00
WB5 17.26 202 eP 40 21.20 0.9
eS 43 30.00
WRA 17.33 202 Pd 40 22.10 1.0
0.4s 3.00nm 3.9mb
BRS 25.88 156 eP 41 50.00 0.5
SSE 39.66 333 eP 43 44.00 -5.1X
1.0s 225.00nm 6.0mb
Z 10s 5.20um 5.7MszX
CHTO 47.30 300 e(P) 44 49.80 -1.3
GUN 61.88 304 P 46 37.80 0.3
DMN 62.41 304 P 46 41.90 1.0
S.D. = 1.5 on 11 of 12 obs.

• MAY 11, 1990 12h 42m 41.31± 1.01s
36.557 N ±15.2km 27.333 E ± 8.3km
DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)

YER 0.96 53 ePn 42 58.00 -0.5
SMG 1.22 341 eP 43 03.00 1.0
APE 1.53 290 eP 43 05.00 -1.7
eS 43 27.50
KSL 1.87 103 eP 43 10.30 -1.2
ELL 2.08 84 ePn 43 16.00 1.3
VAM 2.79 247 eP 43 25.70 1.1
S.D. = 1.7 on 6 of 6 obs.

MAY 11, 1990 13h 10m 20.29± 0.08s
41.820 N ± 2.0km 130.858 E ± 1.9km
DEPTH = 578.5km (geophysicist)
5.7mb (99 obs.)
NORTH KOREA (659)
mb 6.3 (BRK), 6.2 (PAS). Two events about 2.2 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=180 Dip=76 Slip= 90
NP2: 360 14 90
Principal Axes:
T Plg=59 Azm= 90
P 31 270
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 5 Focal mech. F
Energy 3.2±1.2•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 584 No. of sta: 17
Moment Tensor; Scale 10••18 Nm
Mrr= 1.21 Mtt=-0.01
Mff=-1.19 Mrt= 0.27
Mrf=-2.92 Mtf=-0.03
Principal axes:
T Val= 3.30 Plg=53 Azm= 70
N -0.06 15 182
P -3.24 32 282
Best Double Couple:Mo=3.3•10••18
NP1:Strike= 54 Dip=19 Slip= 144
NP2: 179 79 74
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 13:10:27.1 0.2
Lat 41.49N 0.02 Lon 130.42E 0.04
Dep 586.0 1.9 Half-duration 5.0
Moment Tensor; Scale 10••18 Nm
Mrr= 1.26 0.04 Mtt=-0.07 0.06
Mff=-1.19 0.07 Mrt= 0.39 0.07
Mrf=-1.95 0.06 Mtf=-1.23 0.06
Principal Axes:
T Val= 2.68 Plg=52 Azm= 56
N -0.08 28 189
P -2.60 23 292
Best Double Couple:Mo=2.6•10••18
NP1:Strike= 64 Dip=33 Slip= 149
NP2: 180 74 61

MDJ 2.94 342 Pc 11 39.00 1.2
8.0s ********nm
S 12 38.00
ScS 23 53.00
CN2 4.44 298 iPd 11 48.00 0.0
4.0s ********nm
iS 12 57.00
PcS 21 11.00
ScS 23 50.00
SNY 5.44 273 iPc 11 58.00 2.0
1.4s 2100.00nm 5.9mb
ScS 23 52.00
YONJ 6.93 162 P 12 09.40 0.1
SHK 7.42 168 iPd 12 13.10 -0.8
0.6s 1600.00nm 6.3mb
S 13 46.20
TSRJ 7.44 146 iPd 12 13.40 -0.7
S 13 45.40
MTMJ 7.51 132 iPd 12 13.50 -1.4
MRRJ 7.62 82 iPd 12 13.10 -2.7
eS 13 44.00
DL2 7.62 251 iPc 12 17.00 1.2
4.0s ********nm 6.4mb X
eS 13 53.00
iScS 23 57.00
SHNJ 7.68 178 P 12 16.70 0.3
eS 13 52.70
MAJO 7.77 130 iPd 12 14.95 -2.3
MAT 7.77 130 iPd- 12 15.00 -2.3
iS 13 48.60
NIIJ 7.78 123 iPd 12 14.90 -2.4
S 13 49.00
SAP 7.85 77 iP 12 16.10 -1.9
iS 13 48.40

11d 13h

HIA	10.77	317	iPd	12	48.08	1.2		3.5s	1800.00nm		6.1mb X			epP	17	30.95		MAIO	0.6s	463.90nm		6.0mb
BJI	11.25	266	eP	12	52.80	1.3								iS	20	28.00			0.7s	71.47nm		5.1mb
			esP	14	44.00									eScP	21	16.88				eS	25	46.00	
			eS	14	52.00									ScP	21	18.00		MBC	54.24	16 iPc	18	53.40	-0.5
			eScP	20	30.00									ScS	25	16.00			0.4s	211.80nm		5.8mb	
			eScS	24	03.00													MTN	54.39	180 eP	18	54.00	-1.5
TIA	12.06	247	Pd	13	00.70	1.1	LSA	34.13	262 iP	16	20.00	0.3						KBS	54.42	348 iP	18	55.20	0.0
	4.0s	6500.00nm				6.3mb X				PP	18	04.00						YKU	54.86	39 iPc	18	59.30	0.9
			sP	14	59.50					S	21	08.00						HYT	55.35	37 Pc	19	02.60	0.6
			S	15	11.00		LOE	34.82	234 iPd	16	24.50	-0.5						KEV	55.91	336 iPd	19	05.20	-0.4
			ScP	20	29.80		CHG	35.52	240 iPd	16	31.60	0.8							0.7s	25.90nm		4.7mb X	
			ScS	24	07.00					e	21	28.00								e	21	16.00	739kmX
SSE	13.22	219	Pc	13	11.00	-0.1				eS	24	12.00								e	22	52.00	
	3.0s	2900.00nm				6.1mb	SHL	35.91	256 iP	16	34.50	0.4								e	26	08.00	
NJ2	13.67	228	iPd	13	16.00	0.5				iS	21	32.00								e	27	10.00	
	0.6s	100.00nm				5.3mb	ADK	36.52	56 iPc	16	37.40	-1.2								e	27	50.00	
			S	15	42.50			0.7s	914.30nm		6.5mb									e	29	40.00	
			iScP	20	32.60		NST	37.13	235 iPd	16	49.00	5.1X								e	31	48.00	
			ScS	24	09.60		KKM	37.93	204 ePc	16	51.50	0.9								e	33	06.00	
HHC	14.53	273	iPd	13	26.20	2.1		1.0s	110.80nm		5.4mb												
	1.2s	210.00nm				5.4mb				e	18	30.00	566kmX					KOD	56.22	252 iPc	19	08.30	-0.4
			sP	15	31.00		GUN	38.99	264 P		17	00.40	0.9						0.7s	242.47nm		5.6mb	
			S	15	57.00		TSM	39.14	200 ePc		17	01.00	0.7					SOD	57.22	334 iP	19	13.40	-1.1
TIY	14.75	260	iPd	13	28.40	2.2		1.0s	480.60nm		6.0mb							KTK1	57.44	336 iPd	19	15.15	-0.9
	6.0s	********	nm			6.6mb X	DMN	39.73	264 P		17	06.10	0.7					HNR	57.57	145 eP	19	16.00	-1.4
			sP	15	35.50		KSH	41.12	286 P		17	19.00	2.9X							e	26	30.00	
			iS	16	03.00			5.0s	5800.00nm		6.4mb X							SIT	58.05	40 iPc	19	21.20	0.9
			ScS	24	10.00					epP	19	03.00	599kmX					TRO	58.36	338 eP	19	21.26	-1.0
BTO	15.73	272	iPd	13	37.50	1.7				S	22	54.00						SUF	59.86	329 iP	19	31.30	-1.0
	6.0s	********	nm			6.7mb X	SNG	43.68	226 iPd		17	37.50	1.2					DAG	60.14	352 iPc	19	32.40	-1.6
			sP	15	42.00			1.2s	675.00nm		6.1mb								0.5s	306.34nm		5.8mb	
			iS	16	18.00					e	19	11.30	504kmX					TEH	60.17	293 ePd	19	37.00	2.1
WHN	17.41	235	Pd	13	52.20	0.4				e	19	21.00						LOF	60.83	338 eP	19	37.27	-1.3
	4.0s	8300.00nm				6.6mb X				e	22	06.70						WB5	61.47	176 iPc	19	41.80	-1.4
			sP	16	08.00					eS	23	29.00								eS	27	18.00	
			iS	16	42.00		NDI	45.05	271 iPd		17	47.00	0.2					WRA	61.53	176 P	19	41.00	-2.6
ANP	18.31	208	eP	14	06.00	5.4X		0.6s	31.33nm		5.0mb								0.7s	174.00nm		5.5mb	
			eS	16	24.80					iSS	18	48.00						NUR	61.70	327 iP	19	43.00	-1.3
TATO	18.51	208	eP	14	04.09	1.8				PPP	19	36.00							0.8s	337.40nm		5.8mb	
XAN	18.94	253	iPd	14	06.80	0.5				iS	20	39.00								e	22	04.00	780kmX
	6.0s	8100.00nm				6.5mb X				i	23	43.50								e	23	56.00	
			iS	17	11.00		AAI	45.36	184 ePc		17	49.50	0.3								e	27	20.00	
QZH	19.67	215	P	14	12.00	-1.0	BRW	45.44	26 iPc		17	49.80	0.6								e	28	32.00	
	6.0s	1800.00nm				5.9mb X	SDN	45.52	48 iPc		17	47.30	-2.7								e	30	44.00	
			sP	16	38.00		IPM	45.65	224 ePd		17	51.90	0.4								e	31	30.00	
LZH	21.73	264	iPd	14	33.00	1.0		0.8s	350.70nm		5.9mb										e	35	06.00	
	5.0s	********	nm			6.7mb X				e	19	35.80	575kmX					KIP	62.19	85 iPc	19	47.75	-0.2
			sP	17	04.00					e	22	14.80								i	19	49.74	7kmX
			iS	17	54.00		TTA	46.38	37 iPc		17	56.70	0.1								isPd	22	44.21	
			ScP	20	54.00		KGM	46.72	219 ePd		18	00.10	0.5					HON	62.26	85 P	19	47.70	-0.7
			ScS	24	37.50			0.7s	303.80nm		5.9mb							TAB	62.35	297 eP-	19	49.00	0.0
GTA	23.63	275	iPd	14	49.90	0.8	SVW	46.87	40 iPc		18	01.20	0.8								i	21	44.00	578kmX
	6.0s	7900.00nm				6.5mb X	IMA	46.92	33 iPc		18	00.90	0.1								i	24	00.00	
			sP	17	29.00					ipP	19	45.40	574kmX								i	27	34.00	
			S	18	24.00		KDC	49.21	44 iPc		18	17.10	-0.7					QIS	62.59	171 iPc	19	48.90	-1.4
			ScP	20	54.20					PcP	19	29.80							0.6s	97.00nm		5.4mb	
			ScS	24	40.70		PWA	49.44	38 iPc		18	18.50	-1.0								e	21	46.00	591kmX
GZH	23.74	224	Pc	14	49.80	-0.1	COL	49.55	34 iPc		18	20.00	-0.3								e	27	31.00	
			sP	17	21.00					ic	18	21.93						CTA	63.22	164 iPc	19	53.10	-1.3
HKC	23.97	221	iP	14	52.00	-0.1				epPc	20	06.22	574kmX						1.0s	177.00nm		5.5mb	
			iS	17	29.00		FBA	49.55	34 iPc		18	20.50	0.2								iPP	21	53.00	
CD2	24.29	252	iPd	14	54.00	-0.9	PMS	49.70	39 iPc		18	20.80	-0.6								i	22	48.00	
	5.0s	4400.00nm				6.3mb X	RAB	49.74	152 iPc		18	22.00	-0.2								iS	27	40.00	
			isP	17	37.50			0.5s	957.75nm		6.6mb							CTAO	63.22	164 iPc	19	52.99	-1.4
			iS	18	31.50					iS	24	48.00							1.0s	177.00nm		5.5mb	
GYA	25.10	240	Pd	15	01.20	-0.9	PMR	49.80	38 iPc		18	21.40	-0.7								iPP	21	53.00	
	1.2s	320.00nm				5.8mb		1.3s	2735.80nm		6.6mb										i	22	48.00	
			sP	17	40.00					epP	20	08.80	582kmX								iS	27	40.00	
			PcP	18	15.00		HYB	50.66	258 ePd		18	28.70	-0.3					MBL	63.49	192 eP	19	55.00	-1.1
			S	18	43.00			1.0s	270.00nm		5.7mb								0.5s	43.00nm		5.2mb	
			ScS	24	47.00					e	19	35.50	317kmX					JNW	63.74	346 iP	19	58.40	1.2
BAG	26.82	202	eP	15	16.00	-1.3				e	20	16.50						SLY	64.26	296 iPc	20	00.50	-0.5
KMI	28.59	243	iPd	15	32.58	-0.1				eS	25	02.00								i	20	06.50	19kmX
	4.0s	5200.00nm				6.5mb X				e	27	13.00								iPP	21	58.00	
			iS	19	40.00		TOA	51.00	37 iPc		18	31.70	0.6								iPPP	23	36.50	
QIZ	28.91	225	Pd	15	35.00	-0.2	MID	51.77	40 iPc		18	36.70	0.2								iS	27	52.50	
	7.0s	1600.00nm				5.8mb X	TRT	52.03	203 ePd		18	38.00	-0.8								iPS	28	02.00	
			sP	18	13.00		KUPT	52.14	189 eP		18	50.00	10.4X								iScS	29	34.50	
GUMO	30.65	153	eP	15	49.20	-0.9		0.6s	330.20nm												iSS	31	21.50	
	1.1s	970.55nm				6.3mb				e(S)	25	26.00						RGS	65.26	334 iPc	20	08.20	1.4
PJG	30.65	153	eP	15	49.30	-0.8	PMG	53.13	160 eP		18	45.50	-1.2					MSL	65.39	298 ePd	20	07.00	-1.1
			e	17	20.00			0.6s	60.00nm		5.1mb									eS	28	05.00	
GUA	30.71	152	eP	15	49.80	-0.8	DWY	53.26	33 Pc		18	46.40	-0.8								e	28	43.00	
	0.8s	370.15nm				6.1mb	INK	53.88	27 iPc		18	50.70	-0.8					NANU	65.61	196 eP	20	09.00	-0.3
			eS	20	12.00			0.4s	132.00nm		5.6mb								0.4s	16.00nm		4.8mb	
SMY	30.86	54	iPc	15	51.90	0.4				pP	19	47.00	256kmX					PFH	65.64	85 P	20	09.50	-0.3
WMQ	31.46	288	iPd	15	58.25	1.5	GBA	53.96	255 Pd		18	51.70	-0.9					HFS	66.15	331 eP	20	11.00	-1.4

	0.4s	258.90nm		6.1mb		
BHD	66.34	294	eP	20	13.50	-0.4
			ePP	22	12.50	
			eS	28	16.50	
			e	29	12.00	
			eScS	29	41.00	
DHR	66.36	285	iPd	20	13.40	-0.7
NB2	66.40	333	P	20	12.70	-1.2
MOL	66.51	335	iPd	20	14.08	-0.4
KVT	67.20	305	iP	20	19.20	0.0
WARB	67.77	184	iPc	20	22.60	0.1
HYA	67.98	335	eP	20	23.47	0.0
KAS	68.41	307	iPd	20	27.20	0.7
SUE	68.52	335	eP	20	26.76	0.1
PVC	68.63	142	iPc	20	28.90	1.1
ODD1	68.78	333	eP	20	27.98	-0.4
ASK	68.82	334	eP	20	28.71	0.2
BER	68.85	334	iPd	20	28.75	0.1
PPE	68.95	314	ePc	20	28.00	-1.6
MCW	69.00	43	P	20	30.00	0.1
MEKA	69.04	192	eP	20	29.80	-0.3
	0.5s	36.00nm		5.2mb		
BLS1	69.10	333	iPd	20	30.96	0.6
PTT	69.16	315	eP	20	31.00	0.2
QLP	69.17	167	iPc	20	31.30	0.4
GDH	69.20	2	iPd	20	30.00	-0.6
	1.0s	400.00nm		5.9mb		
			e	23	10.00	
			i	28	50.00	
CFR	69.30	312	eP	20	31.00	-0.6
VRI	69.65	314	ePd	20	32.50	-1.2
			ed	28	00.00	
			ec	48	23.00	
TLB	69.75	312	iPd	20	33.50	-0.7
GMW	69.76	44	P	20	35.00	0.7
COP	69.76	328	iPc	20	34.80	0.7
	0.8s	388.06nm		6.0mb		
			i	20	36.00	4kmX
			i	20	44.00	
KMY	69.77	334	iPd	20	34.75	0.6
RYD	69.86	285	iPd	20	34.20	-1.1
			iS	28	58.50	
8BTK	69.95	306	iPc	20	36.00	0.3
RMQ	69.95	163	iPc	20	36.10	0.5
	0.6s	232.00nm		5.9mb		
			e	48	31.00	
MJMA	70.11	287	iPd	20	36.00	-0.8
AKU	70.15	347	iPc	20	38.00	1.7
	1.0s	136.00nm		5.4mb		
			i	23	14.80	
PNT	70.20	41	iPc	20	37.10	0.2
BMW	70.22	45	P	20	37.90	0.8
PSN	70.23	311	iPd	20	37.00	-0.1
MLR	70.32	314	iPd	20	37.00	-0.8
RMW	70.32	43	P	20	38.50	0.8
KRA	70.38	320	iPd	20	37.40	-0.4
	0.7s	314.00nm		6.0mb		
Z	14s	1.80um		5.5MszX		
E	14s	2.50um				
			i	20	38.80	5kmX
			i	22	37.70	
			iS	29	03.00	
EDM	70.41	35	iPc	20	37.90	-0.2
LON	70.78	44	iPc	20	40.45	0.1
			epPc	22	38.98	574kmX
			esPd	23	39.89	
SPC	70.81	319	iPd	20	40.30	-0.3
			i	22	39.30	577kmX
			i	23	18.60	
CMP	70.95	314	ePc	20	44.00	2.7
TNR	71.11	315	ePd	20	43.00	0.8
GPA	71.14	307	eP	20	31.60	-10.9X
RAC	71.18	321	eP	20	41.00	-1.5
			i	20	44.00	10kmX
			eS	29	15.00	
HRT	71.19	308	iP	20	42.60	-0.2
QASM	71.22	288	iPd	20	42.70	-0.5
ISK	71.39	309	iP	20	43.60	-0.3
YLV	71.52	308	iP	20	43.10	-1.7
KSP	71.54	323	iPd	20	44.50	-0.1
	1.2s	325.00nm		5.7mb		
			i	22	43.50	575kmX
			iPP	23	32.00	
			iS	29	15.00	
DMK	71.66	310	iP	20	45.20	-0.3
CTT	71.70	309	iP	20	45.10	-0.6
DRA	71.75	314	eP	20	47.00	1.1
BRN	71.78	325	eP	20	46.50	0.6
BRS	71.79	160	iPd	20	47.00	0.8
			i	20	55.10	26kmX
			e	21	09.00	
			e	22	42.50	
JMB	71.91	311	iPd	20	48.00	1.1
MRWA	72.00	194	eP	20	47.20	-0.2
	0.7s	93.00nm		5.4mb		
ALT	72.04	306	eP	20	46.00	-1.8
PVL	72.12	312	iPd	20	51.00	2.9X
NEW	72.13	41	P	20	48.00	-0.1
HRI	72.13	299	iPd	20	48.50	0.0
VGB	72.14	45	P	20	49.00	0.8
FAM	72.18	301	eP	20	47.00	-1.5
REY	72.21	348	iPc	20	50.20	2.0
LFK	72.30	302	iP	20	48.80	-0.6
FORR	72.35	182	eP	20	48.70	-0.6
	0.3s	71.00nm		5.7mb		
BZS	72.52	316	eP	20	49.50	-0.8
EDC	72.55	309	iP	20	50.60	0.0
BRG	72.57	324	iPd	20	50.40	-0.1
	1.4s	300.00nm		5.6mb		
			i	21	26.40	146kmX
			i	21	40.50	
			i	22	50.00	
			i	23	32.30	
			i	23	44.50	
			i	29	28.00	
			i	29	56.00	
			e	33	00.00	
			e	34	08.00	
			e	48	17.20	
			e	48	27.00	
BUD	72.57	319	iPd	20	50.80	0.2
CSS	72.63	301	eP	20	50.50	-0.7
CLL	72.67	324	iPd	20	50.70	-0.3
	1.6s	430.00nm		5.7mb		
			ipP	22	51.70	584kmX
			eS	29	27.00	
			(SKS)	29	56.00	
			P'P'	48	17.00	
SRO	72.69	319	iPd	20	51.40	0.2
			i(PP)	22	51.20	
			i	23	46.40	
			e(S)	29	34.30	
BCK	72.77	305	iP	20	51.00	-1.0
DIM	72.77	311	iPd	20	52.00	0.2
KGT	72.80	309	iP	20	52.60	0.6
KHL	72.86	306	eP	20	51.90	-0.6
COOL	72.89	189	eP	20	52.00	-0.5
PRU	72.93	323	Pd	20	52.70	0.1
	1.5s	234.40nm		5.5mb		
Z	18s	1.90um		5.4Msz		
N	16s	0.50um				
E	14s	1.50um				
			e	20	58.50	
			pP	22	54.00	585kmX
			PP	23	46.00	
			S	29	32.00	
			SS	34	15.00	
ZST	73.01	320	iPd	20	53.60	0.6
			i	21	28.50	141kmX
			i	22	54.00	
			i	23	48.90	
KDZ	73.10	311	iPc	20	54.00	0.3
PLD	73.20	312	eP	20	54.00	-0.3
PGB	73.21	312	iPd	20	55.00	0.6
ALN	73.24	310	ePd	20	54.00	-0.5
BAL	73.24	193	eP	20	54.50	0.1
	0.6s	49.00nm		5.2mb		
PPCY	73.31	302	eP	20	54.00	-1.0
VKA	73.33	321	eP	20	53.00	-1.9
	2.0s	567.00nm		5.8mb		
			i	20	55.50	8kmX
			i	20	56.00	
			i	20	57.30	
			i	22	57.80	
			i	23	40.80	
			i	23	50.80	
			e	29	37.00	
DSI	73.43	298	eP	20	56.00	0.3
RZN	73.47	311	iPd	20	57.00	1.0
FHC	73.50	50	iPc	20	57.30	1.3
	0.7s	1105.00nm		6.5mb		
			epP	22	59.40	588kmX
SOP	73.63	320	iPd	20	57.80	1.2
ELL	73.64	305	iP	20	56.40	-0.6
FRB	73.65	9	eP	20	56.00	-0.4
BEO	73.67	316	eP	20	56.00	-0.8
VTS	73.71	313	iPd	20	57.00	-0.3
MOX	73.75	325	iPd	20	57.00	-0.2
	1.7s	349.00nm		5.6mb		
Z	12s	2.60um		5.7MszX		
			epP	22	58.00	581kmX
			iS	29	41.00	
EZN	73.78	309	iP	20	57.10	-0.4
FFC	73.79	29	iPc	20	57.20	-0.1
	0.6s	166.00nm		5.7mb		
HOF	73.88	324	eP	20	58.00	0.0
	1.5s	365.00nm		5.7mb		
KHC	73.99	323	iPd	20	59.00	0.4
	1.3s	211.00nm		5.5mb		
Z	14s	1.50um		5.4MszX		
N	14s	1.00um				
E	14s	1.20um				
			e	22	01.00	266kmX
			S	29	44.00	
KLB	74.04	192	eP	20	59.00	0.1
	0.6s	50.00nm		5.2mb		
SVA	74.10	133	eP	21	01.30	1.9
WIT	74.16	329	eP	21	01.00	1.6
IZM	74.17	307	eP	20	58.60	-1.2
CMS	74.24	167	iPc	21	01.00	1.0
	1.0s	258.00nm		5.7mb		
KSL	74.24	304	iPc	20	59.80	-0.4
WET	74.29	323	iPd	21	00.60	0.3
	1.3s	294.00nm		5.6mb		
PRNI	74.46	297	ePd	21	02.00	0.5
WDC	74.47	49	iPc	21	01.80	0.4
			ipP	23	02.70	578kmX
			ePP	23	56.40	
SRS	74.48	312	ePd	21	00.90	-0.5
KMR	74.51	322	iP-	21	01.80	0.3
			ipP	23	05.00	592kmX
			isP	23	46.10	
			iPP	24	00.60	
			e(S)	29	51.00	
COO	74.61	161	iPc	21	02.90	0.8
GRF	74.63	324	iPd	21	02.90	0.8
	1.3s	295.00nm		5.6mb		
Z	19s	1.00um		5.1Msz		
			id	21	04.60	
			ec	21	12.40	
			epP	23	03.70	577kmX
			e	23	37.10	
			esPd	24	04.00	
MUN	74.66	193	eP	21	02.00	-0.3
AYN	74.72	295	iPd	21	03.00	0.1
WTS	74.73	328	eP	21	02.50	0.0
	1.0s	154.00nm		5.5mb		
			e	23	46.50	
OUR	74.79	311	ePd	21	02.60	-0.5
SOH	74.81	311	ePd	21	02.40	-0.9
SMG	74.87	307	eP	21	03.00	-0.6
MBH	74.90	296	iPd	21	04.50	0.6
VAY	74.91	312	iPd	21	03.70	-0.1
	1.3s	700.00nm		6.0mb		
			i	21	09.60	19kmX
LTCM	74.95	49	P	21	04.00	0.0
SKO	75.09	313	iPd	21	05.40	0.6
	1.5s	521.00nm		5.8mb		
			ipP	21	17.50	41kmX
			i	21	33.40	
			i	21	40.50	
			i	23	06.60	
			i	24	07.10	
			i	29	57.00	
			i	29	58.00	
			i	30	20.00	
			i	30	23.00	
			i	30	27.00	
			i	30	30.00	
			iSP	30	34.00	
			i	30	46.50	
HOL	75.11	296	iPd	21	05.30	0.3
MIN	75.15	49	iPc	21	05.30	0.0
			epP	23	06.20	577kmX
			ePP	23	57.70	
THE	75.16	311	ePd	21	05.90	0.8
PTJ	75.18	319	eP	21	04.50	-0.8
ZAG	75.23	319	iP	21	05.00	-0.4
PAIG	75.23	311	ePd	21	05.00	-0.5
PLE	75.25	315	eP	21	06.40	0.6
GRG	75.25	312	ePd	21	05.10	-0.6

11d 13h

DBN	75.29	329	eP	21	07.00	1.4			0.5s	211.27nm		5.8mb		TNP	79.18	48	P	21	28.20	1.2
			e	23	09.00	583kmX	OGA	76.81	322	iPd	21	14.50	0.1	EMS	79.26	324	ePd	21	27.20	-0.1
			iS	29	58.00			1.5s	378.00nm			5.6mb		AZI	79.27	318	P	21	28.00	0.9
IVA	75.30	315	eP	21	06.50	0.5	KOT	76.82	298	eP	21	14.50	0.1	SDI	79.29	317	P	21	27.30	0.0
BHG	75.33	322	iPd	21	06.90	0.9	HVAR	76.88	317	iP	21	13.60	-0.9	BFD	79.34	171	eP	21	27.50	0.2
	1.6s	657.00nm				5.9mb	SNF	76.89	328	iPc	21	13.73	-0.6	SGO	79.36	316	P	21	28.10	0.5
TNS	75.42	326	ePd	21	06.70	0.2	MEMT	76.98	39	ePc	21	16.20	0.9	PII	79.41	320	P	21	27.40	-0.4
NWAO	75.43	192	iPc	21	06.70	0.2	DOU	77.09	328	Pc	21	15.40	-0.1	BSS	79.45	316	P	21	28.10	0.0
PVY	75.45	315	eP	21	07.00	0.1				pP	23	21.00	600kmX	TDS	79.47	314	P	21	29.00	0.8
BADA	75.61	295	iPd	21	08.10	0.3				PP	24	27.00		MGR	79.54	315	P	21	28.20	-0.4
NWRM	75.69	51	P	21	08.00	-0.1				pPP	26	11.00		BCH	79.56	52	P	21	29.70	0.7
FUR	75.73	323	iPd	21	09.00	0.8				S	30	16.00					pP	23	33.00	581kmX
	1.5s	536.00nm				5.8mb				sS	33	57.00		LOR	79.63	326	iPd	21	28.70	-0.2
TOD	75.73	325	eP	21	08.37	0.2	CTI	77.14	321	P	21	14.80	-1.2		1.4s	374.40nm				5.6mb
ORV	75.75	49	iPc	21	08.40	0.0	GCC	77.17	52	iPc	21	16.40	0.2	LSD	79.63	323	P	21	29.90	0.6
			epP	23	11.00	585kmX				epP	23	20.00	588kmX	PCP	79.71	322	P	21	28.67	-0.8
			ePP	24	12.50		HLW	77.19	299	eP	21	16.50	0.1	BW06	79.76	41	P	21	30.00	0.0
			eS	30	08.00					e	23	18.00	575kmX	LPL	79.77	324	iPd	21	30.40	0.4
HRY	75.76	39	iPc	21	09.40	0.9				i	24	20.50		LPG	79.78	324	iPd	21	30.60	0.5
LJU	75.77	320	ePd	21	08.00	-0.4				i	24	26.00			1.2s	441.65nm				5.8mb
			epP	23	09.50	579kmX				e	26	14.20		LBF	79.80	326	iPd	21	29.60	-0.3
			eS	30	00.00					eS	30	17.00		RDP	79.81	318	P	21	30.20	0.2
			esS	33	37.00		ARN	77.23	51	P	21	17.00	0.4	BLP	79.81	53	P	21	30.00	-0.1
LIT	75.79	311	ePd	21	07.70	-1.0				pP	23	20.00	584kmX	RSP	79.82	323	P	21	29.80	-0.3
VBY	75.81	319	iPd	21	08.90	0.3	SLE	77.27	324	ePd	21	16.00	-0.6	RSON	79.85	27	P	21	28.80	-1.2
NKY	75.82	315	eP	21	08.60	-0.3	SAX	77.28	323	ePd	21	16.90	-0.1		1.0s	515.18nm				5.9mb
NEO	75.91	310	eP	21	08.00	-1.4	CDF	77.30	325	Pd	21	17.00	0.2	CKI	79.92	322	P	21	29.60	-0.9
FNA	75.94	312	ePd	21	08.40	-1.1		1.3s	169.25nm			5.3mb		GRC	79.93	327	P	21	30.62	0.2
TTG	75.95	315	eP	21	09.30	-0.1	OSS	77.35	323	ePd	21	17.30	0.1	SSF	79.94	326	iPd	21	30.60	0.1
			eS	30	20.00		IGT	77.38	312	ePd	21	16.30	-1.0	SYP	80.08	52	iP+	21	32.00	0.3
BRY	75.99	316	eP	21	09.50	-0.4	FEL	77.39	325	eP	21	17.17	-0.2				e	22	36.00	270kmX
OHR	76.03	313	iPd	21	09.80	-0.2	CMB	77.42	50	iPc	21	18.04	0.5				e	23	51.00	
	1.2s	536.00nm				5.9mb				ic	21	20.03		MAO	80.09	319	P	21	31.60	0.2
			i	21	20.40	34kmX				epPc	23	18.88	571kmX	FIN	80.12	322	P	21	30.72	-0.9
			i	21	27.90					iPP	24	23.10		SMF	80.13	326	iPd	21	31.50	0.0
			iS	30	05.00					eS	30	23.70		FLN	80.13	330	iPd	21	31.00	-0.5
ENN	76.03	328	eP	21	09.50	-0.2	ZLA	77.53	324	ePd	21	17.70	-0.3		1.6s	385.55nm				5.6mb
	1.2s	328.00nm				5.7mb	KEK	77.55	313	eP	21	17.20	-1.0	LDF	80.13	329	iPd	21	31.10	-0.4
			e	23	12.00	584kmX	BWA	77.57	165	iPc	21	19.90	1.7		1.4s	261.40nm				5.5mb
			e	23	43.50					ePP	23	27.20		TOO	80.14	168	iPc	21	32.90	1.4
CEY	76.04	320	iPd	21	09.80	-0.2	SAO	77.68	52	ePc	21	19.00	0.1		0.9s	169.00nm				5.5mb
			epP	23	12.00	582kmX	LLS	77.73	323	ePd	21	19.10	-0.2	ISA	80.17	51	iP+	21	32.00	0.0
WAJH	76.05	293	iPd	21	10.50	0.3	VDL	77.81	323	ePd	21	19.80	0.1				e	23	35.00	577kmX
ABH	76.05	326	eP	21	09.95	0.0	VLI	77.84	309	P	21	17.00	-2.8				e	24	50.00	
APE	76.07	307	eP	21	08.90	-1.4	BSF	77.95	325	iPd	21	20.00	-0.3	ROB	80.21	322	P	21	31.44	-0.6
VOY	76.09	320	eP	21	09.50	-0.8		1.6s	398.00nm			5.6mb		RRL	80.21	323	P	21	32.36	0.0
LRM	76.11	40	iPc	21	11.40	0.8	SAL	77.99	322	P	21	20.30	0.0	AVF	80.22	326	iPd	21	32.10	0.1
MEM	76.12	327	iPd	21	10.13	-0.1	VAM	77.99	307	P	21	20.00	-0.6	DOI	80.33	323	P	21	30.90	-1.8
FVI	76.20	321	P	21	09.90	-0.8	HAU	78.00	326	iPd	21	20.30	-0.2	PZZ	80.40	323	P	21	31.64	-1.5
KTD	76.26	325	eP	21	11.14	0.1		1.6s	323.40nm			5.5mb		AGAL	80.40	293	iPd	21	33.50	0.2
BDV	76.28	315	eP	21	11.00	-0.3	PRS	78.02	52	iPc	21	21.20	0.5	ENR	80.47	323	P	21	31.34	-2.1
ULC	76.28	314	eP	21	11.00	-0.3				ipP	23	25.10	588kmX	STV	80.50	323	P	21	31.54	-2.1
HCY	76.34	315	eP	21	11.10	-0.5	LLA	78.07	51	iPc	21	21.70	0.7	ANAL	80.52	293	eP	21	34.00	0.1
RIY	76.35	319	eP	21	11.00	-0.6				ipP	23	26.00	590kmX	AGMR	80.53	293	eP	21	35.00	1.1
LCCM	76.37	40	iPc	21	12.70	0.7	ITM	78.11	309	iPd	21	19.80	-1.4	CLC	80.57	50	iP+	21	35.00	0.9
TRI	76.39	320	eP	21	10.50	-1.3	LCI	78.12	314	P	21	20.40	-0.7				e	23	38.00	577kmX
			e	23	13.60	587kmX	BRT	78.13	315	P	21	21.50	0.3				e	24	46.00	
RUP	76.39	326	eP	21	11.84	0.0	VLS	78.18	311	iPc	21	20.10	-1.5	GRR	80.58	330	iPd	21	33.70	-0.1
BRK	76.45	51	iPc	21	12.70	0.5	MDI	78.23	322	P	21	20.80	-0.8	BGF	80.61	327	iPd	21	34.20	0.2
BKS	76.46	51	eP	21	12.00	-0.3	RSM	78.33	320	P	21	23.10	0.9	DAU	80.68	43	P	21	36.10	1.2
	0.8s	984.00nm				6.3mb	TMA	78.36	323	ePd	21	22.00	-0.6	SBF	80.74	322	iPd	21	34.40	-0.4
			epP	23	17.60	602kmX	ARV	78.41	319	P	21	22.90	0.2	PLDF	80.76	326	P	21	35.04	0.1
			ePP	24	11.60		FRI	78.53	50	ePc	21	23.70	0.3	AGO	80.90	326	P	21	35.87	0.3
			esPP	30	14.80					ipP	23	28.10	590kmX	LPF	80.95	330	iPd	21	35.90	0.2
			eS	33	51.20					ePP	24	30.50		ARO	80.95	277	iPd	21	38.50	2.2
			esS	35	17.20		CAN	78.55	165	iPc	21	24.30	1.0	MAF	81.00	327	iPd	21	36.90	0.9
SXM	76.46	39	iPc	21	13.20	0.7				ePP	23	31.30		ATN	81.02	314	P	21	35.40	-0.9
SOTA	76.47	322	iPd	21	12.40	0.0	PRI	78.56	52	iPc	21	24.60	0.9	PGF	81.02	321	iPd	21	36.40	0.0
	1.2s	186.00nm				5.4mb		1.1s	884.00nm			6.1mb		TCF	81.09	327	iPd	21	37.00	0.5
			i	21	14.40	6kmX	VAI	78.59	323	P	21	22.90	-0.6	PYM	81.19	326	P	21	37.36	0.2
			i	21	22.00		CNB	78.61	165	eP	21	25.00	1.3	SBB	81.23	51	iP+	21	38.00	0.5
			i	23	14.10		SFI	78.62	320	P	21	24.50	0.8				e	23	41.00	575kmX
			i	24	02.30		PGD	78.72	320	P	21	25.70	1.2				e	24	48.00	
			i	24	17.30		CRE	78.79	320	P	21	25.20	0.4	RSSD	81.30	37	P	21	38.50	0.6
			i	25	10.00		MMK	78.81	323	ePd	21	25.10	0.1	FRF	81.34	323	iPd	21	37.30	-0.5
			i	26	05.40		ASS	78.86	319	P	21	25.40	0.3		1.5s	344.75nm				5.7mb
TAIF	76.49	286	ePd	21	14.30	1.3	PHAM	78.93	52	P	21	26.50	1.0	GSC	81.39	50	iP+	21	39.00	0.7
ATH	76.53	309	P	21	11.80	-0.9				pP	23	30.00	583kmX				e	23	41.00	569kmX
AFI	76.54	123	iPc	21	12.35	-0.7	PKEM	78.94	51	P	21	27.00	1.4				e	24	53.00	
			ic	21	14.67		MME	78.97	321	P	21	26.90	1.0	LSF	81.40	327	iPd	21	38.30	0.2
			ipPc	23	13.20	573kmX	DUI	79.00	317	P	21	26.40	0.6	PAS	81.41	52	iPc	21	38.08	-0.3
AGG	76.61	311	ePd	21	11.20	-2.0	AOU	79.02	318	P	21	26.80	0.9				ic	21	40.40	7kmX
PCC	76.63	52	iPc	21	13.30	0.1	DIX	79.04	324	ePd	21	26.30	0.1				ePcP	23	36.00	
UCC	76.63	328	iP-	21	13.00	0.0	ORI	79.12	315	P	21	27.50	1.1				ePP	23	42.00	
			iS	30	10.00		BDI	79.12	321	P	21	26.30	-0.1				esPd	24	39.51	
BGMT	76.74	40	iPc	21	15.00	1.0	BOB	79.12	322	P	21	26.40	0.0				esPP	27	36.00	
ADE	76.75	173	iPc	21	14.20	0.5	ORX	79.13	323	P	21	26.00	-0.5				eS	31	02.00	

			eSKS	31	06.00	
			eSP	31	58.00	
			eSPP	33	20.00	
			eSS	34	28.00	
			esScS	34	40.00	
			eSPP	36	44.00	
			esSS	40	00.00	
			eSSS	41	18.00	
			eLg	43	20.00	
MWC	81.43	51	iP+	21	39.00	0.3
			e	23	42.00	575kmX
LBL	81.51	326	P	21	39.23	0.7
LRG	81.55	323	iPd	21	38.80	0.0
	1.4s	612.65nm			5.9mb	
LMR	81.58	322	iPd	21	38.80	-0.2
MNO	81.60	314	P	21	40.30	0.8
MFF	81.78	328	iPd	21	40.40	0.5
CIS	81.80	52	eP	21	42.10	1.8
GIB	81.92	315	P	21	54.80	13.9X
RVR	81.99	51	iP+	21	41.00	-0.2
			e	22	49.00	288kmX
			e	23	47.00	
MEU	82.09	313	P	21	43.00	1.2
RJF	82.17	327	iPd	21	42.50	0.5
PEC	82.19	51	P	21	42.50	0.2
CAF	82.25	326	iPd	21	43.30	0.9
SCH	82.56	10	iPc	21	44.00	0.2
	0.7s	189.00nm			5.7mb	
TPC	82.68	50	iP+	21	45.00	0.3
			e	23	49.00	578kmX
PLM	82.74	51	iP+	21	46.00	0.7
			e	23	50.00	578kmX
			e	24	06.00	
LFF	82.79	327	iPd	21	45.90	0.9
LPO	82.81	326	iPd	21	45.80	0.6
LVI	82.81	316	P	21	45.70	0.5
CPE	82.94	52	eP	21	46.50	0.5
HAY	83.20	50	eP	21	48.40	1.1
BAR	83.34	52	iP+	21	48.00	-0.1
			e	23	53.00	583kmX
			e	25	11.00	
IKP	83.69	51	eP	21	50.70	0.8
PTS	83.88	315	P	21	52.10	1.5
ETER	84.03	324	iPc	21	51.30	0.0
GLA	84.14	50	iP+	21	53.00	1.0
			e	23	56.00	569kmX
GOL	84.14	40	P	21	53.40	1.2
GLD	84.17	40	P	21	53.50	1.2
EPF	84.52	326	iPd	21	53.50	-0.2
	1.6s	155.45nm			5.4mb	
AAE	85.61	278	eP	22	02.00	2.3
ECRI	86.03	327	iPc	22	01.80	0.8
ESEL	86.05	322	iPc	22	01.40	0.3
EBR	86.26	325	eP	22	02.00	0.0
			eS	31	34.00	
EROO	86.30	325	iPc	22	01.80	-0.4
EMON	87.18	331	iPc	22	06.60	0.2
ANMO	87.30	44	iPc	22	08.33	1.0
	0.9s	241.60nm			6.0mb	
			ic	22	10.31	
			epPc	24	13.47	576kmX
ALQ	87.30	44	iPc+	22	08.80	1.4
	1.3s	841.35nm			6.3mb	
			epP	24	15.00	582kmX
ETOR	87.35	326	iPd	22	07.50	0.1
ECHE	87.91	325	eP	22	10.60	0.7
ERUA	88.01	330	iPc	22	10.50	0.2
STS	88.09	331	eP	22	10.90	0.2
GUD	88.35	327	iPc	22	12.20	0.1
EZAM	88.79	331	eP	22	14.40	0.5
TOL	88.96	327	ePd	22	14.51	-0.2
			ic	22	17.32	
			epP	24	17.84	562kmX
			iPP	25	22.00	
			iS	31	29.00	
			ePS	33	20.00	
			esS	34	13.00	
WLZ	89.16	146	P	22	17.30	2.0
EVIA	89.36	325	iPc	22	17.00	0.3
EALH	89.55	324	eP	22	18.30	0.9
EPLA	89.61	328	iPc	22	17.80	0.0
HBZ	90.12	144	P	22	19.80	0.1
	0.6s	47.00nm			5.6mb	
CNZ	90.30	147	P	22	22.00	1.3
EBAN	90.30	326	eP	22	22.20	1.3
PUZ	90.49	144	P	22	20.80	-0.7
NOZ	90.85	145	P	22	23.00	-0.1

ASMO	90.97	325	iPc	22	23.50	-0.6
AFC	90.97	325	iPd	22	23.60	-0.6
RSNY	91.06	18	P	22	30.00	5.7X
	1.0s	97.61nm			5.8mb	
AAPN	91.17	326	iPc	22	24.50	-0.6
EHOR	91.20	327	iPc	22	25.20	0.2
APHE	91.28	325	iPc	22	25.00	-0.7
MEO	91.31	39	iPc	22	24.60	-1.0
ALOJ	91.33	326	iPc	22	24.50	-1.3
WNY	91.36	17	P	22	25.50	-0.2
ATEJ	91.45	325	iPc	22	25.50	-1.0
KIW	91.46	148	P	22	25.80	-0.1
THZ	91.46	150	P	22	25.80	-0.1
MNG	91.48	148	P	22	25.60	-0.4
	0.6s	25.00nm			5.4mb	
TCW	91.51	149	eP	22	25.10	-0.9
TUL	91.64	36	ePc+	22	28.10	1.0
	1.2s	87.70nm			5.7mb	
Z	18s	1.24um			5.4Msz	
			e	25	36.00	
SNZO	91.76	149	P	22	24.00	-3.2X
			PP	25	28.00	
			PPP	29	04.00	
			S	32	44.00	
			SP	34	00.00	
			SS	36	36.00	
PGZ	91.80	147	P	22	27.40	0.0
WDW	91.84	148	eP	22	26.80	-0.7
EPRU	91.92	326	eP	22	29.10	0.7
MTW	91.95	148	P	22	27.70	-0.4
EVAL	92.01	328	iPc	22	29.10	0.3
FVM	92.10	31	P	22	29.20	0.0
	1.0s	180.00nm			6.1mb	
LTZ	92.11	151	P	22	29.10	0.3
KHZ	92.27	150	P	22	28.80	-0.7
	0.6s	12.00nm			5.1mb	
MSZ	92.28	155	P	22	31.00	1.5
EJIF	92.46	326	eP	22	31.50	0.6
MOZ	93.05	151	P	22	33.30	0.2
MHZ	93.07	154	P	22	34.60	1.3
TLC	93.12	154	P	22	35.30	1.7
NKM	93.29	326	eP	22	34.00	-0.7
			i	22	35.00	3kmX
PMO	93.49	107	iP	22	37.50	1.8
	1.1s	75.00nm			5.7mb	
HRV	93.66	16	iPDIFc	22	36.41	0.1
TPT	93.68	107	iP	22	38.20	1.6
	1.1s	90.00nm			5.8mb	
OLY	93.83	33	P	22	37.30	0.1
VAH	93.84	107	iP	22	38.80	1.5
	1.1s	40.00nm			5.5mb	
AFR	93.86	110	iP	22	39.10	1.8
	1.1s	65.00nm			5.7mb	
RUV	93.99	107	iP	22	39.50	1.6
	1.1s	55.00nm			5.7mb	
PPT	94.02	110	iP	22	39.70	1.6
	1.1s	65.00nm			5.7mb	
PAE	94.08	110	iP	22	40.00	1.6
	1.1s	55.00nm			5.7mb	
PPN	94.10	110	iP	22	40.00	1.6
	1.1s	75.00nm			5.8mb	
TVO	94.39	110	iP	22	41.90	2.0
	1.1s	85.00nm			5.9mb	
JSC	98.73	26	P	22	59.00	-0.4
BCAO	103.42	289	iPdiff	23	21.00	0.5
	0.9s	14.00nm			5.7mb	
			ic	26	36.40	
			ic	27	27.10	
			id	28	12.90	
BUL	112.11	262	iPKPd	27	46.10	-6.1X
	1.0s	22.50nm				
			i	33	38.00	
KUK	114.75	305	ePKP	27	54.00	-3.3X
LKO	115.14	311	PKP	27	56.24	-1.8
	0.7s	37.00nm				
KSR	116.79	258	iPKPd	27	58.50	-2.6
	0.5s	3.78nm				
TIC	117.17	309	PKP	28	00.70	-1.2
	0.5s	25.50nm				
KIC	117.24	309	PKP	28	00.74	-1.3
	0.6s	27.00nm				
LIC	117.51	309	PKP	28	01.14	-1.4
	0.6s	31.00nm				
SEK	117.67	256	iPKPd	28	02.80	0.1
	1.0s	50.00nm				
FRS	120.14	256	iPKPc	28	17.40	10.3X
	1.1s	63.29nm				

			i	30	42.00	
BPA	120.26	14	ePKP	28	06.00	-1.7
MAW	120.41	204	iPKPd	28	07.00	0.6
	0.7s	70.00nm				
MGH	120.52	15	ePKP	28	07.00	-1.2
PAG	121.29	14	ePKP	28	08.00	-1.7
SBA	121.40	172	PKP	28	08.20	0.1
MGG	121.46	14	ePKP	28	08.50	-1.4
BBL	121.82	14	ePKP	28	09.00	-1.7
UPA	122.27	36	iPKPd	28	10.00	-1.6
	0.6s	156.00nm				
Z	22s	0.44um			5.1Msz	
		i		28	56.00	
		i		30	52.20	
FDF	122.65	14	iPKPd	28	11.74	-0.6
CRM	122.67	14	ePKP	28	11.10	-1.2
MVM	122.87	14	ePKP	28	11.74	-1.0
BIM	122.88	14	ePKP	28	12.43	-0.3
SVV	124.02	14	ePKP	28	13.80	-1.2
SVB	124.06	14	ePKP	28	13.71	-1.3
MORO	124.68	23	ePKP	28	15.50	-0.9
TOV	125.26	25	iPKPc	28	17.20	-0.3
CAR	125.42	22	iPKP	28	17.00	-0.9
LLAV	125.49	22	ePKP	28	17.50	-0.5
GUAC	125.63	22	ePKP	28	18.00	-0.3
SDV	125.83	27	iPKPc	28	18.00	-0.8
OLLA	125.92	22	ePKP	28	15.50	-3.3X
TCE	126.47	15	ePKP	28	18.68	-1.1
TRN	126.59	15	ePKP	28	19.02	-0.9
	0.7s	277.40nm				
BMG	126.64	30	iPKPd	28	20.50	0.2
TBH	126.81	15	PKP	28	21.40	1.0
TPP	126.90	15	ePKP	28	21.14	0.6
PSO	130.16	38	ePKP	28	27.00	-0.3
COTA	130.44	40	ePKP	28	27.20	-0.8
CAYA	130.83	40	ePKP	28	29.70	0.9
VC1	131.26	41	ePKP	28	30.30	0.7
CAI	143.27	340	iPKPc	28	48.10	-2.8
ARE	148.26	44	ePKP	29	00.00	0.7
ZOBO	149.75	38	PKP	29	02.00	0.1
		i		38	38.00	
LPB	149.99	39	PKP	28	58.00	-4.1X
	1.2s	1812.50nm				
		e		38	47.00	
CCH	151.62	36	PKPc	29	06.40	2.0
		i		29	13.20	
SIV	152.28	25	PKPc	29	04.60	-0.4
BAO	153.89	357	iPKPc	29	06.60	-0.7
AIA	155.00	165	ePKP	29	07.30	0.2
ROCH	160.55	70	ePKP	29	16.50	1.6
		e		30	04.20	
PEL	160.87	70	ePKP	29	15.00	0.0
		i		30	03.00	
TACH	160.97	72	ePKP	29	15.50	0.4
		i		30	03.00	
SAN	161.06	71	ePKP	29	15.00	-0.2
PCH	161.25	71	ePKP	29	16.50	1.1
		e		30	04.20	
CHCH	161.31	72	ePKP	29	16.00	0.6
		i		30	05.00	
ZON	161.31	63	e(PKP)	29	16.00	0.5
S.D. = 0.9 on 549 of 563 obs.						

? MAY 11, 1990 13h 43m 51.43± 2.69s
6.078 N ±18.4km 124.636 E ±22.4km
DEPTH = 407.6 ± 32.2 km
4.3mb (2 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

KKM	8.38	270	ePc	45	52.00	0.2
MTN	19.88	161	eP	47	54.00	-0.7
CHG	28.05	299	eP	49	09.40	-0.1
MAT	32.77	20	(P)	49	50.00	-0.2
SHL	36.82	305	iP	50	24.50	0.1
GUN	42.67	305	P	51	12.40	0.1
ADE	42.93	163	eP	51	14.30	0.5
DMN	43.19	304	P	51	16.00	-0.2
INK	88.75	21	eP	56	04.00	3.2X
MBC	90.13	12	eP	56	04.50	-2.6
	0.8s	2.00nm			4.0mb	
YKA	98.22	24	eP	56	47.10	2.9
	0.9s	2.40nm			4.5mb	
S.D. = 1.6 on 10 of 11 obs.						

MAY 11, 1990 14h 19m 35.50± 0.48s
46.817 N ± 4.5km 9.902 E ± 4.1km
DEPTH = 10.0km (geophysicist)

11d 14h

SWITZERLAND (544)
ML 2.7 (LDG), 2.6 (VIE).

OSS	0.21	128	iP	19 40.20	0.0
VDL	0.44	222	iP	19 43.80	-0.8
SAX	0.58	319	iP	19 47.00	-0.4
LLS	0.62	275	eP	19 46.70	-1.5
OGA	0.77	86	ePg	19 50.50	-0.2
SOTA	0.98	65	iPgc	19 54.00	-0.2
			i	20 04.80	
			iSg	20 07.90	
TMA	1.01	225	eP	19 54.00	-0.7
MDI	1.05	187	P	19 55.60	0.4
			eSg	20 07.00	
VAI	1.23	220	P	19 58.60	0.2
			eSg	20 16.70	
SLE	1.35	315	iP	20 01.80	1.4
MMK	1.54	241	iP	20 03.40	0.1
FEL	1.67	310	ePn	20 05.12	0.2
DIX	1.87	248	eP	20 10.30	2.2
BSF	2.35	297	Pn	20 14.60	-0.2
			Pg	20 21.60	
			Sg	20 49.60	
CDF	2.39	313	Pn	20 15.20	-0.2
			Pg	20 22.20	
			Sg	20 50.80	
LPG	2.56	240	Pg	20 22.40	4.5X
HAU	2.69	298	Pn	20 19.40	-0.2
			Pg	20 27.50	
			Sg	21 00.00	
KHC	3.39	45	ePg	20 38.50	9.0X
			Sn	21 09.50	
			Sg	21 22.00	

S.D. = 0.9 on 16 of 18 obs.

---

* MAY 11, 1990 14h 53m 26.22± 1.05s
36.107 N ±11.3km 27.309 E ± 8.0km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.29	37	iPn	53 49.40	-0.8
CIN	1.62	22	eP	53 54.00	-0.8
SMG	1.64	347	Pb	53 55.00	-0.2
APE	1.72	304	ePn	53 57.00	0.5
KSL	1.84	89	ePn	54 01.90	3.8X
ELL	2.19	72	ePn	54 06.90	3.6X
VAM	2.62	255	ePn	54 15.00	5.6X
KHL	2.83	38	ePn	54 14.00	1.6
BCK	2.96	62	ePn	54 22.50	8.3X
VLI	3.58	281	ePn	54 21.00	-1.9
ALT	3.69	36	ePn	54 28.00	3.4X
ITM	4.46	285	ePn	54 37.00	1.6
PRNI	8.63	130	eP	55 34.00	-0.1

S.D. = 1.4 on 8 of 13 obs.

& MAY 11, 1990 16h 45m 46.51s
58.339 N 154.205 W
DEPTH = 65.4km
ALASKA PENINSULA (12)
<AGS-P>.

CDD	0.66	26	iP	46 00.12	-0.8
			iS	46 11.24	
KDC	1.09	122	eP	46 05.18	-1.0
			eS	46 20.28	
AUE	1.11	23	iP	46 05.65	-0.8
			eS	46 20.27	
AUL	1.12	21	eP	46 05.61	-1.0
			eS	46 19.79	
CNPM	1.95	51	eP	46 16.34	-1.6
RED	2.21	19	eP	46 19.77	-1.9
RDT	2.42	22	eP	46 22.65	-2.0

7 obs. associated

% MAY 11, 1990 17h 14m 39.39± 1.01s
47.364 N ± 6.7km 6.751 E ±11.6km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

BSF	0.47	3	Pg	14 49.60	0.8
			Sg	14 56.40	
HAU	0.70	337	Pg	14 52.80	-0.5
			Sg	15 02.40	
CDF	1.11	18	Pg	15 00.40	-0.3
			Sg	15 16.20	
LPG	1.87	180	Pg	15 12.30	-0.3
			Sg	15 36.20	
LOR	1.97	268	Pg	15 13.00	-0.8
			Sg	15 37.20	
SMF	2.12	251	Pg	15 17.00	1.1
			Sg	15 41.00	
AVF	2.39	257	Pg	15 22.40	2.5X

S.D. = 1.0 on 6 of 7 obs.

---

* MAY 11, 1990 17h 59m 26.80± 1.10s
35.935 N ±11.2km 28.979 E ± 8.5km
DEPTH = 33.0km (normal)
EASTERN MEDITERRANEAN SEA (371)

KSL	0.52	69	eP	59 38.00	0.3
			eS	59 47.00	
ELL	1.11	42	ePn	59 46.00	-0.1
YER	1.32	335	iPn	59 47.20	-1.9
BCK	2.00	40	iPn	00 01.50	2.5
KHL	2.42	10	ePn	00 05.00	0.0
SMG	2.47	316	eP	00 06.00	0.5
IZM	2.81	331	ePn	00 10.70	0.2
ALT	3.24	16	ePn	00 15.00	-1.6
VAM	3.93	264	eP	00 32.20	5.9X
VLI	4.94	281	eP	00 41.80	1.1
PRNI	7.52	136	eP	01 16.00	-0.9

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

& MAY 11, 1990 18h 23m 33.95s
32.951 N 80.155 W
DEPTH = 6.1km
SOUTH CAROLINA (511)
<GLD>. MD 2.6 (GLD).

MGS	0.06	168	iPc	23 35.61	0.0
			S	23 36.19	
RGRS	0.06	216	iPc	23 35.63	0.0
			S	23 36.59	
SVS	0.08	283	iPc	23 36.15	0.2
			S	23 37.30	
BCS	0.08	69	iPd	23 35.99	0.0
			S	23 37.74	
WSS	0.14	224	iPc	23 37.22	0.3
			S	23 39.15	
TWB	0.17	15	iPd	23 37.63	0.1
			S	23 39.86	
HBF	0.19	265	iPc	23 37.29	-0.6
			S	23 39.27	
HWD	0.24	207	eP	23 39.91	1.1
			S	23 42.90	
DRC	0.25	309	eP	23 39.49	0.4
			S	23 42.98	
CFS	0.33	358	eP	23 40.67	0.1
			S	23 45.17	
SGS	0.38	309	P	23 41.91	0.2
MTT	1.47	303	eP	24 00.34	-0.7
			S	24 10.73	
JSC	1.61	326	eP	24 01.94	-1.0
			S	24 14.16	
LHS	1.62	341	eP	24 01.71	-1.4
			S	24 14.94	

14 obs. associated

---

* MAY 11, 1990 18h 34m 35.07± 1.06s
36.438 N ±15.4km 27.357 E ± 8.4km
DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)

YER	1.02	47	ePn	34 53.00	-0.1
SMG	1.33	342	eP	34 58.00	0.5
APE	1.60	294	eP	35 00.00	-1.4
KSL	1.83	99	eP	35 03.00	-1.7
ELL	2.08	81	ePn	35 10.00	1.6
VAM	2.76	249	eP	35 19.00	1.0
BCK	2.78	68	ePn	35 25.00	6.7X

S.D. = 1.7 on 6 of 7 obs.

? MAY 11, 1990 18h 49m 03.19± 1.66s
31.576 S ±44.3km 69.440 W ±26.2km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.09	187	iPd	49 19.90	-0.1
			S	49 30.00	
RTCB	0.55	81	iPd	49 22.00	0.2
ZON	0.65	88	eP	49 23.00	0.5
			eS	49 37.00	
RTCV	0.82	111	ePc	49 23.70	-0.2
			S	49 38.20	
RTLL	0.86	74	iPc	49 23.90	-0.4
			eS	49 38.90	
CFA	1.03	92	iPd	49 20.90	-4.9X
			(S)	49 42.00	

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

MAY 11, 1990 18h 59m 07.47± 0.58s
39.753 N ± 9.0km 143.224 E ± 9.2km
DEPTH = 31.5km (2 depth phases)
4.8mb (20 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

MAT	5.09	233	iPc	00 25.50	1.9
	0.8s		76.87nm		5.2mb
			eS	01 32.00	
CN2	13.87	293	eP	02 24.50	0.5
N	13s		0.30um		
E	18s		0.70um		
			pP	02 27.50	
SSE	19.89	251	eP	03 37.50	-1.6
	1.0s		12.00nm		4.2mb
			sP	03 48.20	
BJI	20.73	280	eP	03 44.00	-3.8X
Z	16s		0.41um		3.9MszX
TIA	20.85	269	Pc	03 46.90	-2.1
E	13s		0.60um		
TIY	24.05	275	eP	04 23.30	2.6
Z	28s		0.90um		4.1MszX
HHC	24.11	283	P	04 19.80	-1.5
WHN	25.25	258	Pc	04 33.00	0.8
	1.0s		20.00nm		4.7mb
BTO	25.31	283	eP	04 31.00	-1.8
XAN	27.91	269	P	04 55.20	-1.5
GYA	33.14	258	P	05 42.60	-0.5
CD2	33.17	267	eP	05 42.00	-1.2
GTA	33.22	284	eP	05 43.60	-0.1
KMI	36.83	259	Pc	06 15.00	0.2
			pP	06 25.50	36km
WMQ	40.95	294	Pc	06 49.00	0.3
CHG	43.37	254	eP	07 09.10	0.4
CHTO	43.37	254	ePc	07 09.20	0.6
			epP	07 17.20	27km
LSA	43.43	273	eP	07 10.00	0.4
SHL	44.90	268	eP	07 23.00	1.8
GUN	48.34	274	P	07 48.40	-0.1
DMN	49.08	274	P	07 54.60	0.5
MBC	53.52	17	eP	08 26.00	-0.6
WB5	59.90	190	eP	09 11.80	-0.8
WRA	59.96	190	Pc	09 12.10	-1.0
	0.7s		2.90nm		4.5mb
YKA	60.75	31	eP	09 23.90	5.9X
	0.5s		0.40nm		3.8mb X
KEV	61.41	339	eP	09 13.00	-9.5X
SOD	63.02	337	eP	09 32.00	-1.2
SUF	66.20	333	iP	09 53.20	-0.6
NUR	68.22	332	iP	10 06.00	-0.6
HFS	72.19	336	eP	10 29.70	-1.1
	0.4s		4.70nm		4.8mb
Z	17s		0.09um		4.1MszX
			LR	42 27.00	
N82	72.22	338	P	10 30.10	-0.9
	0.8s		5.40nm		4.6mb
KSP	78.53	329	eP	11 07.20	0.2
PRU	79.89	329	eP	11 14.80	0.4
KHC	80.96	329	P	11 20.40	0.3
GRF	81.41	331	ePd	11 23.80	1.4
	1.0s		10.00nm		4.8mb
LOR	86.10	334	eP	11 46.50	0.1
	0.8s		7.40nm		5.0mb
LBF	86.31	333	eP	11 47.40	0.0
	0.8s		6.05nm		4.9mb
SSF	86.40	334	eP	11 48.10	0.3
	0.6s		3.60nm		4.8mb
LPL	86.57	331	eP	11 49.40	0.4
	0.8s		4.05nm		4.7mb
LPG	86.58	331	eP	11 49.40	0.3
	0.8s		5.35nm		4.8mb
GRR	86.64	337	eP	11 49.30	0.4
	0.8s		9.40nm		5.1mb
SMF	86.65	333	eP	11 49.30	0.3
	1.0s		7.00nm		4.8mb
AVF	86.69	334	eP	11 49.60	0.4
	0.8s		12.75nm		5.2mb
LPF	87.01	337	eP	11 51.20	0.5
	1.0s		8.00nm		4.9mb
MAF	87.45	334	eP	11 53.80	0.9

```
        0.8s     5.35nm            4.9mb
TCF     87.52 334 eP     11 53.70   0.4
        0.8s     2.70nm            4.6mb
LSF     87.78 335 eP     11 54.90   0.4
        0.8s     8.05nm            5.1mb
MFF     88.01 336 eP     11 55.90   0.3
        1.0s     8.00nm            5.0mb
      S.D. = 1.0  on  45 of  48 obs.
-----------------------------------------
   MAY  11, 1990  19h 42m 23.34± 0.21s
    1.329 N ± 3.7km  123.590 E ± 4.8km
   DEPTH =  21.5km  (  4 depth phases)
   5.3mb ( 15 obs.)  4.8Msz ( 10 obs.)
 MINAHASSA PENINSULA              (265)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 14S, 30C
      Centroid Location:
      Origin Time         19:42:24.8 0.5
      Lat  1.54N 0.06 Lon 123.36E 0.07
      Dep  41.3 5.9 Half-duration  1.7
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 5.67 0.79  Mtt=-4.91 0.66
        Mff=-0.76 1.17  Mrt=-8.86 1.42
        Mrf=-3.42 0.90  Mtf=-3.84 0.80
       Principal Axes:
        T  Val= 10.81  Plg=61  Azm=167
        N        1.36       6       66
        P      -12.17      28      333
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike= 47 Dip=18 Slip=  70
       NP2.        248     73       96

MNI      1.25  85 ePc    42 45.50  -0.1
                  eS     43 06.00
DAV      6.05  19 eP     43 54.00   0.1
TSM      6.22 298 eP     43 56.00  -0.2
AAI      6.78 137 ePc    44 06.60   2.4
                  eS     45 16.50
MKS      7.70 212 iPc    44 21.50   4.5X
                  i(S)   45 52.50
KKM      8.72 303 ePc    44 29.20  -2.2
                  e      50 01.50
TRT     14.14 230 iPc    45 45.50   0.9
BAG     15.28 349 eP     46 00.00   0.3
MTN     15.95 152 iPd    46 08.80   0.6
KGM     20.27 272 eP     47 01.00   0.5
KLM     22.00 275 eP     47 22.00   4.0X
QIZ     22.16 323 P      47 19.00  -0.6
     N  13s      4.30um
                  S      51 13.00
                  sS     51 24.50
MBL     22.65 189 eP     47 21.00  -3.5X
IPM     22.76 279 ePd    47 26.80   1.2
HKC     22.77 337 iP     47 26.00   0.4
                  iS     51 36.00
WB5     23.58 154 eP     47 33.00  -0.6
                  eS     51 52.20
SNG     23.63 285 eP     47 35.00   1.0
        1.2s   159.38nm            5.4mb
                  eS     51 52.80
WRA     23.63 154 Pc     47 33.40  -0.6
        0.9s    46.90nm            5.0mb
GZH     23.81 336 Pd     47 36.00   0.3
     Z  16s      3.00um            4.9MszX
     N  14s      2.10um
     E  13s      2.50um
QZH     23.97 349 P      47 37.50   0.3
        6.0s  1400.00nm            5.7mb X
     N  13s      0.90um
GUMO    24.32  59 eP     47 41.00   0.2
     Z  22s      0.78um            4.2Msz
                  eS     51 56.50
GUA     24.34  59 eP     47 41.50   0.5
LAT     24.67 109 eP     47 47.50   3.3X
NANU    25.01 198 eP     47 46.00  -1.4
        0.4s    12.00nm            4.9mb
PMG     25.78 115 eP     47 53.00  -1.7
QIS     26.82 145 iPd    48 03.40  -0.8
        1.2s   228.00nm            5.7mb
NST     27.17 303 eP     48 10.80   3.3X
WARB    27.51 174 eP     48 09.00  -1.5
        0.5s     7.00nm            4.6mb
MEKA    28.20 190 eP     48 14.50  -2.2
RAB     29.08 101 eP     48 26.00   1.2
                  eS     53 20.00
SSE     29.69 356 P      48 31.50   1.5
```

```
        1.5s    18.00nm            4.7mb
     Z  20s      1.40um            4.6Msz
     N  13s      0.50um
     E  13s      0.60um
                  sP     48 46.50
                  S      53 24.00
CHG     29.76 307 ePd    48 30.80  -0.1
        1.5s    38.89nm            5.0mb
GYA     29.82 328 P      48 32.00   0.6
     Z  16s      1.10um            4.6MszX
     N  12s      1.40um
     E  12s      0.90um
                  S      53 28.00
                  sS     53 46.00
                  ScS    59 08.00
WHN     30.35 344 eP     48 34.00  -1.9
     Z  16s      2.40um            4.9MszX
     N  12s      0.90um
     E  11s      1.60um
                  S      53 38.00
CTA     30.77 135 iPc    48 39.90   0.1
        1.3s    77.88nm            5.4mb
                  iS     53 59.00
NJ2     30.88 352 Pd     48 41.30   0.8
     Z  20s      0.70um            4.3Msz
                  S      53 45.00
KMI     31.06 321 Pd     48 43.00   0.5
        2.0s   100.00nm            5.3mb
     Z  16s      2.20um            4.9MszX
     N  13s      0.60um
     E  15s      1.20um
                  pP     48 50.00  24km
                  S      53 51.00
MRWA    31.23 193 eP     48 40.50  -3.2X
FORR    32.29 173 eP     48 50.30  -2.6
NWAO    34.60 189 eP     49 12.00  -0.9
CD2     34.91 329 eP     49 15.00  -0.7
     Z  14s      1.30um            4.8MszX
     N  12s      1.50um
                  eS     54 43.00
TIA     35.22 351 Pc     49 18.00  -0.2
     E  14s      0.70um
                  S      54 48.00
XAN     35.32 339 P      49 18.30  -0.9
     N  15s      2.00um
     E  11s      0.50um
                  S      54 51.00
TSRJ    35.93  17 P      49 24.10  -0.2
IIDJ    36.50  20 eP     49 32.20   3.1X
RMQ     36.80 140 eP     49 31.00  -0.7
                  e      51 00.00 474kmX
CHJJ    37.38  21 P      49 36.00  -0.5
DL2     37.44 357 eP     49 36.00  -0.9
     Z  15s      0.60um            4.5MszX
     N  14s      0.90um
                  esP    49 52.00
                  eS     55 22.00
MTMJ    37.47  19 P      49 36.40  -0.9
MAT     37.56  19 eP     49 36.00  -2.0
        1.2s    54.69nm            5.2mb
     Z  20s      1.77um            4.9Msz
                  (S)    55 21.00
TIY     37.64 345 eP     49 38.70   0.0
     Z  19s      2.30um            5.0Msz
     N  18s      2.20um
                  S      55 23.00
                  sS     55 36.00
ADE     38.78 160 iPc    49 49.30   1.0
        1.0s    64.00nm            5.3mb
CMS     38.87 149 eP     49 49.00   0.0
SHL     38.91 311 iP     49 49.50  -0.2
                  eS     55 47.00
BJI     39.12 351 eP     49 51.00   0.1
        6.0s   430.00nm            5.3mb X
     Z  20s      0.90um            4.6Msz
     N  11s      0.71um
                  ePP    51 26.00
                  eS     55 46.00
                  eSS    58 32.00
                  eScS   59 57.00
LZH     39.13 334 Pd     49 52.00   0.6
        1.6s    62.00nm            5.1mb
     Z  18s      2.60um            5.1Msz
     N  16s      1.50um
     E  15s      1.30um
                  PP     51 27.00
                  S      55 53.00
```

```
                  sS     56 10.00
                  SS     58 40.00
BRS     40.05 138 eP     49 57.00  -1.9
                  e      51 30.00 510kmX
SNY     40.32 360 Pd     50 00.00  -0.8
     Z  20s      1.60um            4.9Msz
     N  20s      1.50um
     E  20s      1.30um
HHC     40.82 346 Pc     50 07.00   1.8
     Z  24s      1.40um            4.7MszX
     N  15s      0.80um
     E  14s      0.50um
                  S      56 18.00
BTO     40.98 344 P      50 07.00   0.5
     N  15s      1.40um
     E  15s      0.80um
                  sP     50 19.00
                  S      56 20.50
LSA     41.80 316 P      50 14.00   0.2
CN2     42.32   2 eP     50 17.00  -0.3
        7.0s   500.00nm            5.4mb X
     Z  20s      1.10um            4.7Msz
     E  13s      0.70um
                  PP     52 00.00
                  eS     56 35.00
                  ScS    00 16.00
BWA     42.52 149 eP     50 21.00   1.9
                  i      52 01.20 559kmX
CAN     43.51 149 eP     50 28.00   0.8
                  i      50 36.50  28km
                  e      52 13.80
GTA     43.67 333 eP     50 29.40   0.9
        1.2s   100.00nm            5.5mb
     Z  14s      2.50um            5.3MszX
     N  15s      1.40um
                  pP     50 35.00  19km
                  eS     56 55.00
                  ScS    00 24.40
TOO     43.69 155 eP     50 29.00   0.4
CNB     43.70 149 eP     50 30.00   1.3
KOD     46.68 283 eP     50 54.00   0.9
HYB     47.05 293 eP     50 56.10   0.4
        1.0s    40.00nm            5.4mb
POO     51.66 293 eP     51 42.00  10.8X
NDI     51.90 306 eP     51 42.00   9.2X
WMQ     52.98 328 P      51 41.80   1.1
     Z  20s      1.08um            4.9Msz
                  pP     51 46.20  15km
                  S      59 11.50
                  ScS    01 23.00
MSZ     60.39 145 P      52 34.00   0.7
MAIO    68.51 309 eP     53 26.00  -0.6
                  eS     02 31.00
TAB     79.16 308 eP     54 33.00   4.4X
MAW     80.44 200 iPd    54 35.30   0.7
SPA     91.32 180 iPc    55 30.80   2.2
        1.3s    41.67nm            5.6mb
INK     93.53  21 eP     55 38.00  -0.5
MLR     94.43 316 eP     55 42.00  -1.3
BUL     95.13 250 iPc    55 40.30  -6.7X
LNV    144.63 158 ePKP   02 00.00  -0.5
TACH   145.08 159 ePKP   02 01.20  -0.2
PCH    145.26 159 ePKP   02 02.00   0.2
SAN    145.36 159 ePKP   02 02.00   0.1
FCH    145.61 159 ePKP   02 04.00   1.3
PEL    145.63 159 iPKPc  02 02.60   0.2
        1.1s    63.29nm
ZOBO   161.20 143 PKP    02 26.90   2.1
SIV    164.72 163 ePKP   02 25.00  -2.6
                  i      02 28.40
      S.D. = 1.1  on  77 of  88 obs.
-----------------------------------------
? MAY  11, 1990  19h 48m 36.12± 0.70s
  12.370 N ±14.5km  125.449 E ±32.0km
  DEPTH =  33.0km  (normal)
  4.6mb (  2 obs.)
 SAMAR, PHILIPPINE ISLANDS        (251)

WB5     33.23 165 eP     55 15.00   2.6
WARB    38.34 178 iPd    55 55.40  -0.4
        0.5s    16.00nm            5.1mb
FORR    43.05 177 eP     56 33.10  -1.4
BRS     47.59 146 eP     57 10.00  -0.9
MAIO    63.44 304 eP     59 05.00  -0.3
INK     82.64  22 eP     00 57.00  -0.2
SUF     83.33 333 eP     01 02.00   1.2
MBC     83.85  13 eP     01 03.00  -0.3
```

11d 20h

0.7s 1.00nm 4.1mb
NUR 84.58 331 iP 01 07.00 -0.2
S.D. = 1.4 on 9 of 9 obs.

---

* MAY 11, 1990 20h 21m 30.30± 1.07s
3.250 S ±11.5km 135.977 E ±21.3km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
WEST IRIAN REGION (196)

MTN 10.67 206 eP 24 05.00 1.0
e 26 04.00
WB5 16.60 185 eP 25 21.00 -1.3
i 25 27.20
eS 28 21.00
WRA 16.67 185 Pc 25 23.60 0.5
0.6s 4.80nm 3.8mb
OIS 17.56 169 eP 25 33.00 -1.3
eS 28 41.00
CTA 19.51 150 eP 26 02.00 4.1X
BRS 28.88 148 iPc 27 29.00 0.7
CHTO 42.53 302 eP 29 24.80 0.0
pP 29 37.00 45kmX
GUN 57.28 306 P 31 17.50 -0.4
DMN 57.78 306 P 31 20.80 -0.5
SPA 86.77 180 eP 34 13.80 1.4
0.6s 8.13nm 5.1mb
ZOBO 149.28 130 PKP 41 20.20 5.7X
S.D. = 1.1 on 9 of 11 obs.

MAY 11, 1990 20h 33m 23.91± 0.42s
39.002 N ± 3.7km 24.736 E ± 4.4km
DEPTH = 5.0km (geophysicist)
AEGEAN SEA (365)
ML 3.0 (ATH).

NEO 1.21 285 ePb 33 46.90 -0.1
PAIG 1.23 319 eP 33 47.70 0.4
ATH 1.30 218 ePb 33 49.50 1.0
eSb 34 08.00
OUR 1.45 337 eP 33 50.10 -0.7
EZN 1.48 56 iPn 33 51.20 0.0
AGG 1.87 271 eP 33 57.30 0.4
APE 2.03 162 ePn 33 58.80 -0.4
LIT 2.05 303 ePd 33 59.10 -0.4
IZM 2.07 106 ePn 34 04.80 5.1X
SMG 2.10 127 Pg 34 04.00 3.9X
SOH 2.11 330 ePc 34 00.10 -0.2
THE 2.12 321 ePd 34 00.40 -0.1
ALN 2.14 28 eP 34 06.10 5.3X
SRS 2.29 338 eP 34 01.90 -1.0
KGT 2.45 53 iPn 34 05.70 0.5
RZN 2.68 360 iPc 34 08.00 -0.7
VLI 2.69 213 Pn 34 07.00 -1.6
KDZ 2.70 11 eP 34 08.00 -0.7
iS 34 49.00
ITM 2.87 231 Pn 34 11.50 0.3
DIM 3.11 11 eP 34 16.00 1.6
Sg 34 47.00
KKB 3.13 337 iPc 34 14.00 -0.8
FNA 3.14 306 eP 34 15.10 0.1
PGB 3.57 353 eP 34 21.00 -0.1
VAM 3.61 187 ePn 34 21.00 -0.7
VTS 3.77 343 eP 34 24.00 -0.1
KEK 3.89 282 ePn 34 28.00 2.3
YLV 3.90 65 ePn 34 27.00 1.1
S.D. = 0.9 on 24 of 27 obs.

---

* MAY 11, 1990 21h 05m 33.11± 2.32s
12.311 N ± 7.8km 125.425 E ±11.9km
DEPTH = 39.8 ± 21.2 km
5.1mb (3 obs.) 4.2Msz (2 obs.)
SAMAR, PHILIPPINE ISLANDS (251)

BAG 6.22 312 eP 07 05.00 0.0
SSE 19.10 349 eP 09 54.60 -0.8
eS 13 26.00
NJ2 20.56 344 eP 10 13.60 2.6
WHN 20.84 332 eP 10 14.00 0.1
GYA 22.57 311 iPd 10 33.80 2.4
N 15s 0.50um
E 15s 0.40um
KMI 24.93 304 Pd 10 56.00 1.5
Z 18s 0.70um 4.2Msz
pP 11 03.50 27kmX
TIA 24.95 344 eP 10 53.60 -0.7
CHG 26.30 288 eP 11 06.20 -0.9
CHTO 26.30 288 eP 11 06.00 -1.0
e 11 19.20
XAN 26.34 328 P 11 07.00 -0.4
CD2 27.26 316 eP 11 15.20 -0.6
TIY 27.84 338 eP 11 20.60 -0.4
Z 18s 0.60um 4.2Msz
N 16s 0.50um
BJI 28.80 345 eP 11 28.00 -1.5
LZH 30.64 324 P 11 47.00 0.8
Z 16s 0.60um 4.3MszX
N 15s 0.60um
BTO 31.27 337 eP 11 50.20 -1.4
WB5 33.18 164 eP 12 08.00 -0.3
SHL 34.24 298 iP 12 16.80 -1.0
GTA 35.24 325 eP 12 26.30 0.2
LSA 36.19 304 P 12 35.00 0.4
WARB 38.28 178 iPd 12 52.10 0.5
0.6s 25.00nm 5.3mb
GUN 40.04 299 P 13 06.80 0.0
DMN 40.63 298 P 13 11.20 -0.3
1.1s 66.00nm 5.3mb
FORR 42.99 177 eP 13 30.20 -0.1
WMQ 45.12 321 P 13 47.80 0.2
BRS 47.56 146 iP 14 07.00 0.1
INK 82.70 22 eP 17 54.00 0.3
MBC 83.91 13 eP 18 00.00 0.2
0.8s 3.00nm 4.5mb
S.D. = 1.0 on 27 of 27 obs.

% MAY 11, 1990 21h 58m 37.34± 0.90s
40.621 N ± 8.0km 15.701 E ± 6.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.31 258 P 58 43.80 0.1
eSg 58 49.40
MGR 0.50 193 P 58 47.00 -0.4
eSg 58 54.50
ORI 0.80 134 P 58 53.10 0.2
BAI 1.01 60 P 58 57.00 0.5
TDS 1.08 153 P 58 58.00 0.4
BRT 1.17 77 P 58 58.40 -0.8
eSg 59 16.10
S.D. = 0.6 on 6 of 6 obs.

? MAY 11, 1990 22h 08m 40.27± 4.04s
47.310 N ± 8.7km 2.290 W ±35.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.1 (LDG).

LPF 1.11 49 Pg 09 02.10 1.0
Sg 09 16.40
GRR 1.45 41 Pn 09 06.40 -0.1
Pg 09 08.00
Sg 09 26.00
MFF 1.63 115 Pg 09 11.80 2.7
Sg 09 32.80
FLN 1.89 39 Pn 09 12.60 -0.3
Pg 09 15.50
Sg 09 38.60
LDF 1.94 48 Pn 09 13.50 -0.1
Pg 09 16.40
Sg 09 40.80
LSF 2.83 111 Pn 09 26.60 0.2
Pg 09 34.30
Sg 10 09.60
LFF 3.17 137 Pg 09 42.00 10.9X
Sg 10 22.40
TCF 3.26 107 Pn 09 32.20 -0.2
Pg 09 43.20
Sg 10 22.60
RJF 3.31 126 Pn 09 33.00 -0.2
Pg 09 42.20
Sg 10 25.00
MAF 3.51 106 Pn 09 36.00 0.0
Pg 09 46.20
Sg 10 30.80
LPO 3.57 136 Pg 09 47.80 10.9X
Sg 10 33.60
BGF 3.60 100 Pn 09 37.00 -0.2
Pg 09 48.40
Sg 10 33.00
CAF 3.85 127 Pn 09 40.20 -0.7
Sg 10 42.80
AVF 3.89 96 Pn 09 40.80 -0.6
Sg 10 41.60
SMF 4.25 97 Pn 09 46.00 -0.5
Sg 10 52.40
LBF 4.29 92 Pn 09 46.00 -1.1
Sn 10 32.00
Sg 10 54.40
S.D. = 1.0 on 14 of 16 obs.

% MAY 11, 1990 22h 09m 26.95± 0.69s
43.090 N ± 6.0km 12.960 E ± 8.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.22 265 Pc 09 31.10 -0.6
eSg 09 36.20
ARV 0.41 358 P 09 34.00 -1.3
eSg 09 40.50
ALP 0.55 124 P 09 37.50 -0.6
eSg 09 47.00
MNS 0.73 196 P 09 40.90 -0.5
eSg 09 52.30
AQU 0.81 156 P 09 42.50 -0.1
RSM 0.91 336 P 09 45.90 1.5
SFI 1.16 316 P 09 48.80 0.3
eSg 10 06.20
SDI 1.52 155 P 09 55.70 1.4
S.D. = 1.2 on 8 of 8 obs.

& MAY 11, 1990 22h 18m 17.01s
63.120 N 150.370 W
DEPTH = 108.5km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.36 113 iP 18 32.84 -0.3
iS 18 44.95
KTH 0.50 330 eP 18 33.90 -0.1
iS 18 46.17
CUT 0.72 176 iP 18 35.48 -0.1
eS 18 49.79
RND 0.74 67 iP 18 35.52 -0.4
iS 18 50.58
MCK 0.89 46 iP 18 36.92 -0.4
eS 18 51.26
SKT 1.26 206 iP 18 40.68 -0.6
PWA 1.49 171 eP 18 43.90 -0.1
iS 19 04.75
GHO 1.51 153 eP 18 44.05 -0.3
iS 19 05.37
SML 1.62 143 iP 18 44.99 -0.7
PLRM 1.64 159 eP 18 45.51 -0.3
iS 19 06.55
SUA 1.67 186 eP 18 46.22 -0.1
WRH 1.69 36 iP 18 45.69 -0.8
PMS 1.92 168 eP 18 48.53 -0.9
HDA 1.99 48 eP 18 49.35 -1.0
NCA 1.99 123 eP 18 49.82 -0.6
CRP 2.04 205 eP 18 50.62 -0.5
SPU 2.10 203 eP 18 51.39 -0.4
DDM 2.13 70 eP 18 51.59 -0.6
TOA 2.19 116 eP 18 52.63 -0.4
PAX 2.24 92 eP 18 53.09 -0.5
SLKM 2.62 178 eP 18 58.43 -0.2
GLI 2.73 144 eP 18 58.31 -1.7
RDT 2.73 202 eP 19 00.43 0.3
VZW 2.74 137 eP 18 58.59 -1.6
VLZ 2.75 135 eP 18 58.33 -2.0
SEW 3.06 171 eP 19 03.53 -0.9
GLB 3.50 116 eP 19 08.89 -1.6
CNPM 3.63 187 eP 19 10.95 -1.3
28 obs. associated

? MAY 11, 1990 22h 26m 08.53± 2.23s
40.496 N ±14.2km 15.243 E ±23.9km
DEPTH = 33.0km (normal)
SOUTHERN ITALY (390)

SGO 0.08 39 P 26 14.10 -0.1
eSg 26 21.30
MGR 0.43 146 P 26 18.30 0.2
eSg 26 27.20
ORI 1.02 115 P 26 26.20 -0.3
BRT 1.54 75 P 26 34.20 0.2
eSg 26 42.90
S.D. = 0.5 on 4 of 4 obs.

---

* MAY 11, 1990 23h 08m 09.26± 1.04s
19.468 S ±10.9km 69.372 W ±11.5km

DEPTH = 168.6 ± 34.5 km
3.8mb (1 obs.)
NORTHERN CHILE (123)

LPB	3.16	23	Pc	09	01.00	0.6
	1.0s	260.00nm				
ZOBO	3.40	21	P	09	07.20	3.7X
ARE	3.61	326	iPc	09	05.20	-0.7
			iS	09	53.40	
CCH	3.70	56	P	09	11.50	4.4X
ANT	4.33	193	e(P)	09	15.00	0.1
SIV	8.63	68	P	10	11.60	-0.4
PT02	9.39	313	e(P)	10	20.90	-1.1
PT08	10.17	316	eP	10	34.00	1.4
			e(S)	12	30.00	
NNA	10.34	315	eP	10	38.00	3.5X
	0.6s	6.00nm			4.3mb X	
			eS	12	53.50	
YKA	89.14	341	eP	20	55.10	8.8X
	0.6s	0.70nm			3.8mb	
	S.D. = 1.5	on	6 of	10 obs.		

MAY 11, 1990 23h 43m 50.49± 0.31s
17.282 N ± 5.4km 100.679 W ± 4.1km
DEPTH = 28.0km (5 depth phases)
5.3mb (51 obs.) 4.9Msz (10 obs.)
GUERRERO, MEXICO (59)

Ms 4.7 (PAS). Felt in the Mexico City oreo.
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 16S, 28C
Centroid Locotion:
Origin Time 23:43:52.1 0.7
Lot 17.24N 0.08 Lon 100.56W 0.07
Dep 15.0 BDY Half-durotion 2.1
Moment Tensor; Scole 10**17 Nm
Mrr= 0.94 0.06 Mtt=-1.21 0.08
Mff= 0.26 0.09 Mrt= 2.06 0.29
Mrf=-0.85 0.18 Mtf= 0.24 0.07
Principol Axes:

T	Vol= 2.37	Plg=57	Azm= 32
N	0.23	8	290
P	-2.60	32	195

Best Double Couple:Mo=2.5*10**17
NP1:Strike=260 Dip=15 Slip= 59
NP2: 112 77 98

ACX	0.89	117	iPd	44	07.20	0.2
			iS	44	20.20	
III	1.59	46	iPc	44	20.50	3.3X
			(S)	45	04.00	
UNM	2.49	35	iPc	44	32.60	2.4
IIJ	2.60	20	iPc	44	34.20	2.2
IIT	2.84	52	iP	44	34.50	-0.7
COLM	3.43	304	iP	44	42.27	-1.2
OXX	3.79	92	iPd	44	50.50	1.9
			iS	45	40.00	
LVVM	4.70	58	iP	45	08.00	6.6X
EVV	5.21	76	iP	45	08.00	-0.6
PSM	5.43	95	iP	45	14.00	2.3
			(S)	46	42.50	
SCX	7.72	93	(P)	45	50.50	6.7X
MZX	7.98	318	(P)	45	55.00	7.4X
MEO	17.53	6	iPd	47	54.00	-0.6
RRO	18.22	6	eP	48	05.30	2.2
ALQ	18.33	345	iPc+	48	05.90	1.3
	1.0s	153.75nm			5.1mb	
			e	48	14.50	
			eS	51	36.00	
ANMO	18.33	345	iPc	48	06.00	1.3
			pP	48	14.20	
TUL	19.06	12	iPc+	48	11.80	-1.5
	1.0s	10.00nm			4.0mb X	
Z	18s	6.07um			3.6MszX	
			eS	51	53.00	
			LR	53	08.00	
OLY	19.91	23	P	48	21.40	-1.5
GLA	20.23	324	eP	48	26.00	-0.2
BAR	21.06	320	eP	48	34.00	-0.8
PLM	21.63	321	eP	48	41.00	0.2
TPC	21.69	323	eP	48	42.00	0.8
UPA	22.17	109	ePd	48	47.80	1.8
	1.3s	153.85nm			5.3mb	
PEC	22.19	321	eP	48	46.80	0.7
			e	48	54.90	29km
RVR	22.38	321	eP	48	48.00	-0.1
FVM	22.50	22	P	48	47.30	-1.9
RSCP	22.66	33	P	48	48.60	-2.2
Z	20s	2.26um			4.6Msz	
GOL	22.71	351	P	48	51.00	-0.5
	1.0s	125.00nm			5.4mb	
GLD	22.73	351	ePc	48	51.90	0.2
			pP	49	00.30	30km
MWC	22.95	321	eP	48	56.00	2.1
PAS	22.97	320	eP	48	56.00	2.2
			ePg	49	45.00	
			ePcP	53	06.00	
			eLg	53	16.00	
			eLR	55	00.00	
			ePcS	56	35.00	
GSC	22.99	324	eP	48	55.00	0.9
SBB	23.13	322	eP	48	57.00	1.5
PRM	23.44	41	P	48	57.40	-1.0
CLC	23.80	324	eP	49	03.00	1.0
ISA	24.19	323	eP	49	07.00	1.2
JSC	24.26	42	ePd	49	06.80	0.4
			e	49	14.80	28km
SYP	24.34	319	eP	49	08.00	0.7
TNP	25.30	328	P	49	17.30	0.8
PRI	25.82	321	ePc	49	22.10	0.8
FRI	25.83	323	ePc	49	21.10	-0.1
LLA	26.30	321	eP	49	25.70	0.0
PRS	26.38	320	eP	49	26.60	0.3
KVN	26.48	328	P	49	28.50	1.0
BLA	26.70	38	P	49	28.40	-0.9
	0.8s	46.98nm			5.2mb	
CMB	26.95	324	eP	49	31.90	0.3
MHC	27.20	321	eP	49	34.60	0.6
ORV	28.64	325	eP	49	47.70	0.9
CBN	29.18	40	eP	49	51.00	-0.6
WDC	29.92	325	eP	49	53.10	-5.2X
LRM	30.10	343	ePc	50	00.20	0.0
FHC	30.87	324	P	50	04.70	-2.1
	0.9s	38.46nm			5.2mb	
TBR	32.91	38	P	50	23.50	-1.0
NEW	33.70	340	P	50	30.00	-1.4
	1.2s	23.67nm			5.0mb	
RSON	33.96	8	P	50	31.00	-2.5
	1.0s	27.11nm			5.1mb	
Z	20s	1.69um			4.8Msz	
SES	34.07	348	eP	50	34.00	-0.5
RSNY	34.95	33	P	50	41.00	-1.1
	1.0s	32.54nm			5.2mb	
Z	20s	5.65um			5.3Msz	
WNY	35.20	34	P	50	43.00	-1.3
PNT	35.45	339	ePc	50	46.00	-0.3
	1.4s	162.00nm			5.8mb	
HBVT	35.61	35	P	50	46.50	-1.3
PGC	36.37	334	eP	50	54.00	0.0
FFC	37.38	359	iPc	51	01.60	-0.9
	0.9s	28.00nm			5.1mb	
ARE	44.18	138	e(P)	52	12.00	12.7X
SCH	45.59	27	eP	52	09.00	-0.8
YKA	46.21	351	eP	52	13.60	-0.9
	1.0s	43.20nm			5.4mb	
ZOBO	46.27	134	P	52	15.20	-1.1
Z	20s	1.17um			4.8Msz	
			LR	08	18.00	
			S	59	14.00	
LPB	46.47	135	P	52	13.00	-4.7X
Z	18s	2.06um			5.1Msz	
			(PS)	02	20.00	
			LR	08	28.00	
CCH	48.40	134	P	52	33.50	0.8
SIV	51.16	128	Pc	52	51.00	-2.5
FRB	51.37	18	eP	52	53.50	-1.0
HON	54.01	284	P	53	15.00	0.3
Z	20s	0.53um			4.6Msz	
INK	55.07	346	iPc	53	21.10	-0.8
	1.0s	65.00nm			5.6mb	
PMR	55.78	334	P	53	26.00	-1.1
	0.8s	24.14nm			5.3mb	
Z	20s	2.00um			5.2Msz	
FBA	57.02	338	P	53	34.80	-1.1
	1.0s	35.75nm			5.4mb	
TTA	59.26	334	P	53	49.80	-1.9
	1.0s	32.50nm			5.4mb	
GDH	59.51	18	iPd	53	53.00	-0.2
	1.1s	53.16nm			5.6mb	
IMA	59.73	338	P	53	52.50	-2.5
	1.0s	7.50nm			4.8mb	
MBC	59.78	355	iPc	53	54.80	-0.2
	1.2s	110.00nm			5.9mb	
BAO	61.39	119	e(P)	54	05.00	-1.9
AKU	71.34	26	iPc	55	11.00	1.6
	1.1s	45.57nm			5.5mb	
DAG	71.44	14	iPc	55	08.80	-1.1
	1.0s	54.00nm			5.6mb	
VAL	76.86	39	eP	55	42.00	0.5
EKA	80.16	35	Pd	56	00.30	0.8
	0.8s	16.40nm			5.1mb	
LPF	83.60	42	eP	56	18.20	0.6
	1.4s	56.65nm			5.5mb	
GRR	83.60	41	eP	56	18.40	0.8
	1.2s	41.65nm			5.5mb	
FLN	83.72	41	eP	56	18.60	0.4
	1.4s	78.40nm			5.7mb	
LDF	84.00	41	eP	56	19.90	0.3
	1.0s	32.00nm			5.5mb	
TOL	84.05	50	eP	56	21.00	0.9
			eS	06	58.00	
NKM	84.33	55	iPc	56	23.00	1.5
MFF	84.64	43	eP	56	22.80	-0.1
	1.4s	69.70nm			5.7mb	
MAL	84.72	53	iPc	56	25.30	1.8
			iS	07	02.00	
AAPN	84.77	53	iPd	56	25.00	1.1
ATEJ	84.97	53	iPc	56	26.50	1.6
ASMO	85.04	53	iPd	56	26.50	1.3
IFR	85.12	57	iPc	56	26.00	0.2
APHE	85.21	53	iPd	56	28.00	1.9
LFF	85.79	44	eP	56	28.70	0.1
	1.2s	83.30nm			5.8mb	
KEV	85.79	16	eP	56	34.00	5.8X
LSF	85.85	43	eP	56	28.60	-0.4
	1.0s	27.00nm			5.4mb	
EPF	86.17	46	eP	56	30.60	-0.1
	1.2s	50.60nm			5.6mb	
LPO	86.17	44	eP	56	30.60	0.0
	1.2s	35.70nm			5.5mb	
RJF	86.17	44	eP	56	30.30	-0.3
	1.0s	40.00nm			5.6mb	
TCF	86.28	43	eP	56	31.20	0.1
	1.0s	22.00nm			5.3mb	
DOU	86.34	39	P+	56	32.30	1.0
			S	07	21.00	
MAF	86.53	43	eP	56	32.60	0.3
	1.2s	34.20nm			5.5mb	
APO	86.56	27	eP	56	31.90	-0.3
	0.9s	21.50nm			5.4mb	
BGF	86.59	42	eP	56	32.30	-0.3
	1.2s	31.25nm			5.4mb	
CAF	86.67	44	eP	56	33.10	0.0
	1.0s	10.00nm			5.0mb	
SSF	86.82	42	eP	56	33.60	-0.1
	1.2s	28.25nm			5.4mb	
AVF	86.83	42	eP	56	33.40	-0.3
	1.0s	12.00nm			5.1mb	
ENN	86.86	38	eP	56	34.00	0.2
	1.0s	39.00nm			5.6mb	
WTS	86.88	36	eP	56	34.50	0.7
	1.0s	12.00nm			5.1mb	
LOR	86.97	41	eP	56	34.20	-0.2
	0.8s	17.45nm			5.3mb	
MEM	86.98	38	P	56	34.70	0.4
EBR	87.03	48	eP	56	34.00	-0.8
LBF	87.15	42	eP	56	35.00	-0.4
	0.8s	10.75nm			5.1mb	
SMF	87.19	42	eP	56	35.10	-0.4
	1.0s	6.00nm			4.8mb	
SOD	87.24	18	eP	56	35.00	-0.3
HAU	88.23	40	eP	56	40.40	-0.1
	1.2s	20.85nm			5.3mb	
BSF	88.57	40	eP	56	41.80	-0.5
	1.2s	11.90nm			5.1mb	
CDF	88.63	39	eP	56	42.10	-0.4
	1.2s	11.90nm			5.1mb	
LPG	89.51	42	eP	56	47.00	0.0
	1.2s	13.40nm			5.1mb	
SUF	90.11	22	eP	56	48.00	-1.0
MOX	90.18	36	eP	56	49.00	-0.6
FRF	90.24	44	eP	56	49.60	-0.4
	1.2s	11.90nm			5.0mb	
LMR	90.24	44	eP	56	49.60	-0.4
	1.0s	10.00nm			5.0mb	
GRF	90.40	37	ePDIFc	56	52.00	1.3
Z	22s	0.40um			4.8Msz	
			ePP	00	30.00	
			e	08	01.00	
CLL	90.63	35	iPd	56	52.00	0.3

11d 23h

NUR	90.96	24	iP	56	52.60	-0.4
BRG	91.36	35	eP	56	55.40	0.3
	1.3s	20.00nm				5.3mb
			e	00	32.00	25km
			iSg	12	55.00	
			e	57	03.50	
WET	91.61	37	eP	56	56.60	0.3
	1.5s	35.00nm				5.5mb
KHC	92.02	37	P	56	58.80	0.6
Z	18s	0.80um				5.2Msz
N	18s	0.40um				
E	18s	0.30um				
			e	00	38.00	
PRU	92.14	36	eP	56	58.50	-0.1
			e	57	27.50	110kmX
KSP	92.66	34	eP	57	00.00	-1.0
TIC	93.42	82	P	57	05.00	-0.2
LIC	93.54	82	P	57	05.60	-0.1
Z	20s	0.32um				4.8Msz
KIC	93.77	82	P	57	06.80	0.0
ZST	94.50	36	eP	57	10.50	0.9
KRA	95.05	34	eP	57	12.20	0.2
			e	57	20.90	27km
SRO	95.40	36	iP	57	14.20	0.5
SPC	95.70	34	eP	57	14.70	-0.6
			e	00	43.00	
LZH	122.07	337	ePKP	02	43.50	-1.1
	1.5s	29.00nm				
MAIO	123.51	19	ePKP	02	48.00	0.7
			e	04	29.00	
WRA	127.98	258	PKPd	02	55.20	-1.1
	0.8s	7.80nm				
CHG	139.27	331	ePKP	03	14.00	-3.6X
HYB	145.51	1	iPKPc	03	27.40	-1.2
	1.0s	120.00nm				
NANU	145.61	255	ePKP	03	27.00	-1.5
SNG	147.85	317	ePKP	03	34.90	2.5
GBA	149.26	4	PKPd	03	34.10	-0.4
	0.8s	19.50nm				
IPM	149.48	313	ePKPd	03	40.20	5.2X
S.D. = 1.1 on 140 of 150 obs.						

MAY 12, 1990 00h 36m 48.97± 0.58s
36.370 N ± 7.9km 100.034 E ± 6.7km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
QINGHAI PROVINCE, CHINA (325)
ML 3.8 (BJI).

GTA	3.04	357	Pn	37	42.00	6.0X
			Pg	37	48.60	
			Sg	38	30.20	
LZH	3.09	94	Pnc	37	36.50	-0.3
			Pg	37	42.00	
			Sg	38	19.50	
XAN	7.64	105	eP	38	35.40	-5.4X
BTO	8.89	59	eP	38	58.00	-0.3
N	10s	0.20um				
E	10s	0.20um				
TIY	10.00	79	eP	39	13.40	-0.2
N	15s	0.70um				
WMQ	12.02	312	P	39	40.50	-0.4
			S	42	02.40	
GUN	14.65	239	P	40	15.70	-0.3
CHG	17.52	183	eP	40	52.80	0.5
CHTO	17.52	183	eP	40	52.00	-0.3
YKA	77.61	16	eP	48	44.20	1.2
	0.8s	0.50nm				3.6mb
S.D. = 0.7 on 8 of 10 obs.						

? MAY 12, 1990 00h 38m 53.94± 1.54s
31.456 S ±40.3km 69.339 W ±20.9km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.23	205	ePd	39	11.00	0.0
			S	39	23.70	
RTCB	0.46	94	iPd	39	12.00	0.0
			S	39	23.80	
ZON	0.57	99	eP	39	13.00	0.3
			eS	39	26.00	
RTLL	0.75	81	iPc	39	13.90	-0.2
RTCV	0.79	121	ePd	39	14.30	-0.1
			S	39	28.80	
CFA	0.95	99	iPc	39	15.80	0.0
			S	39	31.10	
S.D. = 0.2 on 6 of 6 obs.						

MAY 12, 1990 01h 26m 20.69± 0.57s
45.601 N ± 8.6km 5.330 E ± 4.0km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG). MD 2.6 (STR).

LPL	0.99	94	Pg	26	39.50	-0.6
LPG	1.00	95	Pg	26	39.80	-0.6
			Sg	26	53.20	
BNI	1.10	120	P	26	41.50	-0.3
			eSg	26	55.30	
EMS	1.21	67	eP	26	44.10	0.2
PLDF	1.25	288	Pn	26	44.25	-0.2
			Pg	26	45.70	
			Sg	27	02.65	
SMF	1.47	316	Pg	26	50.00	2.1
			Sg	27	08.00	
LBL	1.51	257	Pn	26	47.71	-0.7
			Pg	26	50.43	
DIX	1.53	71	eP	26	49.90	0.9
AGO	1.60	287	Pg	26	51.54	1.8
PYM	1.63	276	Pg	26	52.51	2.2
			Sg	27	13.86	
LBF	1.67	326	Pn	26	50.30	-0.5
			Pg	26	53.00	
			Sg	27	14.10	
AVF	1.82	312	Pg	26	56.00	3.2X
			Sg	27	18.60	
MMK	1.90	75	eP	26	56.10	1.9
SSF	1.93	320	Pg	26	58.40	3.9X
			Sg	27	22.00	
LOR	1.95	329	Pn	26	53.60	-1.2
			Sg	27	23.20	
BGF	1.98	300	Pn	26	54.60	-0.6
			Sg	27	24.40	
MAF	2.03	289	Pg	27	00.30	4.4X
			Sg	27	25.00	
TCF	2.28	289	Pn	26	59.20	-0.4
			Pg	27	04.80	
			Sg	27	33.00	
SBF	2.30	138	Pg	27	03.00	3.1X
			Sg	27	31.00	
CAF	2.40	255	Pn	27	00.20	-1.2
			Pg	27	07.20	
			Sg	27	36.80	
BSF	2.45	24	Pn	27	00.80	-1.3
			Pg	27	05.80	
			Sg	27	36.40	
HAU	2.51	16	Pn	27	02.20	-0.6
			Pg	27	07.20	
			Sg	27	37.80	
RJF	2.70	265	Pg	27	13.20	7.6X
			Sg	27	45.40	
LSF	2.73	285	Pn	27	04.90	-1.1
			Pg	27	13.20	
			Sg	27	47.80	
SLE	3.07	44	eP	27	17.40	6.6X
CDF	3.11	25	Pn	27	08.00	-3.4X
			Sg	27	56.00	
S.D. = 1.3 on 19 of 26 obs.						

MAY 12, 1990 04h 50m 08.71± 0.07s
49.037 N ± 1.7km 141.847 E ± 1.6km
DEPTH = 605.7km (geophysicist)
6.5mb (65 obs.)
SAKHALIN ISLAND (662)
mb 6.8 (BRK), 6.2 (PAS).
Mo=6.0*10**19 Nm (PPT). Felt (V) at Aniva, Ogonki and Peschonskoye; (IV) in the Korsakov-Nevelsk-Tomori areo; (III) in the Uglegorsk-Poronoysk-Makorov areo, Sakhalin. Felt (II) at Komsomolsk-na-Amure, USSR. Felt (III JMA) at Kushiro, Hokkaido. Also felt (III JMA) at Hachinohe and Morioka; (II JMA) at Tokyo and Yokohama, Honshu. Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 55 Dip=80 Slip= -73
NP2: 175 20 -149
Principal Axes:
T Plg=33 Azm=131
P 52 345
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 11 Focal mech. M
Energy 6.5±1.8*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 609 No. of sta: 22
Moment Tensor; Scale 10**19 Nm
Mrr=-3.26 Mtt=-3.20
Mff= 6.45 Mrt=-2.86
Mrf=-4.22 Mtf= 3.74
Principal axes:
T Vol= 9.63 Plg=21 Azm=111
N -3.52 34 216
P -6.11 48 356
Best Double Couple:Mo=7.9*10**19
NP1:Strike=158 Dip=39 Slip=-154
NP2: 47 74 -54
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C M.W.: 11S, 26C
Centroid Locotion:
Origin Time 04:50:16.6 0.2
Lot 48.94N 0.02 Lon 141.38E 0.03
Dep 612.5 1.6 Half-durotion 15.0
Moment Tensor; Scole 10**19 Nm
Mrr=-3.57 0.08 Mtt=-0.87 0.11
Mff= 4.43 0.12 Mrt=-6.12 0.09
Mrf=-2.66 0.09 Mtf= 2.47 0.10
Principol Axes:
T Vol= 7.85 Plg=27 Azm=126
N 0.66 25 229
P -8.51 52 356
Best Double Couple:Mo=8.2*10**19
NP1:Strike=172 Dip=29 Slip=-151
NP2: 56 76 -64

YSS	2.10	164	iPd	51	26.00	2.5
			iS	52	24.00	
SAP	5.99	184	iP	51	49.90	-0.6
			iS	53	10.00	
MDJ	9.49	247	iPc	52	22.90	0.1
			iS	54	04.00	
			ScS	03	47.50	
PET	11.30	63	iPc	52	40.00	-0.4
			eS	54	32.00	
CN2	12.46	251	iPc	52	51.00	-0.7
	4.0s	********nm				6.9mb X
			esP	54	48.00	
MAT	12.77	193	iPd	52	54.80	0.0
			eS	55	11.00	
TSRJ	14.16	200	iPd	53	08.50	0.2
			S	55	36.70	
HIA	14.46	279	iPc	53	11.54	0.3
SNY	14.69	247	iPc	53	13.50	0.1
	6.5s	********nm				6.7mb X
			sP	55	24.00	
			iScS	03	54.20	
YONJ	15.16	207	iPd	53	19.30	1.4
WKYJ	15.52	200	iP+	53	22.30	0.8
SHK	16.01	208	iPc	53	26.90	0.8
TKSJ	16.12	204	iP+	53	28.30	1.1
SHNJ	16.90	212	iP+	53	34.70	0.1
			iS	56	21.60	
DL2	17.68	243	P	53	42.00	0.1
	5.0s	********nm				6.8mb X
BJI	20.31	253	eP	54	07.12	1.0
			esP	56	36.00	
			eS	57	16.00	
			eScS	04	14.00	
SMY	20.59	67	ePc	54	08.70	0.2
TIA	22.14	244	Pc	54	22.10	-0.6
	9.0s	6900.00nm				6.3mb X
			ScP	00	35.00	
			ScS	04	15.90	
HHC	22.83	260	iPd	54	29.60	0.5
	3.0s	********nm				7.2mb
TIK	23.45	350	iPd	54	33.00	-1.2
			iS	57	15.00	
SSE	23.77	229	Pd	54	36.00	-1.3
			sP	57	20.00	
			S	58	15.00	

12d 04h

IRK	23.84	292	iPd	54	38.00	0.2				e	59	07.00	576kmX	OBN	58.89	320	iPd	59	11.00	-1.3
			eS	57	20.00		YKU	44.34	46	ePd	57	28.40	0.8		Z 18s	46.00um			6.6Msz	
BTO	23.96	261	iPd	54	38.00	-1.1	HYT	44.87	43	Pd	57	32.70	0.8				iS	06	29.00		
	4.0s	********	nm		6.9mb	X	MBC	45.01	20	iPc	57	32.50	-0.1	MAIO	59.03	291	iPd-	59	13.50	-0.1
TIY	24.04	253	iPd	54	40.00	0.2		0.5s	294.00nm			6.1mb					eS	06	36.00		
	7.0s	********	nm		6.7mb	X	SHL	45.13	257	iP	57	34.00	-0.3	GMW	59.19	52	iPd	59	14.30	-0.2
			pP	54	44.00	14kmX				iS	03	16.00		HYB	59.58	262	iPd	59	16.20	-1.1
			sP	57	19.00		LOE	45.22	240	iPd	57	34.00	-0.9		1.0s	890.00nm			5.9mb	
			sS	58	20.00		CHG	45.74	244	iPd	57	39.00	0.2				e	59	56.20	172kmX
NJ2	24.21	234	iPd	54	40.50	-0.7				eS	02	30.00					e	00	24.20		
	4.0s	3500.00nm			6.3mb	X	FRU	45.78	289	iPd	57	39.80	0.9				e	00	56.20		
ADK	26.30	68	eP	54	55.90	-3.4X				eS	03	37.00					e	01	20.20		
	1.3s	2339.60nm			6.7mb		KSH	46.78	284	iPc	57	48.00	1.4				e	02	12.20		
ILT	27.22	32	iPd	55	05.20	-2.0				S	03	57.00					eS	06	32.00		
			iS	59	00.00		GUN	47.43	265	P	57	51.40	-0.6	NUR	59.64	329	iPd	59	16.00	-1.2
WHN	27.83	239	iPd	55	12.50	-0.3	SIT	47.51	47	iPd	57	52.80	1.1				i	59	55.80	171kmX
	4.0s	7700.00nm			6.7mb	X	NST	47.52	240	iPd	57	55.50	3.2X				i	01	14.00		
			iS	59	12.00					e	59	46.40	625kmX				i	01	35.40		
XAN	28.57	251	iPd	55	19.00	-0.3	KKM	48.02	215	iPc	57	56.20	0.0				e	02	14.00		
	5.0s	********	nm		6.7mb	X				i	59	46.00	611kmX				e	03	16.00		
			PcP	58	10.00					i	02	08.80					e	04	28.00		
QZH	30.16	226	Pc	55	32.00	-0.8				e	04	11.80					e	06	38.00		
	4.0s	3100.00nm			6.3mb	X	DMN	48.14	265	P	57	56.50	-0.7				e	08	00.00		
			sP	58	20.00		KBS	48.93	349	iPd	58	02.00	-0.1				e	10	12.00		
			iS	59	50.00		TSM	49.03	212	ePd	58	03.00	-0.5	PNT	59.64	49	iPd	59	16.70	-0.7
LZH	30.51	259	iPd	55	37.07	1.2		1.0s	5377.90nm			7.0mb		BMW	59.66	53	iPc	59	17.50	-0.1
			epPd	57	14.07					e	02	13.20		RMW	59.76	51	iPc	59	18.00	-0.3
			isPc	58	25.25		DSH	51.86	288	iPd	58	24.00	-0.1	EDM	59.97	42	iPd	59	18.70	-0.8
			iS	59	54.00					iS	05	00.00		LON	60.22	52	iPd	59	21.45	0.1
GTA	31.26	268	iPd	55	43.50	1.3	APA	52.05	332	iPd	58	23.70	-1.3				esPc	02	23.21		
	6.0s	********	nm		6.9mb	X	KEV	52.44	337	iPd	58	26.89	-0.8	HNR	60.36	159	eP	59	20.00	-2.3
			sP	58	30.50					i	59	09.00					e(S)	06	04.00		
CD2	33.90	252	iPd	56	04.00	-0.2				ePcP	59	26.98		SHW	60.36	53	iPc	59	22.50	0.1
	4.0s	********	nm		6.9mb	X				iPcP	59	27.14		PPI	60.84	229	ePd	59	24.70	-0.8
			ipP	57	36.50	534kmX				epPc	00	17.47	593kmX		0.7s	310.90nm			5.7mb	
GZH	34.30	231	Pd	56	07.40	-0.1				e	01	16.00		DPW	61.31	49	iPd	59	27.70	-0.7
	5.0s	4600.00nm			6.4mb	X				esPc	01	25.01		GDH	61.49	6	iPd	59	28.06	-1.0
HKC	34.53	229	eP	56	10.50	1.1				eScP	02	26.06					epPd	01	27.25	611kmX
			iS	57	48.70					e	03	16.00					ePP	01	53.72		
MCO	34.99	230	iP	56	13.40	0.2				e	05	08.00					esPc	02	31.80		
SDN	35.00	57	eP	56	10.40	-2.6				e	08	32.00					i	07	03.00		
GYA	35.33	243	iPd	56	16.00	-0.1	NDI	52.61	272	iPd	58	28.00	-1.5				i	10	35.00		
	3.0s	2700.00nm			6.3mb			0.5s	725.35nm			6.4mb		NEW	61.57	48	iPc	59	29.00	-1.1
			sP	59	08.00					iS	05	09.00		VGB	61.58	52	iPd	59	30.00	-0.1
			S	01	06.00		YKA	53.47	34	eP	58	33.90	-1.2	POO	61.85	266	iPd	59	31.00	-1.1
			ScS	05	22.00			0.8s	1531.20nm			6.4mb			1.2s	1609.38nm			6.2mb	
GUMO	35.43	175	eP+	56	12.70	-4.1X	RAB	53.77	167	iPc	58	36.50	-1.2	BOM	62.27	267	iPd	59	34.00	-0.7
PJG	35.43	175	eP	56	12.60	-4.2X	DAG	53.86	355	iPd-	58	36.00	-1.7				iS	07	13.00		
BRW	35.48	29	iPd	56	17.10	0.4		1.0s	1030.00nm			6.1mb		MTN	62.33	192	iPc	59	34.40	-0.6
GUA	35.48	175	ePc	56	13.10	-4.2X	Z	20s	107.52um			6.9Msz					e	03	16.00		
	1.0s	5600.00nm			7.1mb		N	20s	56.17um								e	07	15.00		
			e	56	16.80		E	20s	118.44um					UPP	62.40	332	iPd	59	33.90	-1.2
			pP	57	41.20	471kmX	KTK1	53.93	337	iPd	58	39.70	1.5				i	59	34.60		
			PcP	58	22.00		SOD	54.14	334	iPd	58	39.00	-0.8				ipP	01	34.90	620kmX
			eS	01	01.80		BK82	54.54	211	iPc	58	46.50	3.4X				iPP	03	10.00		
			ScP	01	06.00			1.2s	5161.80nm			6.7mb					iS	07	13.20		
TTA	35.88	44	P	56	19.60	-0.6	TRO	54.54	339	iPd	58	41.70	-0.8				iScS	08	22.50		
SVW	36.33	47	iPd	56	24.60	0.7	KIP	54.64	98	iPd	58	44.41	0.6	SES	62.96	43	iPd	59	38.50	-0.4
IMA	36.57	38	iPd	56	25.70	-0.2				iScP	02	36.89			1.1s	2453.00nm			6.5mb	
BAG	36.87	215	iPc+	56	27.00	-1.8	HON	54.72	98	P	58	43.60	-0.7	MOL	62.97	338	iP	59	38.00	-0.7
	1.2s	1381.25nm			6.4mb		MNDI	54.98	178	eP	58	45.00	-1.4	FHC	63.01	58	iPd	59	40.30	0.9
			e	58	04.00	534kmX	LAT	55.64	174	iPc	58	50.00	-0.6		1.0s	929.00nm			6.2mb	
WMQ	37.02	283	iPd	56	31.29	1.6	IPM	56.21	232	ePd	58	55.30	0.6				eS	07	22.60		
			ipPd	58	12.27	567kmX		1.0s	657.90nm			5.9mb		NB2	63.31	336	P	59	39.80	-1.2
			isPc	59	23.12					e	59	43.20	212kmX	HFS	63.36	334	eP	59	40.00	-1.2
QCP	38.31	214	iP	56	35.00	-5.4X				e	00	50.20			0.5s	6999.30nm			7.3mb	
KDC	38.65	51	iPd	56	41.70	-1.0	KLM	57.15	230	eP	59	01.50	0.4	Z	19s	32.35um			6.5Msz	
KMI	38.66	246	Pd	56	43.50	0.0	KGM	57.26	228	ePd	59	02.00	0.2				LR	27	17.00		
	1.0s	1.90nm			3.6mb	X		0.7s	752.70nm			6.0mb		FFC	63.58	36	iPd	59	41.80	-0.9
COL	39.16	40	iPd	56	47.06	0.2				e	59	15.10	47kmX		0.7s	985.00nm			6.3mb	
			isPc	59	35.90					e	00	58.20		WDC	63.97	58	iPd	59	45.40	0.0
FBA	39.16	40	iPd	56	46.80	0.0	SUF	57.54	331	iP	59	02.20	-1.0				eS	07	33.70		
PMR	39.29	45	eP	56	47.00	-0.9	PFH	58.02	97	P	59	06.80	-0.1				eP'P'	27	46.80		
	0.8s	2397.30nm			6.8mb		PGC	58.14	51	iPc	59	07.10	-0.3				e	30	46.40		
QIZ	39.47	232	Pd	56	51.00	1.2		0.6s	1183.00nm			6.3mb		TEH	64.31	295	ePd	59	48.00	0.2
	6.0s	5200.00nm			6.2mb	X	PUL	58.18	326	iP	59	09.00	1.4	LTCM	64.45	58	P	59	48.00	-0.4
			iS	02	12.00					iS	06	22.00		HYA	64.51	338	iPd	59	47.80	-0.6
TOA	40.52	44	iPd	56	58.10	0.3	QUE	58.32	281	iPd-	59	08.10	-1.0	AKU	64.57	351	iPd	59	49.70	1.0
LSA	42.79	262	iP	57	17.00	0.4				ePcP	00	22.00			1.1s	5265.82nm			6.9mb	
			PcP	58	50.00					ePP	01	08.50					e	01	48.80	597kmX
			ScP	01	45.00					eS	06	24.60					i	27	45.30		
			S	02	58.00					e	07	54.30					e	30	43.50		
			sS	06	07.00		JNW	58.36	349	iPd	59	09.50	0.9	MIN	64.65	57	iPd	59	49.20	-0.6
DWY	42.88	39	Pd	57	15.50	-0.8	PMG	58.38	174	iPc+	59	07.60	-1.7				eS	07	47.20		
INK	43.79	32	P	57	23.00	-0.3	TSI	58.41	233	eP	59	08.00	-1.5	BKR	64.66	305	iPd	59	51.00	1.1
DAV	44.01	204	ePc+	57	24.00	-1.5	MCW	58.44	51	iPd	59	09.40	-0.1				iS	07	47.00		
	1.4s	5116.28nm			6.9mb		BSI	58.52	238	ePc	59	08.00	-2.3	KONO	64.92	335	iPd	59	49.18	-1.8

12d 04h

			epPc	01	46.05	581kmX					isP	03	20.00			MLR	70.55	318	iPd	00	25.00	-0.3
			esPc	02	53.59						ePPP	04	30.00						e	28	09.00	
SUE	64.95	339	iPd	59	50.70	-0.5					eS	08	27.00			SBB	70.77	59	iPd	00	27.00	0.4
FRB	65.04	14	eP	59	50.00	-1.7					eSP	08	51.00						e	02	30.00	602kmX
HRY	65.22	47	iPd	59	53.20	-0.1					eScS	09	07.50						e	08	51.00	
NWRM	65.23	59	P	59	52.80	-0.4					ePS	09	14.00						e	30	08.00	
ORV	65.25	58	iPd	59	52.80	-0.6					esS	12	10.50						e	30	31.00	
			eS	07	47.70						eSS	13	00.00			EDU	70.80	340	iPd	00	25.80	-0.5
			eP'P'	27	43.40		TNP	68.66	56	iPd	00	14	40	0.0		RSSD	70.81	44	iPd	00	26.30	-0.6
			e	30	41.30		CTA	68.92	176	iPc+	00	14	20	-1.5		GSC	70.90	58	iPd	00	27.00	-0.4
ASK	65.35	338	iPd	59	53.20	-0.4				iPP	02	14	00						e	02	33.00	622kmX
BER	65.40	338	iPd	59	53.50	-0.4				iS	08	31	00						eS	08	52.00	
ODD1	65.48	337	iP	59	54.20	-0.3				i(sS)	09	18	00						e	30	05.00	
KNA	65.53	194	iPc	59	54.40	-0.8				iSS	12	00	00						e	30	36.00	
LRM	65.56	48	iPd	59	55.50	-0.1	CTAO	68.92	176	iPc	00	14	29	-1.4		CLL	70.91	329	iPd	00	26.50	-0.5
KOD	65.61	257	iP	59	55.00	-1.2				ipPc	02	13	14	581kmX					ipP	02	30.50	609kmX
			eS	07	51.00					esPd	03	19	69						iS	08	53.00	
TAB	65.65	300	iP-	59	57.00	1.0	W85	68.93	188	iPc	00	14	70	-1.0					(SKS)	09	25.00	
LCCM	65.83	47	iPd	59	57.00	-0.1				eS	08	36	00						P'P'	28	09.00	
BLS1	65.88	337	iPd	59	56.90	-0.2				eSKKP	25	42	00			PSN	70.94	315	iPd	00	28.00	0.7
OSG	65.89	339	iP	59	53.00	-3.9X				e	27	25	00			BRG	70.95	328	iPd	00	27.00	-0.3
BRK	65.99	60	ePd	59	57.70	-0.2	KVT	69.06	309	iP	00	17	10	0.6			1.2s	1300	.00nm			6.3mb
			epP	02	00.00	614kmX	BCH	69.13	60	iPd	00	16	90	-0.2					i	00	41.70	52kmX
			esP	03	04.00					iS	08	35	00						i	02	30.50	
			iS	07	59.00		CLI	69.14	318	iPc	00	16	50	-0.4					i	03	06.00	
			i(sS)	11	04.00		BW06	69.21	48	iPd	00	17	00	-0.6					i	06	12.00	
PCC	66.19	60	ePd	59	58.70	-0.4	PTT	69.24	319	eP	00	17	50	0.1					i	08	56.00	
BGMT	66.19	48	iPd	59	59.40	0.0	PPE	69.25	317	eP	00	17	00	-0.5					i	12	36.00	
MEMT	66.44	47	ePd	00	01.20	0.4	QIS	69.30	182	iPc	00	16	70	-1.2					i	18	04.00	
KMY	66.44	337	iPd	00	00.30	0.0				e	08	33	00			PAS	70.97	60	iPd	00	28.10	0.4
REY	66.45	352	iPd	00	01.10	0.8				e	13	16	00						ePcP	01	09.00	
			i	02	04.30	618kmX	KRA	69.42	324	iPd	00	18	30	-0.1					epPc	02	30.26	596kmX
			e	30	40.50			0.6s	2878	.00nm				7.0mb					epPcP	03	07.00	
MHC	66.72	60	ePd	00	02.50	0.0	Z	20s	59	.00um				6.8Msz					esPc	03	33.50	
GCC	66.73	60	ePd	00	02.10	-0.4	E	20s	69	.40um									epPP	04	30.00	
ARN	66.77	59	P	00	02.50	-0.3				i	00	27	60	30kmX		MWC	70.98	60	iPd	00	28.00	0.0
CMB	66.94	58	iPd	00	03.89	0.1				i	02	21	00						e	02	34.00	622kmX
			epPc	02	05.06	602kmX				i	03	06	00						eS	08	57.00	
			ePP	02	43.62					iS	08	38	00						e	30	08.00	
			isPc	03	05.98		DUG	69.47	52	iPd	00	19	20	0.1					e	30	29.00	
			eS	08	12.50		UZH	69.63	322	iPd	00	20	00	0.4		ELO	71.03	341	iPd	00	27.20	-0.5
			eP'P'	27	31.70					iS	08	31	00			MSU	71.05	53	iPc	00	29.00	0.6
			e	30	40.40		SYP	69.66	61	iPd	00	20	00	-0.3		PVPS	71.10	60	iP	00	29.30	0.9
SIM	67.18	313	iPd	00	05.00	-0.1				e	02	26	00	626kmX		CMP	71.13	318	iPc	00	32.00	3.6X
			iS	08	16.00					e	08	44	00			TNR	71.16	319	iPc	00	22.00	-6.6X
SAO	67.23	60	iPd	00	05.00	-0.5				e	30	42	00			EBH	71.19	340	iPd	00	28.30	-0.3
			epP	02	13.00	649kmX	ISA	69.70	59	iPd	00	19	00	-1.4		ESY	71.29	340	iPd	00	28.40	-0.8
			ePP	03	10.00					e	02	45	00	768kmX			0.5s	858	.00nm			6.5mb
			e	04	32.00					e	08	40	00			CIS	71.37	60	eP	00	30.10	0.0
			e	05	40.00					e	30	05	00			EDI	71.41	340	iPd	00	30.00	0.1
			iS	08	16.00					e	30	28	00			EAB	71.42	341	iPd	00	29.70	-0.2
			e	08	50.00		ISA	69.70	59	eP	00	19	90	-0.5		VPD	71.44	60	iP	00	30.30	-0.1
			e	11	59.00		RSON	69.73	34	P	00	18	00	-2.2					ipP	02	37.00	625kmX
			e	12	58.00		CFR	69.80	316	iPd	00	21	00	0.3		PRU	71.48	327	Pd	00	30.70	0.3
			e	16	23.00		BRN	69.91	329	iPd	00	21	80	0.6			1.5s	299	.10nm			5.6mb
COP	67.43	332	iPc	00	06.30	0.0				ipP	02	25	00	606kmX			Z 22s		37.50um			6.6Msz
	0.9s	1546	.22nm			6.5mb	VRI	69.91	318	ePd	00	20	50	-0.9			N 16s		60.20um			
KVN	67.48	56	iPd	00	07.80	0.5				ed	27	17	00				E 20s		43.20um			
PRS	67.58	60	ePd	00	07.60	-0.1	KAS	70.00	310	iPd	00	23	60	1.6					e	02	34.30	604kmX
			eS	08	18.10		SPC	70.00	324	iPd	00	22	00	-0.1					S	05	02.00	
			e	30	48.50					i	00	30	10	26kmX					i	09	00.00	
LLA	67.62	60	ePd	00	08.20	0.3				i	01	57	10			EBL	71.52	340	iPd	00	30.20	-0.3
			eS	08	19.40					i(PP)	02	11	40			RVR	71.53	59	eP	00	30.70	-0.2
			eP'P'	27	33.30					i	07	23	40			EAU	71.55	340	iPd	00	30.40	-0.3
IMW	67.70	48	ePd	00	09.00	0.3	RAC	70.07	325	iP	00	23	50	1.4			0.6s	1018	.00nm			6.5mb
PTI	67.74	50	iPd	00	09.20	0.4				e	02	26	00	601kmX		SCI	71.60	61	eP	00	32.30	0.9
SLY	67.85	299	iPc	00	09.50	0.3				eS	08	47	00			WIT	71.64	333	iPd	00	32.20	1.0
			ipP	02	11.00	602kmX	CLC	70.08	58	iPd	00	22	00	-0.6					epP	02	35.00	598kmX
			isP	03	13.50					e	02	28	00	625kmX					ePP	03	00.00	
			iPP	04	28.50					eS	08	40	00						e(P'P'	28	11.00	
			i	05	59.00					e	30	04	00						e(pPKP	30	17.00	
			iS	08	20.50					e	30	26	00			BBTK	71.65	310	iPd	00	32.00	0.3
			iSPP	09	04.50		DAU	70.11	51	iPd	00	32	20	9.2X		DHR	71.69	289	iPd	00	31.00	-0.9
			isS	11	54.00		KSP	70.14	327	iPd	00	22	50	-0.1		PEC	71.73	59	iPd	00	31.30	-0.8
			iSS	12	49.00					iPP	02	24	00						ipP	01	36.80	283kmX
FRI	68.06	59	ePd	00	10.00	-0.5				iS	08	45	00						iS	09	03.70	
			eS	08	23.70		BHD	70.15	298	iPc	00	23	50	0.6		SRO	71.87	324	iPd	00	33.80	1.2
			eP'P'	27	28.60					ipP	02	26	00	601kmX					i	02	36.90	600kmX
			e	30	41.00					isP	03	30	00			DRA	71.93	318	iPd	00	34.00	1.0
PRI	68.12	60	ePd	00	11.60	0.5				ePP	04	52	00			MOX	71.94	329	iPd-	00	33.00	0.0
	0.9s	524	.00nm			6.1mb				iS	08	46	00				2.2s	5905	.00nm			6.7mb
			eP'P'	27	31.20					iSPP	09	26	00				Z 18s		29.50um			6.6Msz
PKEM	68.49	60	P	00	14.00	0.9				iSS	13	04	00				N 18s		35.80um			
			pP	02	18.00	617kmX	TLB	70.31	316	iPc	00	38	00	14.4X			E 18s		13.80um			
IAS	68.53	318	eP	00	12.00	-1.1	CEI	70.32	321	iP	00	27	00	3.4X					ipP	02	32.00	574kmX
MSL	68.63	301	iPc	00	14.00	0.0	PVC	70.52	153	iPc	00	25	00	-0.1					iS	09	05.00	
			ipP	02	12.50	580kmX				i	02	29	90	616kmX		EKA	71.95	340	Pd	00	32.70	-0.3

	0.7s	984.50nm			6.4mb		BEO	73.44	321	iP	00	41.50	-0.1		CSS	75.06	306	ePd	00	50.30	-0.5															
GZR	72.00	320	iPd	00	35.50	1.9	GOL	73.59	48	iPd	00	43.20	0.3		SRS	75.06	316	iPd	00	50.70	0.1															
ZST	72.02	325	iPd	00	34.30	0.8	GLD	73.63	48	iPd	00	43.50	0.5		PLE	75.10	320	iPd	00	51.50	0.5															
			i	02	38.80	608kmX				i	08	02.00						e(S)	09	45.00																
TPC	72.20	58	iPd	00	34.00	-0.9				eS	09	25.50			IVA	75.26	320	iPd	00	52.20	0.4															
			e	02	42.00	631kmX	ENN	73.66	333	iPd	00	42.40	-0.3		CDF	75.30	331	iPd	00	52.00	0.0															
			e	08	01.00			0.7s	427.00nm				6.1mb		QLP	75.30	178	iPc	00	52.20	0.2															
			e	30	24.00					e	01	12.50						e	02	59.00	613kmX															
TPC	72.20	58	eP	00	35.00	0.1				epP	02	46.00	597kmX		SKO	75.33	318	iPd	00	52.50	0.4															
VKA	72.26	325	iPd	00	35.30	0.4				ePP	03	20.00				1.5s	5814.00nm				6.9mb															
	5.6s	********nm			7.1mb X					e(P'P'	28	02.00						i	00	53.00	2kmX															
			ipP	02	40.70	613kmX				e(pPKP	30	06.00						i	00	58.00																
			iPP	03	24.50		PGB	73.66	317	iPd	00	44.00	1.0					i	01	05.00																
			i	03	45.50		GLA	73.66	58	iPd	00	44.00	0.9					i	01	13.70																
			i	04	49.20					e	02	51.00	619kmX					i	02	49.00																
			ipPP	05	11.90					eS	09	15.00						i	02	56.50																
			i	05	24.00					e	30	24.00						iPP	03	43.00																
			i	06	17.30		SGE	73.67	144	ePc	00	43.80	0.5					i	05	25.50																
			iS	09	12.00		EDC	73.67	313	iP	00	43.50	0.5					i	05	36.50																
PLM	72.29	59	iPd	00	35.00	-0.6	SCH	73.76	17	iPd	00	42.60	-0.7					i	06	38.00																
			e	02	40.00	611kmX	TOD	73.76	330	eP	00	43.29	-0.1					i(PSP)	07	13.20																
			eS	09	04.00		PLD	73.77	316	iPd	00	45.00	1.5					i	07	42.00																
			e	30	03.00		MEM	73.77	332	iPd	00	43.10	-0.2					iS	09	44.50																
			e	30	33.00					ipPc	02	49.66	616kmX					i	09	46.00																
WTS	72.31	333	iPd	00	34.90	-0.2	KGT	73.86	314	iP	00	44.70	0.7					i	09	48.50																
	0.7s	528.00nm			6.2mb		RUWJ	73.92	301	Pc	00	46.80	2.2					i	10	06.50																
			e	01	02.00		ABH	73.93	331	eP	00	44.11	-0.2					i	10	18.00																
			epP	02	40.00	611kmX	BHG	73.98	327	iPd	00	45.40	0.8		VAY	75.35	317	iPd	00	52.80	0.6															
			ePP	03	06.00		KRO	73.99	143	iPc	00	46.10	1.1			1.4s	6790.00nm				7.0mb															
			esP	03	27.00		VTS	74.05	318	iPd	00	46.00	0.7		TRI	75.36	325	iPd	00	51.70	-0.5															
			ePPP	05	07.00					S	09	30.00						i	03	00.00	623kmX															
			e(P'P'	28	04.00		RZN	74.09	316	iPd	00	46.00	0.4					iPP	03	42.00																
			e(pPKP	30	10.00		OVA	74.09	143	ePd	00	46.40	0.9					iPPP	05	24.00																
BZS	72.32	320	iPc	00	34.50	-0.7	UCC	74.10	334	Pd-	00	43.90	-1.2					iS	10	15.00																
TIM	72.38	321	iPd	00	35.00	-0.6				ipP	02	50.00	612kmX					iSS	15	04.00																
HRT	72.44	313	iP	00	36.70	0.6				isP	03	50.00						iSSS	18	00.00																
CPE	72.50	60	eP	00	36.90	0.4				S	09	27.00						iLR	24	56.00																
GPA	72.53	312	iP	00	36.60	0.0	RDO	74.14	315	iPd	00	46.00	0.4		RIY	75.43	325	iPd	00	51.80	-0.8															
ITU	72.53	313	iPc	00	36.00	-0.5	FUR	74.17	328	iPd	00	46.20	0.5		RMQ	75.43	174	iPc	00	53.40	0.7															
ISK	72.54	313	iP	00	36.20	-0.4	RUP	74.24	331	eP	00	45.80	-0.3					e	03	00.00	611kmX															
KHC	72.54	327	iPd	00	37.00	0.5	KTD	74.25	331	eP	00	45.80	-0.3					i	09	46.90																
	1.0s	692.00nm			6.1mb		VUN	74.26	144	iPc	00	47.70	1.3		SHMJ	75.44	303	Pd	00	52.70	-0.2															
Z	18s	34.90um			6.7Msz		SVA	74.35	144	eP	00	47.90	1.0		PVY	75.46	320	iPd	00	53.00	0.0															
N	19s	63.20um								e	09	39.70						e(S)	09	47.00																
E	20s	27.10um					STU	74.36	330	iPd-	00	46.60	0.0		ELL	75.46	310	iP	00	52.80	-0.3															
		e	02	42.50	613kmX			1.0s	2140.00nm				6.6mb		SLE	75.46	330	iPd	00	52.50	-0.3															
		S	09	10.00		PTJ	74.36	324	iPd	00	46.80	0.0		ADI	75.47	304	iPd	00	53.90	0.8															
DMK	72.58	314	iP	00	36.90	0.1	SNF	74.37	333	iPd	00	46.33	-0.3		IZM	75.49	312	iP	00	53.00	-0.1															
MBL	72.59	202	iPc	00	36.50	-0.5				i	27	00.55			ECH	75.51	331	P	00	53.05	0.0															
		eS	09	10.00		KRW	74.41	330	eP	00	47.41	0.5		FEL	75.53	330	eP	00	52.92	-0.3															
PVL	72.61	317	iPd	00	38.00	1.1	ZAG	74.42	324	iPd	00	47.30	0.3		SAX	75.62	329	iPd	00	54.00	0.0															
JMB	72.62	315	iPd	00	37.00	0.0				iPP	02	54.00			HLBJ	75.63	302	P	00	53.70	-0.3															
PV09	72.63	51	iP	00	37.50	-0.1				iS	09	35.00			PPCY	75.64	307	ePd	00	53.50	-0.4															
		iS	09	16.50		KHL	74.43	311	iP	00	47.50	0.1		NKY	75.69	320	iPd	00	53.80	-0.4															
		e	28	07.70		WLF	74.56	332	iPd	00	48.55	0.9		JARJ	75.71	303	Pd	00	54.20	-0.3															
SOP	72.65	325	iPd	00	39.10	2.0	BCK	74.57	310	iP	00	47.50	-0.6		CIN	75.71	311	iPc	00	55.00	0.7															
DBN	72.70	334	iP-	00	38.00	0.7	DOU	74.65	333	iPd-	00	48.00	-0.2		THE	75.73	317	ePd	00	53.60	-0.7															
		epP	02	43.00	609kmX					pP	02	50.00	585kmX		ZLA	75.75	329	iPd	00	54.40	0.0															
		iPP	03	30.00						sP	03	49.00			BURJ	75.78	303	Pc	00	54.50	-0.4															
		ePPP	05	14.00						e	05	23.00			BRY	75.81	321	iPd	00	54.20	-0.7															
		iS	09	16.00						e	08	20.00						e(S)	09	50.50															
		ePS	09	48.00						S	09	33.00			OSS	75.84	328	iPd	00	55.30	0.3															
		eSS	12	52.00						sS	13	23.00			MOF	75.84	330	P	00	54.83	-0.1															
HAY	72.72	58	eP	00	38.20	0.4				P'P'	28	00.20			CTI	75.85	327	Pd	00	54.30	-0.7															
YLV	72.78	313	iP	00	38.20	0.1				e	30	10.20			MML	75.85	303	iPd	00	56.40	1.2															
WET	72.78	328	iPd	00	38.40	0.5	FAM	74.67	306	eP	00	48.00	-0.6		VITF	75.88	331	P	00	55.04	0.1															
		iS	09	16.50		KKB	74.69	317	iPd	00	49.00	0.4		QASM	75.89	293	iPd	00	55.00	-0.5															
GRF	72.89	329	ePd	00	39.20	0.8	GWF	74.69	331	P	00	48.65	0.1		TTG	75.89	320	iPd	00	55.00	-0.2															
	0.9s	5904.00nm			7.1mb		LFK	74.71	306	iP	00	48.90	0.0					eS	09	50.00															
Z	19s	26.00um			6.5Msz		LJU	74.79	325	iPd	00	48.50	-0.6		HAU	75.96	331	iPd	00	55.30	-0.2															
		epP	02	43.60	605kmX					eS	09	37.00				0.8s	1343.25nm				6.5mb															
		e	05	20.00		VBY	74.96	324	iPd	00	50.40	0.4		BSF	75.97	331	iPd	00	55.20	-0.4															
		iS	09	17.00		FVI	74.97	326	P	00	49.50	-0.5		PAIG	75.97	316	iPd	00	55.60	0.0															
BAR	72.89	60	iPd	00	38.00	-0.8	STR	74.99	330	P	00	50.30	0.2		YER	75.98	311	iP	00	56.60	0.8															
		e	01	46.00	295kmX	MJMA	75.00	292	iPd	00	49.70	-0.9		MDSJ	75.99	302	Pd	00	56.00	-0.1															
		eS	09	18.00		SQTA	75.00	328	iPd	00	51.00	0.6		SALJ	76.02	303	Pc	00	56.00	-0.2															
		e	30	20.00			0.6s	3860.00nm				7.1mb		BBS	76.05	330	P	00	56.12	0.1															
PLH	73.17	332	ePd	00	39.60	-0.3				id	00	51.90			LLS	76.07	329	iPd	00	56.50	0.1															
UDU	73.20	142	ePd	00	41.80	1.3				ipP	02	57.60	613kmX		WARB	76.10	194	iPc	00	56.80	0.4															
IKP	73.24	60	eP	00	41.50	0.7				i	03	25.40			KSL	76.11	309	iPd	00	55.10	-1.4															
KMR	73.25	326	iP-	00	41.00	0.5				iPP	03	50.60			KFNJ	76.14	303	Pc	00	56.60	-0.1															
		ipP	02	45.80	606kmX					i	05	24.60			BDV	76.20	320	iPd	00	56.50	-0.4															
		iPP	03	38.60						ipPP	05	35.20						e(S)	09	52.00															
		i	09	32.00						iS	09	42.80			HCY	76.20	320	iPd	00	56.10	-0.8															
JCK	73.27	332	ePd	00	40.00	-0.4	RYD	75.02	290	iPd	00	49.80	-0.9					e(S)	09	51.50															
NDE	73.31	142	iPc	00	42.80	1.6	VOY	75.04	325	iPc	00	49.70	-0.9		MASJ	76.22	303	Pd	00	57.00	-0.3															
DIM	73.43	316	iPd	00	43.00	1.4	NANU	75.05	205	eP	00	50.50	-0.1		VDL	76.24	328	iPd	00	57.70	0.4															

12d 05h

ULC	76.28	320	iPd	00	56.50	-0.9	TCF	78.77	333	iPd	01	10.80	0.3	EPF	82.29	333	iPd	01	28.80	0.2
			e(S)	09	52.00		PZZ	78.79	329	Pd	01	09.18	-1.6	ERC	82.35	322	P	01	29.00	0.0
OHR	76.31	318	iPd	00	57.50	-0.1	VLS	78.80	317	iPd	01	10.00	-0.8	BAL	82.40	202	iPc	01	29.60	0.5
	1.2s	8121.00nm				7.1mb	VLI	78.90	314	eP	01	08.80	-2.5				e	03	39.50	614kmX
			i	04	05.80		ENR	78.92	328	Pd	01	09.51	-1.9	OGE	82.40	333	P	01	29.46	0.3
			iS	09	54.00		STV	78.94	329	Pd	01	09.52	-2.0	JAU	82.49	333	P	01	30.35	0.6
LIT	76.37	317	iPd	00	57.30	-0.6	ITM	79.00	315	iPd	01	12.00	0.2	LVI	82.49	322	P	01	29.80	0.2
LOMF	76.38	330	P	00	57.00	-0.8	RFI	79.01	323	P	01	11.88	0.2	CGL	82.50	325	P	01	29.44	-0.3
MKRJ	76.39	302	Pc	00	57.90	-0.3	LSF	79.01	333	iPd	01	12.00	0.3		0.9s	457.20nm				6.0mb
HVAR	76.44	322	iPd	00	57.00	-1.1	PYM	79.01	332	P	01	12.29	0.5	ESCF	82.52	333	P	01	29.98	0.3
			iSg	09	53.60		ORI	79.04	320	Pd	01	13.00	1.0	MADF	82.53	333	P	01	30.04	0.3
VAL	76.63	343	iP	00	59.00	0.0	BADA	79.06	301	iPd	01	12.90	0.7	ATE	82.55	333	P	01	30.09	0.2
			i	03	06.00	610kmX	RMP	79.08	324	Pd	01	12.10	0.0	FAI	82.55	321	P	01	30.10	0.2
			i	04	03.00		SGO	79.10	321	Pd	01	12.30	0.1	ELYF	82.56	334	P	01	29.96	0.0
			e	30	17.00		BSS	79.11	322	P	01	12.40	0.1	CVT	82.57	322	Pd	01	30.40	0.4
SAL	76.63	327	Pd	00	58.80	-0.3	RDP	79.12	324	P	01	12.40	0.0	BOH	82.62	334	P	01	30.54	0.2
BRS	76.70	170	iPd-	01	00.50	0.8	AUTN	79.12	328	P	01	12.29	-0.3	ISSF	82.63	333	P	01	31.65	1.3
			i(PcP)	01	17.50	534kmX	MAO	79.15	325	P	01	12.07	-0.4	LHE	82.68	333	P	01	31.99	1.4
			e	02	55.00		TOUF	79.17	328	P	01	12.73	-0.1	RIV	82.91	172	iPd	01	33.90	2.4
			i	03	59.00		MFF	79.18	334	iPd	01	12.90	0.3				epP	03	32.00	543kmX
			iS	10	03.00		SBF	79.24	328	iPd	01	12.50	-0.5				e	06	28.00	
ANMO	76.73	52	iPd	01	01.76	1.6	AURF	79.25	328	P	01	12.99	-0.1				eS	10	56.00	
ALQ	76.74	52	iPd-	01	01.00	0.8	MVIF	79.30	328	P	01	13.31	-0.2	OLY	83.42	41	iP	01	34.00	-0.3
	1.1s	2120.25nm				6.5mb	REVF	79.37	328	P	01	14.22	0.6				e	03	47.80	636kmX
			epP	03	09.00	617kmX	LBL	79.40	332	P	01	14.65	1.0				e	30	14.00	
MDI	76.77	328	Pd	00	59.00	-0.9	TDS	79.42	320	P	01	14.70	0.7	ECRI	83.51	334	iPd	01	35.60	0.9
TMA	76.78	328	iPd	00	59.90	-0.3	CALN	79.52	329	P	01	14.44	-0.1	PTS	83.65	322	P	01	35.20	-0.2
VAI	77.02	328	Pd	01	01.00	-0.2	KMSA	79.54	289	iPd	01	15.00	0.0	ADE	83.68	183	iPc+	01	35.50	0.2
MMK	77.14	329	iPd	01	02.50	0.3	GANF	79.64	329	P	01	15.30	0.2		1.3s	1653.85nm				6.5mb
DIX	77.30	329	iPd	01	03.40	0.3	KOT	79.73	304	eP	01	16.75	1.0	MUN	83.83	202	iPc	01	36.00	-0.2
FLN	77.30	336	iPd	01	02.50	-0.2	COO	79.76	171	iPc	01	16.70	1.0		1.0s	800.00nm				6.3mb
	0.9s	3275.90nm				6.8mb				e	03	25.00	610kmX				e	03	45.00	605kmX
LDF	77.35	335	iPd	01	02.80	-0.2	FRF	79.77	329	iPd	01	15.50	-0.2	SCP	83.93	29	iPd	01	36.33	-0.4
RSM	77.37	325	Pd	01	04.10	1.0	VILF	79.83	329	P	01	17.13	1.0				esPc	04	45.04	
APE	77.38	313	eP	01	01.80	-1.6	PGF	79.83	327	iPd	01	15.80	-0.4	EMON	84.02	338	iPd	01	36.90	-0.3
LOR	77.39	332	iPd	01	02.80	-0.4	RJF	79.87	333	iPd	01	16.60	0.4	KCHT	84.20	323	iPd	01	39.00	0.8
	1.0s	5000.00nm				6.9mb	TAVF	79.92	329	P	01	16.99	0.4	HRV	84.22	24	iPd	01	38.79	0.6
EMS	77.47	330	iPd	01	03.90	0.0	WAJH	79.95	298	iPd	01	17.30	0.4				isPc	04	48.16	
ORX	77.50	329	Pd	01	02.95	-1.0	LRG	79.96	329	iPd	01	16.50	-0.2	CNB	84.24	174	iPd	01	39.10	0.9
ATH	77.52	314	iPd	01	03.00	-1.0		0.7s	2893.80nm				6.8mb		1.2s	722.00nm				6.2mb
ARV	77.55	325	Pd	01	04.50	0.4	LMR	80.02	329	iPd	01	16.80	-0.2				e	01	59.00	73kmX
SFI	77.60	325	Pd	01	05.50	1.2	CAF	80.04	332	iPd	01	18.00	0.9				e	03	46.00	
GRC	77.60	333	P	01	04.60	0.3	PRAF	80.06	330	P	01	18.13	0.9				e	05	01.00	
LBF	77.61	332	iPd	01	04.20	-0.2	HLW	80.06	304	iP-	01	18.10	0.7				e	11	16.00	
PRNI	77.67	302	iPd	01	06.20	1.2				i	03	20.00	571kmX	EBR	84.25	332	ePd	01	39.00	0.7
SSF	77.68	332	iPd	01	04.50	-0.2				ePP	03	55.00					ePP	03	48.00	
PGD	77.68	326	iPc	01	06.10	1.1				eS	10	27.50					e	11	05.00	
			ipP	03	12.50	604kmX	GRI	80.09	320	P	01	16.84	-0.7	SBS	84.26	323	iPd	01	38.50	0.1
BOB	77.74	327	P	01	05.46	0.3		0.7s	868.00nm				6.3mb	EROQ	84.27	332	iPd	01	38.70	0.3
GRR	77.74	336	iPd	01	05.20	0.2	TREF	80.14	329	P	01	18.43	0.8	ESEL	84.42	329	iPd	01	39.50	0.3
MME	77.79	326	P	01	06.57	0.9	CMS	80.24	177	iPc	01	18.80	0.7	NWAO	84.50	201	iPc	01	39.00	-0.4
CRE	77.81	325	P	01	06.90	1.3	BERF	80.32	329	P	01	19.32	0.7	TXNY	84.71	26	iP	01	40.60	0.1
KEK	77.89	318	iPd	01	05.00	-1.0	RRO	80.34	46	iP	01	21.60	2.8	ZGN	84.78	323	iPd	01	39.50	-1.5
LSD	77.93	329	Pd	01	06.85	0.4	LFF	80.43	333	iPd	01	20.10	1.0	STS	84.84	339	iPd	01	40.80	-0.3
BDI	77.94	326	Pd	01	05.80	-0.4	FORR	80.47	192	iPc	01	18.80	-0.5	ERUA	84.96	337	iPd	01	41.70	0.0
SMF	77.95	332	iPd	01	06.20	0.0	LPO	80.53	333	iPd	01	20.50	0.9	PNJ	84.97	27	iP	01	41.80	0.0
AVF	77.97	332	iPd	01	06.20	-0.1	ELF	80.65	30	P	01	19.70	-0.6				pP	03	55.50	632kmX
BAI	77.98	321	Pd	01	07.50	1.1	MEO	80.78	46	iPd	01	21.60	0.5				sP	05	12.80	
ASS	78.02	325	P	01	07.10	0.4	LDN	80.83	30	P	01	20.50	-0.7				PP	05	21.30	
LPL	78.02	330	iPd	01	07.20	0.3	DLA	80.86	31	P	01	21.10	-0.2				PPP	07	41.30	
LPG	78.03	329	iPd	01	07.50	0.5	GMB	80.88	320	P	01	21.78	0.1				SKS	10	58.30	
BRT	78.04	320	P	01	06.90	0.1		0.4s	828.90nm				6.6mb				eS	11	16.70	
LPF	78.12	336	iPd	01	07.50	0.5	CBM	80.93	20	iPc	01	21.00	-0.6	GMTN	84.99	27	iP	01	42.70	0.8
MEKA	78.14	201	iPc	01	06.60	-0.7				i	10	38.70		ETOR	85.03	333	iPd	01	42.50	0.3
RSP	78.16	329	Pd	01	06.44	-1.0				e	30	08.50		RSCP	85.79	37	iPd	01	45.40	-0.5
MBH	78.17	302	iPd	01	08.80	1.2	MSI	80.98	320	P	01	20.70	-1.3	GUD	85.79	335	iPd	01	45.50	-0.5
LCI	78.18	320	Pd	01	07.20	-0.2	MRWA	81.25	203	iPc	01	23.00	-0.3	ECHE	85.83	332	iPd	01	46.50	0.5
PCP	78.25	328	Pd	01	07.26	-0.6				e	03	31.00	605kmX	BFD	85.84	179	ePc	01	45.30	-0.3
PII	78.26	326	P	01	07.10	-0.7	CCM	81.36	40	iPd	01	24.44	0.5				i	02	55.70	296kmX
BGF	78.33	332	iPd	01	08.10	-0.1				esPc	04	30.84					e	03	58.00	
AQU	78.34	324	P	01	09.00	0.6	TAIF	81.40	292	iPd	01	26.10	1.4	MZX	85.94	59	(P)	01	48.00	1.3
BNI	78.45	329	Pd	01	09.40	0.4	RSNY	81.52	25	eP	01	23.80	-0.9	GBTN	86.26	36	P	01	47.60	-0.5
CKI	78.45	328	Pd	01	08.50	-0.3		0.7s	602.08nm				6.2mb	TOO	86.29	177	iPc	01	58.40	10.5X
HQL	78.46	301	iPd	01	09.80	0.7				eS	10	45.20			0.3s	203.00nm				
DUI	78.51	323	Pd	01	09.80	0.5				e	30	05.50					e	04	02.00	569kmX
RRL	78.53	329	Pd	01	09.82	0.3	USI	81.54	322	P	01	25.20	0.4				e	05	22.00	
MNS	78.60	324	Pd	01	09.20	-0.5	MNO	81.57	320	P	01	25.30	0.0				e	11	20.00	
PLDF	78.62	332	P	01	10.10	0.3	COOL	81.68	198	iPc	01	24.80	-0.7	BLA	86.30	33	iPd	01	48.00	-0.3
AZI	78.64	323	P	01	07.03	-2.8				i	03	34.50	614kmX	CBN	86.44	30	iPc	01	49.10	0.2
	1.0s	1001.20nm				6.2mb				eS	10	37.00					e	02	22.00	128kmX
BST	78.66	330	P	01	10.01	0.2	FVM	81.76	39	P	01	26.00	0.0	TOL	86.47	334	iPd	01	49.88	0.8
FIN	78.66	328	Pd	01	08.27	-1.7	GIB	81.80	321	P	01	24.50	-1.8				epPd	04	00.32	609kmX
AGO	78.70	332	P	01	10.83	0.7	ETER	82.16	331	iPd	01	28.30	0.4				isPc	05	01.24	
ROB	78.71	328	Pd	01	09.37	-0.9	MEU	82.17	320	P	01	28.60	0.4				iPP	05	02.00	
MAF	78.72	332	iPd	01	10.80	0.6	PZI	82.24	320	P	01	28.52	0.1				iS	11	17.00	
SDI	78.73	323	Pd	01	10.10	-0.3		1.3s	6253.90nm				7.0mb	OBO	86.58	284	iPd	01	51.10	1.2
DOI	78.74	329	P	01	08.70	-1.7	MCT	82.27	321	Pd	01	28.20	-0.5	ACU	86.64	331	iPd	01	50.40	0.5

12d 05h

EPLA	86.86	336	iPd	01	50.70	-0.2	PDA	92.89	350	iPd	02	20.00	1.3	KUK	115.88	317	ePdiff	04	00.00	-1.6
MKL	86.88	284	iPd	01	52.52	1.3	NOZ	92.98	152	eP	02	17.60	-1.1	KOGH	115.92	317	ePKP	07	44.00	-1.1
TDD	86.97	284	iPd	01	53.13	1.4	AVE	93.57	335	iPd	02	22.00	0.0				e	08	53.50	
VNM	87.02	53	(P)	01	52.99	1.2				i	06	17.00					e	13	38.00	
ATA	87.04	284	iPd	01	53.22	1.2	III	93.67	57	(P)	02	23.98	1.1	SHGH	115.96	317	ePKP	07	43.50	-1.7
RAR	87.07	127	P	01	52.00	0.1	IIT	93.78	55	(P)	02	25.19	1.7				e	08	53.00	
			S	11	20.00		MNG	94.08	155	eP	02	23.10	-0.7				e	13	37.50	
EVIA	87.17	333	iPd	01	53.00	0.5		0.7s		155.00nm			6.3mb	OLLA	116.02	32	iPKPd	07	44.20	-1.2
ARO	87.21	284	iPd	01	54.50	1.5				e	04	33.20	598kmX	TEGH	116.21	317	ePKP	07	45.00	-0.6
DAF	87.36	285	iPd	01	54.65	1.1	KIW	94.15	155	eP	02	22.60	-1.5				e	08	54.00	
SGH	87.42	284	iPd	01	55.38	1.5				e	04	34.20	606kmX				e	13	38.00	
HLD	87.43	285	iPd	01	54.96	1.1	LVVM	94.19	53	(P)	02	26.21	1.3	LEGH	116.28	317	ePKP	07	45.50	-0.3
KSU	87.48	285	iPd	01	55.25	1.1	PGZ	94.30	154	P	02	24.20	-0.5				e	08	57.00	
EALH	87.56	332	iPd	01	54.30	0.1				e	04	35.10	602kmX				e	13	39.50	
GBR	87.74	284	iPd	01	56.59	1.2	TCW	94.31	156	P	02	25.10	0.4	BMG	116.32	39	ePdiff	04	04.00	0.3
EBAN	87.99	334	iPd	01	56.40	0.2	TBI	94.41	121	iP	02	27.00	1.4	WEGH	116.39	317	ePKP	07	46.00	0.0
PRM	88.37	35	P	01	58.00	0.0		0.9s		130.00nm			6.2mb				e	08	53.00	
LHS	88.60	34	P	01	58.80	-0.2				epP	04	46.00	651kmX				e	18	16.00	
			pP	04	17.00	651kmX	CAW	94.42	155	P	02	24.80	-0.5	CUM	116.48	29	iPKP	07	44.80	-1.3
JSC	88.61	34	iPc	01	58.40	-0.7				e	04	36.60	607kmX				i	08	57.20	
			ipP	04	15.50	645kmX	MRW	94.44	156	eP	02	24.90	-0.4				i	10	04.40	
			e	05	36.50					e	04	38.00	615kmX				i	16	45.00	
			i	11	54.10		THZ	94.47	157	eP	02	24.30	-1.2	TCE	116.99	26	ePKP	07	46.25	-0.9
			e	12	34.50		WEL	94.51	156	P	02	25.80	0.2	TRN	117.14	26	ePKP	07	46.82	-0.5
ENIJ	88.62	332	iPd	01	58.10	-1.0				e	04	38.60	613kmX		1.0s		168.00nm			
ASMO	88.72	333	iPd	01	59.50	-0.2	SNZO	94.51	156	iPc	02	24.73	-0.9	TBH	117.39	26	ePKP	07	49.06	1.2
EHOR	88.73	335	iPd	01	59.40	-0.2				ipPc	04	34.18	594kmX	TPP	117.44	26	ePKP	07	49.02	1.1
AFC	88.76	333	iPd	01	59.40	-0.6				esPd	05	38.41		TIC	117.44	322	PKP	07	47.20	-0.8
PMO	88.79	115	iP	02	01.10	1.1				iPP	06	21.26		KIC	117.59	322	PKP	07	47.40	-0.9
	1.5s	4285	.00nm			7.1mb				e	06	29.04		LIC	117.83	322	PKP	07	47.90	-0.8
			ipP	04	13.80	618kmX	WDW	94.55	156	P	02	24.90	-0.9	BOG	118.10	42	iPKP	07	50.50	0.8
CRT	88.83	333	iPd	02	01.00	0.8				e	04	37.90	615kmX				i	09	17.00	
AAPN	88.88	333	iPd	02	00.50	0.0	MTW	94.59	155	P	02	25.30	-0.7	COTA	119.89	48	ePKP	07	54.20	0.8
LIS	88.93	338	iPd	02	00.00	-0.5				e	04	38.00	613kmX	BUL	120.11	274	iPdiff	04	17.00	-3.4X
TPT	88.94	114	iP	02	01.90	1.2	ACX	94.68	58	(P)	02	30.17	3.0X	BUL	120.11	274	iPKPc	07	46.00	-7.1X
	1.5s	4780	.00nm			7.2mb	MOW	94.77	155	eP	02	26.20	-0.6				i	09	18.90	
			ipP	04	14.40	616kmX	BLW	94.78	155	P	02	26.50	-0.4				i	13	46.70	
ACHM	88.98	333	iPd	02	00.60	-0.3				e	04	36.30	596kmX				i	15	15.30	
ALOJ	89.06	333	iPd	02	01.40	0.1	KHZ	95.24	157	eP	02	26.90	-2.0				i	27	39.00	
APHE	89.08	333	iPd	02	01.00	-0.4		0.8s		44.00nm			5.7mb				i	28	57.00	
VAH	89.13	114	iP	02	02.60	1.1				e	04	42.20	628kmX	GGP	120.21	49	ePKP	07	55.00	0.9
	1.5s	2800	.00nm			7.0mb	LTZ	95.26	158	eP	02	27.00	-2.1	QUR	120.24	49	ePKP	07	54.80	0.9
			ipP	04	15.40	618kmX				e	04	41.60	624kmX	CAYA	120.29	48	ePKP	07	55.20	1.1
ATEJ	89.21	333	iPd	02	01.40	-0.6	TIO	95.75	334	iPd	02	31.40	-0.6	VC1	120.70	49	ePKP	07	55.00	0.1
RUV	89.24	114	iP	02	03.20	1.2				i	06	20.00		SEK	126.40	267	ePdiff	05	01.00	12.8X
	1.5s	3790	.00nm			7.1mb	EVV	95.83	53	(P)	02	34.71	2.4		0.6s		13.33nm			
			ipP	04	15.90	617kmX	MSZ	96.07	162	P	02	33.00	0.5				e	07	47.00	
AGX	89.29	57	(P)	02	06.00	3.6X				pP	04	45.90	613kmX	SBA	127.55	174	iPKPc	08	07.00	1.5
EVAL	89.37	336	iPd	02	02.00	-0.5				PP	06	20.00					PP	10	27.30	
MAL	89.50	333	iP	02	02.60	-0.5				PPP	08	39.00					S	16	12.80	
			iS	11	31.00					S	13	06.00		MAW	130.33	210	e(PKP)	07	55.00	-16.0X
EPRU	89.52	334	iPd	02	03.80	0.5	OXX	96.22	55	(P)	02	37.81	3.4X	PT08	131.28	54	ePKP	08	02.60	-12.3X
AFR	89.66	118	iP	02	05.20	1.2	MMCZ	96.64	161	P	02	36.30	1.0	PT03	133.37	55	ePKP	08	05.10	-13.3X
			ipP	04	16.00	605kmX				e	04	49.00	612kmX	CAI	137.63	359	ePKP	08	13.30	-13.2X
PPT	89.80	117	iP	02	05.90	1.3	TLC	96.81	161	P	02	36.70	0.6	ARE	137.70	52	iPKPc	08	16.00	-10.9X
	1.5s	1650	.00nm			6.7mb				e	04	48.90	609kmX	SPA	138.85	180	ePKP	08	20.00	-7.3X
			ipP	04	18.00	613kmX	CFTV	99.96	339	iPd	02	51.00	0.1	ZOBO	139.22	47	PKP	08	20.00	-10.0X
GIBL	89.86	335	iP	02	06.00	1.2	CTFE	100.39	341	ePdiff	02	53.00	0.5	LPB	139.45	47	PKPc	08	17.00	-13.2X
PPN	89.86	117	iP	02	06.20	1.3	TBT	100.55	342	ePdiff	02	51.20	-2.0		1.2s		1515.63nm			
			ipP	04	18.20	612kmX	GGC	100.60	340	ePdiff	02	53.50	0.0				i	11	05.00	
PAE	89.88	117	iP	02	06.30	1.4	CHIE	101.48	342	ePdiff	02	57.00	-0.4	CCH	141.12	46	PKP	08	27.80	-5.3X
			ipP	04	18.40	613kmX	RKT	102.83	110	iPdiff	03	10.80	7.4X	SIV	142.10	38	PKPd	08	30.00	-4.4X
ALJ	89.90	334	iP	02	06.50	1.4		0.9s		30.00nm			5.9mb	ANT	144.20	57	iPKPd	08	38.50	0.8
EJIF	90.07	334	iPd	02	05.90	0.1	BCAO	107.61	299	iPdiff	03	23.40	-1.5	BAO	145.73	17	e(PKP)	08	40.70	0.1
TVO	90.16	117	iP	02	07.80	1.4				id	05	01.10		LCCH	150.75	70	iPKPc	08	48.20	0.4
			ipP	04	20.10	613kmX				epP	05	36.82					i	08	55.00	
MOMI	90.26	334	iP	02	09.00	2.3				esP	06	37.74					i	11	14.00	
CNIL	90.31	335	iP	02	08.50	1.6	MGP	108.47	29	Pdiff	03	33.50	5.0X	ROCH	150.75	69	ePKP	08	48.50	0.4
OJEN	90.42	334	iP	02	09.00	1.5	PORP	108.57	29	Pdiff	03	31.50	2.5				i	08	55.00	
PLAT	90.46	334	iP	02	08.00	0.4	CPD	108.80	28	Pdiff	03	30.50	0.4				i	11	13.00	
TAF	90.67	331	iPd	02	08.00	-0.7	BPA	110.92	24	ePKP	07	30.00	-5.4X	RTCB	151.05	64	iPKPc	08	48.90	0.4
			i	05	47.00		MGH	111.13	25	ePKP	07	34.00	-1.8	PEL	151.07	69	iPKPd	08	47.70	-0.7
NKM	90.99	334	iPd	02	09.50	-0.5	PAG	111.94	24	ePKP	07	38.00	0.6		0.5s		253.52nm			
WLZ	91.53	154	P	02	13.50	1.4	88L	112.48	24	ePKP	07	37.00	-1.4				i	08	55.70	
			e	04	25.10	608kmX	FDF	113.32	24	ePKP	07	38.65	-1.5	RTLL	151.13	63	ePKPc	08	47.30	-1.2
AAE	91.70	286	iP	02	15.10	1.1	BIM	113.55	24	ePKP	07	40.24	-0.3	ZON	151.16	64	ePKP	08	48.00	-0.6
HBZ	92.12	152	eP	02	13.50	-1.3	MVM	113.56	24	ePKP	07	39.84	-0.7	LNV	151.17	71	iPKPc	08	43.00	-5.4X
			e	04	25.70	611kmX	MBO	114.12	337	iPKPd	07	42.30	0.7				i	08	55.50	
TAZ	92.16	153	eP	02	15.20	0.2	SVB	114.68	25	ePKP	07	41.77	-0.9	TACH	151.26	70	ePKP	08	48.00	-0.6
IIJ	92.43	56	(P)	02	19.02	1.5	MORO	114.70	33	ePKP	07	41.90	-1.0				i	08	55.30	
PUZ	92.54	152	P	02	15.80	-1.0	LKO	115.03	324	Pdiff	03	56.86	-1.0				i	11	14.50	
			e	04	27.60	609kmX		0.7s		24.00nm				SAN	151.29	69	ePKP	08	48.00	-0.7
IFR	92.70	333	iPd	02	17.50	-0.7	TOV	115.16	35	ePKP	07	43.80	0.1				i	08	56.00	
CRX	92.72	56	(P)	02	20.00	1.4	CAR	115.52	32	iPKPc	07	43.20	-1.3				i	11	15.00	
RBA	92.74	334	iPd	02	18.50	0.4	LLAV	115.59	32	iPKP	07	43.80	-0.8	FCH	151.44	69	ePKP	08	49.50	0.2
CNZ	92.78	154	eP	02	18.00	0.0	SDV	115.66	36	ePKP	07	44.40	-0.4				i	08	56.90	
			e	04	30.00	610kmX	GUAC	115.70	32	ePKP	07	44.00	-0.8				i	11	16.50	

12d 05h

CFA	151.47	64	ePKPc	08	48.60	-0.4
PCH	151.50	69	iPKPc	08	49.00	0.0
			i	08	56.30	
			i	11	13.30	
CHCH	151.62	70	ePKP	08	39.50	-9.6X
			i	08	56.50	
			i	11	13.20	
AIA	158.71	149	ePKP	09	01.30	4.1X

S.D. = 0.8 on 697 of 733 obs.

? MAY 12, 1990 05h 36m 56.01± 2.94s
20.233 N ±51.5km 104.253 W ±39.0km
DEPTH = 33.0km (normal)
JALISCO, MEXICO (524)

AGX	2.45	48	(P)	37	51.00	16.5X
MZX	3.58	326	iP	37	50.50	0.0
IIJ	4.28	96	eP	38	01.00	0.0
			iS	38	46.25	
CRX	4.38	100	eP	38	17.00	14.7X
III	4.88	111	eP	38	09.00	-0.3
			(S)	39	11.50	
IIT	5.73	101	(P)	38	14.50	-6.8X
			(S)	40	00.50	
OXX	7.80	112	eP	38	50.50	0.2

S.D. = 0.4 on 4 of 7 obs.

? MAY 12, 1990 06h 25m 24.21± 2.85s
19.542 N ±19.6km 103.816 W ±31.0km
DEPTH = 141.3 ± 32.7 km
3.8mb (2 obs.)
JALISCO, MEXICO (524)

AGX	2.72	31	(P)	26	08.00	-0.2
IIJ	3.85	86	iPd	26	23.00	-0.5
III	4.28	105	eP	26	33.00	4.1X
			iS	27	40.50	
ACX	4.61	125	eP	26	34.50	1.4
IIT	5.23	95	(P)	26	40.50	-1.2
			(S)	28	37.50	
ALQ	15.52	352	eP	28	57.80	1.0
	1.0s		3.00nm		3.6mb	
MEO	15.87	16	eP	29	15.50	14.5X
TUL	17.77	22	eP	29	25.30	1.1
	0.5s		5.40nm		4.1mb	
KVN	23.03	331	P	30	16.40	-1.5
			e	30	35.50	
FFC	35.15	2	ePc	32	17.20	11.3X
	0.7s		6.00nm			
ARE	47.85	136	eP	33	58.00	7.9X
SIV	54.89	127	P	34	45.80	3.2X
MBC	57.30	356	eP	35	11.00	12.1X
	0.5s		2.00nm			

S.D. = 1.7 on 7 of 13 obs.

• MAY 12, 1990 06h 54m 45.85± 0.69s
7.822 S ±17.1km 106.984 E ±16.0km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
JAVA (277)

TRT	5.60	89	ePd	56	09.80	0.8
			eS	57	04.10	
NANU	16.80	152	eP	58	38.00	-2.3
	0.3s		9.00nm		4.5mb	
			eS	01	22.00	
MBL	18.16	138	eP	58	57.00	-0.3
	0.3s		2.00nm		3.7mb	
			eS	01	58.00	
MTN	24.26	104	eP	00	02.00	0.7
CHTO	27.63	343	eP	00	30.00	-2.6
WRA	29.11	117	Pd	00	45.90	-0.1
	0.9s		7.40nm		4.4mb	
WB5	29.11	117	eP	00	45.90	-0.1
KOD	34.43	301	eP	01	36.00	3.0X
GBA	36.25	306	Pd	01	49.80	1.7
	0.6s		9.30nm		4.9mb	
GUN	40.97	331	P	02	25.80	-1.9
SUF	92.71	333	eP	07	56.00	0.5
SOD	93.46	338	iP	07	59.20	0.2
KEV	93.83	340	eP	08	11.00	10.4X
YKA	117.63	20	ePKP	13	28.90	-0.9
	0.7s		0.90nm			
FFC	127.81	21	ePKP	13	50.00	0.4
	0.6s		5.00nm			
KVN	129.02	45	(PKP)	13	54.20	1.5
TUL	145.14	33	ePKP	14	21.80	-0.3
	0.7s		7.60nm			
BAO	145.98	227	ePKP	14	26.80	2.6
SIV	153.55	207	PKP	14	41.00	5.4X
			i	14	48.70	

S.D. = 1.5 on 16 of 19 obs.

• MAY 12, 1990 07h 26m 28.67± 0.70s
76.089 N ±12.7km 7.719 E ±14.0km
DEPTH = 10.0km (geophysicist)
4.2mb (3 obs.)
SVALBARD REGION (643)

KBS	2.99	16	eP	27	15.00	-1.9
			eS	27	45.20	
DAG	6.24	289	iPd	28	00.70	-2.1
	0.6s		14.67nm		5.0mb X	
KEV	8.47	129	eP	28	36.00	1.9
SOD	10.50	136	iP	29	01.00	-1.0
SUF	14.78	145	eP	29	58.00	-1.2
NUR	16.72	150	iP	30	24.00	-0.1
MBC	24.88	333	eP	31	54.00	1.9
	1.0s		5.00nm		4.1mb	
MOX	25.59	174	eP	32	02.00	3.0X
YKA	36.94	319	eP	33	39.00	0.2
	1.0s		1.50nm		3.7mb	
FFC	42.01	305	eP	34	22.00	1.0
	1.2s		18.00nm		4.7mb	
SES	47.85	311	eP	35	09.00	1.0
LRM	52.51	310	eP	35	44.10	0.2

S.D. = 1.6 on 11 of 12 obs.

& MAY 12, 1990 08h 23m 21.17s
63.373 N 145.597 W
DEPTH = 1.5km
CENTRAL ALASKA (1)
<AGS-P>.

PAX	0.41	172	iP	23	29.10	-0.2
			iS	23	34.74	
DDM	0.43	344	iP	23	29.57	-0.2
			eS	23	36.29	
DMW	0.69	355	eP	23	34.14	-0.8
DOT	0.74	67	iP	23	35.25	-0.7
SDG	0.85	178	eP	23	37.35	-0.8
HDA	1.20	331	iP	23	43.43	-0.9
			eS	24	01.05	
TOA	1.30	192	iP	23	45.67	-0.4
			eS	24	03.20	
RND	1.47	273	iP	23	48.83	0.0
			eS	24	07.61	
NCA	1.50	203	eP	23	48.97	-0.2
			eS	24	09.78	
MCK	1.54	285	eP	23	50.07	0.3
WRH	1.56	316	eP	23	48.89	-1.1
CCB	1.61	324	eP	23	49.28	-1.4
GLM	1.80	335	iP	23	51.98	-1.6
FBA	1.81	329	eP	23	53.59	-0.1
KLU	1.89	185	iP	23	55.17	0.2
NEA	1.95	310	eP	23	55.92	0.2
SML	2.02	220	iP	23	56.67	0.0
GLB	2.11	156	iP	23	58.09	0.0
			eS	24	26.59	
GHO	2.23	225	eP	24	00.20	0.4
VLZ	2.28	189	eP	24	00.89	0.5
CUT	2.35	248	iP	24	03.49	2.0
VZW	2.37	191	iP	24	02.02	0.3
KTH	2.40	277	eP	24	05.36	3.1
PLRM	2.43	224	eP	24	03.14	0.6
GLI	2.60	196	eP	24	06.09	1.1
PWA	2.63	231	iP	24	07.04	1.6
BALM	2.80	146	iP	24	10.26	2.3
PMS	2.83	223	iP	24	11.20	2.9
DWY	2.83	73	P	24	07.20	-1.1
TGL	2.93	152	eP	24	11.09	1.2
SUA	3.07	234	iP	24	14.41	2.7
SKT	3.07	246	eP	24	13.57	1.9
CRP	3.72	238	eP	24	25.97	4.9
RDT	4.27	232	eP	24	30.36	1.6
INK	7.00	40	P	25	05.00	-2.1

35 obs. associated

MAY 12, 1990 08h 56m 45.06± 0.70s
41.953 N ± 7.2km 23.917 E ± 5.2km
DEPTH = 5.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

PGB	0.62	17	iPgd	56	57.00	-0.6
			Sg	57	03.00	
KKB	0.63	262	iPgd	56	57.00	-0.6
			Sg	57	01.00	
RZN	0.65	114	iPd	56	58.00	-0.2
			Sg	58	07.00	
VTS	0.83	321	iPg	57	01.00	-0.7
			Sg	57	12.00	
KDZ	1.16	105	iP	57	06.00	-1.2
			iSg	57	21.00	
VAY	1.19	238	ePn	57	08.70	1.0
DIM	1.21	85	ePg	57	09.00	1.0
			Sg	57	28.00	
PVL	1.64	39	eP	57	14.00	-0.6
			iSg	57	36.00	
MLR	3.83	22	eP	57	48.00	1.9

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

% MAY 12, 1990 09h 17m 26.97± 0.86s
36.919 N ± 8.8km 22.767 E ± 8.4km
DEPTH = 5.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.3 (ATH).

VLI	0.24	146	ePg	17	32.00	0.1
ITM	0.72	291	ePb	17	40.20	-1.2
			eSb	17	50.00	
ATH	1.29	35	ePn	17	52.00	0.6
			eSb	18	10.00	
VAM	1.90	142	ePn	18	00.00	-0.4
VLS	2.14	307	ePg	18	06.00	2.2
APE	2.22	85	ePn	18	05.20	0.2
NEO	2.41	8	ePn	18	06.20	-1.5

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

& MAY 12, 1990 09h 43m 07.47s
60.011 N 153.221 W
DEPTH = 129.4km
SOUTHERN ALASKA (2)
<AGS-P>.

RED	0.47	29	iP	43	25.76	-0.9
			eS	43	40.13	
PDB	0.54	246	iP	43	25.89	-1.0
			iS	43	39.54	
AUL	0.64	190	iP	43	26.88	-0.7
AUE	0.66	187	iP	43	26.78	-0.9
RDT	0.70	35	iP	43	27.35	-0.8
			iS	43	43.42	
NNL	0.97	87	iP	43	30.56	0.3
MCNL	1.00	215	iP	43	29.59	-1.1
CDD	1.11	191	iP	43	30.53	-1.1
CNPM	1.12	115	iP	43	30.94	-0.8
			iS	43	48.40	
NKA	1.23	52	iP	43	34.01	1.2
SPU	1.31	26	iP	43	33.37	-0.4
			eS	43	53.31	
CRP	1.37	22	iP	43	34.48	-0.1
			iS	43	55.60	
NCG	1.49	20	iP	43	36.07	0.2
SLKM	1.58	70	eP	43	35.85	-0.9
			iS	43	56.82	
SEW	1.89	86	eP	43	39.44	-1.1
SUA	1.90	39	iP	43	40.58	-0.2
SKT	2.14	22	eP	43	43.51	-0.1
PMS	2.19	54	eP	43	43.59	-0.6
PWA	2.32	43	eP	43	46.35	0.5
PLRM	2.56	50	eP	43	48.30	-0.6
GHO	2.74	48	eP	43	50.38	-1.0
MTU	2.80	88	eP	43	51.56	-0.5
GLI	3.16	71	eP	43	54.34	-2.4

23 obs. associated

? MAY 12, 1990 09h 52m 13.56± 3.93s
37.550 N ±24.1km 20.631 E ±36.7km
DEPTH = 5.0km (geophysicist)
IONIAN SEA (399)
MD 3.6 (ATH).

VLS	0.63	357	ePg	52	24.90	-1.2
			eSg	52	36.00	
ITM	1.10	109	ePb	52	33.80	-0.8
			eSb	52	54.00	
AGG	1.99	42	ePc	52	48.70	0.5
VLI	2.02	114	ePn	52	49.00	0.3
KEK	2.26	343	ePg	52	56.50	4.4X
OHR	3.56	2	ePn	53	10.50	-0.1
VAM	3.58	126	eP	53	15.00	4.1X

VAY 4.05 21 ePn 53 11.30 -6.3X
SKO 4.46 8 ePn 53 24.50 1.1
S.D. = 1.1 on 6 of 9 obs.

% MAY 12, 1990 10h 04m 49.62± 1.14s
40.734 N ±11.1km 15.809 E ± 6.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.42 245 P 04 58.00 -0.2
eSg 05 04.60
MGR 0.63 198 P 05 00.80 -1.4
eSg 05 10.60
BSS 0.76 275 P 05 05.20 0.7
eSg 05 16.70
ORI 0.83 144 P 05 06.20 0.5
eSg 05 18.40
BRT 1.07 82 P 05 09.10 -0.6
eSg 05 23.70
TDS 1.15 159 P 05 12.10 1.0
eSg 05 27.60
S.D. = 1.2 on 6 of 6 obs.

? MAY 12, 1990 14h 36m 45.09± 0.60s
55.332 S ±16.5km 26.131 W ±20.3km
DEPTH = 33.0km (normal)
5.1mb (6 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA 34.85 180 iPc 43 32.20 -2.7
0.6s 21.95nm 5.3mb
MAW 40.37 144 iP 44 23.40 2.6X
SIV 47.53 312 P 45 19.40 0.4
ZOBO 50.48 304 P 45 42.70 0.3
BUL 53.78 72 iPd 46 08.80 2.2
LIC 63.79 24 P 47 14.00 -2.0
0.7s 10.00nm 5.0mb
KIC 63.99 24 P 47 15.40 -1.9
0.8s 8.50nm 4.9mb
TIC 64.20 23 P 47 16.80 -1.9
0.7s 10.00nm 5.0mb
LKO 66.88 22 Pc 47 43.68 7.7X
0.5s 14.00nm 5.4mb
BCAO 69.99 48 iPc 48 03.00 7.8X
0.4s 5.00nm 4.9mb
MUN 87.24 149 iPd 49 29.50 0.3
COOL 89.66 152 eP 49 40.80 0.0
NB2 119.72 20 PKP 55 32.80 0.9
0.7s 1.00nm
KVN 122.02 293 ePKP 55 37.00 -0.2
FRB 123.19 339 ePKP 55 48.00 9.7X
DMN 124.19 90 PKP 55 42.60 0.8
GUN 124.86 90 PKP 55 44.20 1.0
SOD 128.53 23 ePKP 55 50.00 1.5
YKA 136.04 318 ePKP 55 56.80 -6.1X
0.5s 3.00nm
MBC 143.56 336 ePKP 56 15.00 -1.2
0.4s 7.00nm
INK 145.62 321 ePKP 56 21.00 1.1
OWY 146.76 313 PKPc 56 23.20 1.3
FBA 150.48 313 ePKPc 56 32.90 5.3X
pP 56 41.00
S.D. = 1.5 on 17 of 23 obs.

% MAY 12, 1990 14h 54m 23.32± 0.92s
36.918 N ± 8.6km 22.690 E ± 8.5km
DEPTH = 5.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.1 (ATH).

VLI 0.28 135 iPgd 54 28.80 -0.2
ITM 0.66 293 iPgc 54 36.80 0.2
eSg 54 45.00
ATH 1.33 38 ePn 54 49.80 1.4
eSb 55 05.00
VAM 1.94 141 ePn 54 57.80 0.5
VLS 2.09 308 ePg 55 04.00 4.6X
APE 2.28 85 ePn 55 01.50 -0.7
NEO 2.42 10 ePn 55 03.00 -1.2
S.D. = 1.2 on 6 of 7 obs.

---

* MAY 12, 1990 15h 05m 53.64± 1.05s
3.181 S ±10.9km 137.520 E ±16.9km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
WEST IRIAN (201)

MTN 11.50 213 iPd 08 40.00 1.4
eS 10 42.00
KNA 15.17 214 eP 09 27.80 0.5
WB5 16.88 190 eP 09 47.80 -1.3
i 09 53.40
eS 12 46.00
QIS 17.39 173 iPd 09 54.50 -1.0
eS 12 55.00
CTA 18.84 154 iP 10 15.00 1.5
WARB 25.14 204 iPc 11 17.60 0.2
0.4s 6.00nm 4.5mb
COOL 31.60 208 eP 12 14.40 -1.3
0.4s 4.00nm 4.6mb
GUN 58.49 306 P 15 49.70 0.0
DMN 59.00 305 P 15 53.20 0.0
HYT 90.30 29 P 18 44.20 -8.3X
ZOBO 148.12 128 PKP 25 36.00 0.0
S.D. = 1.1 on 10 of 11 obs.

& MAY 12, 1990 15h 18m 22.63s
59.830 N 139.801 W
DEPTH = 0.0km
SOUTHEASTERN ALASKA (19)
<AGS-P>.

BCPM 0.15 34 iP 18 25.81 0.2
eS 18 28.51
PCA 0.35 320 iP 18 29.93 0.3
eS 18 36.83
HQN 0.60 129 iP 18 35.05 0.4
eS 18 45.50
YAH 1.11 300 iP 18 43.66 -0.9
eS 18 59.35
BALM 1.75 315 iP 18 51.20 -3.3
KLU 3.44 302 iP 19 16.00 -2.7
DWY 4.24 2 P 19 24.00 -5.9
INK 8.94 15 eP 20 39.00 3.1
8 obs. associoted

---

* MAY 12, 1990 15h 45m 17.97± 1.67s
38.098 N ±13.7km 20.231 E ±11.4km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.5 (ATH).

VLS 0.29 74 iPgd 45 22.60 -1.3
ITM 1.63 124 ePb 45 48.00 0.6
KEK 1.65 348 ePb 45 47.00 -0.7
eSb 46 12.00
VLI 2.56 122 ePg 46 07.00 6.2X
NEO 2.63 62 ePn 46 00.80 -1.1
LIT 2.66 41 eP 46 04.20 1.9
FNA 2.83 18 eP 46 03.80 -0.9
LCI 2.85 322 P 46 04.40 -0.5
(Sn) 46 53.80
OHR 3.04 8 ePn 46 08.00 0.3
VAY 3.69 29 ePn 46 18.50 1.6
i 46 31.00
S.D. = 1.4 on 9 of 10 obs.

? MAY 12, 1990 15h 52m 02.89± 2.66s
35.889 N ±33.7km 141.841 E ±19.5km
DEPTH = 10.0km (geophysicist)
3.9mb (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 1.39 284 P 52 27.60 -0.6
S 52 42.80
CHJJ 2.31 275 P 52 40.70 -0.9
NIIJ 2.65 301 P 52 47.30 0.8
MAT 3.01 284 eP 52 52.00 0.5
(S) 53 26.00
IIDJ 3.22 264 P 52 55.70 1.1
S 53 28.80
MTMJ 3.34 283 P 52 56.80 0.6
TSRJ 4.78 267 P 53 17.10 0.5
BJI 20.63 289 eP 56 42.00 -2.9
1.2s 6.00nm 3.8mb
YKA 64.63 30 eP 02 50.90 8.5X
0.7s 0.40nm 3.7mb
SUF 69.16 334 eP 03 12.00 0.9
NUR 71.12 332 eP 03 27.00 3.9X
NB2 75.37 338 P 03 48.10 0.0
0.9s 2.10nm 4.2mb
S.D. = 1.4 on 10 of 12 obs.

% MAY 12, 1990 16h 04m 02.46± 0.99s
36.959 N ± 9.0km 22.736 E ± 9.4km
DEPTH = 5.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.2 (ATH).

VLI 0.29 146 iPgd 04 08.00 -0.3
ITM 0.68 289 iPgc 04 16.00 -0.1
eSg 04 25.00
ATH 1.28 37 ePn 04 28.20 1.6
eSn 04 44.50
VAM 1.95 142 ePg 04 37.80 1.3
VLS 2.09 306 ePg 04 42.20 3.5X
APE 2.24 86 ePn 04 39.00 -1.8
NEO 2.38 9 ePn 04 42.00 -0.7
S.D. = 1.6 on 6 of 7 obs.

? MAY 12, 1990 16h 47m 40.78± 2.56s
15.520 N ±15.6km 147.099 E ±21.8km
DEPTH = 54.0 ± 21.1 km
3.6mb (1 obs.)
MARIANA ISLANDS REGION (215)

GUMO 2.89 229 eP 48 25.30 -0.1
PJG 2.89 229 eP 48 25.30 -0.1
GUA 2.89 227 eP 48 25.70 0.3
eS 48 57.80
MAT 22.38 341 eP 52 35.00 -0.7
LZH 43.56 306 P 55 42.50 1.1
GUN 57.69 293 P 57 28.90 0.0
DMN 58.38 293 P 57 33.20 -0.4
YKA 80.16 28 eP 59 47.10 0.7
0.9s 0.70nm 3.6mb
KIC 144.63 306 (PKP) 07 13.20 -0.8
TIC 144.68 307 (PKP) 07 13.90 -0.2
LIC 144.94 306 (PKP) 07 14.70 0.2
S.D. = 0.7 on 11 of 11 obs.

? MAY 12, 1990 17h 00m 18.08± 1.29s
15.569 N ±17.4km 147.073 E ±23.7km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
MARIANA ISLANDS REGION (215)

PJG 2.91 228 eP 01 03.50 0.4
GUMO 2.91 228 eP 01 02.80 -0.3
GUA 2.91 226 eP 01 03.20 0.1
eS 01 37.50
CHTO 45.99 281 P 08 41.10 0.8
GUN 57.64 293 P 10 07.90 -0.3
DMN 58.34 293 P 10 12.60 -0.4
YKA 80.13 28 eP 12 27.10 1.0
0.8s 0.60nm 3.6mb
KIC 144.58 306 (PKP) 19 52.50 -1.4
S.D. = 0.9 on 8 of 8 obs.

MAY 12, 1990 17h 23m 42.24± 0.41s
15.619 N ± 5.5km 147.776 E ± 8.7km
DEPTH = 33.0km (normal)
4.7mb (6 obs.)
MARIANA ISLANDS REGION (215)

GUMO 3.47 235 eP 24 35.50 0.3
PJG 3.47 235 eP 24 35.70 0.5
eS 25 11.00
KAKJ 21.59 343 eP 28 31.80 0.6
IIDJ 21.66 338 eP 28 32.10 0.1
CHJJ 21.80 341 eP 28 33.80 0.4
TSRJ 22.47 334 eP 28 39.30 -0.7
MAT 22.51 340 eP 28 41.00 0.6
1.5s 55.56nm 4.8mb
MTMJ 22.69 339 eP 28 41.60 -0.7
NIIJ 22.90 342 eP 28 44.80 0.6
BJI 36.73 318 eP 30 48.00 -0.2
1.5s 26.00nm 4.9mb
WB5 37.66 201 eP 30 56.10 -0.2
WRA 37.73 201 Pd 30 56.30 -0.5
0.8s 7.30nm 4.6mb
CHTO 46.64 281 eP 32 10.00 0.3
pP 32 19.50 32kmX
YKA 79.77 28 eP 35 47.70 -0.6
0.7s 1.20nm 4.0mb
SES 85.07 39 eP 36 17.00 1.0
KEV 85.45 343 eP 36 17.00 -0.5
SOD 86.91 341 eP 36 25.00 0.2
FFC 88.59 33 eP 36 34.00 0.9
APO 95.59 339 eP 37 04.00 -1.4
0.7s 2.70nm 4.8mb

12d 17h

NB2	96.13	340	P	37 06.90	-1.0
	0.8s		1.30nm		4.5mb
KIC	145.10	307	PKPd	43 18.66	-0.3
	0.9s		21.00nm		
TIC	145.14	307	PKP	43 18.54	-0.5
	0.9s		18.50nm		
LIC	145.41	307	PKPd	43 19.70	0.3
	1.0s		36.50nm		
ZOBO	145.50	96	PKP	43 21.00	0.7

S.D. = 0.7 on 24 of 24 obs.

MAY 12, 1990 17h 24m 17.88± 0.31s
37.127 N ± 6.1km 72.848 E ± 5.5km
DEPTH = 33.7km (2 depth phases)
4.6mb (19 obs.) 4.4Msz (1 obs.)
TAJIK SSR (715)
Felt (II) at Khorog.

QUE	8.49	217	eP	26 21.50	-0.1
NDI	9.18	155	iPd	26 31.50	0.4
	0.8s		22.39nm		5.4mb
MAIO	10.75	270	eP	26 49.00	-3.7X
	0.8s		9.15nm		5.0mb
			eS	28 18.00	
WMQ	13.12	55	P	27 31.50	7.0X
DMN	14.04	129	P	27 30.40	-6.4X
GUN	14.32	126	P	27 33.30	-7.2X
HYB	20.27	164	eP	28 52.20	-1.2
GTA	21.27	76	eP	29 02.60	-1.0
GBA	23.78	169	Pd	29 29.60	1.3
	0.7s		6.20nm		4.2mb
LZH	24.85	83	eP	29 38.50	-0.3
	2.0s		28.00nm		4.5mb
N	12s		0.40um		
			sP	30 18.40	
CD2	26.29	94	eP	29 52.10	0.0
BTO	29.01	72	eP	30 17.00	0.2
N	15s		0.50um		
E	15s		1.00um		
CHG	29.24	121	eP	30 27.00	8.0X
CHTO	29.24	121	e(P)	30 19.50	0.6
			e	30 27.00	26km
XAN	29.39	85	P	30 19.00	-1.2
TIY	31.29	77	eP	30 38.60	1.6
Z	20s		0.80um		4.4Msz
N	15s		0.60um		
BJI	33.75	71	eP	30 58.00	-0.3
	1.5s		26.00nm		4.9mb
Z	15s		0.87um		4.6MszX
SUF	38.19	327	iP	31 36.40	0.8
	0.4s		3.10nm		4.5mb
NUR	38.20	323	iP	31 36.00	0.3
	0.6s		9.10nm		4.8mb
SOD	39.81	334	iP	31 49.60	0.5
BRG	43.40	308	eP	32 20.40	1.7
			e	32 32.00	41km
HFS	43.50	321	eP	32 18.70	-0.7
	0.7s		10.10nm		4.7mb
Z	16s		0.18um		4.1MszX
			LR	50 00.00	
NB2	44.78	323	P	32 28.60	-1.2
	0.7s		4.30nm		4.4mb
LPG	49.08	302	eP	33 05.40	1.3
	0.8s		4.70nm		4.6mb
LPL	49.09	302	eP	33 05.30	1.2
	0.8s		4.05nm		4.5mb
SMF	50.74	304	eP	33 16.00	-0.4
	0.8s		4.05nm		4.5mb
AVF	51.02	304	eP	33 17.90	-0.6
	0.8s		6.70nm		4.7mb
MAF	51.70	304	eP	33 23.80	0.1
	1.0s		4.00nm		4.3mb
TCF	51.92	304	eP	33 25.20	-0.2
	1.0s		6.00nm		4.5mb
DAG	54.58	344	eP	33 43.00	-1.6
BCAO	59.27	250	ePc	34 16.40	-2.3
	0.7s		4.00nm		4.7mb
MBC	66.64	3	eP	35 06.00	-0.6
	0.7s		10.00nm		5.0mb
BUL	70.59	224	iPc	35 24.90	-7.1X
INK	73.04	10	eP	35 46.00	0.2
FBA	73.45	17	eP	35 48.60	0.4
WB5	81.05	123	eP	36 30.80	-0.3
WRA	81.08	123	P	36 32.00	0.8
	0.9s		3.20nm		4.3mb
FFC	88.41	357	eP	37 08.00	0.5
	0.9s		13.00nm		5.2mb

S.D. = 1.0 on 32 of 38 obs.

MAY 12, 1990 1Bh 03m 4B.21± 0.62s
36.919 N ± 6.3km 22.814 E ± 6.5km
DEPTH = 20.4 ± 6.5 km
3.8mb (3 obs.)
SOUTHERN GREECE (368)
ML 3.5 (ATH).

VLI	0.22	154	iPgd	03 53.10	-0.7
ITM	0.76	290	iPgc	04 01.30	-1.3
ATH	1.27	34	ePg	04 12.40	1.5
			eSb	04 29.50	
VAM	1.88	143	ePb	04 20.00	0.4
			eSb	04 48.00	
VLS	2.17	306	ePg	04 30.00	6.2X
APE	2.18	85	ePn	04 24.00	0.0
NEO	2.41	8	ePn	04 27.00	-0.1
LIT	3.19	356	eP	04 38.70	0.4
SMG	3.30	75	ePn	04 40.50	0.6
IZM	3.83	66	eP	04 45.00	-2.4
EZN	4.00	42	eP	04 46.00	-3.8X
SRS	4.24	8	eP	04 53.50	0.4
VAY	4.40	358	ePn	04 56.00	0.6
OHR	4.47	340	ePn	04 57.00	0.5
KKB	4.95	2	iP	05 03.00	-0.2
			Sg	06 01.00	
RZN	4.99	17	iP	05 04.00	0.1
KDZ	5.14	22	eP	05 05.00	-0.9
SKO	5.16	349	ePn	05 14.50	8.3X
VTS	5.67	3	eP	05 15.00	1.4
PGB	5.72	10	eP	05 17.00	2.8X
MGR	6.53	302	P	05 26.40	0.8
HFS	23.96	349	eP	09 00.00	-1.7
	0.5s		1.20nm		3.7mb
NB2	25.23	347	P	09 13.00	-1.1
	0.6s		0.70nm		3.5mb
BCAO	32.57	188	ePc	10 21.80	1.5
	0.6s		3.00nm		4.4mb

S.D. = 1.1 on 20 of 24 obs.

% MAY 12, 1990 18h 35m 35.23± 0.78s
43.587 N ± 7.8km 12.153 E ± 6.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.15	286	Pc	35 38.90	0.0
			eSg	35 41.90	
SFI	0.40	327	P	35 42.90	-0.5
			eSg	35 49.00	
RSM	0.40	32	P	35 44.10	0.6
			eSg	35 49.50	
PGD	0.43	313	P	35 44.10	0.1
			eSg	35 50.70	
ARV	0.58	98	P	35 46.20	-0.8
			eSg	35 56.00	
ASS	0.64	144	P	35 48.50	0.5
			eSg	35 57.50	

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

? MAY 12, 1990 19h 19m 43.07± 4.63s
43.430 N ±25.9km 11.797 E ±36.6km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

PGD	0.45	353	P	19 53.00	0.9
			eSg	19 59.60	
SFI	0.49	5	P	19 51.80	-1.1
			eSg	19 59.40	
ASS	0.73	119	P	19 57.20	-0.4
			eSg	20 07.60	
ARV	0.84	85	P	20 00.40	0.7
			eSg	20 12.60	

S.D. = 1.6 on 4 of 4 obs.

? MAY 12, 1990 19h 33m 25.17±10.76s
31.579 S ±22.5km 67.576 W ±73.3km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.57	267	iPc	33 37.10	0.4
RTLL	0.80	288	iPd	33 41.00	0.2
RTCV	0.87	251	ePc	33 41.90	0.0
			(S)	33 48.60	
ZON	0.94	272	eP	33 43.00	-0.2
			eS	33 50.00	
RTCB	1.05	275	eP	33 44.50	-0.5
			eS	33 53.00	
RTBS	1.60	267	ePd	33 53.60	0.0
			S	34 08.70	

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

% MAY 12, 1990 19h 46m 04.90± 1.00s
36.452 N ±12.6km 27.388 E ± 7.6km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.99	46	ePn	46 23.70	0.0
SMG	1.33	341	eP	46 30.00	0.6
			eS	46 50.00	
APE	1.61	293	eP	46 32.00	-1.5
			eS	46 52.00	
KSL	1.80	100	eP	46 35.00	-1.3
ELL	2.05	81	ePn	46 41.00	1.1
VAM	2.79	249	eP	46 51.50	1.1

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

• MAY 12, 1990 20h 03m 44.77± 1.51s
36.398 N ±17.7km 69.487 E ± 9.9km
DEPTH = 159.9 ± 20.2 km
4.3mb (2 obs.)
HINDU KUSH REGION (718)

MAIO	8.06	272	eP	05 40.00	-0.1
NDI	10.08	138	eP	06 07.50	0.8
DMN	15.87	119	P	07 20.40	-0.5
GUN	16.24	117	P	07 24.80	-0.7
SHL	21.98	113	eP	08 27.00	0.4
NUR	37.20	325	eP	10 42.00	0.4
SUF	37.37	329	eP	10 43.00	0.0
HFS	42.40	322	eP	11 24.50	0.0
	0.4s		3.00nm		4.3mb
BCAO	56.49	248	ePd	13 12.20	-0.3
	0.4s		2.00nm		4.4mb

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

% MAY 12, 1990 20h 22m 49.68± 0.76s
43.592 N ± 7.6km 12.134 E ± 6.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.14	285	Pc	22 53.30	0.3
			eSg	22 56.10	
SFI	0.39	328	P	22 57.10	-0.5
			eSg	23 03.00	
RSM	0.41	34	Pc	22 58.50	0.5
			eSg	23 04.90	
PGD	0.41	314	P	22 58.20	0.0
			eSg	23 04.90	
ARV	0.59	99	P	23 01.20	-0.5
			eSg	23 10.80	
ASS	0.65	143	P	23 02.90	0.2
			eSg	23 13.10	

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

? MAY 12, 1990 20h 40m 15.65± 1.02s
43.641 N ±13.4km 12.160 E ± 7.5km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.15	265	P	40 18.80	-0.1
			eSg	40 21.60	
SFI	0.36	322	P	40 22.70	-0.1
			eSg	40 28.50	
PGD	0.39	307	P	40 23.80	0.2
			eSg	40 30.50	
ARV	0.59	104	P	40 27.40	0.0
			eSg	40 36.20	

S.D. = 0.2 on 4 of 4 obs.

% MAY 12, 1990 21h 12m 40.74± 1.05s
25.168 S ±12.3km 129.657 E ±11.4km
DEPTH = 10.0km (geophysicist)
NORTHERN TERRITORY, AUSTRALIA (591)

WARB	2.90	249	eP	13 33.20	5.3X
			eS	14 09.70	
FORR	5.83	193	eP	14 09.30	0.1
	0.3s		11.00nm		5.0mb X
			iS	15 09.60	
WRA	6.76	41	Pd	14 23.00	0.5
	0.4s		1.70nm		4.4mb X
WB5	6.83	41	eP	14 24.00	0.5
			eS	15 41.80	

```
MBL     9.88 292 eP     15 06.70   0.9
                eS      16 52.00
MEKA   10.12 259 eP     15 07.20  -2.0
                eS      16 56.00
MTN    12.34   7 iPd    15 37.70  -1.6
                eS      17 53.00
NANU   13.18 278 eP     15 52.30   1.7
                eS      18 10.00
      S.D. = 1.6  on   7 of   8 obs.
-----------------------------------------
   MAY 12, 1990  21h 15m 28.24± 0.12s
    6.070 S ± 2.7km  149.775 E ± 3.5km
   DEPTH =  74.2km  (  4 depth phases)
   5.6mb ( 29 obs.)
 NEW BRITAIN REGION                (192)
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 35C
      Centroid Location:
      Origin Time       21:15:30.0 0.2
      Lat  6.14S 0.02 Lon 149.90E 0.04
      Dep  79.0 FIX Half-duration  3.1
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 3.55 0.14  Mtt=-5.33 0.27
        Mff= 1.78 0.30  Mrt= 4.01 0.19
        Mrf= 0.46 0.19  Mtf=-1.46 0.21
       Principal Axes:
        T  Val=  5.09  Plg=69  Azm=  5
        N        2.04      5      262
        P       -7.13     21      170
      Best Double Couple:Mo=6.1*10**17
       NP1:Strike=250 Dip=25 Slip=  78
       NP2:        84     66       96

LAT     2.82 258 eP     16 11.00  -0.9
RAB     3.03  52 iPc    16 13.00  -1.8
PMG     4.21 218 iPd+   16 30.40  -1.1
                eS      17 17.00
CTA    14.35 193 iPd-   18 46.90  -2.2
       2.0s   823.53nm          5.7mb
     Z 20s    12.77um
                ipP     18 55.00
                isP     19 10.00
                iS      21 28.00
QIS    17.46 213 iPd    19 26.80  -1.6
MTN    19.58 249 eP     19 52.60  -0.5
GUA    20.07 346 eP     19 59.30   1.0
       1.2s  1937.50nm          6.3mb
     Z 23s    16.02um          5.3MszX
                pP      20 14.30  72km
GUMO   20.13 346 eP     19 59.70   0.8
       1.3s  1176.47nm          6.1mb
PJG    20.13 346 eP     19 59.70   0.8
WB5    20.31 226 iPc    20 00.50  -0.3
                eS      23 41.30
RMQ    20.33 183 iPd    20 00.50  -0.4
       0.9s   369.00nm          5.7mb
WRA    20.38 226 Pd     20 01.20  -0.2
       0.7s   169.60nm          5.5mb
QLP    21.07 194 iPd    20 08.20  -0.2
BRS    21.40 173 iPc+   20 11.00  -0.7
       0.9s   34.50nm           4.7mb
                i       20 20.00  33kmX
                iS      24 11.10
                e       27 49.00
PVC    21.50 124 iPc    20 20.00   7.2X
DZM    22.64 136 iPc    20 23.00  -1.1
                iS      24 17.50
KNA    22.74 243 eP     20 25.00   0.0
       0.5s   122.00nm          5.6mb
                e       24 31.00
COO    24.46 176 eP     20 36.00  -5.7X
                e       20 41.80  21kmX
CMS    25.55 188 eP     20 51.00  -0.9
DAV    27.46 298 eP     21 08.00  -1.4
BWA    28.24 182 eP     21 16.10  -0.3
                i       21 21.20  18kmX
CAN    29.12 181 eP     21 25.30   1.0
WARB   29.79 225 eP     21 30.50   0.1
       0.4s   22.00nm           5.2mb
ADE    30.52 198 iPd    21 38.00   1.3
TOO    31.60 187 eP     21 48.00   1.9
BFD    31.66 191 eP     21 46.00  -0.6
FORR   31.96 217 eP     21 48.50  -0.8
       0.4s   54.00nm           5.7mb
MBL    32.64 240 iPc    21 55.20  -0.2
       0.4s   10.00nm           5.0mb

MEKA   36.10 232 eP     22 25.00   0.0
BAG    36.51 308 eP     22 26.00  -2.7
NANU   36.87 240 iPc    22 31.90   0.4
       0.3s   13.00nm           5.3mb
TRT    36.90 265 ePc    22 30.30  -1.5
KLB    39.26 226 iPc    22 51.00  -0.4
NWAO   40.37 224 eP     23 02.00   1.5
       0.8s   19.00nm           5.0mb
     Z 20s     6.60um           5.5Msz
     N 20s     6.10um
     E 20s     4.50um
                eS      29 15.00
MUN    40.57 226 eP     23 02.30   0.1
THZ    41.07 153 P      23 05.90  -0.3
RKG    41.17 223 eP     23 10.00   2.9X
KAGJ   41.21 335 eP     23 08.50   1.1
TCW    41.27 152 P      23 07.90   0.2
ANP    41.48 320 eP     23 05.00  -4.7X
                eS      29 40.00
SNZO   41.54 151 P      23 24.00  14.1X
                PP      25 12.00
                S       29 28.00
LTZ    41.62 155 P      23 12.20   1.5
WDW    41.65 151 P      23 10.90   0.1
MTW    41.81 151 P      23 11.10  -1.1
MOW    41.89 151 P      23 12.50  -0.4
BLW    41.96 151 P      23 12.80  -0.6
KUMJ   42.41 336 P      23 18.00   0.8
IIDJ   42.81 346 P      23 20.20  -0.3
KAKJ   43.01 349 P      23 22.10   0.2
CHJJ   43.10 347 P      23 22.30  -0.5
QZH    43.26 317 Pc     23 24.00  -0.1
     Z 30s     5.50um           5.3MszX
     N 20s     2.70um
     E 20s     3.80um
                eS      29 48.00
TSRJ   43.37 344 P      23 23.40  -1.5
SHK    43.49 339 eP     23 26.50   0.5
SHNJ   43.70 337 P      23 27.70   0.1
MAT    43.75 346 iPc    23 27.50  -0.5
       1.8s   427.27nm          6.0mb
     Z 20s     3.19um           5.2Msz
                eS      29 54.00
MTMJ   43.89 346 P      23 29.20  -0.1
NIIJ   44.24 348 P      23 32.20   0.2
HKC    44.83 310 eP     23 38.00   1.1
GZH    45.91 310 eP     23 47.40   2.0
     Z 22s     2.90um           5.2Msz
     E 21s     4.90um
                eS      30 23.00
SSE    45.96 325 Pc     23 45.00  -0.7
       4.0s   500.00nm          5.8mb X
     Z 20s     6.50um           5.6Msz
     N 20s     4.00um
     E 20s     3.60um
QIZ    46.58 303 P      23 52.10   1.3
     N 20s     3.40um
                eS      30 35.00
NJ2    48.01 324 Pc     24 01.50  -0.3
       6.0s   700.00nm          5.8mb X
     Z 22s     2.60um           5.2Msz
     N 20s     3.50um
     E 20s     3.30um
                S       30 59.00
HOOJ   48.58 354 eP     24 07.00   1.0
MRRJ   48.91 351 eP     24 08.50  -0.1
KUSJ   49.15 355 eP     24 10.80   0.4
PPI    49.59 275 ePc    24 15.00   0.7
       0.7s   423.10nm          6.6mb X
WHN    49.76 319 eP     24 15.50   0.2
     Z 20s     4.40um           5.5Msz
     N 20s     3.10um
     E 28s     3.30um
                sP      24 42.00
IPM    49.81 281 ePc    24 19.20   3.2X
ASAJ   50.37 353 eP     24 20.30   0.6
SNG    50.78 284 eP     24 25.40   2.1
DLZ    51.80 332 eP     24 30.00  -0.6
     Z 22s     2.70um           5.2Msz
     N 18s     2.70um
TIA    52.02 326 Pc     24 31.00  -1.4
       0.6s   100.00nm          6.0mb
     Z 22s     5.00um           5.5Msz
     N 20s     3.20um
     E 20s     3.20um
GYA    52.82 310 P      24 40.00   1.3
     N 20s     1.40um

     E 20s     1.70um
                PP      26 43.00
                sS      32 34.00
LOE    52.87 297 eP     24 37.00  -2.1
SNY    53.34 336 iPc    24 41.00  -1.0
       6.0s   900.00nm          6.0mb X
     Z 30s     3.80um           5.3MszX
     N 31s     3.50um
     E 27s     2.20um
                S       32 11.00
MDJ    53.62 342 Pc     24 44.00  -0.1
       1.0s   100.00nm          5.8mb
     Z 30s     4.60um           5.4MszX
     N 18s     1.40um
NST    53.69 294 eP     24 48.60   3.6X
CN2    54.29 338 Pc     24 48.20  -0.8
       5.0s   700.00nm          5.9mb X
     Z 20s     3.00um           5.4Msz
     N 15s     0.90um
     E 15s     0.80um
                pP      25 05.00  64km
KMI    55.25 306 Pd     24 58.00   1.4
BJI    55.35 329 eP     24 56.50  -0.2
       4.0s   400.00nm          5.8mb X
     Z 24s     4.14um           5.4MszX
     N 17s     1.71um
                ePP     27 02.00
                eS      32 34.00
                eSS     36 20.00
XAN    55.52 319 P      24 56.50  -1.7
     N 19s     1.90um
                PP      27 03.00
                S       32 38.00
TIY    55.73 324 eP     24 59.00  -0.7
     Z 25s     6.80um           5.6MszX
CHG    55.85 297 eP     25 01.80   1.0
CHTO   55.85 297 eP     25 00.80   0.0
                e       25 26.40  105kmX
CD2    57.32 313 eP     25 10.00  -1.1
     Z 27s     2.00um           5.1MszX
     N 20s     2.90um
HON    57.99  60 P      25 30.00  14.2X
     Z 22s     3.89um           5.5Msz
HHC    58.38 327 Pc     25 18.00  -0.4
     Z 20s     5.60um           5.7Msz
     N 19s     2.50um
     E 19s     2.40um
BTO    59.07 325 P      25 22.00  -1.2
     N 18s     2.80um
     E 18s     1.50um
AFR    60.04 107 iP     25 30.20   0.1
       1.0s    60.00nm          5.7mb
LZH    60.09 318 eP     25 29.00  -1.3
       7.0s   370.00nm          5.6mb X
     Z 28s     4.41um           5.5MszX
     N 16s     0.72um
     E 20s     2.32um
                sP      25 54.00
                S       33 37.00
PAE    60.23 107 iP     25 31.50   0.1
       1.0s   160.00nm          6.1mb
PPT    60.23 107 iP     25 31.60   0.2
       1.0s    70.00nm          5.7mb
PPN    60.37 107 iP     25 32.60   0.3
       1.0s    60.00nm          5.7mb
TVO    60.55 107 iP     25 34.20   0.6
       1.0s    60.00nm          5.7mb
DRV    60.87 184 eP     25 35.80   0.8
PMO    61.75 104 iP     25 42.20   0.5
       1.0s    90.00nm          5.9mb
VAH    62.01 104 iP     25 43.60   0.1
       1.0s    35.00nm          5.4mb
TPT    62.02 104 iP     25 43.80   0.3
       1.0s    65.00nm          5.7mb
SMY    62.11  16 P      25 45.00   1.5
     Z 20s     3.20um           5.5Msz
RUV    62.25 104 iP     25 45.30   0.3
       1.0s    45.00nm          5.5mb
GTA    64.58 319 eP     25 59.80  -0.4
     Z 30s     2.90um           5.3MszX
     E 17s     0.90um
                eS      34 36.00
LSA    66.50 306 P      26 13.00  -0.1
GUN    70.22 302 P      26 34.00  -2.1
DMN    70.78 302 P      26 37.20  -2.2
SBA    72.29 176 e(P)   26 49.00   1.8
KOD    73.80 282 eP     27 00.00   2.6
```

12d 21h

HYB	74.07	290	eP	27	01.20	2.6
RKT	74.09	112	iP	26	58.80	0.2
	1.0s	55.00nm			5.4mb	
GBA	74.41	286	P	27	02.00	1.5
	0.5s	2.20nm			4.3mb	X
WMO	74.66	318	P	27	04.00	2.4
	Z 22s	2.20um			5.4Msz	
			pP	27	17.40	46kmX
TTA	80.06	22	P	27	31.00	-0.1
	1.0s	13.75nm			4.8mb	
			pP	27	52.00	78km
KSH	81.47	311	eP	27	40.00	0.9
PMR	82.09	25	eP	27	41.00	-0.6
	0.8s	8.60nm			4.7mb	
IMA	82.66	20	eP	27	43.60	-1.1
	0.7s	4.30nm			4.5mb	X
			e	27	45.30	5kmX
MAW	83.25	203	iP	27	48.20	0.7
SPA	83.97	180	iPc	27	52.30	0.8
	1.0s	66.00nm			5.6mb	
FBA	84.18	22	P	27	49.50	-2.8
	0.8s	15.52nm			5.1mb	
			pP	28	11.60	82km
QUE	86.85	301	eP	28	06.70	0.2
INK	90.71	21	eP	28	27.00	3.3X
MHC	92.51	53	ePc	28	37.00	4.2X
	Z 20s	1.70um			5.5Msz	
	N 20s	0.40um				
	E 20s	1.80um				
			e	56	34.00	
			eLR	57	58.00	
MAIO	93.78	306	eP	28	39.00	0.4
KVN	95.43	51	P	28	48.00	1.7
TNP	96.07	52	P	28	47.00	-2.2
PLM	96.10	57	P	28	54.00	4.5X
YKA	97.95	28	eP	28	54.90	-1.9
	0.9s	1.30nm			4.5mb	X
GOL	105.28	51	PKP	33	45.00	0.4
	Z 18s	1.30um			5.5Msz	
RSON	111.27	37	PKP	33	54.00	-1.2
TUL	113.28	54	ePKP	33	59.00	-0.5
	0.8s	6.20nm				
	Z 22s	6.18um			6.2Msz	
		LR		08	00.00	
SEK	114.64	235	ePKP	34	02.00	-0.6
BLF	115.50	234	iPKPc	34	03.00	-1.2
FRS	115.94	233	iPKPd	34	10.00	5.2X
	1.0s	15.00nm				
KSR	116.16	237	ePKP	34	04.00	-1.6
	0.7s	5.00nm				
APO	116.36	337	ePKP	34	03.50	-1.1
	0.4s	2.70nm				
BUL	116.59	244	iPKPc	34	00.40	-6.1X
	0.8s	17.91nm				
NB2	117.04	339	PKP	34	07.20	1.2
	0.8s	1.60nm				
FVM	117.06	50	PKP	34	06.00	-0.7
PVL	118.87	316	ePKP	34	11.00	1.1
KRA	119.40	325	ePKP	34	11.10	0.4
	Z 24s	2.80um			5.8MszX	
	E 24s	3.10um				
			e	34	22.50	
			e	35	42.20	
			e	45	33.00	
SPC	119.64	324	iPKP	34	11.50	0.0
RZN	119.83	315	iPKP	34	12.00	-0.1
BZS	120.40	320	ePKP	34	12.50	-0.3
LWI	120.49	264	ePKP+	34	15.00	0.8
KKB	120.91	316	iPKPc	34	14.00	0.1
KSP	121.00	328	ePKP	34	14.50	0.7
SRO	121.43	324	ePKP	34	14.30	-0.3
VAY	121.47	315	ePKP	34	14.30	-0.6
ZST	121.94	325	ePKP	34	16.40	0.8
SKO	122.00	316	iPKP	34	16.00	0.0
BRG	122.22	329	iPKPd	34	16.40	0.3
	1.0s	22.00nm				
PRU	122.41	327	PKPd	34	17.00	0.5
CLL	122.45	329	iPKPd	34	17.10	0.6
	0.9s	19.00nm				
	Z 21s	2.00um			5.7Msz	
TKL	122.83	51	PKP	34	17.00	-0.7
KHC	123.41	327	PKP	34	18.50	0.0
	1.0s	11.00nm				
	Z 20s	1.50um			5.6Msz	
	N 20s	1.00um				
	E 20s	1.00um				
MOX	123.55	329	ePKP	34	20.00	1.3
			i	36	04.00	
GRF	124.33	329	ePKP	34	20.50	0.2
	Z 19s	1.40um			5.6Msz	
VBY	124.40	323	ePKPd	34	21.40	0.9
PRM	124.41	53	PKP	34	21.00	0.1
LJU	124.56	323	ePKP	34	21.00	0.2
BHG	124.59	326	ePKP	34	21.00	0.2
	1.0s	15.00nm				
CEY	124.78	323	ePKP	34	21.50	0.3
TACH	124.81	138	ePKP	34	22.50	0.8
BLA	124.86	48	PKP	34	21.00	-0.7
VOY	124.94	324	ePKP	34	21.60	0.0
PCH	125.11	139	ePKP	34	23.70	1.3
JSC	125.22	52	PKP	34	23.00	0.6
PEL	125.29	138	iPKPd	34	23.10	0.4
	1.0s	35.00nm				
TOD	125.62	330	ePKP	34	22.89	0.1
SOTA	125.81	326	iPKPc	34	23.00	-0.4
	1.0s	15.20nm				
			i	34	45.30	
			e	35	29.00	
			e	36	35.00	
CVL	126.00	47	PKP	34	23.00	-0.9
ABH	126.06	331	ePKP	34	24.18	0.5
WNY	126.10	38	PKP	34	23.00	-0.9
OGA	126.12	326	ePKP	34	24.50	0.4
ENN	126.23	332	ePKP	34	23.50	-0.4
	1.0s	17.00nm				
MEM	126.30	332	PKP	34	25.20	1.2
			e	34	40.50	
RUP	126.41	331	ePKP	34	25.04	0.7
HBVT	126.60	37	PKP	34	24.50	-0.3
FEL	127.12	328	ePKP	34	25.65	-0.2
SFI	127.30	322	PKP	34	26.90	0.8
DOU	127.31	332	PKP	34	27.10	1.1
			PP	36	38.00	
			SKSP	46	27.00	
TBR	127.53	41	PKP	34	26.00	-0.7
BSF	127.78	329	ePKP	34	26.50	-0.6
	1.0s	20.00nm				
HAU	127.89	330	ePKP	34	26.60	-0.6
	0.8s	13.45nm				
VAI	127.97	326	PKP	34	26.80	-0.5
LPL	129.30	327	ePKP	34	30.20	0.0
	0.8s	4.05nm				
LPG	129.30	327	ePKP	34	30.20	-0.1
	0.8s	7.40nm				
LOR	129.63	330	ePKP	34	30.30	-0.2
	1.0s	8.00nm				
LBF	129.77	330	ePKP	34	30.50	-0.3
	1.2s	17.85nm				
PGF	129.80	323	ePKP	34	30.70	-0.4
	0.8s	12.10nm				
SBF	129.94	325	ePKP	34	31.00	-0.3
	1.2s	35.70nm				
SSF	129.95	330	ePKP	34	31.40	0.3
	0.8s	8.05nm				
SMF	130.07	330	ePKP	34	31.30	-0.1
	1.0s	12.00nm				
NNA	130.29	111	iPKP	34	33.00	0.3
	0.9s	43.70nm				
FLN	130.55	334	ePKP	34	32.30	0.1
	1.2s	17.85nm				
FRF	130.58	325	ePKP	34	32.00	-0.4
	1.0s	16.00nm				
BGF	130.62	330	ePKP	34	32.70	0.3
	0.8s	10.75nm				
LMR	130.80	325	ePKP	34	32.70	-0.1
	1.0s	12.00nm				
LRG	130.81	325	ePKP	34	32.90	0.1
	0.8s	16.10nm				
GRR	131.00	334	ePKP	34	33.30	0.3
	1.0s	12.00nm				
MAF	131.00	330	ePKP	34	33.60	0.5
	1.2s	13.40nm				
TCF	131.13	330	ePKP	34	33.60	0.2
	0.8s	10.75nm				
LPF	131.35	334	ePKP	34	34.30	0.6
	1.2s	29.75nm				
LSF	131.49	331	ePKP	34	34.30	0.2
	1.2s	11.90nm				
LPO	132.77	330	ePKP	34	36.80	0.3
	1.0s	20.00nm				
CCH	137.55	124	PKP	34	39.80	-7.0X
			i	34	49.50	
SDV	139.85	83	ePKP	34	41.80	-9.1X
TOV	140.65	82	ePKP	34	45.50	-6.7X
MORO	142.05	80	iPKP	34	49.50	-5.2X
SIV	142.41	126	PKP	34	49.00	-6.2X
GUAC	143.11	81	iPKP	34	52.80	-3.8X
CAR	143.43	81	iPKP	34	53.00	-4.1X
LLAV	143.55	81	iPKP	34	53.00	-4.3X
OLLA	143.58	81	iPKP	34	53.00	-4.3X
IFR	144.11	323	iPKP	34	56.50	-1.3
AVE	145.60	325	iPKP	34	59.50	-0.6
			i	35	13.50	
CUM	146.14	80	iPKPd	35	01.00	-0.5
TIO	147.20	322	iPKP	35	04.00	1.0
SVB	148.61	74	ePKP	35	08.42	2.9X
SLB	148.71	73	ePKP	35	08.70	3.0X
TPP	148.82	80	ePKP	35	10.78	5.0X
TRN	148.83	80	ePKP	35	09.39	3.6X
TBH	149.18	80	ePKP	35	12.12	5.8X
TEGH	149.93	271	ePKP	35	13.50	6.0X
SHGH	149.98	271	ePKP	35	12.50	4.9X
LEGH	150.11	271	ePKP	35	13.50	5.7X
KOGH	150.19	272	ePKP	35	14.00	6.0X
WEGH	150.25	271	ePKP	35	14.50	6.5X
KUK	150.32	272	ePKP	35	08.20	0.1
BAO	152.17	141	ePKP	35	12.20	1.3
KIC	154.66	272	PKP	35	14.32	0.0
	1.1s	38.00nm				
TIC	154.94	273	PKP	35	14.64	0.0
	1.1s	24.00nm				
LIC	154.95	272	PKP	35	14.60	0.0
	1.1s	30.00nm				
CAI	165.71	151	ePKP	35	27.50	1.2

S.D. = 1.0 on 200 of 232 obs.

---

* MAY 12, 1990 21h 59m 07.56± 1.06s
36.120 N ±11.5km 27.125 E ± 8.0km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 4.0 (ATH).

YER	1.38	42	iPn	59	31.60	-1.2
APE	1.59	307	ePn	59	36.00	0.1
SMG	1.60	352	ePb	59	35.00	-0.9
CIN	1.67	27	eP	59	36.00	-0.9
KSL	1.99	89	Pn	59	42.80	1.2
IZM	2.28	3	iPn	59	50.30	4.5X
ELL	2.33	74	iPn	59	48.70	2.0
VAM	2.48	254	ePn	59	57.00	8.3X
KHL	2.92	40	ePn	59	55.00	0.1
BCK	3.09	63	ePn	00	00.00	2.7X
ATH	3.29	305	ePb	00	10.80	10.6X
VLI	3.43	281	ePn	00	03.00	0.9
ALT	3.77	38	ePn	00	08.00	0.9
EDC	4.26	8	ePn	00	27.20	13.3X
ITM	4.31	286	ePn	00	18.50	3.8X
YLV	4.78	21	ePn	00	29.00	7.6X
PRNI	8.75	129	eP	01	15.00	-2.1

S.D. = 1.5 on 10 of 17 obs.

MAY 12, 1990 22h 50m 13.91± 0.50s
44.925 N ± 4.8km 3.160 E ± 4.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.1 (LDG). MD 2.8 (STR).

LBL	0.31	11	Pg	50	21.37	1.0
CAF	0.78	270	Pg	50	29.40	0.3
			Sg	50	39.20	
PYM	0.83	353	Pg	50	30.66	0.6
			Sg	50	40.98	
PLDF	1.09	17	Pg	50	35.19	0.7
			Sg	50	49.20	
AGO	1.13	359	Pg	50	35.46	0.4
			Sg	50	50.55	
RJF	1.22	289	Pn	50	36.80	0.1
			Pg	50	37.80	
			Sg	50	52.80	
MAF	1.36	342	Pn	50	39.60	0.7
			Pg	50	40.40	
			Sg	50	57.40	
LPO	1.43	261	Pn	50	40.00	0.2
			Pg	50	42.00	
			Sg	50	59.60	
TCF	1.52	334	Pn	50	41.60	0.5
			Pg	50	43.00	
			Sg	51	01.80	
BGF	1.65	352	Pn	50	43.00	0.0
			Pg	50	45.60	
			Sg	51	05.00	

LFF	1.72	271	Pg	50	46.40	2.4
			Sg	51	08.80	
LSF	1.75	320	Pn	50	44.40	-0.1
			Pg	50	47.00	
			Sg	51	08.60	
SMF	1.79	15	Pn	50	44.70	-0.3
			Pg	50	47.60	
			Sg	51	10.00	
AVF	1.87	4	Pn	50	46.00	-0.2
			Pg	50	49.80	
			Sg	51	12.00	
LBF	2.14	15	Pn	50	50.40	0.3
			Pg	50	54.70	
			Sg	51	20.40	
SSF	2.15	6	Pn	50	50.60	0.3
			Pg	50	55.00	
			Sg	51	21.00	
LOR	2.39	11	Pn	50	53.80	0.0
			Pg	50	59.60	
			Sg	51	28.20	
LPL	2.59	76	Pn	50	58.80	2.0
			Pg	51	04.60	
			Sg	51	36.00	
LPG	2.60	76	Pn	50	59.10	2.1
			Pg	51	05.20	
			Sg	51	36.40	
LRG	2.73	121	Pn	50	59.00	0.4
			Pg	51	06.90	
EPF	2.78	228	Pn	50	58.40	-0.9
			Pg	51	07.00	
			Sg	51	43.00	
FRF	2.85	117	Pn	51	00.40	0.1
			Pg	51	08.50	
			Sg	51	45.60	
MFF	2.86	307	Pn	50	59.80	-0.6
			Pg	51	07.20	
			Sg	51	43.00	
LMR	2.89	122	Pg	51	09.60	8.8X
			Sg	51	47.20	
HAU	3.79	34	Pn	51	11.20	-2.4
			Pg	51	26.00	
BSF	3.84	40	Pn	51	12.40	-2.1
			Pg	51	26.60	
			Sg	52	15.50	
LPF	4.25	318	Pn	51	19.60	-0.5
			Sg	52	26.00	
LDF	4.31	330	Pn	51	19.60	-1.3
			Sg	52	28.00	
GRR	4.43	323	Pn	51	22.00	-0.7
			Sg	52	32.60	
FLN	4.58	328	Pn	51	23.80	-1.0
PGF	4.85	117	Pn	51	26.80	-2.0

S.D. = 1.2 on 30 of 31 obs.

? MAY 12, 1990 23h 08m 15.15± 1.62s
31.368 S ±41.2km 69.197 W ±20.4km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.36	109	iPc	08	32.50	-0.2
			S	08	45.00	
RTBS	0.37	217	ePc	08	32.50	0.0
			S	08	44.00	
ZON	0.48	112	eP	08	34.00	0.7
			eS	08	47.00	
RTLL	0.62	87	iPd	08	34.00	-0.2
			eS	08	47.20	
RTCV	0.75	131	ePd	08	35.00	-0.2
			S	08	50.00	
CFA	0.85	107	iPc	08	36.10	0.0
			(S)	08	51.20	

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

? MAY 12, 1990 23h 29m 58.31± 2.88s
16.859 N ±21.9km 100.161 W ±22.4km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.29	88	iPd	30	07.00	1.0
			iS	30	14.00	
III	1.65	24	iPd	30	24.70	-0.8
			iS	30	42.00	
CRX	2.57	10	(P)	30	42.50	3.6X
			(S)	31	24.00	
UNM	2.63	21	iP	30	41.25	1.6
			iS	31	09.50	
IIT	2.78	39	iPc	30	41.00	-0.7
			iS	31	11.00	
IIJ	2 89	8	(P)	30	47.00	3.5X
			(S)	31	20.40	
OXX	3.30	86	iP	30	48.30	-0.8
			(S)	31	28.00	
LVVM	4.54	50	(P)	31	17.50	11.0X
YKA	46.70	351	eP	38	25.20	-0.4
	0.7s		0.80nm			3.8mb

S.D. = 1.4 on 6 of 9 obs.

% MAY 12, 1990 23h 30m 20.92± 2.75s
45.528 N ±13.4km 26.606 E ±10.8km
DEPTH = 95.4 ± 31.4 km
ROMANIA (358)

BRD	0.31	92	ePc	30	36.50	1.3
VRI	0.35	14	iPc	30	35.00	-0.5
MLR	0.47	266	iPc	30	35.00	-1.4
PPE	0.99	45	eP	30	42.00	0.9
CLI	1.13	25	iPc	30	42.00	-0.8
CMP	1.13	257	ePc	30	44.00	1.1
CFR	1.14	107	iPc	30	43.00	0.1
TLB	1.38	132	iPc	30	45.00	-0.8

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

& MAY 13, 1990 00h 07m 44.26s
61.455 N 141.635 W
DEPTH = 0.0km
SOUTHERN ALASKA (2)
<AGS-P>.

BALM	0.54	220	iP	07	55.37	0.3
			eS	08	05.32	
TGL	0.91	220	iP	08	02.10	-0.3
			iS	08	16.35	
PCA	1.52	153	eP	08	10.86	-2.0
			eS	08	32.59	
HYT	2.10	106	P	08	17.00	-4.3
TOA	2.25	289	eP	08	23.96	0.5
VLZ	2.29	264	eP	08	24.39	0.5
PAX	2.35	312	eP	08	23.83	-1.1
VZW	2.41	263	eP	08	26.92	1.2
GLI	2.71	260	eP	08	30.53	0.7
DWY	2.80	20	Pc	08	25.50	-5.6

10 obs. associated

? MAY 13, 1990 00h 49m 09.47± 2.79s
31.153 S ±41.7km 68.278 W ±37.3km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.24	223	iPc	49	24.00	-0.3
CFA	0.45	176	iPd	49	25.50	0.3
ZON	0.52	221	iPd	49	26.00	0.3
			eS	49	38.00	
RTCB	0.56	233	iPd	49	26.10	0.1
			S	49	37.70	
RTCV	0.74	197	ePc	49	27.20	-0.3
			S	49	40.20	

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

? MAY 13, 1990 02h 26m 51.60± 0.92s
31.888 N ±15.4km 141.780 E ±17.7km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	5.50	328	eP	28	14.00	0.6
	0.7s		20.55nm			4.8mb X
			eS	29	15.00	
GUN	48.18	280	P	35	31.20	-0.1
WRA	52.03	189	Pd	36	00.30	0.1
	0.5s		2.10nm			4.4mb
FBA	53.34	30	(P)	36	11.40	1.9
INK	58.85	26	eP	36	48.00	-1.0
MBC	61.38	16	eP	37	04.00	-2.2
YKA	68.12	29	eP	37	49.70	-0.3
	0.9s		0.60nm			3.7mb
LRM	77.64	44	eP	38	47.70	1.2
NB2	79.05	338	P	38	53.50	-0.2
	0.9s		2.60nm			4.2mb
KRA	83.53	327	eP	39	20.70	3.3X
ZOBO	148.72	67	PKP	46	38.00	3.6X

S.D. = 1.4 on 9 of 11 obs.

% MAY 13, 1990 02h 35m 44.81± 0.76s
40.711 N ± 8.5km 15.831 E ± 5.5km
DEPTH = 5.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.43	249	Pc	35	53.70	0.3
			eSg	36	01.80	
MGR	0.61	200	P	35	55.80	-1.2
			eSg	36	04.50	
BSS	0.78	276	P	36	00.60	0.1
			eSg	36	13.10	
BAI	0.89	62	P	36	02.00	-0.2
BRT	1.06	80	P	36	04.50	-0.7
			eSg	36	18.70	
TDS	1.12	160	P	36	07.20	0.9
LCI	1.66	102	P	36	15.40	0.7

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

? MAY 13, 1990 03h 34m 14.53± 1.49s
45.028 N ± 6.9km 7.291 E ±16.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

RSP	0.13	349	P	34	18.15	0.4
			S	34	20.20	
RRL	0.38	253	P	34	22.36	0.0
			S	34	27.89	
LSD	0.44	347	P	34	23.18	-0.4
			S	34	28.82	
PZZ	0.54	195	P	34	25.43	-0.1
			S	34	33.02	

S.D. = 0.6 on 4 of 4 obs.

% MAY 13, 1990 04h 03m 00.87± 2.02s
43.843 N ± 9.0km 13.548 E ±17.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.56	232	P	03	12.50	0.3
			eSg	03	19.10	
SFI	1.23	274	P	03	23.70	0.0
			eSg	03	39.40	
PGD	1.32	272	P	03	25.20	-0.2
			eSn	03	41.30	
MNS	1.59	204	P	03	29.00	-0.2
			eSn	03	48.10	
CTI	2.58	329	P	03	43.60	0.1

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

MAY 13, 1990 04h 23m 09.60± 0.11s
40.296 S ± 2.8km 176.064 E ± 3.1km
DEPTH = 20.6km (geophysicist)
6.0mb (42 obs.) 6.3Msz (31 obs.)
NORTH ISLAND, NEW ZEALAND (159)
Ms 6.1 (BRK). ML 6.7 (WEL).
Mo=5.0•10••18 Nm (PPT). Some damage (VIII) in the Donnevirke area. Felt ot Wellington. Depth from broodbond displacement seismograms.
RADIATED ENERGY
No. of sto: 5 Focal mech. M
Energy 1.3±0.3•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 23 No. of sta: 14
Moment Tensor; Scale 10••18 Nm
Mrr= 2.78 Mtt= 1.69
Mff=-4.47 Mrt=-1.83
Mrf= 1.40 Mtf=-0.92
Principal axes:

T	Val= 4.46	Plg=52	Azm=198
N	0.32	36	359
P	-4.78	9	96

Best Double Couple:Mo=4.6•10••18
NP1:Strike=220 Dip=48 Slip= 143
NP2: 337 63 49
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 36C M.W.: 11S, 23C
Centroid Location:
Origin Time 04:23:16.0 0.2
Lat 40.23S 0.03 Lon 176.53E 0.03
Dep 15.8 BDY Half-duration 5.5
Moment Tensor; Scale 10••18 Nm
Mrr= 1.89 0.04 Mtt= 1.29 0.05
Mff=-3.18 0.05 Mrt=-1.61 0.22
Mrf= 3.30 0.38 Mtf=-0.54 0.04

```
13d  04h

          Principal Axes:
           T  Val=  4.42  Plg=53  Azm=219
           N        0.39      24      345
           P       -4.82      27       88
         Best Double Couple:Mo=4.6*10**18
          NP1:Strike=220 Dip=28 Slip= 149
          NP2:        338     76       65

PGZ       0.36 154 Pd     23 16.90  -0.4
MNG       0.55 234 iPd    23 23.40   2.9
TTH       0.95  38 Pc     23 27.20  -0.1
MTW       0.96 206 iPc    23 28.70   1.2
KIW       1.05 237 iPc    23 31.80   2.9
DRZ       1.09 339 P      23 32.30   2.4
CAW       1.11 223 iPc    23 31.60   1.7
BLW       1.16 202 iPc    23 31.10   0.4
CNZ       1.16 340 iPd    23 33.30   2.5
KETZ      1.24 345 Pc     23 34.20   2.4
WDW       1.27 220 Pd     23 33.20   1.1
MOW       1.28 208 Pc     23 32.70   0.3
MRW       1.39 227 P      23 35.40   1.5
WEL       1.40 224 P      23 35.20   1.3
MOH       1.43  36 P      23 33.30  -1.2
BHW       1.43 219 P      23 35.20   0.7
RATZ      1.44 351 P      23 36.50   1.8
WHH       1.45  13 P      23 35.20   0.4
TUTZ      1.58 358 P      23 38.10   1.4
HITZ      1.60 352 P      23 38.30   1.3
TCW       1.64 235 Pc     23 39.00   1.5
CCW       2.02 223 P      23 43.40   0.4
TAZ       2.09  10 P      23 43.70  -0.3
UTU       2.12   3 P      23 44.90   0.4
NOZ       2.27  43 P      23 43.20  -3.3X
WLZ       2.48 351 P      23 50.20   0.6
PUZ       2.80  38 P      23 49.80  -4.3X
THZ       2.80 237 P      23 54.20   0.0
KHZ       2.85 221 P      23 53.30  -1.4
HBZ       3.21  34 P      23 56.60  -3.3X
LTZ       3.78 228 P      24 05.90  -2.2
MQZ       4.25 216 P      24 10.60  -4.1X
MHZ       6.90 224 P      24 47.50  -4.7X
TLC       7.10 224 P      24 50.90  -4.1X
MSZ       7.44 231 P      24 59.00  -0.6
DZM      19.92 333 iPc    27 43.10   0.1
                   iS     31 48.30
RIV      20.86 280 eP     27 56.00   3.4X
                   e      28 24.00 151kmX
                   e      32 00.00
                   e      34 12.00
TAU      21.61 254 ePc    28 01.11   1.0
CNB      21.64 275 iPd    28 03.80   3.2X
         1.0s   350.00nm             5.7mb
                   eS     32 03.00
                   e      35 39.00
                   eTT    43 09.00
COO      21.89 289 ePc    28 06.70   3.6X
                   e      35 39.00
CAN      21.91 274 iPc    28 06.30   3.0X
                   e      35 39.10
                   eTT    44 45.00
SVA      22.20   6 ePc    28 05.60  -0.6
BWA      22.69 276 eP     28 11.80   0.8
                   e      35 43.40
                   eTT    45 25.00
BRS      23.15 297 iPc    28 20.00   4.5X
                   i      28 31.30  44kmX
                   i      28 38.00
                   e      29 43.00
                   iS     32 37.10
PVC      23.46 341 iPd    28 20.80   2.3
TOO      23.88 267 iPd    28 25.20   2.6
         0.9s   404.00nm             6.0mb
                   eS     32 06.00
CMS      25.93 280 eP     28 44.00   1.9
         1.1s   292.00nm             5.8mb
BFD      26.24 266 eP     28 46.00   1.0
         1.0s   402.00nm             6.0mb
                   e      28 53.00  25kmX
RMQ      26.51 293 eP     28 49.00   1.5
         1.5s   658.00nm             6.1mb
                   e      29 23.00 166kmX
                   e      35 00.00
RAR      28.01  54 P      29 03.00   1.8
                   S      33 36.00
QLP      29.70 288 eP     29 17.00   0.7
CTA      32.46 299 iPc+   29 40.80   0.0
         1.3s   338.46nm             6.1mb

                     ipP    29 49.00   28kmX
                     isP    30 02.00
                     iPP    30 53.00
                     iS     34 54.00
                     i(S)   35 00.00
CTAO     32.46 299 iPc    29 42.09    1.3
                   epPd   29 48.22   21kmX
                   ePP    30 53.52
DRV      33.15 205 iPc    29 47.80    1.6
HNR      33.91 331 eP     29 53.00   -0.3
                   eS     35 16.00
QIS      36.74 291 iPc    30 17.10   -0.3
AFR      37.17  62 iP     30 22.60    1.6
         1.5s   245.00nm              5.8mb
PPN      37.41  63 iP     30 24.50    1.5
         1.5s   175.00nm              5.6mb
SBA      37.87 183 iPc    30 29.10    2.9X
                   S      36 24.00
PMG      40.07 312 iPc    30 47.00    1.8
         1.2s   656.25nm              6.2mb
PMO      40.24  62 iP     30 48.50    1.9
         1.5s   310.00nm              5.8mb
VAH      40.25  62 iP     30 48.20    1.5
         1.5s   260.00nm              5.7mb
TPT      40.44  62 iP     30 49.90    1.7
         1.5s   290.00nm              5.8mb
RUV      40.45  62 iP     30 49.90    1.6
         1.5s   280.00nm              5.8mb
WRA      40.93 287 Pc     30 51.70   -0.6
         0.8s   271.20nm              6.0mb
WB5      40.95 287 iPc    30 52.10   -0.4
RAB      41.91 323 e(P)   31 01.00    0.7
                   iS     37 16.00
LAT      42.42 314 eP     31 07.00    2.5
WARB     43.13 273 eP     31 10.00   -0.3
         0.4s     18.00nm             5.2mb
RKT      44.45  83 eP     31 27.00    6.0X
         1.7s   205.00nm              5.7mb
MNDI     44.71 311 eP     31 24.50    1.1
COOL     45.01 264 iPc    31 24.90   -0.6
         0.4s     50.00nm             5.8mb
RKG      46.71 258 eP     31 36.00   -2.8X
NWAO     47.04 260 iPc    31 40.81   -0.6
         0.7s     44.00nm             5.6mb
                   i      31 43.30
                   epPd   31 46.94   20kmX
                   ePP    33 33.67
                   ePP    33 33.78
                   e      33 41.01
                   e      33 41.07
                   eS     38 40.00
KLB      47.25 261 iPc    31 43.00   -0.1
         0.4s   107.00nm              6.2mb
KNA      47.68 287 eP     31 46.80    0.2
MTN      47.90 292 eP     31 47.00   -1.4
                   e      34 10.00
MUN      48.25 260 eP     31 50.30   -0.6
         0.9s   210.00nm              6.2mb
      Z  20s     58.80um              6.6Msz
      N  20s     27.90um
      E  20s     38.10um
BAL      48.51 262 eP     31 52.00   -1.0
         0.3s     15.00nm             5.5mb
MEKA     49.11 268 eP     31 56.00   -1.6
         0.5s     64.00nm             5.9mb
MRWA     49.72 263 iPd    32 02.80    0.5
SPA      49.89 180 iPc    32 03.80    0.4
         1.7s   721.88nm              6.4mb
      Z  20s     31.76um              6.3Msz
MBL      51.10 274 eP     32 11.70   -1.1
         0.7s   113.00nm              5.9mb
AAI      56.41 297 eP     32 48.90   -3.2X
GUA      60.87 325 eP     33 18.40   -4.6X
         0.8s   137.31nm              6.1mb
      Z  23s     12.39um              6.0MszX
                   eS     41 40.00
GUMO     60.94 325 eP     33 18.30   -5.1X
         0.9s   170.50nm              6.2mb
MAW      61.34 204 iPc+   33 25.20   -0.5
      Z  18s     53.00um              6.7Msz
AIA      64.85 156 eP     33 49.40    0.5
TRT      64.86 282 iPd    33 48.80   -0.8
         1.3s  1081.80nm              6.8mb
HON      65.89  27 P      34 09.50   13.6X
      Z  20s      5.32um              5.7Msz
DAV      66.17 303 eP     33 56.00   -2.0
TSM      69.07 295 ePd    34 17.20    1.0

         1.2s   652.10nm              6.7mb
KKM      71.66 295 ePc    34 31.00   -1.1
         0.9s   182.20nm              6.2mb
BAG      76.40 306 eP+    34 57.00   -2.6
                   eS     44 37.00
KGM      78.22 283 ePc    35 10.20    0.7
         1.1s   628.40nm              6.6mb
PPI      78.79 279 eP     35 11.20   -1.4
         1.2s   296.20nm              6.2mb
IPM      81.62 283 ePc    35 27.40   -0.3
         0.8s   309.50nm              6.4mb
PSI      81.95 280 ePc    35 27.70   -1.7
         1.5s   119.50nm              5.7mb
TATO     82.42 312 iPc    35 30.71   -0.9
                   epPd   35 36.50   18kmX
                   esPd   35 40.92
KAGJ     82.52 322 P      35 31.80   -0.2
ANP      82.57 312 eP     35 32.00   -0.5
                   eS     45 46.40
KAKJ     82.97 331 P      35 33.90   -0.3
WKYJ     83.02 327 eP     35 34.80    0.2
IIDJ     83.18 329 P      35 35.10   -0.3
CHJJ     83.27 331 P      35 34.50   -1.2
LNV      83.42 129 iPd    35 38.00    1.2
TKSJ     83.47 326 P      35 37.00    0.2
SNG      83.64 285 iPc    35 37.50   -0.6
         1.1s   455.70nm              6.6mb
                   eS     45 58.00
                   e      47 20.30
KUMJ     83.67 323 eP     35 37.60   -0.3
CHCH     83.88 130 eP     35 41.50    2.3
TACH     83.91 129 eP     35 40.00    0.7
TSRJ     84.00 328 P      35 38.60   -0.8
MAJO     84.00 330 iPc    35 38.56   -0.9
                   epPd   35 44.08   17kmX
                   esPd   35 48.77
MAT      84.00 330 eP     35 39.00   -0.5
         1.2s   198.44nm              6.2mb
      Z  20s      4.61um              5.9Msz
                   eS     45 57.00
QZH      84.08 310 Pc     35 40.00    0.0
         6.0s  1800.00nm              6.5mb X
      Z  42s      8.40um              5.8MszX
      E  22s      5.90um
                   PP     38 58.00
                   S      46 04.00
                   sS     46 16.00
                   SS     51 38.00
PCH      84.18 130 eP     35 42.00    1.2
MTMJ     84.20 330 P      35 40.70    0.2
SAN      84.22 129 eP     35 41.50    0.6
NIIJ     84.32 331 P      35 40.70   -0.3
PEL      84.42 129 iPc    35 43.00    1.0
         1.3s   163.46nm              6.1mb
FCH      84.52 130 eP     35 44.70    1.9
YONJ     84.74 326 P      35 43.50    0.3
YAMJ     84.78 332 eP     35 42.70   -0.6
HKC      84.80 305 iP     35 44.80    1.1
SHNJ     84.88 324 P      35 43.00   -0.8
OFUJ     85.02 334 P      35 44.50    0.0
QIZ      85.24 300 Pc     35 47.00    1.0
         7.5s  1300.00nm              6.2mb X
      N  17s      8.20um
      E  18s      4.70um
                   SKS    46 09.00
                   eS     46 18.00
GZH      85.89 305 Pc     35 50.00    0.8
         8.0s  1800.00nm              6.3mb X
      Z  18s      6.40um              6.1Msz
      E  17s      8.20um
                   eS     46 16.00
BSI      86.51 280 ePc    35 52.00   -0.4
RTCB     86.72 129 eP     35 55.00    1.5
ZON      86.75 129 e(P)   35 55.00    1.4
CFA      86.96 130 ePd    35 55.60    1.0
RTLL     87.03 129 ePd    35 55.30    0.4
SSE      87.34 315 Pc     35 54.00   -2.0
         6.0s  1700.00nm              6.5mb X
      Z  20s      8.50um              6.2Msz
      N  20s      6.00um
      E  20s      3.80um
HOOJ     87.49 336 P      35 58.30    1.8
KUSJ     87.71 338 eP     35 57.70    0.1
MRRJ     88.23 335 eP     36 00.30    0.3
ASAJ     89.26 337 P      36 06.30    1.3
NJ2      89.34 314 iPc    36 05.00   -0.6
         8.0s   900.00nm              6.1mb X
```

```
       N  18s       5.10um
       E  19s       3.60um
                     SKS    46 35.00
                     S      46 55.00
 NST      89.65 291 eP      36 08.10    0.8
 LOE      89.68 293 eP      36 07.50    0.0
 WHN      90.75 311 P       36 11.60   -0.6
          1.0s    100.00nm            6.1mb
       Z  20s       5.00um            5.9Msz
       N  18s       6.10um
       E  18s       2.00um
                     pP     36 20.00  26kmX
                     PP     39 52.00
                     SKS    46 44.00
                     S      47 08.00
 ANT      91.28 123 eP      36 17.00    2.0
 GYA      92.53 303 iPc     36 20.00   -0.7
       Z  20s       4.90um            6.0Msz
       N  20s       8.80um
       E  20s       6.30um
                     PP     40 02.00
                     SKS    46 53.00
                     S      47 24.00
                     SS     53 38.00
 CHTO     92.58 292 iPc     36 21.42    0.6
                     e      36 23.08
                     epPd   36 27.55  19kmX
                     esP    36 31.19
                     iPP    40 02.47
                     e      40 07.77
 SMY      92.67 359 P       36 15.00   -5.4X
       Z  20s       7.00um            6.1Msz
 DL2      93.20 321 P       36 23.00   -0.2
          8.0s    400.00nm            5.9mb X
       E  22s       9.70um
                     PP     40 04.00
                     S      47 30.00
 TIA      93.43 316 P       36 24.70    0.3
       Z  21s       6.50um            6.1Msz
       N  18s       2.80um
       E  18s       6.30um
                     SKS    46 55.40
                     eS     47 29.50
 KMI      94.19 299 Pc      36 29.50    1.1
          2.0s      0.10nm            2.9mb X
 MDJ      94.28 329 eP      36 28.40    0.3
       Z  24s       7.30um            6.1MszX
       N  18s       3.40um
                     SKS    47 00.00
 SNY      94.58 324 iPc     36 29.00   -0.5
       Z  38s      10.90um            6.0MszX
       N  17s       4.00um
       E  18s       3.10um
                     PP     40 17.00
                     SKS    46 58.00
                     iS     47 40.00
                     SS     54 04.00
 NNA      94.99 110 eP      36 33.00    0.8
          1.4s     81.40nm            6.0mb
       Z  18s       4.81um            6.0Msz
 PT08     95.22 110 iPd     36 35.80    2.1
 CN2      95.33 326 Pc      36 32.00   -0.9
          5.0s    300.00nm            6.0mb X
       Z  20s       8.00um            6.2Msz
       N  18s       6.50um
       E  18s       2.00um
                     pP     36 41.00  28kmX
                     SKS    47 02.00
 BCH      95.36  48 P       36 36.00    2.5
 ABL      95.61  48 P       36 36.50    1.7
 ARE      95.67 117 eP      36 33.00   -2.7
 PAS      95.71  49 ePc     36 35.29    0.3
                     epPd   36 41.74  20kmX
                     esP    36 46.71
 PLM      95.92  51 P       36 34.00   -2.2
 MHC      96.07  45 ePd     36 47.00   10.3X
       Z  20s       6.00um            6.1Msz
       N  20s       5.00um
       E  20s       5.00um
                     e      39 24.00 760kmX
                     ePP    40 36.00
                     eSKS   47 08.00
                     eS     48 09.00
                     eSP    49 20.00
                     ePS    49 28.00
                     e      50 37.00
                     eSS    54 39.00
```

```
                     eSSS   58 21.00
                     eLQ    01 41.00
                     e      02 52.00
                     eLR    06 45.00
 PEC      96.12  50 P       36 35.00   -1.9
 BKS      96.14  44 eP      36 37.20    0.4
       Z  20s       9.00um            6.2Msz
       N  20s       2.90um
       E  20s       2.90um
                     ePP    40 36.80
                     e      46 53.60
                     e(S)   48 06.00
                     ePS    49 27.20
                     eSS    54 57.60
                     eLQ    03 50.80
 XAN      96.44 310 P       36 37.70   -0.6
       N  17s       4.60um
       E  18s       6.10um
                     PP     40 35.50
 BJI      96.79 318 eP      36 39.50   -0.1
          1.2s     23.00nm            5.6mb
       Z  22s      12.30um            6.3Msz
       N  20s       6.90um
                     ePP    40 36.00
                     eSKS   47 12.00
                     eS     47 52.00
 FRI      96.87  47 eP      36 41.80    1.7
                     ePP    40 35.70
 GLA      96.93  52 P       36 38.00   -2.5
 TIY      97.06 314 Pc      36 41.00   -0.1
       Z  26s      11.40um            6.2MszX
       N  18s       5.10um
                     PP     40 43.00
                     SKS    47 14.00
                     S      48 03.00
 CMB      97.25  45 ePDIFc36 42.88    1.0
                     ePP    40 40.85
 CD2      97.44 304 eP      36 42.00   -0.9
       Z  20s       7.70um            6.2Msz
       N  18s      10.80um
                     ePP    40 35.00
 ORV      97.76  44 ePd     36 46.00    1.9
                     ePP    40 50.50
 LPB      97.91 119 P       36 44.00   -1.9
       Z  16s      11.45um            6.5MszX
                     SKS    47 24.00
                     LR     08 08.00
 WDC      97.96  42 ePd     36 46.70    1.8
                     ePP    40 52.40
 ZOBO     98.08 119 Pc      36 48.20    1.3
                     SKS    47 32.00
                     LR     08 40.00
 MIN      98.28  43 eP      36 47.10    0.5
                     ePP    40 56.30
 CCH      98.59 121 P       36 52.90    4.0X
 TNP      99.04  47 P       36 50.80    0.7
          1.0s      5.83nm            5.1mb
 KVN      99.23  46 P       36 49.00   -2.0
 HHC      99.78 316 eP      36 53.80    0.4
       Z  18s       6.10um            6.1Msz
       N  17s       5.20um
       E  16s       1.20um
                     PP     40 58.00
 LZH     100.87 308 ePdiff36 57.00   -1.6
          9.0s    310.00nm            5.9mb X
       Z  50s      13.10um            6.0MszX
       N  17s       7.47um
                     SKS    47 33.00
                     S      48 28.00
                     sS     48 40.00
 SIV     102.87 124 Pdiff 37 09.20    1.5
 ALQ     103.36  56 ePdiff37 10.00    0.3
       Z  18s      14.43um            6.5Msz
 ANMO    103.36  56 ePdiff37 12.25    2.5
                     ePP    41 26.55
 TTA     105.29  13 PKP    41 30.00   -1.3
 PMR     105.39  16 PKP    41 26.00   -5.4X
       Z  20s      12.00um            6.4Msz
 GTA     105.46 309 Pdiff 37 18.00   -0.8
       Z  18s       9.40um            6.4Msz
       N  18s       6.40um
 BLF     105.50 207 ePKP   41 39.00    6.1X
 PNT     105.68  38 ePKP   41 37.00    4.6X
 SEK     105.70 209 ePdiff37 15.00   -5.2X
          1.0s     12.00nm            5.8mb
                     i      41 41.00
 HYB     106.68 279 ePdiff37 24.00   -0.6
```

```
                     e      40 48.00
                     e      41 28.00
 LRM     106.90  44 ePdiff37 24.80   -0.5
 GOL     107.03  52 PKP    41 40.00    4.4X
       Z  18s      11.70um            6.5Msz
 GLD     107.15  52 PKP    41 40.00    4.3X
       Z  18s      18.40um            6.7Msz
 SWZ     107.56 207 ePdiff37 25.40   -3.1X
          1.5s    100.00nm            6.7mb
 SLR     107.79 210 iPKPd 41 46.50    9.2X
          1.4s     69.77nm
       Z  18s      54.98um            7.2Msz
 KSR     108.19 209 ePKP   41 52.00   13.9X
          1.0s     16.00nm
 MEO     108.35  60 e(PKP)41 39.00    1.1
 IMA     108.58  13 PKP    41 32.80   -4.7X
 FBA     108.61  15 PKP    41 30.00   -7.4X
 SES     110.55  41 ePKP   41 41.00   -0.6
                     pP     42 24.00
 UYO     110.75  62 iPKPc 41 41.50   -0.9
 TUL     110.86  60 ePKP   41 43.00    0.4
          1.2s      9.10nm
       Z  19s      31.62um            6.9Msz
                     LR     15 00.00
 POO     110.92 277 ePKP   41 48.50    5.3X
 EDM     111.21  37 ePKP   41 41.50   -1.3
 BUL     112.66 213 iPKPc 41 40.40   -6.2X
          1.0s     13.00nm
                     ipPKP 42 25.00
 INK     114.63  18 ePKP   41 47.00   -1.8
          1.3s     55.00nm
 WMQ     115.39 307 ePKP   41 50.50   -0.6
          6.0s   1000.00nm
       Z  19s       5.70um            6.2Msz
                     PP     42 53.00
 YKA     116.44  29 ePKP   41 49.70   -2.7
          1.3s     26.70nm
 FFC     117.56  40 ePKP   41 54.00   -0.8
          0.7s      9.00nm
 RSCP    117.65  66 PKP    41 53.00   -2.6
       Z  20s       9.60um            6.4Msz
 JSC     120.01  69 PKP    41 59.00   -1.1
 RSON    120.02  47 PKP    41 57.00   -2.6
       Z  20s      12.43um            6.5Msz
 KSH     120.76 297 PKP    42 02.00    0.4
       E  18s       9.20um
                     SKS    49 13.00
 BLA     122.05  66 PKP    42 02.00   -2.0
 QUE     122.63 284 ePKP   42 05.00   -0.5
 MBC     123.15  15 ePKP   42 03.00   -1.8
          1.1s    328.00nm
 CVL     123.78  66 PKP    42 04.00   -3.2X
 DLA     123.85  60 PKP    42 06.70   -0.5
 ELF     124.16  60 PKP    42 07.05   -0.8
 LDN     124.18  60 PKP    42 07.00   -0.9
 CAI     124.28 139 ePKP   42 09.50    0.6
 CBN     124.65  67 e(PKP)42 09.00    0.1
 SCP     125.45  64 ePKPc 42 08.70   -1.7
                     ePP    44 00.40
                     i      45 20.41
 WVLY    125.69  61 PKP    42 08.00   -2.9X
 PNJ     128.05  65 iPKP   42 16.10    0.8
 TBR     128.10  65 PKP    42 10.00   -5.5X
 RSNY    129.20  60 PKP    42 16.00   -1.5
       Z  20s      28.25um            7.0Msz
 WNY     129.59  61 PKP    42 17.00   -1.2
 HBVT    130.11  61 PKP    42 18.00   -1.2
 HRV     130.47  64 ePKPc 42 19.43   -0.5
                     ePP    44 35.88
                     i      45 41.54
 MAIO    131.00 287 iPKPc 42 21.00   -0.3
          0.8s     10.98nm
                     i      45 44.00
 CBM     134.22  59 PKP    42 25.00   -1.9
 BCAO    138.95 215 ePKPd 42 27.60   -9.2X
          0.7s     21.00nm
                     ic     42 35.50
                     ic     43 50.10
                     ic     45 26.00
 KBS     140.75 355 ePKP   42 33.90   -4.2X
 BHD     141.06 275 ePKPd 42 40.50    0.5
                     ePP    45 45.00
                     ePKS   46 20.00
                     ePPP   48 35.00
 GDH     141.13  26 ePKPd 42 31.00   -8.0X
          1.0s     22.00nm
                     e      45 42.00
```

13d 04h

			i	46	17.00		UPP	156.22	333	iPKP	43	01.50	-1.2				e	14	40.00		
			i	52	29.00					i	43	12.20		PRU	163.80	313	ePKPc	43	10.30	-1.0
SLY	141.14	279	iPKPd	42	39.00	-1.1				i	43	28.60			Z 19s		8.80um			
TAB	141.40	283	e(PKP)	42	31.00	-9.7X				iPP	47	04.00			N 20s		6.30um			
DAG	142.86	6	ePKP	42	36.00	-5.9X	MOL	156.65	347	iPKP	43	02.93	-0.3		E 20s		3.10um			
	1.0s	57.00nm					EZN	156.88	279	iPKP	43	03.50	-0.7				e	44	03.50	
	Z 20s	8.51um			6.5Msz		VRI	157.01	294	ePKPc	43	05.00	0.8	CLL	163.89	319	iPKP	43	10.20	-1.1
	N 21s	3.73um								ec	47	07.00			1.8s	89.00nm				
	E 20s	2.41um					HFS	157.30	337	ePKP	43	02.30	-1.8	PTJ	164.44	298	ePKP	43	11.60	-0.5
MSL	143.20	279	ePKPd	42	39.50	-4.2X		1.0s	19.90nm					TDS	164.44	274	PKP	43	12.50	0.3
			ePKS	46	22.00		VAM	157.30	267	ePKP	43	05.80	0.9	ZAG	164.44	297	iPKPc	43	11.70	-0.3
			eSKKKS	52	44.50		MLR	157.57	293	iPKPd	43	04.00	-1.1	KHC	164.76	311	PKP	43	12.00	-0.3
WAJH	143.64	260	ePKPc	42	42.30	-2.4	RDO	157.69	282	ePKP	43	04.20	-1.0		1.4s	43.00nm				
RUWJ	144.97	271	PKPd	42	47.90	1.0	CMP	158.22	293	ePKPc	43	11.00	5.3X		Z 18s		5.10um			
AGRW	144.98	253	iPKPd	42	44.80	-2.2	ATH	158.46	273	ePKP	43	06.40	0.2		N 19s		3.90um			
AKRL	145.06	253	iPKPd	42	46.50	-0.7	VLI	158.70	269	ePKP	43	06.40	-0.1		E 19s		4.00um			
AAHD	145.08	253	iPKPd	42	46.60	-0.6	TNR	158.74	294	ePKPd	43	08.00	1.7				i	44	08.70	
AGMR	145.11	253	iPKPd	42	47.50	0.3	ITM	159.61	270	ePKP	43	06.10	-1.4	KMR	164.92	307	iPKP+	43	11.00	-1.4
ASKD	145.30	253	iPKPd	42	47.50	-0.1	LIT	159.83	278	ePKP	43	06.60	-1.1				i	44	09.30	
WEGH	145.30	186	ePKP	42	47.50	-0.4	VAY	159.93	282	iPKP	43	06.60	-1.1				iPP	47	54.00	
TEGH	145.31	187	ePKP	42	49.00	1.1		1.2s	204.00nm					ESK	164.96	358	ePKP	43	10.82	-1.3
LEGH	145.34	187	ePKP	42	47.50	-0.4				i	43	46.60					eSKP	46	31.38	
AYN	145.47	263	ePKPc	42	47.30	-0.4	KRA	160.62	308	ePKPc	43	07.20	-0.9				ePP	47	50.56	
SHGH	145.61	187	ePKP	42	49.50	1.1		1.2s	75.00nm					MOX	164.99	319	ePKP+	43	11.50	-0.9
KUK	145.89	186	iPKPd	42	49.20	0.3				e	43	23.60			1.7s	51.00nm				
CSTJ	146.03	267	PKPd	42	49.30	0.6				e	43	50.20			Z 18s		7.20um			
BADA	146.05	262	ePKPc	42	48.80	0.1	SPC	160.73	305	ePKP	43	08.00	-0.5		N 20s		6.00um			
LIC	146.06	178	PKP	42	49.08	-0.1	SKO	160.83	283	iPKP	43	08.40	-0.2		E 19s		2.90um			
	1.5s	420.50nm						1.3s	860.00nm								e	44	09.00	
	Z 20s	10.00um			6.6Msz			Z 21s		7.38um				MGR	165.10	276	PKP	43	11.80	-1.0
KIC	146.21	179	PKP	42	49.44	0.0		N 20s		8.03um				SGO	165.34	277	PKP	43	11.80	-1.1
	1.5s	407.00nm						E 21s		6.61um				WIT	165.53	333	ePKP	43	13.00	0.3
KEV	146.33	341	iPKPc	42	47.89	0.0				i	43	15.30					e	44	12.00	
			i	42	56.80					i	43	50.60		RIY	165.65	297	ePKP	43	11.80	-1.2
			e	43	50.00					i	46	43.00		GRF	165.77	316	ePKP	43	12.20	-0.8
HOL	146.39	263	ePKPc	42	49.00	-0.2				e	47	30.50			Z 21s		7.00um			
TIC	146.48	178	PKP	42	50.22	0.4				i	47	33.20		TRI	165.97	298	ePKP	43	12.70	-0.6
	1.4s	269.00nm								i	47	44.00					e	44	13.40	
PRNI	146.95	265	ePKP	42	50.00	-0.2				i	51	21.00					e	48	04.00	
LISJ	146.99	267	PKPd	42	49.90	-0.2				i	52	53.50					e	01	49.00	
MKRJ	147.01	267	PKPc	42	49.50	-0.8				i	54	53.00		DUI	166.03	282	PKP	43	13.60	0.0
JARJ	147.07	269	PKPc	42	49.40	-1.0				i	55	48.00		MCT	166.07	265	PKP	43	16.00	2.1
KFNJ	147.12	268	PKPd	42	49.70	-0.6				i	57	14.00		WTS	166.15	331	ePKP	43	12.00	-1.2
SALJ	147.18	268	PKPd	42	49.00	-1.5				i	58	46.00			1.2s	48.00nm				
DSI	147.22	267	ePKP	42	51.00	0.5				i	01	06.00					e	44	14.50	
HRI	147.66	270	ePKP	42	52.00	0.7				i	02	44.00		FVI	166.33	303	PKP	43	12.10	-1.4
KTK1	147.79	342	iPKP	42	51.88	1.6				LR	02	52.00		DBN	166.63	335	ePKP+	43	12.00	-1.6
SOD	148.09	338	iPKP	42	49.50	-1.3	COP	161.18	330	iPKP+	43	07.00	-1.4		Z 20s		5.00um			
			i	42	53.60		OHR	161.24	281	iPKP	43	08.10	-1.0				e	44	16.00	
TRO	148.23	345	iPKPd	42	52.12	1.2		1.9s	317.00nm								eSKS	50	08.00	
JNW	149.11	3	ePKP	42	54.00	1.7				i	43	16.00		AQU	166.80	285	PKP	43	14.70	0.5
KOT	149.15	262	ePKP	42	53.75	0.1				i	43	52.00		TNS	166.80	323	ePKPc	43	08.40	-5.5X
HLW	149.49	261	ePKP	42	54.00	-0.1	PSZ	161.32	302	iPKP	43	08.00	-1.0	TOD	167.05	320	ePKP	43	13.02	-1.1
			e	46	29.00		BEO	161.50	292	e(PKP)	43	08.00	-1.1	SOTA	167.06	307	iPKPc	43	13.30	-1.0
FAM	149.66	272	ePKP	43	00.30	6.1X				i	43	54.00			1.2s	117.00nm				
KVT	149.85	285	iPKP	42	58.80	4.4X	KEK	161.81	276	ePKP	43	09.50	-0.1				i	44	18.50	
LFK	150.12	272	iPKP	42	54.00	-1.0	BUD	162.00	301	ePKP	43	08.50	-1.0				i	44	25.90	
CSS	150.16	272	ePKP	42	55.00	0.0	SRO	162.37	303	ePKP	43	09.20	-0.7				e	47	37.00	
BHLJ	150.66	262	PKPd	42	49.40	-6.4X				i	43	58.30					e	48	02.50	
PPCY	150.89	271	ePKP	42	54.50	-1.6				i	47	47.80					i	48	13.60	
SUF	151.25	331	iPKP	42	55.00	-0.7	KSP	162.40	314	ePKPc	43	09.50	-0.4				e	52	51.00	
KAS	151.60	285	iPKPd	42	57.40	0.3		1.4s	74.00nm					RSM	167.30	292	PKP	43	15.50	1.2
MBO	151.79	152	iPKPd	43	06.80	8.9X				ic	43	18.00		MNS	167.34	285	PKP	43	13.50	-1.0
BBTK	152.04	281	iPKPc	42	57.00	-0.8				i	43	57.50		RDP	167.34	282	PKP	43	15.30	0.7
			i	43	05.00					e	47	27.00		ABH	167.46	324	ePKP	43	13.88	-0.5
BCK	153.07	275	iPKP	42	58.00	-1.3	ZST	163.02	305	iPKP	43	10.60	0.1	ENN	167.47	330	ePKP	43	14.00	-0.3
NUR	153.14	328	iPKP	42	58.00	-0.5				e	47	53.50			1.0s	69.00nm				
	0.9s	106.40nm					BRN	163.11	322	ePKPc	43	10.50	0.0				e	44	20.00	
			i	43	06.30		VKA	163.48	306	ePKP	43	10.00	-1.0				e	44	27.50	
			e	46	44.00			4.0s	806.00nm					MEM	167.56	329	PKP	43	14.40	0.1
AKU	153.31	13	ePKP	43	00.10	1.5				i	44	03.50					e	44	20.50	
	1.0s	208.00nm								e	46	11.00		KTD	167.59	321	ePKP	43	13.63	-0.9
			i	43	07.50					i	47	57.50		SFI	167.73	292	PKP	43	15.00	0.4
ELL	153.38	273	ePKP	42	58.00	-1.8	SOP	163.53	303	ePKP	43	11.20	0.1	RUP	167.81	324	ePKP	43	14.01	-0.6
KSL	153.43	272	ePKP	42	59.00	-0.7	BRG	163.66	316	ePKPc	43	10.00	-1.1	PGD	167.83	292	PKP	43	14.70	-0.3
ALT	153.86	278	ePKP	42	59.30	-1.1		1.8s	140.00nm					UCC	168.00	334	PKP+	43	14.00	-0.6
REY	153.90	18	ePKP	43	02.00	2.5		Z 20s		4.50um							e	44	21.00	
			i	43	09.10			N 20s		4.00um				SNF	168.27	333	iPKP	43	14.04	-0.8
GPA	153.97	281	ePKP	42	59.60	-0.8		E 20s		6.00um							i	44	23.36	
KHL	154.12	277	ePKP	43	00.10	-0.6				i	43	18.00		MME	168.47	295	PKP	43	15.80	0.3
HRT	154.55	282	ePKP	43	00.00	-1.1				i	44	03.00		DOU	168.51	331	PKP	43	10.00	-5.0X
ISK	155.04	283	ePKP	43	01.00	-0.7				e	47	54.00			Z 21s		11.40um			
ITU	155.08	283	iPKPc	43	00.00	-1.8				e	48	12.40					e	44	24.70	
QTT	155.53	283	ePKP	43	01.50	-0.9				e	48	31.50		FEL	168.55	315	ePKP	43	14.03	-1.2
EDC	155.82	281	ePKP	43	02.10	-0.7				e	58	48.00		BDI	168.58	294	PKP	43	13.90	-1.4
UZM	155.86	276	ePKP	43	02.40	-0.6				e	02	56.00		CDF	168.60	319	ePKP	43	14.30	-0.9
CFR	156.03	292	ePKP	43	02.00	-0.9				e	08	52.00			1.4s	26.15nm				

PII	168.71	292	PKP	43 14.00	-1.3
BOB	169.16	299	PKP	43 14.60	-1.1
VAI	169.17	305	PKP	43 14.60	-0.9
BSF	169.22	318	ePKP	43 14.90	-0.7
	1.4s	61.00nm			
HAU	169.33	320	ePKP	43 15.00	-0.6
	1.4s	52.30nm			
ORX	169.77	305	PKP	43 14.30	-1.8
PCP	169.84	299	PKP	43 14.71	-1.3
PGF	170.03	287	ePKP	43 15.90	-0.4
	1.4s	122.00nm			
CKI	170.06	299	PKP	43 15.50	-0.6
FIN	170.18	297	PKP	43 15.64	-0.6
TIO	170.27	163	iPKPc	43 18.20	1.4
LSD	170.36	306	PKP	43 16.76	0.2
ROB	170.38	298	PKP	43 15.94	-0.4
RSP	170.44	304	PKP	43 15.43	-1.0
LPG	170.59	307	ePKP	43 16.70	0.0
	1.4s	52.30nm			
LPL	170.60	307	ePKP	43 16.60	0.0
	1.4s	41.40nm			
ENR	170.71	299	PKP	43 15.64	-0.9
DOI	170.72	301	PKP	43 15.80	-0.8
STV	170.77	299	PKP	43 15.43	-1.1
PZZ	170.82	301	PKP	43 15.53	-1.1
SBF	170.82	297	ePKP	43 16.40	-0.2
	1.4s	143.75nm			
RRL	170.85	304	PKP	43 16.76	0.0
BNI	170.85	305	PKP	43 16.80	0.1
LOR	171.04	324	ePKP	43 16.20	-0.3
	1.3s	34.30nm			
FLN	171.18	345	ePKP	43 16.20	-0.3
	1.2s	47.60nm			
LBF	171.19	322	ePKP	43 16.30	-0.3
	1.6s	118.15nm			
LDF	171.27	343	ePKP	43 16.10	-0.4
	1.2s	35.70nm			
SSF	171.35	324	ePKP	43 16.40	-0.2
	1.4s	65.35nm			
FRF	171.46	296	ePKP	43 16.80	0.0
	1.4s	104.55nm			
SMF	171.50	321	ePKP	43 16.30	-0.4
	1.4s	47.90nm			
GRR	171.61	346	ePKP	43 16.70	0.0
	1.2s	29.75nm			
AVF	171.63	323	ePKP	43 16.40	-0.3
	1.4s	30.50nm			
LMR	171.63	295	ePKP	43 16.80	0.0
	1.2s	53.55nm			
LRG	171.70	296	ePKP	43 17.10	0.3
	1.4s	113.25nm			
LPF	171.99	346	ePKP	43 17.00	0.2
	1.2s	35.70nm			
BGF	172.03	324	ePKP	43 16.80	-0.1
	1.4s	87.15nm			
MAF	172.41	323	ePKP	43 17.70	0.6
	1.4s	17.45nm			
AVE	172.48	157	iPKP	43 16.50	-1.0
		i		48 32.50	
TCF	172.52	325	ePKP	43 17.20	0.0
	1.4s	39.20nm			
LSF	172.84	328	ePKP	43 17.20	0.0
	1.6s	59.10nm			
MFF	173.12	338	ePKP	43 17.50	0.2
	1.4s	56.65nm			
IFR	173.17	172	iPKPc	43 19.50	1.5
RJF	173.59	323	ePKP	43 18.10	0.5
	1.5s	83.55nm			
CAF	173.60	318	ePKP	43 18.40	0.8
	1.4s	56.65nm			
LPO	174.21	321	ePKP	43 18.60	0.8
	1.4s	95.85nm			
LFF	174.22	325	ePKP	43 18.30	0.5
	1.4s	69.70nm			
NKM	175.02	166	iPKPc	43 20.00	1.7
		i		44 56.00	
STS	175.68	52	iPKPd	43 19.40	1.2
EPF	175.79	312	ePKP	43 19.10	0.8
	1.4s	126.35nm			
EMON	175.97	38	iPKPc	43 19.40	1.1
EJIF	175.98	162	ePKP	43 20.80	2.3
ENIJ	176.42	203	iPKPd	43 19.60	1.0
MAL	176.42	174	iPKPc	43 29.00	10.5X
EVAL	176.52	140	iPKPc	43 20.00	1.4
EPRU	176.52	163	ePKP	43 20.80	2.1
EBR	176.59	280	ePKP	43 20.00	1.5
			ePKKP	45 01.00	
			ePP	48 54.00	
ATEJ	176.62	179	iPKPc	43 20.00	1.2
EROO	176.65	280	iPKPd	43 20.00	1.5
APHE	176.66	183	iPKPc	43 20.50	1.7
ERUA	176.80	48	ePKP	43 20.00	1.5
ACHM	176.81	182	iPKPc	43 20.00	1.2
ALOJ	176.82	178	iPKPc	43 19.60	0.7
EALH	176.88	220	ePKP	43 20.30	1.7
AFC	176.95	186	iPKPd	43 19.30	0.4
AAPN	177.01	177	iPKPc	43 19.80	1.0
ASMO	177.06	183	iPKPc	43 19.60	0.7
EHOR	177.32	157	iPKPc	43 20.30	1.6
ECRI	177.45	336	ePKP	43 20.30	1.6
ECHE	177.61	254	iPKPc	43 20.00	1.3
EBAN	177.87	183	iPKPc	43 20.00	1.2
EVIA	178.01	214	iPKPc	43 20.00	1.1
EPLA	178.34	97	iPKPc	43 20.30	1.5
ETOR	178.47	291	iPKPc	43 20.00	1.2
TOL	179.58	168	ePKPc	43 19.95	1.1
			iPKKP	45 13.00	
			iPKPpb	45 13.26	
			ePKS	46 56.00	
			iPP	49 05.00	
			iPPP	53 25.00	
GUD	179.62	26	iPKPc	43 20.60	1.6

S.D. = 1.2 on 395 of 446 obs.

---

* MAY 13, 1990 04h 39m 50.95± 0.99s
23.592 N ± 9.9km 122.517 E ±11.5km
DEPTH = 33.0km (normal)
TAIWAN REGION (243)

TWD	0.97	300	ePd	40 08.60	0.3
TWF1	1.15	258	iPd	40 11.00	0.3
			eS	40 32.10	
TWC	1.18	329	ePc	40 10.90	-0.3
			eS	40 32.10	
TWG	1.54	240	iPc	40 15.90	-0.4
WB5	44.73	164	eP	48 03.10	0.1
WRA	44.78	164	Pd	48 03.50	0.0
	0.6s	7.20nm		4.7mb	X

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

---

* MAY 13, 1990 04h 43m 48.99± 0.83s
32.395 N ± 9.2km 92.770 E ±12.3km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
TIBET (306)

SHL	6.85	187	iP	45 29.50	-0.4
GUN	7.45	235	P	45 38.80	0.3
DMN	8.18	236	P	45 48.40	-0.2
	0.6s	23.00nm		5.5mb	
GBA	23.38	220	Pd	48 55.80	0.2
HFS	57.19	324	ePKP	53 34.50	-0.3
	0.4s	1.50nm		4.4mb	
NB2	58.25	326	P	53 42.40	0.1
	0.8s	1.50nm		4.1mb	
WRA	65.50	137	Pc	54 31.60	0.3
	0.7s	5.80nm		4.8mb	

S.D. = 0.3 on 7 of 7 obs.

& MAY 13, 1990 04h 53m 53.31s
62.100 N 148.021 W
DEPTH = 38.1km
CENTRAL ALASKA (1)
<AGS-P>.

SML	0.33	207	iP	54 01.38	-0.4
GHO	0.54	233	iP	54 03.80	-0.8
			eS	54 12.76	
NCA	0.57	100	iP	54 04.13	-0.9
			eS	54 13.44	
PLRM	0.73	226	iP	54 06.12	-1.1
			eS	54 16.77	
TOA	0.87	89	iP	54 08.58	-0.7
			eS	54 20.79	
PWA	0.99	244	eP	54 10.43	-0.4
			iS	54 24.32	
CUT	1.10	287	iP	54 11.67	-0.7
			eS	54 25.03	
PMS	1.13	221	iP	54 12.66	-0.3
			iS	54 26.98	
HUR	1.16	320	eP	54 12.05	-1.2
			iS	54 27.64	
KLU	1.17	120	iP	54 12.29	-1.2
			eS	54 28.14	
SDG	1.23	69	eP	54 13.39	-1.0
VZW	1.26	145	eP	54 13.06	-1.7
			eS	54 31.23	
VLZ	1.26	140	iP	54 12.96	-1.8
GLI	1.30	160	iP	54 14.58	-0.8
			eS	54 33.04	
RND	1.37	344	iP	54 15.05	-1.3
SUA	1.44	245	eP	54 17.16	-0.3
			eS	54 37.36	
PAX	1.47	52	eP	54 16.65	-1.2
SKT	1.66	267	iP	54 20.10	-0.3
MCK	1.69	346	eP	54 20.13	-0.8
			iS	54 41.24	
SLKM	1.92	215	eP	54 23.95	-0.3
DDM	1.96	29	eP	54 25.41	0.6
			eS	54 51.22	
KTH	1.97	319	eP	54 23.99	-1.1
			eS	54 49.59	
NKA	2.06	230	eP	54 28.40	2.2
SEW	2.12	200	eP	54 26.83	-0.2
SPU	2.13	246	eP	54 27.05	-0.3
			iS	54 55.52	
CRP	2.14	249	eP	54 27.66	0.1
HDA	2.36	11	eP	54 30.05	-0.5
WRH	2.38	359	eP	54 29.96	-0.8
			iS	54 58.90	
DOT	2.39	48	eP	54 29.97	-0.9
NEA	2.53	350	eP	54 30.96	-1.9
RDT	2.61	236	eP	54 33.48	-0.6
FBA	2.81	2	eP	54 35.09	-1.8
TGL	2.84	116	eP	54 35.76	-1.6
GLM	2.91	5	eP	54 36.53	-1.9
			eS	55 10.46	
CNPM	3.03	213	eP	54 38.53	-1.4
CDD	4.22	224	eP	54 55.44	-1.5

36 obs. associated

MAY 13, 1990 05h 28m 06.70± 0.73s
38.904 N ± 5.9km 27.259 E ±11.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.51	180	iPg	28 17.50	0.5
			iSg	28 23.50	
EZN	1.17	322	iPn	28 29.00	0.5
SMG	1.24	196	ePb	28 28.60	-1.1
			eSb	28 47.20	
CIN	1.46	153	eP	28 33.00	0.0
EDC	1.52	18	iPn	28 34.00	0.1
KGT	1.55	1	iPn	28 35.20	0.9
KHL	1.87	107	ePn	28 43.00	4.0X
ALT	2.23	85	iPn	28 45.60	1.3
APE	2.28	217	ePg	28 53.40	8.3X
CTT	2.41	21	ePn	28 44.00	-2.8
ISK	2.56	32	ePn	28 57.00	8.1X
RDO	2.60	330	ePn	28 50.10	0.6
HRT	2.67	43	ePn	28 58.00	7.5X
GPA	2.73	59	ePn	29 02.00	10.5X

S.D. = 1.5 on 9 of 14 obs.

% MAY 13, 1990 05h 40m 54.97± 0.88s
40.611 N ± 9.3km 15.710 E ± 5.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.31	260	P	41 01.60	0.2
			eSg	41 08.40	
MGR	0.49	194	P	41 04.40	-0.5
			eSg	41 13.20	
BSS	0.71	285	P	41 09.00	0.0
			eSg	41 19.80	
ORI	0.79	134	P	41 10.90	0.6
BRT	1.17	76	P	41 16.40	-0.4
			eSg	41 30.80	

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

% MAY 13, 1990 05h 46m 52.97± 1.11s
38.895 N ± 8.1km 27.117 E ±13.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.51	167	iPg	47 02.50	-0.8
			iSg	47 10.50	
EZN	1.11	327	iPn	47 14.50	0.7
EDC	1.56	21	iPn	47 20.00	-0.8
KGT	1.56	5	iPn	47 21.20	0.4
KHL	1.97	106	ePn	47 29.00	2.2

13d 05h

ALT 2.34 85 iPn 47 31.30 -0.9
CTT 2.47 24 ePn 47 33.00 -0.8
ISK 2.63 34 ePn 47 43.00 6.8X
HRT 2.75 45 ePn 47 43.00 5.0X
S.D. = 1.4 on 7 of 9 obs.

? MAY 13, 1990 05h 56m 01.86± 4.23s
20.419 S ±45.7km 178.627 W ±38.2km
DEPTH = 646.0 ± 41.5 km
3.7mb (2 obs.)
FIJI ISLANDS REGION (181)

DZM 14.02 261 iPc 59 01.10 1.1
WB5 44.01 262 eP 03 16.10 -0.7
WRA 44.03 262 Pc 03 16.20 -0.7
0.4s 1.80nm 3.9mb
MTN 48.57 271 iPc 03 50.30 -1.0
0.8s 57.00nm 5.1mb X
MBL 57.20 257 eP 04 51.20 -1.0
NANU 60.85 255 eP 05 16.50 0.2
MAT 69.80 324 eP 06 11.00 -0.2
FBA 88.29 13 eP 07 46.70 -0.4
CHTO 89.66 290 eP 07 56.90 2.6
YKA 96.69 25 eP 08 24.50 -0.9
0.8s 0.30nm 3.6mb
SUF 134.44 344 ePKP 14 09.00 -0.2
NUR 136.69 343 iPKP 14 14.00 0.5
NB2 138.83 353 PKP 14 09.10 -8.4X
0.6s 1.20nm
EKA 144.97 5 PKPc 14 28.90 0.6
1.0s 7.50nm
CLL 147.85 346 iPKP 14 37.80 4.8X
0.8s 24.00nm
i 14 42.10
PRU 148.69 344 PKP 14 39.90 5.5X
MOX 148.77 347 ePKP 14 40.00 5.5X
ENN 149.50 354 ePKP 14 42.00 6.5X
0.9s 9.00nm
MEM 149.65 354 PKP 14 42.20 6.5X
KHC 149.73 344 PKP 14 42.50 6.5X
e 14 50.60
S.D. = 1.2 on 13 of 20 obs.

---

* MAY 13, 1990 06h 17m 31.37± 1.09s
15.645 N ±18.6km 147.680 E ±22.9km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
MARIANA ISLANDS REGION (215)

GUMO 3.41 233 eP 18 23.40 -0.1
PJG 3.41 233 eP 18 23.50 0.0
MAT 22.46 340 eP 22 29.00 0.0
YKA 79.79 28 eP 29 37.30 -0.2
0.6s 0.40nm 3.6mb
KIC 145.01 307 (PKP) 37 08.00 0.1
TIC 145.05 307 (PKP) 37 08.20 0.2
S.D. = 0.2 on 6 of 6 obs.

---

* MAY 13, 1990 08h 08m 40.68± 0.36s
36.340 N ± 6.5km 100.225 E ± 5.1km
DEPTH = 33.0km (normal)
4.6mb (13 obs.)
QINGHAI PROVINCE, CHINA (325)
ML 4.3 (BJI).

LZH 2.94 94 ePn 09 27.70 1.4
Pg 09 30.50
Sg 10 09.30
GTA 3.08 354 Pn 09 33.00 4.7X
Pg 09 40.40
Sg 10 24.00
CD2 6.17 150 ePn 10 13.70 1.8
Z 10s 1.10um
eSn 11 20.00
XAN 7.48 105 Pn 10 28.80 -1.5
Pg 10 57.80
BTO 8.78 58 eP 10 47.50 -0.9
N 12s 0.60um
E 12s 0.30um
eS 12 35.00
TIY 9.86 78 eP 11 03.40 0.1
Z 10s 1.00um
N 10s 1.10um
HHC 9.95 60 eP 11 04.10 -0.5
Z 14s 0.60um
GYA 11.28 149 P 11 21.60 -1.1
WMQ 12.15 312 P 11 32.50 -1.9
S 13 47.50
BJI 13.08 69 P 11 52.00 5.3X
GUN 14.76 239 P 12 01.00 -8.2X
CHG 17.50 184 eP 12 42.60 -1.2
0.8s 8.40nm 3.9mb
SNY 18.92 66 eP 13 00.60 -0.5
CN2 20.64 61 Pc 13 25.80 6.0X
SOD 50.78 331 eP 17 40.00 0.7
NUR 52.25 323 eP 18 10.00 19.5X
UPP 55.82 323 iP 18 16.80 0.2
HFS 57.64 324 eP 18 28.50 -1.1
0.7s 2.20nm 4.3mb
NB2 58.52 325 P 18 35.40 -0.5
0.9s 3.40nm 4.4mb
FBA 66.13 26 eP 19 27.80 1.4
LPG 67.36 310 eP 19 35.60 0.7
0.8s 6.05nm 4.7mb
LPL 67.36 311 eP 19 35.50 0.6
0.8s 5.35nm 4.7mb
PGF 67.37 307 eP 19 35.10 0.2
0.9s 8.20nm 4.8mb
INK 68.27 19 ePc 19 40.10 0.2
SMF 68.54 313 eP 19 41.90 -0.1
0.8s 4.05nm 4.6mb
AVF 68.76 313 eP 19 43.20 -0.1
0.8s 3.35nm 4.5mb
MAF 69.52 313 eP 19 48.60 0.6
0.8s 6.05nm 4.7mb
TCF 69.70 313 eP 19 49.50 0.4
0.8s 4.05nm 4.5mb
GRR 70.35 316 eP 19 53.20 0.3
0.8s 5.35nm 4.7mb
MFF 70.91 314 eP 19 56.70 0.3
1.0s 16.00nm 5.0mb
YKA 77.60 16 eP 20 34.90 0.2
0.8s 1.00nm 3.9mb
S.D. = 1.0 on 26 of 31 obs.

? MAY 13, 1990 08h 32m 58.28±17.91s
34.150 S ±96.7km 70.329 W ±118.km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.34 309 iPc 33 06.00 -0.7
iS 33 14.00
PCH 0.55 344 iPc 33 09.60 -0.1
iS 33 20.50
TACH 0.71 314 iPc 33 12.00 0.2
iS 33 25.00
LNV 0.92 282 iPd 33 15.00 0.2
iS 33 30.00
ROCH 1.31 334 iPc 33 13.30 -7.2X
eS 33 26.60
S.D. = 0.7 on 4 of 5 obs.

& MAY 13, 1990 10h 36m 55.66s
63.088 N 150.594 W
DEPTH = 117.7km
CENTRAL ALASKA (1)
<AGS-P>.

KTH 0.49 343 iP 37 13.30 -0.3
iS 37 26.25
CUT 0.70 168 iP 37 14.99 0.0
eS 37 30.10
RND 0.85 67 iP 37 15.94 -0.5
eS 37 32.31
MCK 0.99 48 eP 37 17.21 -0.5
SKT 1.19 202 iP 37 19.51 -0.3
eS 37 37.75
GHO 1.53 149 iP 37 23.71 -0.1
eS 37 46.14
SUA 1.63 183 eP 37 26.23 1.2
iS 37 47.96
PLRM 1.65 155 eP 37 24.95 -0.1
SML 1.66 140 iP 37 24.76 -0.5
WRH 1.78 38 eP 37 25.59 -1.1
PMS 1.91 165 eP 37 28.38 0.0
iS 37 53.04
CCB 1.99 37 iP 37 28.16 -1.2
SPU 2.03 200 iP 37 30.42 0.5
TOA 2.27 114 eP 37 31.65 -1.4
PAX 2.34 91 iP 37 33.68 -0.3
KLU 2.71 124 eP 37 37.67 -1.1
16 obs. associated

% MAY 13, 1990 10h 42m 18.58± 0.80s
40.546 N ±11.3km 15.651 E ± 7.4km
DEPTH = 33.0km (normal)
SOUTHERN ITALY (390)

SGO 0.26 273 P 42 25.30 -0.5
eSg 42 31.70
MGR 0.41 190 Pc 42 28.00 0.1
eSg 42 37.50
BSS 0.69 291 P 42 32.30 0.5
eSg 42 43.60
ORI 0.78 128 P 42 33.20 0.1
eSg 42 44.20
BRT 1.23 74 P 42 39.40 -0.1
eSg 42 53.90
S.D. = 0.5 on 5 of 5 obs.

---

* MAY 13, 1990 10h 48m 38.99± 1.65s
36.527 N ±13.8km 21.642 E ±13.3km
DEPTH = 63.0 ± 13.5 km
3.6mb (1 obs.)
SOUTHERN GREECE (368)
MD 3.6 (ATH).

ITM 0.69 19 iPnd 48 52.00 -1.5
VLI 1.06 79 iPnd 48 58.50 0.3
VLS 1.85 333 ePb 49 11.00 2.0
ATH 2.20 48 ePn 49 13.90 0.1
VAM 2.36 118 ePn 49 16.20 0.1
AGG 2.55 12 ePn 49 20.40 1.6
APE 3.17 79 ePb 49 31.10 3.5X
IGT 3.17 341 ePn 49 27.20 -0.4
KEK 3.50 336 ePn 49 30.60 -1.5
LIT 3.63 10 ePn 49 34.60 0.6
PAIG 3.75 25 ePn 49 37.90 2.2
FNA 4.26 357 ePn 49 43.00 0.1
GRG 4.46 7 ePn 49 45.20 -0.5
SOH 4.49 17 ePn 49 45.90 -0.3
OHR 4.62 352 ePn 49 49.50 1.5
SRS 4.83 18 ePn 49 50.00 -0.9
VAY 4.84 8 ePn 49 49.60 -1.4
SKO 5.44 358 ePn 49 57.50 -1.9
KSL 6.42 91 ePn 50 12.60 -0.5
NUR 24.08 4 eP 53 50.00 0.8
HFS 24.17 350 eP 53 49.80 -0.4
0.4s 1.00nm 3.6mb
S.D. = 1.3 on 20 of 21 obs.

---

* MAY 13, 1990 10h 56m 52.97± 1.41s
36.452 N ±11.2km 21.496 E ±10.3km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.5 (ATH).

ITM 0.80 25 iPnd 57 07.90 0.0
VLI 1.19 77 iPnd 57 14.50 1.1
VLS 1.87 338 ePn 57 23.40 0.2
ATH 2.33 49 ePn 57 30.20 0.4
VAM 2.43 115 ePn 57 32.00 0.8
AGG 2.65 14 ePn 57 35.90 1.6
eSn 58 07.60
NEO 3.16 25 ePn 57 40.70 -0.9
IGT 3.21 344 ePn 57 43.00 0.8
APE 3.30 78 ePb 57 49.20 5.6X
KEK 3.52 338 ePn 57 47.00 0.3
LIT 3.73 12 ePn 57 50.20 0.6
PAIG 3.87 26 ePn 57 51.10 -0.5
FNA 4.33 359 ePn 57 58.00 -0.2
GRG 4.55 9 ePn 58 01.60 0.2
OHR 4.68 354 ePn 58 03.30 0.1
VAY 4.93 9 ePn 58 06.40 -0.3
SRS 4.94 19 ePn 58 05.70 -1.1
SKO 5.51 360 ePn 58 19.00 4.1X
KSL 6.54 91 ePn 58 27.80 -1.6
HFS 24.23 350 eP 02 05.70 -1.8
0.4s 1.10nm 3.8mb
S.D. = 1.0 on 18 of 20 obs.

MAY 13, 1990 11h 25m 13.34± 0.69s
40.451 N ± 8.3km 139.801 E ± 6.2km
DEPTH = 188.8 ± 7.0 km
4.4mb (8 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

AOMJ 0.45 76 iPd 25 37.90 -1.0
S 25 56.40
MAT 4.10 198 iPc 26 17.70 1.1

			eS	27 08.00		
CN2	11.17	292	P	27 49.00	0.2	
SNY	12.31	282	eP	28 04.20	0.8	
SSE	17.73	244	P	29 09.60	0.1	
	1.0s	10.00nm		4.2mb		
BJI	18.03	276	P	29 11.00	-1.7	
	1.2s	32.00nm		4.6mb		
TIA	18.27	264	P	29 15.00	-0.3	
NJ2	18.83	250	Pc	29 20.00	-1.0	
BTO	22.59	280	eP	29 58.20	-0.3	
XAN	25.32	265	P	30 24.00	-0.2	
LZH	28.44	273	eP	30 53.20	0.7	
GTA	30.50	281	eP	31 10.00	-0.7	
GYA	30.77	253	P	31 13.00	-0.1	
CHG	41.07	251	eP	32 42.00	2.1	
GUN	45.68	271	P	33 18.30	1.0	
PKI	46.21	271	P	33 22.00	0.5	
DMN	46.43	272	P	33 24.00	0.9	
FBA	46.93	34	eP	33 27.30	1.1	
INK	51.95	28	eP	34 05.00	0.6	
MBC	53.62	17	eP	34 16.50	-0.1	
KEV	59.81	338	eP	35 02.00	1.7	
WB5	60.23	186	eP	35 02.10	-1.5	
WRA	60.30	186	Pd	35 03.60	-0.5	
	0.4s	2.60nm		4.4mb		
GBA	60.32	263	Pc	35 04.90	0.5	
	0.8s	5.10nm		4.3mb		
SOD	61.33	336	eP	35 10.00	-0.6	
YKA	61.50	31	eP	35 11.10	-0.7	
	0.7s	1.30nm		3.9mb		
SUF	64.37	332	iP	35 30.20	-0.4	
NUR	66.35	331	eP	35 42.00	-1.2	
HFS	70.46	335	eP	36 08.10	-0.4	
	0.4s	4.20nm		4.5mb		
NB2	70.56	336	P	36 08.10	-1.1	
	0.5s	1.30nm		3.9mb		
FFC	71.51	33	eP	36 15.00	0.1	
	0.8s	11.00nm		4.6mb		
LRM	72.59	44	eP	36 22.70	1.0	
CMB	72.91	54	eP	36 24.60	1.1	
KVN	73.68	52	eP	36 28.20	0.1	
FRB	73.73	13	eP	36 27.00	-0.6	
TNP	74.83	53	eP	36 36.10	1.4	
ZOBO	145.85	53	PKP	44 29.20	-2.7	
S.D. = 1.1 on 37 of 37 obs.						

MAY 13, 1990 11h 27m 29.61± 0.62s
43.701 N ± 4.4km 7.883 E ± 4.1km
DEPTH = 15.4 ± 8.7 km
NEAR SOUTH COAST OF FRANCE (379)
ML 2.7 (GEN), 2.5 (LDG).

SBF	0.36	297	Pg	27 37.20	-0.1	
			Sg	27 41.80		
REVF	0.38	276	Pg	27 38.30	0.8	
			Sg	27 43.02		
AUTN	0.44	312	Pg	27 38.50	-0.2	
			Sg	27 43.83		
AURF	0.44	295	Pg	27 38.83	0.2	
			Sg	27 44.39		
TOUF	0.56	304	Pg	27 40.47	-0.2	
FIN	0.56	25	P	27 40.99	0.4	
			S	27 48.27		
MVIF	0.56	291	Pg	27 40.99	0.2	
			Sg	27 48.72		
ROB	0.59	359	P	27 41.30	0.1	
			S	27 48.58		
ENR	0.62	328	P	27 41.51	-0.2	
			S	27 48.48		
STV	0.68	324	P	27 42.53	-0.1	
			S	27 49.92		
CALN	0.72	274	Pg	27 44.17	0.7	
			Sg	27 53.69		
CKI	0.78	21	P	27 44.70	0.4	
			eSg	27 55.60		
FRF	0.91	262	Pg	27 47.10	0.6	
			Sg	27 58.40		
DOI	0.92	330	Pc	27 47.00	0.1	
			eSg	27 57.70		
PCP	0.97	29	P	27 48.58	1.0	
			S	28 00.28		
PZZ	0.98	325	P	27 47.86	0.0	
			S	27 59.14		
LMR	1.06	250	Pg	27 49.00	-0.2	
			Sg	28 02.20		
LRG	1.13	258	Pg	27 50.60	0.3	
			Sg	28 05.20		
PGF	1.41	144	Pg	27 54.51	-0.3	
RRL	1.45	327	P	27 56.58	1.2	
			S	28 12.99		
RSP	1.52	343	P	27 55.35	-0.9	
			S	28 11.35		
LPL	1.99	336	Pg	28 05.20	2.0	
S.D. = 0.7 on 22 of 22 obs.						

? MAY 13, 1990 11h 53m 36.87± 7.82s
17.883 N ±62.3km 61.770 W ±34.7km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)

CPB	0.25	192	iP	53 42.56	-1.4	
BPA	0.84	186	eP	53 50.50	-1.7	
NEV	1.07	226	eP	53 55.50	0.0	
			S	54 13.00		
SKI	1.07	240	eP	53 55.67	0.0	
			eS	54 15.41		
MGH	1.23	200	eP	53 58.00	0.1	
			S	54 18.00		
PAG	1.84	177	eP	54 08.50	1.7	
S.D. = 1.6 on 6 of 6 obs.						

% MAY 13, 1990 12h 07m 30.14± 2.73s
61.815 N ±13.7km 4.590 E ±25.2km
DEPTH = 5.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.5 (BER).

SUE	0.77	174	eP	07 45.50	0.1	
			eS	07 59.00		
HYA	1.01	130	eP	07 49.80	0.2	
			eS	08 06.80		
ASK	1.37	167	eP	07 56.20	0.4	
			eS	08 15.60		
MOL	1.58	60	eP	07 58.84	0.0	
			eS	08 20.54		
BLS1	2.67	155	eP	08 14.00	-0.7	
NRA0	3.53	105	Pn	08 31.20	4.5X	
			Sn	09 11.80		
S.D. = 0.6 on 5 of 6 obs.						

% MAY 13, 1990 13h 07m 08.47± 3.45s
33.225 S ± 9.8km 71.122 W ±10.3km
DEPTH = 73.3 ± 35.2 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.27	20	iP	07 20.00	-0.3	
			iS	07 27.90		
PEL	0.38	78	iPc	07 21.00	0.2	
			iS	07 29.50		
SAN	0.45	121	iPc	07 21.60	0.3	
			iS	07 30.20		
LCCH	0.45	236	iPd	07 21.50	0.2	
			iS	07 30.00		
TACH	0.45	160	iPc	07 21.00	-0.4	
			iS	07 30.00		
PCH	0.64	128	iPc	07 23.50	0.2	
			iS	07 33.80		
JACH	0.70	40	iPc	07 24.00	0.1	
			iS	07 35.40		
FCH	0.70	99	iPc	07 24.00	-0.2	
			iS	07 36.30		
LNV	0.77	198	iPd	07 24.50	0.0	
			iS	07 36.00		
S.D. = 0.3 on 9 of 9 obs.						

? MAY 13, 1990 13h 11m 06.56± 3.18s
17.664 N ±24.8km 61.658 W ±19.9km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.4 (FDF).

CPB	0.16	261	iP	11 12.11	-0.7	
			eS	11 21.22		
BPA	0.64	197	eP	11 17.93	-1.3	
			S	11 30.50		
NEV	1.02	239	eP	11 25.04	0.5	
			S	11 39.80		
MGH	1.08	210	eP	11 25.50	0.1	
			S	11 40.90		
SKI	1.08	252	eP	11 26.10	0.6	
			eS	11 43.80		
SEG	1.26	173	eP	11 28.20	0.2	
			S	11 46.20		
PAG	1.63	181	eP	11 33.10	-0.2	
			S	11 57.20		
MGG	1.77	169	eP	11 36.10	0.8	
S.D. = 0.8 on 8 of 8 obs.						

MAY 13, 1990 14h 07m 11.19± 0.33s
34.876 N ± 4.5km 26.441 E ± 3.5km
DEPTH = 33.4km (2 depth phases)
4.3mb (27 obs.) 3.6Msz (1 obs.)
CRETE (370)
MD 4.6 (ATH).

VAM	1.91	287	ePn	07 46.30	4.3X	
APE	2.31	342	iPnd	07 47.60	-0.1	
YER	2.70	33	iPn	07 53.60	0.3	
SMG	2.85	6	ePn	07 54.80	-0.4	
KSL	2.85	63	iPnc	07 56.50	1.2	
ELL	3.38	55	iP	08 05.00	2.0	
VLI	3.39	304	iPnd	08 04.00	0.9	
IZM	3.58	10	iP	08 05.70	0.0	
ATH	3.79	325	ePn	08 10.90	2.2	
BCK	4.23	51	eP	08 16.50	1.5	
KHL	4.24	35	eP	08 15.10	-0.1	
ITM	4.32	303	ePn	08 19.00	2.7X	
PPCY	4.85	88	eP	08 23.00	-0.8	
EZN	4.94	359	iP	08 24.60	-0.4	
NEO	5.12	331	ePn	08 28.00	0.5	
AGG	5.29	323	ePn	08 32.40	2.5	
PAIG	5.50	337	ePn	08 33.00	0.1	
			eSn	09 02.00		
EDC	5.58	11	iP	08 33.70	-0.3	
KGT	5.61	7	iP	08 34.20	-0.2	
CSS	5.66	87	ePn	08 33.80	-1.4	
			eSn	09 38.70		
VLS	5.75	307	ePn	08 38.60	2.2	
LFK	5.83	84	iPn	08 37.10	-0.5	
YLV	6.14	21	iP	08 42.70	0.7	
FAM	6.21	87	eP	08 43.50	0.5	
RDO	6.30	354	ePn	08 42.60	-1.6	
THE	6.37	335	ePn	08 46.40	1.2	
SOH	6.42	339	ePn	08 46.50	0.6	
HRT	6.46	22	iP	08 47.20	0.7	
HLW	6.50	139	ePn	08 47.50	0.6	
			eSn	09 57.00		
ISK	6.52	18	eP	08 46.70	-0.5	
ITU	6.54	17	eP	08 47.00	-0.6	
SRS	6.62	341	ePn	08 48.90	0.2	
KOT	6.71	136	ePn	08 51.00	1.0	
GRG	6.86	333	ePn	08 53.00	1.0	
DMK	7.01	8	iP	08 53.20	-0.9	
BBTK	7.06	44	iPd	08 55.00	0.0	
VAY	7.12	336	iP	08 58.00	2.3	
FNA	7.13	327	ePn	08 57.60	1.7	
KEK	7.16	314	ePn	08 55.50	-0.8	
OHR	7.65	326	iP	09 04.00	0.8	
	1.1s	71.00nm		5.6mb X		
			i	09 24.80		
			i	09 30.40		
			iS	10 53.50		
HRI	7.88	99	eP	09 04.00	-2.4	
			eS	10 31.00		
SKO	8.10	333	eP	09 10.00	0.6	
	1.1s	71.00nm		5.7mb X		
			i	09 24.80		
			i	09 30.40		
			iS	10 53.50		
DSI	8.18	111	eP	09 09.00	-1.5	
SALJ	8.24	108	Pc	09 08.90	-2.5	
BURJ	8.24	106	Pc	09 08.90	-2.6	
LISJ	8.41	113	Pc	09 12.00	-1.6	
LCI	8.66	311	P	09 14.20	-2.9X	
			eSn	10 39.90		
MBH	8.77	123	eP	09 19.00	0.4	
HOL	9.19	125	eP	09 23.30	-1.2	
TDS	9.36	304	P	09 24.10	-2.7	
			eSn	11 00.40		
BRT	9.44	312	P	09 26.40	-1.5	
			eSn	11 03.50		
ORI	9.48	306	P	09 26.60	-1.9	
			eSn	11 04.20		
MEU	9.59	287	P	09 29.80	-0.3	
			eSn	11 08.50		
BADA	9.65	129	ePc	09 30.20	-0.6	
AYN	10.09	124	ePc	09 36.00	-0.8	
MGR	10.12	304	Pd	09 34.70	-2.5	
CMP	10.44	355	ePc	09 47.00	5.4X	
SGO	10.48	306	Pd	09 40.80	-1.4	
BZS	11.34	343	eP	09 52.50	-1.3	

13d 14h

MSL	13.68	79	eP	10 34.00	8.9X
SRO	14.28	337	eP	10 37.00	4.1X
			e	10 57.70	
PGD	14.49	313	P	10 35.40	-0.4
BHD	14.96	91	ePd	10 47.00	5.1X
SPC	15.02	344	eP	10 47.50	4.8X
SLY	15.59	82	eP	10 53.00	2.9X
PGF	15.61	305	eP	10 53.60	3.3X
	0.8s	8.05nm		4.0mb	
KRA	15.90	345	eP	11 01.70	7.8X
SOTA	16.82	322	eP	11 08.00	2.3
			i	11 11.80	
			e	14 14.00	
			i	14 54.70	
KHC	17.12	330	P	11 11.50	2.1
	1.2s	10.00nm		3.8mb	
SBF	17.19	307	eP	11 11.60	1.3
	0.8s	20.15nm		4.3mb	
VAI	17.33	315	P	11 12.10	0.1
PRU	17.44	334	eP	11 12.30	-1.0
			e	11 21.50	
KSP	17.58	338	eP	11 15.70	0.6
			ec	11 21.30	
LPG	18.36	311	eP	11 24.80	-0.3
	0.8s	13.45nm		4.2mb	
LPL	18.38	311	eP	11 24.70	-0.6
	0.8s	9.40nm		4.0mb	
BRG	18.38	334	e(P)	11 24.00	-1.0
GRF	18.55	328	eP	11 26.00	-1.0
Z	22s	0.20um			
MJMA	18.56	114	eP	11 29.30	1.9
CLL	19.08	334	e(P)	11 40.00	6.6X
MOX	19.10	330	eP	11 36.00	2.4
SMF	20.69	311	eP	11 48.60	-2.2
	0.6s	9.00nm		4.3mb	
LBF	20.76	312	eP	11 49.60	-2.0
	1.0s	16.00nm		4.4mb	
LOR	20.96	313	eP	11 51.60	-2.0
	0.6s	8.10nm		4.3mb	
AVF	21.05	311	eP	11 53.00	-1.5
	0.8s	9.40nm		4.2mb	
SSF	21.08	312	eP	11 53.10	-1.7
	0.8s	16.80nm		4.5mb	
BGF	21.27	310	eP	11 56.10	-0.6
	0.8s	10.75nm		4.3mb	
TCF	21.56	309	eP	11 59.80	0.1
	1.0s	7.00nm		4.0mb	
MEM	21.63	323	P	11 59.50	-0.7
RJF	21.65	306	eP	11 59.60	-0.9
	1.0s	16.00nm		4.4mb	
ENN	21.77	323	eP	12 02.00	0.4
	0.8s	28.00nm		4.7mb	
			e	12 15.00	55kmX
LSF	21.98	309	eP	12 02.40	-1.5
	1.0s	8.00nm		4.1mb	
DOU	22.04	320	P	12 03.00	-1.4
	0.6s	7.30nm		4.3mb	
			e	12 10.50	27kmX
			Lg	19 07.00	
			LR	06 11.00	
MFF	23.19	308	eP	12 15.40	-0.3
	0.8s	6.70nm		4.2mb	
LDF	23.95	313	eP	12 22.50	-0.6
	0.8s	5.35nm		4.1mb	
FLN	24.24	313	eP	12 24.60	-1.3
	0.8s	10.75nm		4.4mb	
LPF	24.28	311	eP	12 26.00	-0.3
	0.8s	9.40nm		4.4mb	
GRR	24.31	312	eP	12 25.80	-0.8
	0.8s	13.45nm		4.5mb	
TOL	24.67	291	eP	12 38.00	7.8X
ATEJ	24.71	284	eP	12 34.50	3.8X
ALOJ	24.77	284	eP	12 35.50	4.2X
UPP	25.65	350	eP	12 37.00	-2.2
NUR	25.67	358	eP	12 42.00	2.6
			e	12 50.00	28km
HFS	26.60	346	eP	12 44.20	-3.8X
	0.4s	1.30nm		3.9mb	
Z	18s	0.16um		3.6Msz	
			LR	22 46.00	
MAIO	26.85	77	eP	13 01.00	10.4X
NB2	27.95	344	P	12 57.60	-2.7
	0.7s	1.40nm		3.8mb	
BCAO	31.16	195	ePd	13 32.20	2.9X
	0.4s	3.00nm		4.5mb	
ILKO	38.62	237	P	14 35.06	1.8
TIC	40.35	233	P	14 49.38	1.9
KIC	40.38	233	P	14 49.74	2.0
LIC	40.67	233	P	14 52.42	2.3
HYB	49.35	97	eP	16 02.00	2.5
DMN	50.07	81	P	16 06.90	1.7
PKI	50.33	81	P	16 08.80	1.5
GBA	50.49	102	Pd	16 09.60	1.4
	1.2s	9.70nm		4.7mb	
GUN	50.58	81	P	16 09.80	0.6
FRB	61.44	330	eP	17 27.00	0.8
CHTO	65.38	84	eP	17 52.40	-0.4
			pP	18 03.90	38km
BJI	68.43	56	eP	18 16.50	4.7X
INK	76.04	352	eP	19 03.00	6.6X
YKA	78.04	343	eP	19 06.60	-1.0
	0.9s	2.90nm		4.3mb	
FFC	80.37	333	eP	19 21.00	0.6
	0.8s	7.00nm		4.7mb	
FBA	80.45	358	e(P)	19 21.40	0.8
MAT	84.73	49	eP	19 45.00	1.8
SES	87.16	334	eP	19 57.00	2.0
	S.D. = 1.4	on 104 of 124 obs.			

% MAY 13, 1990 14h 14m 10.00± 0.81s
36.498 N ± 6.2km 5.707 W ± 7.8km
DEPTH = 5.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.5 (MDD).

MOMI	0.18	184	iP	14 14.00	0.4
EJIF	0.20	104	iP	14 12.50	-1.6
			eS	14 15.00	
CNIL	0.31	245	iP	14 14.00	-2.2
PLAT	0.38	186	iP	14 20.50	2.9X
GIBL	0.38	329	iP	14 19.00	1.3
OJEN	0.42	161	iP	14 20.50	2.0
EPRU	0.60	39	eP	14 21.80	-0.3
			eS	14 30.50	
EVAL	1.37	323	eP	14 36.20	0.5
			eS	14 55.00	
EHOR	1.37	15	eP	14 35.50	-0.2
			eS	14 54.20	
	S.D. = 1.6	on 8 of 9 obs.			

MAY 13, 1990 14h 39m 59.80± 0.29s
44.676 N ± 5.5km 78.905 E ± 5.1km
DEPTH = 25.5km (8 depth phases)
4.6mb (25 obs.) 4.1Msz (2 obs.)
EASTERN KAZAKH SSR (329)
Felt (V) ot Kugoly ond Tekeli;
(IV) ot Ponfilov ond
Toldy-Kurgon; (III) ot Almo-Ata.

KSH	5.65	204	ePn	41 29.00	4.5X
			Sn	42 35.00	
WMQ	6.37	95	iPnc	41 34.00	-0.5
			Sn	42 44.80	
NDI	16.02	185	eP	43 43.00	-1.9
			eS	48 44.00	
GTA	16.39	101	Pc	43 48.30	-1.4
Z	14s	1.17um			
E	10s	0.72um			
MAIO	16.94	247	eP	43 56.00	-0.7
			eS	47 19.00	
QUE	17.27	217	eP	44 03.70	2.8
GUN	17.64	159	P	44 04.40	-1.3
DMN	17.74	162	P	44 06.00	-0.9
	1.0s	52.00nm		4.6mb	
LSA	17.82	143	eP	44 09.80	1.8
PKI	17.85	161	P	44 07.40	-0.9
	0.8s	43.00nm		4.6mb	
SHL	21.77	147	iP	44 51.20	-0.4
BTO	23.17	89	eP	45 06.50	1.2
N	11s	0.30um			
			pP	45 12.00	20km
HHC	24.19	88	P	45 15.60	0.5
XAN	25.39	104	P	45 28.00	1.4
TIY	26.04	94	Pc	45 33.60	0.9
Z	18s	1.20um			4.5Msz
N	12s	0.50um			
HYB	27.18	181	eP	45 43.00	-0.2
BJI	27.76	86	eP	45 48.50	0.2
Z	14s	0.35um			4.1MszX
CHG	30.74	141	eP	46 15.20	0.1
CHTO	30.74	141	eP	46 15.70	0.6
			pP	46 24.30	30km
GBA	30.99	183	Pc	46 17.10	-0.2
	0.9s	8.10nm		4.6mb	
CN2	33.01	75	eP	46 33.50	-1.2
NST	34.03	141	eP	46 45.50	1.7
SUF	34.83	320	iP	46 49.50	-0.8
	0.4s	7.10nm		4.9mb	
NUR	35.40	316	iP	46 54.40	-0.7
	0.5s	9.80nm		5.0mb	
			i	47 03.00	29km
SOD	35.41	328	iP	46 56.00	0.9
			i	47 02.40	22km
KEV	35.89	332	eP	46 58.00	-1.2
			e	47 04.00	20km
MLR	36.84	291	eP	47 09.00	1.4
UPP	38.93	315	iP	47 25.00	0.3
KRA	39.39	300	eP	47 34.70	5.9X
			e	47 43.80	31km
VAY	40.64	286	eP	47 39.40	0.2
HFS	40.86	316	eP	47 39.40	-1.3
	0.6s	4.90nm		4.4mb	
Z	14s	0.20um		4.1MszX	
			LR	02 11.00	
KSP	41.41	302	eP	47 45.50	0.1
NB2	41.93	318	P	47 48.60	-1.0
	0.8s	10.10nm		4.6mb	
PRU	42.74	301	eP	47 57.00	0.7
			e	48 06.50	32km
BRG	42.82	302	eP	48 04.80	7.8X
			e	49 55.30	653kmX
CLL	43.25	303	eP	48 05.00	4.6X
	0.8s	9.00nm		4.6mb	
KHC	43.62	300	eP	48 08.50	5.0X
MOX	44.30	303	e(P)	48 15.00	6.1X
GRF	44.87	302	eP	48 16.00	2.5
Z	22s	0.10um		3.7Msz	
SOTA	45.79	298	iPd	48 20.90	-0.1
			i	48 27.30	21km
			i	48 29.10	
			e	50 27.00	
BSF	48.29	301	eP	48 44.00	3.4X
	0.6s	3.60nm		4.6mb	
HAU	48.49	301	eP	48 46.20	4.1X
	0.6s	3.60nm		4.6mb	
LPG	49.32	298	eP	48 48.90	0.1
	0.8s	12.10nm		5.0mb	
LPL	49.32	298	eP	48 49.00	0.2
	0.8s	12.10nm		5.0mb	
BNI	49.56	298	P	48 50.40	-0.1
LOR	50.32	301	eP	48 59.90	3.7X
	0.6s	3.60nm		4.5mb	
SMF	50.61	301	eP	49 02.20	3.8X
	0.8s	5.35nm		4.6mb	
SSF	50.63	301	eP	49 02.00	3.5X
	0.6s	1.80nm		4.2mb	
AVF	50.85	301	eP	49 03.80	3.7X
	0.8s	4.05nm		4.4mb	
MAF	51.59	301	eP	49 09.80	4.0X
	1.0s	10.00nm		4.7mb	
TCF	51.78	301	eP	49 11.50	4.2X
	0.6s	3.60nm		4.5mb	
LSF	52.21	301	eP	49 14.90	4.4X
	0.6s	2.70nm		4.4mb	
MFF	53.06	302	eP	49 21.40	4.6X
	0.6s	3.60nm		4.5mb	
LPO	53.18	299	eP	49 21.40	3.7X
	0.8s	8.05nm		4.7mb	
MBC	58.79	5	eP	49 52.50	-5.1X
	0.6s	6.00nm		4.9mb	
INK	64.75	13	eP	50 37.00	-0.6
FBA	64.85	20	e(P)	50 39.80	1.5
BCAO	66.08	251	iPc	50 45.40	-1.5
	0.3s	10.00nm		5.4mb	
YKA	72.63	7	eP	51 24.70	-1.7
	0.7s	1.70nm		4.2mb	
FFC	80.97	1	eP	52 13.00	-0.1
	0.8s	7.00nm		4.7mb	
LRM	89.33	8	eP	53 00.30	4.9X
	S.D. = 1.2	on 42 of 61 obs.			

& MAY 13, 1990 15h 22m 24.30s
40.382 N 125.402 W
DEPTH = 16.0km
OFF COAST OF NORTHERN CALIFORNIA(34)
<BRK>. ML 3.4 (BRK).

FHC	1.16	68	iPc	22 43.70	-1.8
			eS	22 57.50	
WDC	2.19	84	eP	22 58.30	-2.3
MIN	2.90	90	ePc	23 08.20	-2.6

ORV	3.11	104	eP	23 10.80	-2.8
			eS	23 42.20	
PCC	3.72	140	eP	23 20.50	-1.8
ARN	4.28	134	eP	23 28.00	-2.2
SAO	4.76	138	eP	23 34.10	-3.0
KVN	5.79	101	eP	23 49.00	-2.7

8 obs. associated

---

* MAY 13, 1990 15h 34m 50.91± 0.79s
31.806 N ±10.0km 87.896 E ±11.1km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)
TIBET (306)

LSA	3.50	126	iPg	35 42.80	-2.0
			Sn	36 26.20	
GUN	4.26	205	P	35 56.00	0.6
PKI	4.74	208	P	36 02.80	0.5
DMN	4.84	211	P	36 04.60	1.1
SHL	7.13	150	eP	36 31.00	-4.8X
NDI	9.75	254	eP	37 17.00	5.1X
			eS	39 09.00	
CHG	16.33	140	eP	38 39.90	0.6
CHTO	16.33	140	eP	38 38.80	-0.5
			e	38 44.50	
HYB	16.64	213	eP	38 46.50	3.2X
	1.0s		35.00nm	4.4mb	
GBA	20.50	210	Pd	39 27.80	-1.0
	0.6s		5.60nm	4.1mb	
TIY	20.98	67	eP	39 36.40	2.7
BJI	24.26	62	eP	40 11.00	5.1X
CN2	31.73	57	Pc	41 19.40	5.5X
SUF	49.37	328	eP	43 30.00	-8.8X
NUR	49.80	325	iP	43 40.00	-2.2
UPP	53.28	324	iP	44 10.20	1.8
HFS	55.24	324	eP	44 21.90	-0.9
	0.4s		1.10nm	4.2mb	
NB2	56.38	325	P	44 37.60	6.5X
	0.8s		2.50nm	4.3mb	
YKA	84.30	10	eP	47 23.70	3.3X
	0.7s		3.20nm	4.6mb	
ZOBO	153.28	300	PKP	54 39.80	-0.6

S.D. = 1.6 on 12 of 20 obs.

MAY 13, 1990 16h 40m 27.47± 1.00s
8.815 S ± 5.2km 118.571 E ± 7.0km
DEPTH = 153.7 ± 11.2 km
5.0mb (18 obs.)
SUMBAWA ISLAND REGION (285)

MKS	3.68	14	iPc	41 26.50	2.2
TRT	5.98	280	iPc	41 53.70	-1.1
			eS	43 04.60	
AAI	10.84	63	eP	43 00.00	0.5
KNA	12.11	126	eP	43 14.10	-2.0
			eS	45 20.00	
MBL	12.33	174	eP	43 17.20	-1.8
	0.3s		16.00nm	5.1mb	
			eS	45 25.00	
MTN	12.97	109	iPd	43 24.70	-2.6
			eS	45 37.00	
NANU	13.98	192	eP	43 40.40	0.3
	0.2s		16.00nm	5.0mb	
			e	43 44.00	
			eS	46 03.00	
KKM	14.95	351	eP	43 55.50	3.1X
	0.8s		55.20nm	4.9mb	
WARB	18.90	157	eP	44 39.00	0.2
	0.4s		10.00nm	4.5mb	
			eS	48 07.00	
MRWA	20.44	186	eP	44 55.00	0.5
			eS	48 32.00	
BAL	21.75	184	eP	45 06.00	-1.5
			e	45 22.00	
			eS	49 04.00	
IPM	21.98	307	ePd	45 12.00	2.1
COOL	22.09	174	iPc	45 11.60	0.8
	0.4s		14.00nm	4.8mb	
			eS	49 13.00	
KLB	22.68	182	eP	45 18.00	1.5
			e	45 37.00	
			eS	49 24.00	
PSP	22.68	299	ePc	45 17.40	0.8
	1.0s		108.70nm	5.2mb	
MUN	23.15	185	eP	45 22.00	0.9
			e	45 40.00	
			eS	49 36.00	
QIS	23.42	122	iPd	45 24.40	0.5
	0.5s		39.00nm	5.1mb	
			eS	49 45.00	
FORR	23.66	159	eP	45 26.60	0.6
NWAO	24.03	183	eP	45 31.30	1.8
			eS	49 56.00	
PMG	28.23	93	eP	46 07.50	-0.6
QIZ	28.97	343	Pd	46 15.70	0.9
NST	30.42	323	eP	46 28.80	1.3
RMO	33.57	125	eP	46 56.00	1.1
CHG	33.59	325	ePc	46 55.60	0.5
	1.0s		14.00nm	4.6mb	
GYA	36.92	342	P	47 24.40	1.1
KMI	37.09	336	Pc	47 27.00	2.1
	1.5s		100.00nm	5.3mb	
			pP	47 44.50	71kmX
BRS	37.21	124	iPc	47 27.30	1.6
	0.7s		19.50nm	4.9mb	
BWA	37.41	137	eP	47 31.00	3.7X
COO	37.88	130	iPc	47 34.30	3.0X
CAN	38.32	138	eP	47 36.70	1.8
WHN	39.34	354	P	47 45.00	1.8
	1.0s		100.00nm	5.5mb	
SSE	39.76	4	P	47 47.80	1.1
	1.0s		10.00nm	4.5mb	
NJ2	40.64	0	Pc	47 55.50	1.7
HNR	40.84	94	eP	47 55.00	-0.9
CO2	41.98	341	iPc	48 05.40	0.4
XAN	43.59	348	P	48 18.00	0.0
LSA	46.51	326	P	48 41.80	0.1
GBA	46.51	298	Pc	48 38.70	-2.7
	0.9s		12.10nm	4.5mb	
TIY	46.64	353	eP	48 41.40	-0.8
HYB	47.36	303	eP	48 46.00	-2.1
DZM	47.79	112	iPc	48 52.10	0.6
GUN	48.30	320	P	48 54.80	-0.8
PKI	48.37	319	P	48 54.60	-1.5
	0.6s		23.00nm	5.1mb	
DMN	48.59	319	P	48 56.70	-1.0
	0.8s		57.00nm	5.3mb	
BJI	48.66	358	eP	48 58.00	0.4
	1.0s		24.00nm	4.9mb	
MAT	48.75	21	eP	48 56.00	-2.5
	1.2s		14.06nm	4.5mb	
BTO	49.80	351	eP	49 06.40	-0.1
HHC	49.84	353	P	49 06.00	-0.8
SNY	50.60	5	eP	49 09.80	-2.6
GTA	51.04	341	iPc	49 16.60	0.5
	1.0s		50.00nm	5.2mb	
CN2	52.74	6	eP	49 27.40	-1.0
MDJ	54.11	10	eP	49 37.90	-0.6
WMQ	59.40	334	P	50 15.50	-0.5
KSH	62.16	324	eP	50 35.50	0.8
QUE	62.93	310	eP	50 38.20	-1.9
MAIO	71.30	313	iPd	51 32.00	-0.4
SLR	86.49	245	iPc	52 51.00	-3.7X
BUL	86.97	250	iPc	52 53.00	-4.1X
YKA	114.20	24	ePKP	58 49.20	-0.6
	0.4s		0.40nm		

S.D. = 1.4 on 54 of 59 obs.

---

* MAY 13, 1990 16h 50m 56.11± 0.72s
8.331 S ± 9.3km 117.630 E ±10.3km
DEPTH = 33.0km (normal)
4.7mb (1 obs.)
SUMBAWA ISLAND REGION (285)

TRT	4.99	277	iPd	52 09.70	-1.0
			eS	53 29.50	
MBL	12.93	171	eP	53 59.00	-1.3
	0.3s		8.00nm	5.3mb X	
			eS	56 14.00	
MTN	14.01	110	eP	54 13.00	-1.5
			eS	56 42.00	
NANU	14.29	188	eP	54 17.80	-0.4
	0.3s		7.00nm	4.7mb	
			eS	56 46.00	
WARB	19.71	155	eP	55 27.00	1.0
WB5	19.86	127	eP	55 25.90	-1.6
MRWA	20.83	184	eP	55 39.00	1.5
			eS	59 21.00	
BAL	22.18	182	eP	55 51.00	-0.1
			e	56 05.00	
COOL	22.68	172	eP	55 57.00	1.0
KLB	23.14	180	eP	55 59.00	-1.5
			e	56 19.00	
			eS	00 18.00	
MUN	23.57	183	eP	56 04.00	-0.6
			e	56 23.00	
			eS	00 25.00	
FORR	24.45	158	eP	56 14.00	0.9
NWAO	24.48	181	eP	56 14.50	1.0
			eS	00 47.00	
CHTO	32.67	326	e(P)	57 28.00	0.4
BRS	38.25	124	iPc	58 17.20	2.1
BWA	38.40	137	eP	58 19.80	3.5X
BJI	48.14	359	eP	59 35.00	0.0

S.D. = 1.3 on 16 of 17 obs.

? MAY 13, 1990 17h 04m 49.93± 1.50s
61.177 N ±17.5km 4.945 E ±14.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.0 (BER).

SUE	0.15	217	eP	04 53.50	0.1
			eS	04 57.00	
HYA	0.60	91	eP	05 03.20	1.1
			eS	05 13.80	
MOL	1.86	40	iP	05 22.14	0.0
			iS	05 46.35	
NRA0	3.25	95	Pn	05 40.60	-1.3
			Sn	06 18.20	
			Lg	06 35.50	

S.D. = 1.7 on 4 of 4 obs.

---

* MAY 13, 1990 17h 23m 48.44± 1.12s
40.506 N ± 9.2km 142.275 E ± 8.7km
DEPTH = 70.6 ± 9.8 km
4.7mb (18 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

AOMJ	1.45	273	iPd	24 13.10	0.0
			S	24 35.40	
OFUJ	1.50	198	P	24 13.10	-0.7
			S	24 34.30	
MAT	5.08	220	iPc	25 04.80	1.0
	0.7s		51.37nm	4.9mb X	
			eS	26 08.00	
MDJ	10.22	298	eP	26 15.50	0.9
CN2	12.91	290	eP	26 51.40	0.9
BJI	19.90	277	eP	28 14.00	-2.7
	1.2s		16.00nm	4.2mb	
NJ2	20.64	253	eP	28 23.00	-1.3
XAN	27.21	267	P	29 27.30	-0.1
GTA	32.34	282	eP	30 12.40	-0.6
GYA	32.60	256	iPd	30 15.20	-0.2
WMQ	39.98	293	P	31 18.00	0.4
CHG	42.88	253	eP	31 42.70	1.2
FBA	45.83	34	e(P)	32 05.00	0.4
GUN	47.57	273	P	32 19.00	-0.2
PKI	48.10	273	P	32 24.70	1.4
DMN	48.31	273	P	32 24.90	0.0
MBC	53.01	17	eP	32 58.50	-1.1
KEV	60.45	339	eP	33 55.00	2.6
YKA	60.48	31	eP	33 58.80	6.0X
	0.9s		0.50nm	3.6mb X	
SOD	62.04	337	iP	34 01.80	-1.4
GBA	62.20	264	Pd	34 04.60	-0.3
	1.0s		4.80nm	4.6mb	
DAG	62.39	355	iPd	34 03.30	-2.1
	0.6s		4.00nm	4.7mb	
SUF	65.20	333	iP	34 23.00	-0.9
	0.3s		6.00nm	5.0mb	
NUR	67.21	332	iP	34 36.00	-0.7
HFS	71.21	336	eP	35 00.00	-1.3
	0.5s		4.90nm	4.7mb	
NB2	71.25	337	P	35 00.40	-1.2
	0.8s		5.00nm	4.5mb	
KVN	72.14	54	e(P)	35 08.00	0.5
PRU	78.87	329	eP	35 45.30	0.1
KHC	79.94	329	Pd	35 51.70	0.7
CDF	82.92	332	eP	36 06.70	0.1
LOR	85.10	333	eP	36 17.50	-0.1
	0.6s		3.60nm	4.6mb	
LBF	85.31	333	eP	36 18.40	-0.2
	0.8s		4.05nm	4.5mb	
SSF	85.40	333	eP	36 19.10	0.0
	0.6s		2.25nm	4.4mb	
LPL	85.56	330	eP	36 20.60	0.4
	0.8s		5.35nm	4.7mb	
LPG	85.57	330	eP	36 20.80	0.5
	0.6s		4.50nm	4.7mb	
SMF	85.65	333	eP	36 20.40	0.1

13d 17h

	0.8s	6.70nm			4.8mb	
AVF	85.69	333	eP	36	20.80	0.3
	0.7s	8.80nm			4.9mb	
MAF	86.46	333	eP	36	25.00	0.7
	0.6s	5.40nm			4.8mb	
TCF	86.52	334	eP	36	25.00	0.4
	0.6s	2.70nm			4.5mb	
LSF	86.78	334	eP	36	26.20	0.3
MFF	87.02	335	eP	36	27.40	0.4
	0.8s	8.05nm			4.9mb	
CAF	87.76	333	eP	36	31.60	1.0
	0.6s	3.60nm			4.7mb	
LFF	88.20	334	eP	36	33.70	1.0
	0.6s	5.40nm			4.9mb	
SIV	148.26	46	PKP	43	27.80	3.0X
			i	43	44.40	
S.D. = 1.0 on 42 of 44 obs.						

& MAY 13, 1990 19h 07m 39.27s
59.574 N 152.909 W
DEPTH = 105.9km
3.4mb (1 obs.)
SOUTHERN ALASKA (2)
<AGS-P>.

AUE	0.32	228	iP	07	54.07	-0.7
AUL	0.33	235	eP	07	54.28	-0.6
			eS	08	06.18	
XLV	0.62	101	eP	07	56.04	-0.7
			iS	08	08.94	
PDB	0.69	289	eP	07	56.44	-0.9
			iS	08	09.81	
CDD	0.75	211	iP	07	57.05	-0.9
MCNL	0.83	243	eP	07	57.75	-0.9
			eS	08	11.83	
RED	0.85	5	iP	07	58.12	-0.9
CNPM	0.85	93	iP	07	58.20	-0.7
			eS	08	12.21	
NNL	0.94	59	eP	08	00.45	0.7
RDT	1.03	14	iP	07	59.97	-0.9
			iS	08	16.14	
NKA	1.44	35	eP	08	06.77	1.3
SLKM	1.64	54	eP	08	07.08	-0.9
SPU	1.67	14	iP	08	07.75	-0.6
			eS	08	29.39	
CRP	1.74	12	eP	08	09.10	-0.3
			eS	08	32.17	
SEW	1.83	72	eP	08	09.39	-0.9
			eS	08	31.22	
KDC	1.84	173	eP	08	08.87	-1.6
			eS	08	30.84	
SVW	2.05	320	eP	08	12.43	-0.8
			eS	08	36.90	
SUA	2.18	29	iP	08	14.80	-0.2
			eS	08	41.66	
PMS	2.36	43	eP	08	16.73	-0.6
			iS	08	44.04	
SKT	2.51	15	eP	08	18.50	-0.8
PWA	2.56	34	eP	08	19.63	-0.4
MTU	2.69	79	eP	08	21.05	-0.7
PLRM	2.75	41	eP	08	21.01	-1.5
			eS	08	52.99	
GHO	2.95	40	eP	08	23.78	-1.5
CUT	3.12	23	eP	08	26.76	-0.7
SML	3.18	43	eP	08	26.85	-1.5
VZW	3.49	62	eP	08	31.09	-1.6
NCA	3.85	48	eP	08	35.86	-1.6
KLU	3.95	58	eP	08	37.12	-1.8
KTH	4.10	13	eP	08	40.19	-0.8
TOA	4.16	50	eP	08	40.56	-1.2
RND	4.31	25	eP	08	42.41	-1.4
MCK	4.58	23	eP	08	46.50	-1.0
GLB	4.87	63	eP	08	49.57	-2.0
PAX	4.95	43	eP	08	51.50	-1.1
NEA	5.33	18	eP	08	55.73	-2.1
DDM	5.40	35	eP	08	58.55	-0.2
WRH	5.41	23	eP	08	56.44	-2.5
BALM	5.45	70	eP	08	58.07	-1.6
CCB	5.62	23	eP	08	59.39	-2.5
FBA	5.85	22	eP	09	02.84	-2.2
GLM	6.01	23	eP	09	04.82	-2.4
YKA	18.59	65	eP	11	48.50	-2.0
	0.4s	0.80nm			3.4mb	
43 obs. associoted						

MAY 13, 1990 19h 10m 14.03± 0.44s
40.665 N ± 4.8km 15.822 E ± 3.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)
MD 3.3 (ROM).

SGO	0.41	255	Pc	10	22.50	0.2
			eSg	10	29.60	
MGR	0.57	201	Pc	10	24.80	-0.7
			eSg	10	34.50	
ORI	0.77	141	P	10	28.90	-0.1
			eSg	10	42.10	
BSS	0.78	280	P	10	29.80	0.5
			eSg	10	41.80	
BAI	0.91	60	Pc	10	31.50	0.0
BRT	1.07	78	P	10	33.30	-0.9
			eSg	10	48.60	
TDS	1.08	158	P	10	34.90	0.6
DUI	1.43	314	P	10	40.80	0.7
LCI	1.66	101	P	10	44.30	1.0
			eSn	11	06.80	
SDI	1.84	305	Pd	10	45.60	-0.3
GRI	1.90	166	P	10	50.18	3.3X
ATN	2.52	186	Pc	10	55.40	-0.2
			eSn	11	26.40	
HVAR	2.55	10	e(Pn)	11	02.70	6.6X
MNS	2.92	307	P	11	00.60	-0.8
OHR	3.80	82	ePn	11	10.00	-3.9X
SKO	4.43	71	ePn	11	26.00	3.2X
S.D. = 0.7 on 12 of 16 obs.						

% MAY 13, 1990 20h 22m 39.95± 0.82s
44.573 N ± 6.4km 7.458 E ± 6.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

PZZ	0.26	255	P	22	46.29	0.7
			S	22	50.29	
STV	0.34	196	P	22	46.59	-0.5
			S	22	50.59	
ENR	0.35	185	P	22	46.70	-0.5
			S	22	50.90	
ROB	0.41	133	P	22	48.85	0.6
			S	22	54.59	
RSP	0.60	346	P	22	51.72	-0.4
			S	22	59.72	
FIN	0.65	124	P	22	52.95	0.0
			S	23	01.26	
S.D. = 0.7 on 6 of 6 obs.						

? MAY 13, 1990 21h 14m 37.98± 2.07s
45.099 N ± 7.2km 7.361 E ±19.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN).

RSP	0.09	306	P	14	40.55	-0.1
			S	14	42.19	
LSD	0.39	338	P	14	46.09	0.1
			S	14	51.01	
RRL	0.45	247	P	14	47.22	0.1
			S	14	53.06	
PZZ	0.62	197	P	14	50.60	0.0
			S	14	58.70	
S.D. = 0.2 on 4 of 4 obs.						

---

* MAY 13, 1990 21h 37m 05.06± 1.80s
37.995 N ±22.9km 73.368 E ± 9.0km
DEPTH = 33.0km (normol)
4.6mb (1 obs.)
TAJIK SSR (715)

OUE	9.43	216	eP	39	21.90	0.1
NDI	9.83	160	eP	39	27.00	-0.1
MAIO	11.20	266	eP	39	46.00	0.0
			eS	41	44.00	
DMN	14.29	133	P	40	28.00	0.7
PKI	14.50	132	P	40	29.60	-0.5
	0.6s	12.00nm			4.6mb	
GUN	14.53	130	P	40	30.40	-0.1
S.D. = 0.5 on 6 of 6 obs.						

? MAY 13, 1990 23h 58m 39.47± 1.47s
31.285 S ±33.7km 68.773 W ±16.1km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.20	187	iPd	58	54.00	-0.2
			S	59	05.90	
RTLL	0.26	100	iPd	58	54.30	-0.1
ZON	0.27	163	eP	58	55.00	0.5
			eS	59	05.00	
CFA	0.56	125	iPc	58	56.00	0.0
RTCV	0.61	161	ePc	58	56.20	-0.2
			S	59	09.00	
RTBS	0.69	237	ePd	58	57.00	0.0
			(S)	59	08.50	
S.D. = 0.4 on 6 of 6 obs.						

% MAY 14, 1990 00h 46m 48.07± 0.94s
39.219 N ± 7.3km 29.512 E ±10.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.49	109	ePg	46	57.00	-1.1
			eSg	47	08.80	
KHL	0.89	179	iPg	47	06.20	0.9
			eSg	47	19.20	
GPA	1.23	30	ePn	47	12.40	1.4
YLV	1.35	355	iPn	47	13.20	0.3
HRT	1.60	4	ePn	47	16.00	-0.6
EDC	1.70	312	ePn	47	17.00	-0.9
S.D. = 1.3 on 6 of 6 obs.						

MAY 14, 1990 00h 54m 58.28± 0.19s
84.826 N ± 4.2km 101.150 E ± 3.1km
DEPTH = 10.0km (geophysicist)
4.8mb (54 obs.) 4.5Msz (4 obs.)
NORTH OF SEVERNAYA ZEMLYA (651)

DAG	16.53	315	iPc	58	48.50	-2.7
	0.9s	15.97nm			4.1mb	
MBC	18.12	30	eP	59	11.00	0.0
	1.0s	41.00nm			4.5mb	
KEV	19.57	268	eP	59	26.00	-2.6
			e	59	40.00	
			e	03	16.00	
SOD	21.93	267	iP	59	52.80	-0.1
INK	25.18	45	eP	00	25.00	0.4
	1.2s	78.00nm			5.3mb	
GDH	25.68	339	eP	00	24.00	-5.2X
			e	00	30.00	
IMA	25.90	64	eP	00	32.90	1.4
	1.4s	26.20nm			4.7mb	
SUF	26.53	265	iP	00	37.50	0.3
	0.6s	7.80nm			4.6mb	
FBA	27.52	59	eP	00	48.20	2.0
TTA	28.80	68	eP	00	59.60	1.7
NUR	28.85	266	iP	00	59.00	0.8
			e	01	04.00	
NB2	29.54	279	P	01	03.80	-0.7
	0.7s	4.10nm			4.3mb	
HFS	30.21	276	eP	01	09.20	-1.2
	1.1s	12.70nm			4.7mb	
Z	16s	0.28um			4.0MszX	
			LR	10	00.00	
TOA	30.41	59	eP	01	13.90	1.6
SVW	30.63	68	eP	01	16.00	1.8
PMR	30.69	62	eP	01	15.20	0.6
	1.0s	7.50nm			4.5mb	
YKA	32.03	31	eP	01	24.30	-2.0
	0.3s	0.80nm			4.1mb	
WTS	38.88	281	eP	02	25.00	0.2
	0.7s	5.00nm			4.3mb	
CLL	39.00	275	eP	02	25.00	-0.9
	2.1s	48.00nm			4.8mb	
KSP	39.17	271	eP	02	27.50	0.2
BRG	39.35	274	eP	02	30.00	1.2
	1.5s	25.00nm			4.7mb	
		i		02	36.50	
		e		02	50.20	
		e		03	58.40	
KRA	39.62	267	eP	02	21.60	-9.4X
MOX	39.79	276	ePc	02	33.00	0.6
	1.2s	18.00nm			4.6mb	
PRU	40.17	273	eP	02	36.00	0.4
		e		04	19.00	
ENN	40.18	281	eP	02	36.00	0.4
	0.8s	11.00nm			4.6mb	
MEM	40.33	281	P	02	44.40	7.6X
SPC	40.45	267	eP	02	39.00	0.9
GRF	40.77	276	eP	02	41.50	1.0
	0.9s	17.00nm			4.8mb	
Z	21s	0.10um			3.7Msz	
		e		02	48.60	

DOU	40.96	283	P	02	43.20	1.2
			e	02	50.00	
KHC	41.11	274	P	02	44.20	0.9
	1.0s	10.00nm			4.5mb	
WMO	41.32	195	P	02	45.00	-0.1
EDM	41.35	31	eP	02	46.00	0.8
CN2	41.69	153	eP	02	48.00	0.0
ZST	41.72	270	eP	02	49.20	0.9
CDF	42.39	280	eP	02	54.60	0.7
	1.0s	18.00nm			4.8mb	
HAU	42.88	280	eP	02	58.50	0.7
	0.9s	27.85nm			5.0mb	
BSF	43.01	280	eP	02	59.10	0.1
	0.8s	8.05nm			4.5mb	
GRR	43.13	288	eP	02	59.70	-0.1
VRI	43.16	260	ePc	03	08.50	8.4X
SQTA	43.22	276	e(P)	03	00.00	-0.7
	1.2s	11.40nm			4.5mb	
			e	03	26.00	
MLR	43.60	260	eP	03	05.00	1.2
FVI	43.70	274	P	03	05.50	1.1
LOR	43.83	283	eP	03	05.40	-0.1
	1.2s	19.35nm			4.8mb	
BZS	43.87	265	eP	03	06.00	0.2
CMP	43.90	261	ePc	03	15.00	8.8X
SSF	44.07	283	eP	03	07.30	-0.1
	1.1s	15.85nm			4.8mb	
LJU	44.09	272	e(P)	03	08.00	0.4
PTJ	44.10	271	eP	03	08.50	0.7
LBF	44.10	283	eP	03	07.60	-0.2
	1.1s	23.20nm			4.9mb	
VOY	44.16	273	eP	03	09.70	1.4
SES	44.27	29	eP	03	09.00	-0.1
AVF	44.35	283	eP	03	09.60	-0.1
	1.1s	13.45nm			4.7mb	
SMF	44.45	283	eP	03	10.40	-0.2
	1.1s	11.00nm			4.6mb	
BGF	44.63	284	eP	03	12.00	0.0
	1.0s	31.00nm			5.2mb	
VAI	44.78	278	P	03	14.11	0.9
	1.2s	99.00nm			5.6mb	
MFF	44.84	286	eP	03	14.00	0.3
	1.2s	20.85nm			4.9mb	
SAL	44.88	276	P	03	14.20	0.2
TCF	44.95	284	eP	03	14.40	-0.2
	1.0s	14.00nm			4.8mb	
MAF	44.98	284	eP	03	15.00	0.1
	1.1s	13.45nm			4.8mb	
LSF	45.05	285	eP	03	15.10	-0.3
	0.8s	8.75nm			4.7mb	
BJI	45.13	164	eP	03	16.50	0.5
	1.1s	14.00nm			4.8mb	
Z	20s	0.30um			4.2Msz	
		eS		10	00.00	
		eSS		13	12.00	
LPL	45.31	280	eP	03	18.40	0.7
	1.2s	13.40nm			4.8mb	
LPG	45.33	280	eP	03	18.80	0.8
	1.1s	15.85nm			4.9mb	
GTA	45.57	181	eP	03	20.00	0.3
RJF	45.99	285	eP	03	22.60	-0.2
	0.7s	9.90nm			4.9mb	
NEW	46.11	35	P	03	24.20	0.4
	1.3s	41.27nm			5.3mb	
CKI	46.26	278	P	03	25.21	0.3
	0.9s	45.50nm			5.5mb	
MME	46.27	275	P	03	29.30	4.0X
CAF	46.31	284	eP	03	25.30	-0.1
PGD	46.49	274	P	03	28.20	1.2
LPO	46.63	285	eP	03	28.30	0.4
	0.7s	8.80nm			4.9mb	
SBF	46.89	279	eP	03	29.50	-0.5
	0.8s	12.10nm			5.0mb	
LON	47.36	40	P	03	34.20	0.5
SKO	47.50	264	eP	03	34.00	-0.7
AQU	47.85	272	P	03	32.20	-5.4X
MNS	47.88	273	P	03	37.50	-0.3
	0.4s	11.80nm			5.3mb	
VAY	48.04	263	eP	03	38.60	-0.4
PGF	48.05	277	eP	03	39.00	-0.2
	0.8s	10.75nm			5.0mb	
EPF	48.35	285	eP	03	40.70	-0.7
	1.2s	14.90nm			4.9mb	
OHR	48.41	265	eP	03	41.00	-0.9
SDI	48.45	272	P	03	43.11	0.9
	0.1s	3.50nm			5.4mb	
RDP	48.50	273	P	03	41.20	-1.4
BBTK	48.61	253	eP	03	45.00	1.5
			e	03	52.00	
LRM	48.78	31	eP	03	45.00	0.1
RFI	48.84	272	P	03	47.81	2.7X
	1.5s	106.40nm			5.7mb	
LZH	48.89	177	eP	03	41.70	-4.1X
TIA	48.98	163	P	03	46.40	0.1
MAIO	50.08	224	eP	03	55.00	0.2
			eS	11	12.00	
IMW	50.77	30	P	04	01.40	1.2
RSSD	50.82	23	P	04	00.10	-0.5
XAN	50.98	172	P	04	01.50	-0.1
GRI	51.08	269	P	04	02.35	0.0
	0.8s	11.70nm			4.9mb	
BW06	51.94	29	P	04	08.30	-0.8
CD2	54.06	177	eP	04	24.60	0.0
DAU	54.23	30	P	04	25.80	-0.4
DUG	54.37	32	P	04	27.00	0.0
GLD	55.14	25	P	04	32.50	-0.2
	1.3s	31.61nm			5.2mb	
GOL	55.19	25	P	04	32.40	-0.8
	1.2s	22.54nm			5.1mb	
KVN	55.24	37	P	04	32.20	-1.3
MSU	56.08	31	P	04	39.50	-0.1
TNP	56.25	36	P	04	40.50	-0.3
	1.1s	7.41nm			4.6mb	
GUN	57.23	196	P	04	46.80	-1.3
	0.8s	35.00nm			5.4mb	
DMN	57.55	197	P	04	48.90	-1.3
PKI	57.58	197	P	04	50.20	-0.3
PRNI	57.84	249	eP	04	52.00	0.1
MBH	58.42	249	e(P)	04	52.00	-3.9X
CLC	58.49	37	eP	04	56.00	-0.4
			e	05	04.00	
GYA	58.51	174	iPc	04	56.80	0.1
			pP	05	03.80	23kmX
GSC	59.05	36	eP	05	03.00	2.6X
TUL	59.27	16	eP	05	00.00	-1.8
	1.0s	13.30nm			5.0mb	
Z	18s	0.88um			4.9Msz	
		LR		23	00.00	
KMI	59.82	178	Pd	05	04.00	-1.9
			pP	05	12.50	28kmX
ALQ	59.89	26	ePd	05	05.00	-1.3
	1.1s	20.25nm			5.2mb	
Z	18s	0.52um			4.7Msz	
MWC	60.05	37	eP	05	05.00	-2.4
UYO	61.04	15	iPd	05	12.70	-1.2
QIZ	65.94	171	P	05	46.70	0.5
CHG	66.10	182	eP	05	46.00	-1.2
CHTO	66.10	182	P	05	46.00	-1.2
			pP	05	52.10	20kmX
GBA	71.73	204	Pc	06	20.10	-1.9
	0.8s	8.00nm			4.9mb	
LKO	82.05	288	P	07	18.72	-0.9
	1.1s	41.00nm			5.4mb	
BCAO	84.95	263	iPc	07	35.00	0.6
	0.5s	13.00nm			5.4mb	
KIC	85.13	286	(P)	07	37.40	2.1
	S.D. = 1.0	on 110 of 121 obs.				

---

* MAY 14, 1990 02h 06m 25.74± 0.73s
48.524 N ±19.5km 153.018 E ± 8.7km
DEPTH = 33.0km (normol)
4.3mb (13 obs.)
KURIL ISLANDS (221)

IMA	32.43	38	P	12	55.30	0.8
	0.7s	3.27nm			4.3mb	
KDC	33.11	53	P	13	00.20	-0.1
FBA	34.83	40	P	13	16.50	1.4
	0.5s	8.26nm			4.9mb	
YKA	49.55	38	eP	15	15.10	0.3
	0.5s	1.20nm			4.2mb	
CHG	52.49	255	eP	15	39.00	1.3
PNT	54.21	54	eP	15	50.00	-0.1
	0.5s	2.00nm			4.4mb	
LRM	60.18	53	eP	16	32.70	0.0
KVN	61.39	62	P	16	40.50	-0.5
TNP	62.55	63	P	16	48.50	-0.2
	0.7s	2.41nm			4.4mb	
BW06	63.75	54	P	16	56.30	-0.4
	0.8s	1.79nm			4.2mb	
RSSD	65.73	50	P	17	08.70	-0.7
GLA	67.39	65	P	17	20.50	0.6
GBA	70.39	268	Pc	17	37.90	-0.6
	0.6s	3.10nm			4.5mb	
ALQ	70.96	59	eP	17	41.60	-0.4
	0.8s	1.49nm			4.1mb	
LBF	81.13	339	eP	18	38.30	-0.6
SSF	81.17	339	eP	18	39.50	0.4
SMF	81.48	339	eP	18	40.60	-0.1
	0.9s	6.55nm			4.6mb	
BGF	81.80	340	eP	18	40.60	-1.7
	0.6s	2.25nm			4.4mb	
LPL	81.82	337	eP	18	43.00	0.3
	0.5s	1.45nm			4.3mb	
LPG	81.83	337	eP	18	43.50	0.6
	0.6s	2.25nm			4.4mb	
MAF	82.18	340	eP	18	44.20	-0.2
	0.5s	1.45nm			4.3mb	
	S.D. = 0.8	on 21 of 21 obs.				

% MAY 14, 1990 02h 11m 18.99± 1.00s
37.063 N ±11.9km 28.985 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.57	277	ePg	11	29.90	-0.6
ELL	0.80	113	ePg	11	34.70	0.0
			eSg	11	47.70	
CIN	0.89	307	ePg	11	37.00	0.9
			iSg	11	51.00	
KHL	1.33	19	ePn	11	43.00	-0.6
BCK	1.34	72	iPn	11	44.00	0.3
	S.D. = 0.9	on 5 of 5 obs.				

? MAY 14, 1990 03h 31m 55.03± 3.11s
31.156 S ±51.8km 69.329 W ±25.1km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.52	192	ePd	32	13.20	-0.1
RTCB	0.56	126	iPd	32	13.50	-0.2
			S	32	26.90	
ZON	0.68	125	iPd	32	15.50	1.0
			eS	32	31.00	
RTLL	0.76	103	iPc	32	14.80	-0.4
			eS	32	28.40	
RTCV	0.98	136	ePc	32	16.80	-0.4
CFA	1.03	116	iPc	32	17.80	0.0
			S	32	32.10	
	S.D. = 0.6	on 6 of 6 obs.				

? MAY 14, 1990 04h 03m 07.01± 6.43s
32.841 S ±71.4km 70.947 W ±22.9km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

TACH	0.81	179	iPd	03	25.20	-0.5
			iS	03	37.50	
LCCH	0.82	219	iPd	03	26.00	0.2
			iS	03	38.50	
PCH	0.86	155	iPd	03	26.30	0.0
			iS	03	39.40	
CHCH	1.12	167	iP	03	29.50	0.4
			iS	03	45.00	
LNV	1.18	199	iP	03	29.60	-0.1
			iS	03	46.00	
	S.D. = 0.5	on 5 of 5 obs.				

---

* MAY 14, 1990 04h 28m 24.09± 0.47s
22.706 N ±12.2km 92.551 E ±10.3km
DEPTH = 33.0km (normol)
4.4mb (11 obs.)
INDIA-BANGLADESH BORDER REGION (315)

SHL	2.91	348	iP	29	08.90	-0.4
			eS	29	56.40	
CHG	7.12	122	eP	30	09.00	0.3
GUN	7.95	312	P	30	20.60	-0.1
PKI	8.08	308	P	30	22.00	-0.4
DMN	8.32	307	P	30	25.60	-0.1
	0.4s	25.00nm			5.7mb X	
NDI	15.05	296	e(P)	31	55.50	-0.5
WB5	58.80	133	eP	38	20.80	-1.0
SOD	60.02	336	eP	38	30.00	0.4
KEV	60.47	339	eP	38	35.00	2.3
HFS	65.07	327	eP	39	02.60	-0.6
	0.4s	1.20nm			4.3mb	
NB2	66.24	328	P	39	09.90	-0.9
	0.7s	1.60nm			4.2mb	
CDF	70.31	315	eP	39	36.90	0.4
HAU	71.01	315	eP	39	40.30	-0.3

14d 04h

	0.7s	3.30nm		4.5mb		
LPG	71.31	312 eP	39	43.70	0.8	
	0.7s	3.30nm		4.5mb		
LPL	71.32	312 eP	39	43.70	0.9	
	0.7s	2.75nm		4.4mb		
FRF	71.85	310 eP	39	46.40	0.7	
	0.8s	5.35nm		4.6mb		
LOR	72.82	315 eP	39	50.20	-1.2	
	0.9s	4.90nm		4.5mb		
SSF	73.11	314 eP	39	52.50	-0.6	
AVF	73.28	314 eP	39	54.70	0.7	
	0.8s	2.70nm		4.3mb		
BCAO	73.56	268 ePc	39	56.60	0.3	
	0.6s	2.00nm		4.3mb		
TCF	74.17	314 eP	39	59.70	0.4	
	0.9s	3.30nm		4.3mb		
YKA	92.38	12 eP	41	31.50	-0.8	
	0.9s	0.50nm		3.9mb		
	S.D. = 0.9	on 22 of 22 obs.				

? MAY 14, 1990 04h 46m 58.74±10.22s
37.531 N ±86.1km 4.087 E ±13.5km
DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)

ESEL	2.42	338 eP	47	39.80	0.8	
		eS	48	09.00		
LMR	6.08	17 Pn	48	31.00	0.2	
		Sn	49	40.00		
LRG	6.17	16 Pn	48	32.00	0.0	
EPF	6.19	334 Pn	48	32.00	-0.5	
		Sn	49	37.20		
PGF	6.27	35 Pn	48	33.60	0.0	
		Sn	49	43.60		
CAF	7.54	349 Pn	48	51.50	0.1	
TCF	8.86	352 Pn	49	09.60	-0.1	
BGF	9.07	355 Pn	49	12.00	-0.6	
	S.D. = 0.5	on 8 of 8 obs.				

% MAY 14, 1990 04h 47m 41.75± 1.21s
17.253 N ± 7.2km 99.868 W ±17.7km
DEPTH = 10.0km (geophysicist)
GUERRERO, MEXICO (59)

ACX	0.38	179 ePd	47	49.23	-0.4	
		iS	47	56.19		
III	1.18	19 P	48	03.01	-0.9	
		eS	48	21.38		
CRX	2.15	5 (P)	48	20.00	1.6	
IIT	2.30	40 (P)	48	19.50	-1.1	
IIJ	2.47	3 P	48	22.97	-0.2	
		iS	48	58.19		
OXX	3.01	93 (P)	48	31.50	0.9	
		(S)	49	19.50		
	S.D. = 1.4	on 6 of 6 obs.				

? MAY 14, 1990 05h 23m 32.17± 0.78s
15.312 S ±36.3km 174.017 W ±24.5km
DEPTH = 33.0km (normal)
4.6mb (10 obs.)
TONGA ISLANDS (173)

DZM	19.68	247 iPc	27	59.00	-2.8	
WRA	49.28	257 P	32	18.00	-2.2	
CMB	73.09	42 ePc	35	02.60	1.3	
ORV	73.29	40 eP	35	02.10	-0.2	
MIN	73.70	39 ePc	35	04.60	-0.3	
GLA	74.18	49 P	35	17.00	9.3X	
KVN	75.14	42 P	35	12.50	-0.8	
TNP	75.18	43 P	35	12.70	-0.9	
	0.8s	3.92nm		4.5mb		
BMW	76.59	33 P	35	21.20	0.1	
RMW	77.97	33 P	35	28.20	-0.6	
MSU	78.79	45 P	35	33.50	-0.2	
PMR	79.16	12 P	35	34.50	-0.3	
TTA	79.25	8 P	35	36.90	1.4	
	1.0s	9.13nm		4.7mb		
DPW	80.15	34 P	35	39.80	-0.8	
PNT	80.26	33 eP	35	41.00	-0.1	
	0.8s	10.00nm		4.9mb		
DAU	80.34	44 P	35	41.00	-1.1	
ALQ	81.20	50 eP	35	45.20	-1.4	
	1.0s	4.00nm		4.4mb		
ANMO	81.20	50 P	35	45.90	-0.7	
	1.3s	9.62nm		4.6mb		
IMW	82.27	41 P	35	51.00	-1.1	
LRM	82.32	38 eP	35	51.50	-0.7	
FBA	82.42	11 P	35	52.30	0.3	
	0.9s	18.75nm		5.1mb		
IMA	82.56	8 P	35	53.50	0.6	
	0.8s	2.37nm		4.3mb		
BW06	82.60	42 P	35	52.20	-1.6	
	0.9s	4.87nm		4.6mb		
GOL	84.02	46 P	35	59.50	-1.6	
	1.0s	8.75nm		4.9mb		
SES	85.47	35 ePd	36	07.20	-0.6	
RSSD	86.80	43 P	36	10.20	-4.6X	
YKA	90.25	24 eP	36	29.00	-1.5	
	1.0s	1.20nm		4.1mb		
KOD	110.36	275 ePdiff	38	03.50	0.8	
FLN	146.22	8 ePKP	43	08.40	-1.3	
	0.7s	13.25nm				
LDF	146.43	7 ePKP	43	09.00	-1.1	
	0.8s	6.70nm				
GRR	146.54	8 ePKP	43	09.60	-0.6	
	0.8s	10.75nm				
LPF	146.86	9 ePKP	43	10.60	-0.1	
	1.0s	28.00nm				
CDF	146.98	358 ePKP	43	11.40	0.3	
	0.8s	5.35nm				
HAU	147.40	360 ePKP	43	12.40	0.7	
	0.8s	8.05nm				
BSF	147.57	359 ePKP	43	12.40	0.3	
	0.7s	3.30nm				
LOR	148.09	3 ePKP	43	14.40	1.6	
	0.8s	7.40nm				
SSF	148.28	3 ePKP	43	14.80	1.7	
	0.8s	10.75nm				
LBF	148.38	3 ePKP	43	14.80	1.5	
	0.6s	5.40nm				
MFF	148.39	8 ePKP	43	14.40	1.2	
	0.8s	8.05nm				
AVF	148.54	3 ePKP	43	15.20	1.7	
	0.6s	3.15nm				
SMF	148.71	3 ePKP	43	15.80	2.0	
BGF	148.74	4 ePKP	43	15.50	1.7	
	0.8s	8.05nm				
LSF	148.93	6 ePKP	43	15.60	1.4	
	0.8s	10.75nm				
TCF	148.96	5 ePKP	43	16.00	1.8	
	0.8s	4.05nm				
MAF	149.05	5 ePKP	43	16.30	1.9	
	1.0s	12.00nm				
RJF	149.87	6 ePKP	43	18.20	2.6X	
	0.8s	5.35nm				
LPG	149.90	359 ePKP	43	19.70	3.7X	
	0.8s	6.05nm				
LFF	150.14	7 ePKP	43	18.80	2.8X	
	0.8s	10.75nm				
CAF	150.30	6 ePKP	43	19.40	3.1X	
	0.8s	4.05nm				
LPO	150.44	7 ePKP	43	19.40	2.9X	
	0.8s	8.05nm				
EPF	151.96	9 ePKP	43	22.80	3.9X	
	S.D. = 1.3	on 43 of 51 obs.				

% MAY 14, 1990 05h 49m 23.77± 1.37s
33.526 S ±10.3km 71.262 W ±13.7km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

TACH	0.30	115 iP	49	35.50	4.0X	
LNV	0.45	196 iPd	49	34.00	0.5	
SAN	0.51	82 eP	49	35.50	1.0	
ROCH	0.59	21 eP	49	35.50	-0.4	
PCH	0.63	99 eP	49	36.40	0.1	
CHCH	0.65	129 eP	49	35.50	-1.1	
	S.D. = 1.1	on 5 of 6 obs.				

MAY 14, 1990 06h 52m 11.84± 0.33s
37.283 S ± 8.9km 47.736 E ± 6.6km
DEPTH = 10.0km (geophysicist)
5.4mb (31 obs.) 5.2Msz (3 obs.)
ATLANTIC-INDIAN RISE (428)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 13S, 21C
Centroid Location:
Origin Time 06:52:15.6 0.5
Lat 37.13S 0.10 Lon 48.11E 0.09
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**16 Nm
Mrr= 7.71 0.70 Mtt=-2.00 0.99
Mff=-5.70 0.66 Mrt= 8.95 2.16
Mrf=-3.24 1.97 Mtf= 7.61 0.72
Principal Axes:

T	Val= 13.12	Plg=57	Azm=352
N	1.66	24	126
P	-14.77	21	226

Best Double Couple:Mo=1.4*10**17
NP1:Strike=351 Dip=32 Slip= 140
NP2: 117 70 64

PRY	19.99	295 eP	56	44.60	-2.9	
FRS	20.11	285 iPc	56	49.50	1.0	
	0.6s	10.00nm		4.3mb		X
KSR	21.04	297 iPc	56	57.00	-1.4	
	1.0s	120.00nm		5.2mb		
TUH	23.63	271 iPc	57	25.50	1.7	
	1.1s	177.22nm		5.5mb		
BUL	23.86	310 iPc	57	20.00	-6.3X	
	1.0s	35.00nm		4.9mb		
		ipP	57	30.90	42kmX	
POF	24.45	281 iPd	57	34.00	2.1	
	0.5s	28.17nm		5.2mb		
MAW	31.55	169 eP	58	36.00	0.0	
NAI	37.22	342 iP	59	28.50	3.0X	
	1.0s	20.00nm		4.8mb		
LWI	38.99	329 eP+	59	41.00	0.7	
BCAO	49.62	320 iPc	01	04.70	-0.8	
	0.9s	80.00nm		5.7mb		
		i	01	12.50		
SPA	52.90	180 eP	01	28.30	-1.8	
	0.7s	18.75nm		5.1mb		
GBA	57.81	35 Pc	02	02.40	-3.4X	
	1.6s	82.80nm		5.5mb		
POO	60.73	29 eP	02	25.00	-0.9	
HYB	61.67	34 eP	02	32.00	-0.4	
PSI	61.89	62 ePd	02	36.00	2.1	
IPM	64.69	62 ePc	02	54.10	1.6	
	1.1s	74.30nm		5.8mb		
KIC	65.39	300 (P)	02	56.80	-0.1	
TRT	65.44	81 ePd	02	56.60	-0.6	
LIC	65.49	300 (P)	02	58.04	0.5	
SNG	66.25	60 eP	03	11.90	9.5X	
MBH	67.78	348 eP	03	12.00	0.2	
LKO	68.25	302 P	03	14.90	-0.2	
PRNI	68.32	348 eP	03	16.00	0.8	
DSI	69.46	349 eP	03	23.00	0.9	
QUE	69.49	18 eP	03	23.10	0.5	
NNT	69.59	55 eP	03	23.30	0.0	
NDI	71.21	27 eP	03	32.00	-0.9	
CHG	73.74	50 eP	03	47.00	-1.0	
MAIO	74.02	10 eP	03	49.00	-0.4	
		eS	13	28.00		
TAB	74.99	359 eP	03	56.00	1.0	
WRA	75.58	104 Pd	03	58.70	-0.1	
	1.4s	46.00nm		5.4mb		
WB5	75.64	104 eP	03	58.30	-0.8	
ALT	77.68	346 eP	04	10.00	-0.1	
BBTK	77.97	348 iPc	04	13.00	1.3	
		e	04	20.00		
LSA	78.07	38 eP	04	12.00	-0.9	
KSH	80.66	22 eP	04	28.00	1.7	
		eS	14	38.00		
KMI	80.79	49 eP	04	26.00	-1.4	
	Z 20s	1.20um		5.2Msz		
VAY	81.55	341 eP	04	30.50	-0.2	
OHR	81.82	340 eP	04	32.50	0.3	
	1.3s	76.00nm		5.6mb		
TDS	81.83	336 P	04	34.20	2.0	
SKO	82.45	341 iP	04	35.00	-0.4	
		i	04	47.30		
CFR	83.97	346 eP	04	42.00	-1.1	
GYA	84.16	51 P	04	45.00	0.4	
	N 20s	0.20um				
	E 20s	0.40um				
		pP	04	51.00	19kmX	
CTA	84.56	111 eP	04	46.00	-0.7	
MLR	84.71	345 ePc	04	47.00	0.0	
VRI	84.91	345 ePd	04	48.00	0.2	
TIO	85.14	315 iP	04	50.40	0.9	
		i	05	01.00		
CD2	85.71	46 eP	04	51.50	-0.7	
	1.1s	100.00nm		5.9mb		
		eS	15	22.50		
BZS	85.81	342 eP	04	53.00	0.7	
PGF	86.94	332 eP	04	57.00	-1.0	
	1.4s	34.85nm		5.4mb		
CEY	87.92	337 eP	05	03.80	1.2	
BUD	88.21	341 eP	05	04.00	0.1	

VOY 88.35 337 eP 05 05.30 0.6
WMO 88.49 28 P 05 08.30 2.9X
E 23s 1.10um
eS 15 51.20
SBF 88.65 332 eP 05 05.20 -1.0
1.2s 23.80nm 5.4mb
SRO 88.70 341 iP 05 06.60 0.4
e 07 16.60
LRG 88.71 331 eP 05 05.40 -0.9
1.6s 62.20nm 5.6mb
CTI 89.08 336 P 05 09.50 1.3
ZST 89.37 340 eP 05 09.80 0.4
SPC 89.48 342 eP 05 10.30 0.1
LZH 89.62 42 eP 05 10.00 -1.1
1.5s 33.00nm 5.4mb
Z 24s 1.00um 5.2MszX
VKA 89.65 340 iPd 05 11.70 0.9
3.0s 246.00nm 5.9mb
KMR 90.09 338 iP+ 05 13.40 0.6
GTA 90.09 38 eP 05 12.80 -0.4
BHG 90.17 337 eP 05 14.10 0.9
TOL 90.32 323 eP 05 15.00 1.0
LPL 90.32 333 eP 05 12.60 -1.6
1.4s 21.80nm 5.2mb
KRA 90.36 343 eP 05 12.60 -1.4
e 05 20.70
EPF 90.81 327 eP 05 15.40 -0.9
1.6s 49.75nm 5.6mb
XAN 90.96 47 P 05 18.70 1.5
KHC 91.22 338 eP 05 17.90 -0.1
e 05 46.50
CAF 91.64 329 eP 05 19.40 -0.6
1.4s 30.50nm 5.5mb
PRU 91.71 339 eP 05 20.80 0.6
e 05 32.50
LPO 91.80 329 eP 05 20.00 -0.7
1.6s 49.75nm 5.6mb
KSP 92.01 341 eP 05 20.50 -1.0
e 05 22.50
RJF 92.17 329 eP 05 21.40 -1.0
1.4s 30.50nm 5.5mb
LFF 92.19 329 eP 05 21.80 -0.7
1.4s 30.50nm 5.5mb
BSF 92.28 334 eP 05 20.80 -2.2
SMF 92.36 331 eP 05 21.80 -1.5
0.1s 13.05nm 6.1mb
MAF 92.50 330 eP 05 23.00 -0.9
1.6s 28.00nm 5.4mb
AVF 92.67 331 eP 05 23.20 -1.4
1.4s 19.60nm 5.3mb
BGF 92.67 331 eP 05 24.00 -0.7
1.4s 30.50nm 5.5mb
BRG 92.67 339 eP 05 25.70 1.1
1.6s 20.00nm 5.3mb
TCF 92.70 330 eP 05 24.00 -0.8
1.2s 11.90nm 5.2mb
LOR 92.87 332 eP 05 24.20 -1.4
1.2s 11.90nm 5.2mb
LSF 92.94 330 eP 05 24.80 -1.1
CLL 93.33 339 eP 05 30.00 2.4
1.8s 23.00nm 5.3mb
TIY 95.57 46 eP 05 39.00 0.7
Z 20s 0.80um 5.2Msz
N 18s 1.00um
IMA 148.61 17 ePKP 11 58.00 2.0
1.7s 55.60nm
INK 148.92 1 ePKP 11 56.00 -0.2
1.0s 38.00nm
TTA 150.50 22 ePKP 12 04.70 5.9X
FBA 150.85 14 PKP 11 58.50 -0.7
YKA 152.51 342 ePKP 12 01.60 -0.1
1.2s 10.90nm
FFC 152.98 320 ePKP 12 04.00 1.4
1.2s 18.00nm
PMR 153.48 18 ePKP 12 12.30 9.3X
RSSD 157.61 297 PKP 12 10.00 0.6
ALQ 159.04 271 ePKP 12 10.00 -1.3
Z 22s 0.24um 5.0Msz
SES 159.94 318 ePKP 12 09.00 -2.6
BW06 161.79 295 PKP 12 13.50 -0.4
LRM 162.92 306 ePKP 12 17.50 2.5
DAU 163.34 287 PKP 12 16.30 0.6
PNT 164.88 327 ePKP 12 16.00 -0.4
TNP 168.05 278 PKP 12 22.00 2.5
KVN 168.71 283 PKP 12 22.20 2.4
FRI 169.97 272 ePKPc 12 23.30 2.9X
MIN 171.14 293 ePKP 12 20.70 -0.4

ORV 171.25 288 PKP 12 29.00 8.1X
S.D. = 1.2 on 98 of 107 obs.

% MAY 14, 1990 07h 20m 39.84± 1.66s
17.224 N ± 8.6km 99.984 W ±21.3km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

ACX 0.37 161 P 20 48.46 -0.1
iS 20 56.54
III 1.25 23 P 21 00.41 -0.8
(S) 21 18.00
CRX 2.19 8 (P) 21 18.50 3.6X
UNM 2.23 20 (P) 21 17.00 1.5
(S) 21 42.00
IIT 2.39 41 P 21 17.00 -0.9
iS 21 52.00
IIJ 2.51 5 P 21 19.50 -0.2
OXX 3.12 92 (P) 21 28.50 0.4
(S) 22 17.00
S.D. = 1.2 on 6 of 7 obs.

MAY 14, 1990 08h 14m 41.11± 0.87s
35.545 N ± 7.8km 140.170 E ± 8.2km
DEPTH = 80.5 ± 6.7 km
4.4mb (4 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.66 0 P 14 55.70 -0.8
S 15 05.20
CHJJ 1.08 298 P 15 01.20 -0.2
S 15 14.30
IIDJ 1.84 269 P 15 12.30 0.8
S 15 34.40
MAT 1.88 303 iPd 15 11.90 0.0
iS 15 34.70
NIIJ 1.94 331 P 15 12.40 -0.3
S 15 35.90
MTMJ 2.18 299 P 15 16.20 0.1
YAMJ 2.63 358 P 15 23.70 1.5
TSRJ 3.41 271 P 15 33.60 0.5
OFUJ 3.73 18 P 15 36.80 -0.6
S 16 18.40
WKYJ 3.99 252 P 15 41.30 0.1
TKSJ 5.27 255 eP 15 58.80 -0.3
YONJ 5.49 268 eP 16 02.00 -0.1
BJI 19.47 290 eP 19 02.50 -1.5
e 19 09.00
WB5 55.39 187 eP 24 09.50 0.3
WRA 55.46 187 Pc 24 09.50 -0.2
0.7s 2.30nm 4.3mb
GBA 60.10 266 Pc 24 42.00 -0.4
0.6s 4.50nm 4.8mb
KEV 64.48 339 eP 25 16.00 5.2X
SOD 65.95 337 eP 25 31.00 10.8X
SUF 68.86 333 iP 25 39.10 0.5
0.6s 3.40nm 4.4mb
NUR 70.79 332 eP 25 50.00 -0.3
NB2 75.17 337 P 26 16.80 0.7
0.8s 3.10nm 4.3mb
S.D. = 0.7 on 19 of 21 obs.

& MAY 14, 1990 08h 41m 10.74s
61.682 N 150.451 W
DEPTH = 45.9km
SOUTHERN ALASKA (2)
<AGS-P>. ML 3.3 (PMR).

SUA 0.26 213 iP 41 19.47 0.1
eS 41 26.99
PWA 0.27 96 iPc 41 19.40 0.1
SKT 0.59 301 iP 41 22.12 -0.9
eS 41 31.25
PMS 0.61 135 iPc 41 22.60 -0.7
PLRM 0.64 98 iP 41 22.70 -0.8
eS 41 33.06
PMR 0.64 98 iPc 41 22.70 -0.8
CUT 0.73 7 iP 41 24.02 -0.8
eS 41 34.19
GHO 0.73 82 iP 41 24.38 -0.6
eS 41 35.87
CRP 0.92 244 eP 41 27.04 -0.5
eS 41 39.72
SPU 0.92 238 eP 41 26.66 -0.8
eS 41 39.39
NKA 1.02 202 eP 41 29.96 1.2
SML 1.02 82 iP 41 28.03 -0.8

SLKM 1.18 174 eP 41 29.84 -1.3
eS 41 46.38
HUR 1.36 16 eP 41 32.46 -1.1
eS 41 50.88
RDT 1.46 221 iP 41 34.34 -0.8
eS 41 53.12
SEW 1.66 162 eP 41 37.27 -0.5
eS 41 59.61
NNL 1.78 194 eP 41 38.71 0.3
RED 1.78 223 eP 41 37.69 -0.8
eS 41 59.51
NCA 1.75 78 iP 41 38.73 -0.4
GLI 1.81 115 eP 41 38.29 -1.7
eS 42 00.82
RND 1.88 22 eP 41 40.34 -0.8
KTH 1.89 354 eP 41 40.68 -0.5
eS 42 04.39
VZW 1.98 107 eP 41 41.41 -1.0
VLZ 2.06 104 eP 41 41.81 -1.6
eS 42 07.18
TOA 2.07 76 ePd 41 43.60 -0.1
MCK 2.17 18 eP 41 44.54 -0.6
KLU 2.17 93 eP 41 43.62 -1.6
MTU 2.18 140 eP 41 42.66 -2.6
CNPM 2.20 190 eP 41 45.16 -0.4
SDG 2.46 68 eP 41 49.32 0.1
SVW 2.55 259 ePc 41 48.50 -2.2
PDB 2.64 226 eP 41 50.65 -1.2
PAX 2.66 59 eP 41 51.36 -0.9
TTA 2.88 298 iPc 41 53.50 -1.9
NEA 2.97 12 eP 41 54.55 -2.0
DDM 2.99 43 eP 41 57.47 0.6
WRH 3.00 20 eP 41 55.19 -1.8
HDA 3.16 29 eP 41 57.81 -1.5
CDD 3.19 211 eP 41 59.89 0.3
CCB 3.21 21 eP 41 57.74 -2.1
FBA 3.45 19 ePc 42 01.60 -1.6
GLM 3.59 21 eP 42 03.19 -2.2
TGL 3.80 101 eP 42 07.49 -0.9
BALM 3.96 96 eP 42 08.78 -1.8
IMA 4.63 343 ePc 42 17.50 -2.6
YKA 16.67 71 eP 45 15.10 12.8
0.6s 0.30nm
46 obs. associated

MAY 14, 1990 08h 44m 23.15± 1.00s
34.858 N ± 7.1km 120.632 W ± 8.7km
DEPTH = 5.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
ML 2.7 (BRK).

BLP 0.35 147 eP 44 31.00 0.7
BCH 0.56 54 iPd 44 34.30 0.0
PHAM 0.99 11 eP 44 42.50 0.0
ABL 1.16 90 eP 44 44.30 -1.2
PKEM 1.27 19 eP 44 49.00 1.8
PRI 1.28 359 eP 44 48.00 0.6
PRS 1.59 338 eP 44 51.90 -0.1
LLA 1.77 352 eP 44 57.90 3.2X
SAO 2.01 341 eP 44 57.30 -0.9
eS 45 22.60
FRI 2.26 19 eP 45 00.90 -0.8
GCC 2.43 333 eP 45 04.00 -0.2
PLM 3.47 115 eP 45 16.40 -2.7X
TNP 4.23 40 eP 45 40.00 10.1X
KVN 4.65 25 eP 45 46.50 10.6X
S.D. = 1.0 on 10 of 14 obs.

MAY 14, 1990 08h 52m 08.84± 0.59s
43.290 N ± 5.1km 19.865 E ± 5.8km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.9 (TTG).

PLE 0.35 277 iPgc 52 15.50 -0.3
iSg 52 20.50
IVA 0.42 177 iPgc 52 17.10 -0.2
iSg 52 23.00
PVY 0.70 173 iPgc 52 22.00 -0.8
iSg 52 32.20
NKY 0.79 233 iPgd 52 24.10 -0.7
eSg 52 36.00
TTG 0.97 208 iPgc 52 27.00 -0.7
iSg 52 41.00
BRY 1.04 249 ePg 52 28.00 -1.1
eSg 52 43.50
BDV 1.26 218 ePg 52 33.00 0.2

14d 08h

			eSg	52 52.00		
HCY	1.31	230	ePg	52 33.50	-0.1	
			eSg	52 53.00		
ULC	1.40	199	ePg	52 35.40	0.3	
			eSg	52 57.00		
BEO	1.59	15	ePn	52 39.00	1.3	
			i(Sg)	52 59.50		
SKO	1.76	138	ePn	52 40.50	0.4	
			iSg	53 06.80		
OHR	2.29	162	ePn	52 49.50	1.6	
HVAR	2.50	269	ePn	52 53.10	2.3	
BZS	2.64	28	ePc	52 51.00	-1.8	
GZR	2.96	44	ePd	52 57.00	-0.5	

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

? MAY 14, 1990 08h 54m 10.59± 2.75s
7.535 S ±17.9km 129.073 E ±20.3km
DEPTH = 189.1 ± 37.5 km
4.6mb (5 obs.)
BANDA SEA (280)

MTN	5.65	159	eP	55 35.00	1.1	
			eS	56 38.00		
KUPT	6.00	244	eP	55 47.00	8.6X	
			eS	56 59.00		
KNA	8.17	182	iPd	56 06.50	-0.7	
	0.3s		61.00nm		5.4mb	
			eS	57 33.00		
WB5	13.30	158	eP	57 13.40	0.0	
			eS	59 34.80		
WRA	13.35	158	Pd	57 13.30	-0.7	
	0.7s		8.50nm		4.3mb	
MBL	16.22	212	eP	57 48.60	-0.9	
	0.3s		7.00nm		4.6mb	
QIS	16.48	143	eP	57 57.00	4.4X	
			eS	00 52.00		
WARB	18.69	187	eP	58 21.00	3.9X	
	0.4s		6.00nm		4.4mb	
NANU	19.83	220	eP	58 30.20	1.5	
CHTO	39.60	312	eP	01 25.70	0.4	
GUN	54.62	312	P	03 22.20	-0.2	
	0.6s		16.00nm		4.9mb	
PKI	54.78	311	P	03 23.20	-0.4	
DMN	55.03	311	P	03 25.10	-0.1	

S.D. = 1.0 on 10 of 13 obs.

? MAY 14, 1990 08h 57m 13.47± 1.05s
40.568 N ±14.6km 15.828 E ± 9.4km
DEPTH = 33.0km (normal)
SOUTHERN ITALY (390)

SGO	0.40	269	P	57 21.60	-0.9	
			eSg	57 29.70		
MGR	0.48	206	P	57 24.00	0.2	
			eSg	57 32.10		
BSS	0.81	286	P	57 29.20	0.8	
			eSg	57 42.30		
BRT	1.09	73	P	57 32.40	-0.1	
			eSg	57 47.20		

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

---

* MAY 14, 1990 09h 11m 11.54± 0.77s
36.153 N ± 9.5km 99.927 E ± 8.7km
DEPTH = 10.0km (geophysicist)
4.2mb (3 obs.)
QINGHAI PROVINCE, CHINA (325)
ML 4.6 (BJI).

LZH	3.17	90	Pn	12 03.60	1.0	
			Pg	12 09.00		
			Sn	12 40.70		
			Sg	12 46.80		
GTA	3.25	358	Pn	12 07.60	3.9X	
			Pg	12 16.00		
			Sg	12 59.80		
CD2	6.13	147	ePg	13 02.30	17.9X	
XAN	7.67	103	Pn	13 02.20	-3.8X	
			Pg	13 32.80		
			Sn	14 26.00		
			Sg	15 05.20		
BTO	9.08	58	eP	13 26.00	0.3	
E	10s		0.70um			
TIY	10.13	77	eP	13 34.80	-5.4X	
Z	10s		1.30um			
N	12s		2.80um			
HHC	10.25	59	P	13 40.60	-1.3	
Z	15s		1.20um			
GYA	11.25	147	P	13 54.40	-1.1	
KMI	11.26	167	eP	13 55.50	-0.2	
WMQ	12.10	313	P	14 05.70	-1.3	
E	10s		1.20um			
GUN	14.46	239	P	14 39.40	0.8	
CHG	17.29	183	ePc	15 18.70	4.0X	
	1.0s		42.50nm		4.5mb	
GBA	30.19	228	Pc	17 26.80	2.5X	
	0.4s		1.50nm		4.2mb	
YKA	77.84	16	eP	23 12.00	1.7	
	0.5s		0.30nm		3.6mb	

S.D. = 1.3 on 8 of 14 obs.

? MAY 14, 1990 10h 43m 48.77± 0.97s
37.287 N ±23.1km 73.876 E ±30.2km
DEPTH = 10.0km (geophysicist)
4.0mb (4 obs.)
TAJIK SSR (715)

NDI	9.03	161	eP	46 03.00	0.9	
			eS	47 40.50		
PKI	13.73	132	P	47 05.40	-0.7	
GUN	13.76	129	P	47 06.00	-0.6	
HFS	43.88	321	eP	51 55.80	-0.9	
	0.5s		1.30nm		4.0mb	
NB2	45.15	322	P	52 06.20	-0.8	
	0.8s		1.40nm		4.0mb	
MBC	66.43	3	eP	54 43.00	3.3X	
	0.6s		4.00nm		4.8mb	
INK	72.74	10	eP	55 22.00	3.6X	
YKA	80.33	4	eP	56 03.20	2.2	
	0.6s		0.90nm		3.9mb	

S.D. = 1.6 on 6 of 8 obs.

% MAY 14, 1990 11h 01m 02.93± 0.83s
42.452 N ± 7.1km 7.097 W ± 8.0km
DEPTH = 5.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD).

ERUA	0.07	209	iPgc	01 04.00	-0.7	
			eSg	01 08.00		
EMON	1.00	350	ePg	01 21.60	-0.7	
			eSg	01 37.00		
STS	1.16	292	ePn	01 26.00	1.0	
			eSn	01 45.00		
EZAM	1.22	256	ePn	01 26.00	-0.2	
			eSn	01 45.00		
EPLA	2.50	162	ePg	01 45.20	0.2	
			eSg	02 14.00		
GUD	2.85	128	ePg	01 50.50	0.4	
			eSg	02 22.00		

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

MAY 14, 1990 11h 54m 30.19± 0.17s
23.789 S ± 7.5km 179.890 E ± 4.8km
DEPTH = 539.6km (2 depth phases)
5.0mb (22 obs.)
SOUTH OF FIJI ISLANDS (171)
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 10S, 15C
Centroid Locotion:
Origin Time 11:54:38.2 1.5
Lot 23.86S 0.13 Lon 179.74E 0.11
Dep 542.9 5.0 Holf-durotion 1.6
Moment Tensor; Scole 10**16 Nm
Mrr= 5.99 0.52 Mtt= 1.14 0.97
Mff=-7.13 0.93 Mrt=-0.83 0.95
Mrf=-5.09 0.89 Mtf=-3.00 0.82
Principol Axes:
T Vol= 7.74 Plg=71 Azm= 85
N 2.02 7 195
P -9.76 18 287
Best Double Couple:Mo=8.8*10**16
NP1:Strike= 28 Dip=28 Slip= 105
NP2: 191 63 82

DZM	12.51	275	iPc	57 17.40	2.8	
			iS	59 40.90		
HNR	23.81	304	eP	58 54.00	-8.5X	
BRS	24.70	256	iP	59 11.00	0.6	
COO	25.77	249	iPd	59 21.00	1.1	
RMQ	28.28	258	iPd	59 43.40	1.6	
	1.0s		253.00nm		5.8mb	
CAN	29.11	240	iPd	59 49.80	0.8	
BWA	29.36	242	eP	59 49.30	-1.9	
CMS	31.04	248	iPd	00 06.20	0.7	
CTA	31.37	270	iPd	00 09.20	0.8	
	0.8s		203.73nm		5.8mb	
			i	01 22.00	391kmX	
			iS	04 40.00		
PMG	34.37	289	iPd	00 34.00	0.4	
	1.0s		230.00nm		5.7mb	
BFD	34.61	239	iPc	00 36.00	0.5	
QIS	37.36	267	iPd	00 58.30	0.1	
			e	02 25.00	457kmX	
			e	06 04.00		
WB5	42.30	266	iPd	01 37.20	-0.9	
			eScP	06 23.10		
			eS	07 19.00		
MTN	47.35	274	eP	02 16.00	-1.2	
WARB	48.04	255	iPd	02 21.70	-0.7	
	0.3s		19.00nm		5.1mb	
KNA	48.56	270	iPd	02 26.20	-0.1	
	0.3s		40.00nm		5.4mb	
COOL	52.16	249	eP	02 51.20	-1.4	
SBA	54.48	183	eP	03 09.40	1.0	
KLB	54.93	247	iPd	03 11.40	-0.9	
MEKA	55.12	253	eP	03 13.00	-0.7	
NWAO	55.19	245	eP	03 13.10	-0.9	
MBL	55.20	260	iPd	03 13.30	-1.0	
	0.3s		8.00nm		4.5mb	
RKG	55.23	244	iPc	03 13.30	-1.0	
BAL	55.98	248	iPd	03 18.70	-0.9	
	0.4s		17.00nm		4.7mb	
MUN	56.18	246	iPd	03 20.20	-0.7	
	0.4s		98.00nm		5.5mb	
MRWA	56.83	250	iPd	03 24.70	-0.7	
	0.3s		9.00nm		4.6mb	
NANU	58.71	257	iPd	03 38.20	0.0	
	0.3s		30.00nm		5.1mb	
TRT	66.14	272	ePd	04 26.50	0.2	
SPA	66.35	180	iPc	04 27.00	0.0	
	1.1s		76.79nm		5.2mb	
MAW	77.82	200	iP	05 33.50	1.0	
AIA	78.71	157	eP	05 37.30	0.0	
BLP	81.09	46	P	05 50.70	0.6	
SYP	81.35	46	eP	05 53.00	1.4	
PRS	81.53	44	eP	05 52.70	0.3	
GCC	81.56	43	eP	05 52.60	0.1	
PCC	81.61	43	eP	05 52.80	0.1	
BCH	81.67	46	P	05 53.50	0.3	
SAO	81.75	44	eP	05 53.20	-0.2	
PHAM	81.86	45	P	05 54.00	0.0	
PRI	81.87	45	eP	05 54.60	0.4	
NWRM	81.90	42	P	05 54.30	0.2	
BRK	81.92	43	eP	05 54.50	0.3	
BKS	81.94	43	eP	05 55.20	0.9	
	0.7s		61.00nm		5.2mb	
MHC	81.98	43	eP	05 55.10	0.4	
ABL	82.05	47	P	05 55.20	-0.1	
ARN	82.05	43	P	05 55.00	0.0	
PAS	82.34	48	eP	05 56.00	-0.5	
MWC	82.46	48	eP	05 57.00	-0.3	
BAR	82.54	50	eP	05 58.00	0.5	
PLM	82.78	49	eP	05 59.00	0.1	
RVR	82.79	48	eP	05 59.00	0.3	
PEC	82.88	48	P	05 58.70	-0.5	
SBB	82.89	47	eP	05 58.00	-1.3	
FRI	83.00	45	eP	05 59.60	0.0	
ISA	83.02	46	eP	06 01.00	1.1	
CMB	83.19	43	iPc	06 00.70	0.0	
ORV	83.43	42	eP	06 01.60	-0.2	
WDC	83.44	40	ePc	06 02.00	0.2	
LTCM	83.45	41	P	06 02.10	0.2	
CLC	83.69	47	eP	06 03.00	-0.2	
TPC	83.77	49	eP	06 03.00	-0.6	
MIN	83.85	41	eP	06 03.50	-0.6	
GSC	83.92	47	eP	06 04.00	-0.4	
GLA	84.03	50	eP	06 06.00	1.0	
KVN	85.23	44	P	06 10.00	-0.9	
TNP	85.24	45	P	06 10.50	-0.4	
BMW	86.79	35	P	06 18.30	0.3	
SHW	87.14	36	P	06 20.60	0.8	
VGB	87.52	37	P	06 22.20	0.8	
GMW	87.71	35	P	06 22.50	0.3	
PGC	88.07	34	eP	06 24.00	0.2	
RMW	88.17	35	P	06 22.00	-2.5	
MCW	88.40	34	P	06 26.00	0.5	
TTA	88.52	11	P	06 25.50	-0.2	
	1.1s		18.75nm		4.9mb	
PMR	88.66	14	P	06 25.00	-1.3	
	0.8s		21.55nm		5.1mb	

MSU	88.78	47	P	06	28.00	0.3
DUG	89.26	45	P	06	30.50	0.8
CHTO	89.54	291	eP	06	32.90	1.6
			e	08	32.80	542km
DAU	90.38	45	P	06	35.50	0.4
PNT	90.46	35	eP	06	35.00	0.1
	0.7s	15.00nm			5.1mb	
PTI	90.96	43	P	06	37.70	0.2
ALQ	90.97	52	eP	06	37.50	-0.3
	1.0s	8.75nm			4.7mb	
ANMO	90.97	52	P	06	37.40	-0.4
	1.2s	12.70nm			4.8mb	
NEW	91.17	37	P	06	37.80	-0.4
	0.7s	5.00nm			4.6mb	
IMA	91.81	10	P	06	41.30	0.4
	0.8s	2.59nm			4.3mb	
FBA	91.87	13	eP	06	40.50	-0.5
			e	08	40.00	538km
BW06	92.69	44	P	06	44.90	-0.7
	0.6s	3.02nm			4.6mb	
GOL	93.97	48	P	06	50.80	-0.8
	1.0s	18.75nm			5.2mb	
GLD	94.09	48	P	06	52.00	0.0
RSSD	96.86	45	P	07	04.30	-0.1
INK	97.95	16	eP	07	08.00	-0.6
YKA	100.31	25	ePdiff	07	18.30	-1.0
	0.6s	0.40nm			4.1mb	
MBC	106.40	13	ePKP	11	52.50	-1.3
BUL	128.13	215	iPKPc	12	30.30	-6.9X
			i	15	02.10	
KEV	131.29	348	ePKP	12	41.00	-0.5
NUR	139.48	341	ePKP	12	50.00	-7.1X
			i	12	57.00	
NB2	141.96	351	PKP	12	56.70	-4.9X
	0.8s	10.10nm				
HFS	142.42	349	ePKP	12	57.50	-4.8X
	0.6s	26.80nm				
EKA	148.41	3	PKPc	13	15.60	3.3X
	1.0s	20.00nm				
KRA	149.47	334	ePKP	13	19.50	5.4X
			e	15	26.20	
MLR	149.76	322	ePKPc	13	20.00	5.1X
SPC	150.02	333	iPKP	13	20.70	5.5X
			e	15	25.00	
KSP	150.15	339	iPKPc	13	21.30	6.2X
	0.8s	55.00nm				
			e	15	28.30	
CLL	150.72	343	ePKP	13	15.00	-0.9
	1.8s	16.00nm				
BRG	150.85	342	iPKPc	13	22.10	6.0X
			i	13	32.40	
			epPKP	15	29.80	
			e	15	36.00	
WTS	151.34	351	ePKP	13	23.50	6.7X
	0.7s	28.00nm				
PRU	151.45	340	ePKP	13	23.50	6.4X
			e	13	35.50	
MOX	151.68	344	ePKP	13	17.00	-0.4
ZST	152.07	335	ePKP	13	18.00	0.0
			e	13	25.50	
			e	13	39.10	
			e	15	41.50	
			e	31	22.60	
			e	31	37.70	
KHC	152.50	340	PKP	13	18.50	-0.1
			i	13	26.10	
BCAO	153.66	226	iPKPd	13	21.00	-0.2
	0.9s	18.00nm				
			i	13	45.00	
FLN	155.07	1	ePKP	13	22.60	0.5
LDF	155.24	0	ePKP	13	22.70	0.4
	1.4s	34.85nm				
GRR	155.44	1	ePKP	13	23.00	0.4
LOR	156.36	353	ePKP	13	24.60	0.7
	1.2s	11.90nm				
SSF	156.60	354	ePKP	13	24.80	0.7
	1.2s	8.95nm				
LBF	156.62	353	ePKP	13	25.00	0.8
TCF	157.47	356	ePKP	13	26.10	0.8
	1.0s	4.00nm				
MAF	157.51	355	ePKP	13	28.30	3.0X
	1.2s	5.95nm				
LIC	161.91	164	PKP	13	34.20	3.4X
KIC	162.11	165	PKP	13	31.90	0.9
TIC	162.31	164	PKP	13	32.00	0.8
LKO	164.90	159	PKP	13	33.12	-0.6
	0.9s	21.00nm				

S.D. = 0.8 on 108 of 123 obs.

MAY 14, 1990 12h 28m 36.71± 0.54s
43.798 N ± 5.1km 21.250 E ± 6.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.9 (TTG).

BEO	1.17	331	iPg	28	59.30	0.7
			eSg	29	16.50	
IVA	1.35	227	ePg	29	01.70	0.0
			eSg	29	20.00	
PLE	1.43	252	ePg	29	02.90	0.1
			eSg	29	24.00	
PVY	1.52	218	ePg	29	04.10	0.0
			eSg	29	25.00	
SKO	1.83	176	iPn	29	10.00	1.5
			i	29	11.00	
BZS	1.84	8	iPd	29	07.00	-1.5
NKY	1.92	240	ePn	29	09.70	-0.1
			eSn	29	35.50	
TTG	2.00	227	ePn	29	10.50	-0.3
			eSn	29	36.50	
ULC	2.35	219	ePn	29	17.70	1.7
			eSn	29	44.00	
HCY	2.42	237	ePn	29	18.00	1.0
			eSn	29	47.50	
VAY	2.66	158	ePn	29	19.30	-1.1
OHR	2.71	187	ePn	29	21.00	-0.1
FNA	3.01	178	eP	29	24.30	-1.1
SRS	3.19	146	ePd	29	27.60	-0.3
HVAR	3.55	262	e(Pn)	29	32.60	-0.3
			iSg	30	17.60	
MLR	3.75	62	ePd	29	37.00	1.0
PSZ	4.23	348	eP	29	40.60	-2.1
PAIG	4.27	154	eP	29	41.10	-2.1
PTJ	4.31	301	ePn	29	42.50	-1.4
VRI	4.41	60	eP	29	48.00	2.8
TRI	5.66	292	eP	30	05.10	2.2
FVI	6.60	298	P	30	15.50	-0.7
			eSn	31	26.90	

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

? MAY 14, 1990 12h 38m 55.67± 1.09s
34.329 S ±26.0km 105.213 W ±18.9km
DEPTH = 10.0km (geophysicist)
4.7mb (7 obs.)
EASTER ISLAND CORDILLERA (684)

ZOBO	37.78	71	P	46	16.00	1.5
	1.2s	8.45nm			4.4mb	
			S	52	24.00	
			LR	57	14.00	
SIV	43.54	76	P	47	00.00	-1.4
ALQ	68.92	359	eP	50	09.00	6.1X
	0.8s	1.31nm			4.2mb	
PV09	72.55	357	P	50	23.90	-1.0
TNP	72.90	350	P	50	27.40	0.5
FVM	73.25	12	P	50	30.00	1.4
	0.8s	13.64nm			5.1mb	
GOL	73.66	360	P	50	31.60	0.3
KVN	73.98	350	P	50	33.50	0.4
DAU	74.58	355	P	50	36.00	-0.7
BW06	76.84	357	P	50	48.50	-0.9
	1.0s	6.50nm			4.7mb	
NEW	82.91	352	P	51	21.00	-0.6
	0.9s	9.32nm			5.0mb	
SES	84.51	356	eP	51	30.00	0.4
YKA	96.78	356	eP	52	28.70	1.7
	0.7s	0.20nm			3.8mb	
PMR	102.00	340	Pdiff	52	49.50	-1.1
FBA	104.35	343	Pdiff	53	04.40	3.4X
	0.7s	6.54nm			5.6mb	
APO	133.41	36	ePKP	58	11.20	-1.7
	0.4s	0.60nm				
BJI	146.76	292	ePKP	58	38.00	0.5
LOE	150.61	242	ePKP	58	45.00	0.8

S.D. = 1.2 on 16 of 18 obs.

---

* MAY 14, 1990 14h 09m 51.97± 0.82s
26.509 N ± 8.7km 127.241 E ± 9.0km
DEPTH = 87.5 ± 8.2 km
4.6mb (10 obs.)
RYUKYU ISLANDS (238)

NAH	0.49	126	P	10	06.40	-0.1
			S	10	16.50	
SSE	7.01	312	P	11	32.40	-1.4
	0.8s	26.00nm			4.9mb	
			Lg	13	42.00	
BJI	16.34	328	eP	13	39.00	1.7
	1.0s	6.00nm			3.7mb	
LZH	22.11	301	eP	14	44.00	2.7
LOE	25.38	254	iPc	15	12.00	0.1
CHG	27.17	260	eP	15	29.10	-0.1
CHTO	27.17	260	eP	15	29.00	-0.2
GUN	36.69	282	P	16	52.20	-0.4
	0.4s	14.00nm			5.2mb	
PKI	37.15	281	P	16	55.80	-0.6
	0.4s	15.00nm			5.3mb	
DMN	37.41	281	P	16	58.00	-0.5
	0.6s	14.00nm			5.1mb	
WB5	46.63	171	eP	18	13.60	0.3
WRA	46.69	171	Pc	18	13.90	0.1
	0.8s	7.70nm			4.6mb	
GBA	48.24	265	Pc	18	26.00	0.0
	0.7s	5.10nm			4.5mb	
QIS	48.30	164	iPc	18	26.70	0.4
FBA	64.21	28	e(P)	20	19.80	0.5
MBC	69.77	14	eP	20	53.50	-0.6
HFS	78.16	332	eP	21	41.50	-1.3
	0.3s	1.50nm			4.3mb	
YKA	78.65	25	eP	21	45.50	0.1
	0.5s	1.20nm			4.0mb	
NB2	78.67	334	P	21	44.70	-1.0
	0.6s	1.80nm			4.1mb	

S.D. = 1.0 on 19 of 19 obs.

MAY 14, 1990 15h 06m 45.66± 0.39s
40.553 N ± 3.7km 22.597 E ± 4.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.5 (ATH), 3.5 (SKO), 3.5 (THE).

THE	0.29	74	ePgd	06	52.50	0.8
			eSg	06	57.70	
GRG	0.43	340	iPgc	06	53.90	-0.5
			eSg	07	00.40	
LIT	0.46	190	iPgc	06	54.00	-1.0
SOH	0.64	65	ePgc	06	58.80	0.4
			eSg	07	09.00	
KNT	0.65	21	ePgc	06	58.50	-0.2
			eSg	07	08.40	
VAY	0.77	359	iPg	07	00.50	-0.1
			iSg	07	10.00	
SRS	0.94	53	ePgc	07	04.00	0.4
FNA	0.96	284	ePg	07	02.40	-1.5
PAIG	1.04	127	ePg	07	05.20	-0.1
NEO	1.34	159	iPbc	07	08.70	-1.6
OHR	1.47	293	iPn	07	12.00	-0.3
	0.6s	200.00nm				
			iSn	07	31.60	
AGG	1.54	188	ePb	07	12.40	-0.9
SKO	1.66	329	ePn	07	14.80	-0.2
	0.6s	198.00nm				
			iSg	07	38.70	
IGT	2.02	240	ePn	07	21.60	1.5
KEK	2.30	250	ePn	07	27.40	3.1X
RDO	2.31	74	ePn	07	23.60	-0.7
ALN	2.64	81	iPnc	07	28.60	-0.5
ATH	2.72	161	ePb	07	32.40	2.2
VLS	2.84	214	ePn	07	34.10	2.2
EZN	2.95	103	iPn	07	32.50	-0.8
ITM	3.41	189	ePn	07	41.10	1.1
VLI	3.84	176	ePn	07	44.30	-1.8
GZR	4.84	2	ePd	08	00.00	-0.3
CMP	5.04	20	ePc	08	07.00	3.9X
BZS	5.11	352	eP	08	00.00	-4.0X
MGR	5.40	268	P	08	08.30	0.1
MLR	5.51	25	ePc	08	12.00	2.1
TLB	5.69	43	eP	08	21.00	8.8X
VRI	6.11	28	ePc	08	17.50	-0.6

S.D. = 1.2 on 25 of 29 obs.

---

* MAY 14, 1990 15h 56m 01.25± 2.06s
43.961 N ±18.1km 7.948 E ±10.1km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.4 (LDG).

AUTN	0.38	275	Pg	56	09.04	0.2
			Sg	56	13.75	
SBF	0.38	255	Pg	56	09.00	0.0

14d 15h

			Sg	56	13.90			ITM	3.86	154	ePn	05	22.50	0.0				i	07	04.90									
AURF	0.45	261	Pg	56	10.60	0.2		ATH	4.06	131	ePn	05	26.20	1.0				i	07	44.40									
			Sg	56	16.24						eSn	06	25.60			FVI	7.80	322	P	06	16.50	-1.5							
TOUF	0.51	276	Pg	56	11.58	0.1		MSI	4.12	234	P	05	27.00	0.9		KHL	7.87	104	eP	06	20.00	0.9							
			Sg	56	17.80			DUI	4.16	285	P	05	28.70	2.0		VKA	7.98	343	e(P)	06	24.00	3.5X							
MVIF	0.58	264	Pg	56	11.77	-1.1		BEO	4.17	6	ePn	05	27.40	0.7					i	06	37.60								
			Sg	56	19.50			RDO	4.36	82	ePn	05	28.20	-1.4					i	06	49.00								
CALN	0.79	255	Pg	56	17.34	0.1					eSn	06	23.10						i	07	18.00								
			Sg	56	27.07			SDI	4.64	285	P	05	35.60	2.0					i	07	32.00								
FRF	1.02	247	Pg	56	21.60	0.5					eSn	06	26.10						LR	10	07.00								
			Sg	56	34.60			VLI	4.65	147	ePn	05	33.00	-0.7		CLI	7.99	40	ePc	06	22.00	1.4							
LMR	1.22	240	Pg	56	24.00	-0.4		ALN	4.74	85	ePnc	05	34.20	-0.7		CTI	8.01	315	P	06	19.30	-1.7							
			Sg	56	39.20			EZN	5.06	98	iPn	05	39.00	-0.4					eSn	07	46.00								
LRG	1.26	247	Pg	56	25.40	0.4		AQU	5.09	291	P	05	41.60	1.6		GPA	8.01	89	eP	06	19.00	-2.0							
			Sg	56	42.00						eSn	06	37.50			ALT	8.09	98	eP	06	22.20	0.1							
PGF	1.61	151	Pn	56	30.40	-0.1		BZS	5.11	14	ePc	05	39.50	-0.6		PGF	8.31	287	Pn	06	26.00	0.7							
			Sn	56	50.80			DRA	5.17	38	eP	05	48.00	7.1X		KMR	8.42	333	ePn	06	26.00	-0.6							
S.D. = 0.5 on 10 of 10 obs.								RDP	5.46	284	P	05	46.40	1.2					i	07	47.00								
----------								RMP	5.48	284	P	05	45.30	-0.1		SPC	8.51	2	e(P)	06	29.40	1.3							
MAY 14, 1990 17h 04m 21.63± 0.19s								MNS	5.62	290	P	05	49.00	1.6			1.6s		0.05nm			2.6mb X							
40.680 N ± 2.7km 19.812 E ± 1.8km								DEV	5.67	22	ePd	05	51.00	3.0X		BHG	8.62	327	iPc	06	28.80	-0.6							
DEPTH = 9.0km (3 depth phases)								KGT	5.71	90	iP	05	48.20	-0.4		SCE	8.64	320	iPc	06	28.80	-1.0							
4.7mb (14 obs.)								APE	5.74	127	ePn	05	48.20	-0.9		BOB	8.65	302	P	06	29.50	-0.5							
ALBANIA (391)								ARV	5.84	301	P	05	50.30	-0.1		ELL	8.81	113	eP	06	36.70	4.5X							
ML 5.2 (ATH), 4.5 (THE). MD 4.5											eSn	06	53.60			OGA	8.87	317	iPc	06	32.50	-0.5							
(TTG). Felt (III) at Skopje,								ZAG	5.85	333	ePn	05	52.00	1.5		KSL	8.92	118	ePn	06	34.20	0.7							
Yugoslovio.											iSn	07	01.10			MDI	8.96	308	P	06	33.00	-1.1							
											iSg	07	37.50						eSn	08	08.20								
QHR	0.86	60	iPgd	04	37.10	-1.3		ASS	5.85	296	P	05	51.30	0.7		BCK	8.98	108	iP	06	36.50	2.1							
			iSg	04	50.00						eSn	06	55.00			SQTA	9.01	319	iPc	06	34.30	-0.6							
KEK	0.97	181	ePn	04	40.50	0.4		VBY	5.86	327	ePnd	05	51.40	0.7			0.4s		99.20nm			6.5mb X							
			eSn	05	03.00						iSn	06	59.00						i	06	35.40								
FNA	1.19	84	ePbd	04	42.50	-1.5		PTJ	5.93	333	ePn	05	50.90	-0.8					i	06	43.40								
IGT	1.21	161	ePb	04	44.70	0.4					e	06	40.00						i	06	52.40								
ULC	1.35	342	iPgc	04	49.00	2.4					eSn	06	59.00						i	08	04.20								
			eSg	05	09.00			TNR	5.94	32	ePc	05	53.00	1.1					iS	08	16.20								
LCI	1.46	257	Pd	04	48.80	0.7		CMP	5.98	38	ePc	05	57.00	4.6X					i	08	24.80								
BDV	1.76	336	iPnc	04	54.50	2.0		DMK	6.10	77	iP	05	52.10	-2.0		PCP	9.16	299	P	06	35.29	-1.7							
			eSn	05	21.00			RIY	6.13	321	iPnd	05	54.30	-0.1		OSS	9.22	314	ePd	06	37.70	-0.2							
SKO	1.78	43	iPn	04	53.50	0.7					iSn	07	03.70			FIN	9.27	296	P	06	36.73	-1.8							
1.1s ******nm											iSg	07	40.20			CKI	9.30	298	P	06	37.00	-1.8							
			i	04	55.00			EDC	6.15	90	eP	05	55.70	0.9					eSn	08	16.10								
			iSn	05	14.50			IZM	6.19	109	iP	05	56.20	0.7		KRA	9.38	1	eP	06	41.10	1.3							
			iSg	05	17.50			SMG	6.21	116	ePn	05	56.50	0.9					e	06	45.30								
TTG	1.80	347	iPnc	04	55.30	2.3		VAM	6.30	145	ePn	05	55.00	-2.0					e	06	49.80								
			eSn	05	20.50			RSM	6.35	303	P	05	57.40	-0.2					e	08	57.00								
PVY	1.92	4	ePn	04	57.50	2.6		CEY	6.41	324	ePn	05	58.00	-0.5		VDL	9.48	311	ePd	06	41.80	0.3							
			eSn	05	22.50						eSn	07	12.00			ROB	9.53	296	P	06	40.31	-1.8							
GRG	1.98	81	ePnd	04	56.30	0.5		CRE	6.54	299	P	06	00.60	0.1		KHC	9.53	334	P	06	40.00	-2.0							
BRT	1.99	277	P	04	58.50	2.7					eSn	07	10.00						e	06	53.40								
HCY	2.02	331	ePn	04	57.70	1.4		CTT	6.55	83	eP	06	00.00	-0.5		VAI	9.57	306	P	06	40.90	-1.7							
			eSn	05	27.00			MLR	6.58	41	ePd	06	02.00	1.0					eSn	08	24.00								
LIT	2.13	105	ePnc	04	58.50	0.7		LJU	6.60	326	ePnc	06	00.60	-0.5		TMA	9.63	308	ePd	06	41.90	-1.6							
			eSn	05	26.90						eSn	07	16.60			SBF	9.71	293	Pn	06	45.00	0.4							
VAY	2.18	72	iPnd	04	58.80	0.2		TRI	6.69	321	ePnd	06	01.30	-1.1					Sn	08	29.80								
IVA	2.19	2	ePn	05	02.40	3.6X					iSn	07	17.00			STV	9.89	295	P	06	46.67	-0.4							
			eSn	05	29.00			MAO	6.72	288	P	06	03.40	0.4		8BTK	9.94	91	eP	06	49.00	1.3							
NKY	2.22	344	ePn	05	00.60	1.4		SFI	6.73	301	P	06	03.40	0.4		ORX	9.96	304	P	06	44.11	-3.9X							
			eSn	05	30.00			PGD	6.80	301	P	06	04.50	0.4		LLS	9.97	312	ePd	06	47.70	-0.5							
BAI	2.28	282	Pd	05	01.00	1.1					eSn	07	17.20			SAX	10.00	315	ePd	06	49.00	0.3							
KNT	2.39	77	ePnc	05	01.80	0.2		VOY	6.87	323	iPnc	06	04.20	-0.8		PRU	10.02	340	ePc	06	47.80	-0.8							
			eSn	05	33.00						eSn	07	24.80				Z	13s	2.30um										
THE	2.40	90	ePn	05	02.00	0.3		ITU	6.99	84	eP	06	07.00	0.4			N	15s	2.90um										
			eSn	05	33.30			ISK	7.02	84	iP	06	07.20	0.1			E	15s	4.30um										
BRY	2.41	337	iPn	05	07.20	5.2X		CIN	7.13	113	eP	06	10.00	1.4					e	06	55.30								
BRY	2.41	337	ePn	05	04.00	2.0		TLB	7.21	54	eP	06	10.00	0.3		DOI	10.02	297	P	06	48.10	-0.8							
			eSn	05	36.00			SRO	7.21	352	e(Pn)	06	14.00	4.3X		PZZ	10.12	296	P	06	49.24	-1.1							
AGG	2.55	130	ePn	05	05.60	1.8			1.2s		0.30nm			3.3mb X		MMK	10.16	306	ePd	06	47.80	-3.1X							
			eSn	05	38.10						i	06	16.40			FRF	10.20	291	Pn	06	50.60	-0.6							
VLS	2.57	166	iPnd	05	04.00	-0.1					i	06	31.60			RSP	10.23	300	P	06	48.72	-3.1X							
ORI	2.64	258	P	05	06.70	1.5					i	07	43.90			LMR	10.25	289	Pn	06	52.00	0.1							
PLE	2.67	353	ePn	05	08.50	2.9X					i	08	30.20			LRG	10.38	290	Pn	06	54.00	0.3							
			eSn	05	41.50			VRI	7.23	42	ePd	06	11.50	1.4		LSD	10.42	301	P	06	50.16	-4.3X							
SOH	2.69	86	ePnc	05	06.60	0.6		PSZ	7.24	0	iP	06	12.10	1.9		KSP	10.46	348	eP	07	01.80	7.1X							
TDS	2.85	250	P	05	09.70	1.6		YLV	7.27	88	eP	06	01.20	-9.5X		RRL	10.47	298	P	06	53.85	-1.3							
			eSn	05	44.10			GBZT	7.32	86	eP	06	11.00	-0.2		DIX	10.51	305	ePd	06	54.00	-1.8							
SRS	2.90	80	ePn	05	08.80	0.0		SOP	7.38	343	eP	06	13.40	1.3		BNI	10.58	299	P	06	55.90	-0.7							
			eSn	05	44.80			HRT	7.49	86	eP	06	12.20	-1.5		LPG	10.69	301	Pn	06	55.00	-3.3X							
NEO	2.96	117	ePn	05	10.10	0.5		PII	7.54	297	P	06	13.60	-0.7					Sn	08	48.00								
			eSn	05	57.00			CFR	7.60	51	eP	06	23.00	7.9X		LPL	10.71	301	Pn	06	56.00	-2.5							
PAIG	3.05	103	ePn	05	10.90	0.0		MME	7.60	301	P	06	14.90	-0.5		SLE	10.77	315	ePd	06	57.90	-1.1							
OUR	3.20	95	ePnc	05	13.00	0.0					eSn	07	37.30			EMS	10.81	304	ePd	06	58.50	-1.3							
GRI	3.21	236	P	05	13.72	0.5		BDI	7.61	299	P	06	14.20	-1.3		GRF	10.85	329	eP	06	57.00	-3.1X							
SGO	3.43	269	P	05	17.90	1.6					eSn	07	35.70						e(S)	08	57.00								
MVAR	3.54	316	iPn	05	18.10	0.3		ZST	7.76	346	ePn	06	17.40	0.0		BRG	10.98	340	ePn	07	01.00	-0.8							
			iSn	05	58.00						i	06	25.80						i	07	21.00								
BSS	3.80	273	P	05	24.10	2.4					i	06	44.80						i	09	33.00								

			i	09	43.00	
			i	10	04.00	
MOX	11.49	333	ePn	07	09.00	0.2
CLL	11.63	338	(Pn)	07	13.00	2.3
			e	10	39.00	
BSF	11.75	312	Pn	07	09.80	-2.6
LFK	12.09	112	eP	07	16.00	-1.0
TNS	12.42	324	ePc	07	20.10	-1.3
			eS	09	31.70	
SMF	13.00	303	Pn	07	25.80	-3.4X
			Sn	09	41.80	
LBF	13.04	304	Pn	07	27.00	-2.8
LOR	13.23	305	Pn	07	29.40	-2.8
			Sn	09	47.60	
AVF	13.37	303	Pn	07	30.20	-3.8X
SSF	13.37	304	Pn	07	30.40	-3.6X
BGF	13.61	301	Pn	07	34.60	-2.6
			Sn	09	56.00	
MEM	13.83	320	P	07	40.40	0.5
ENN	13.97	321	eP	07	42.00	0.2
	0.8s		18.00nm		4.9mb	
DOU	14.22	317	P	07	45.40	0.2
	0.7s		14.40nm		4.8mb	
WTS	14.42	326	eP	07	56.00	8.3X
	0.8s		7.00nm		4.4mb	
HRI	14.71	115	eP	07	49.00	-2.8
BURJ	15.36	118	Pd	07	57.00	-3.3X
SALJ	15.42	119	Pd	07	56.90	-4.1X
DSI	15.50	121	eP	07	58.00	-3.9X
KFNJ	15.51	120	Pc	07	58.00	-4.1X
LISJ	15.78	122	Pc	08	02.00	-3.5X
MBH	16.41	127	eP	08	04.00	-9.6X
TOL	18.22	275	eP	08	39.30	3.0X
ASMO	18.59	267	iPd	08	43.50	2.5
APHE	18.67	266	iPc	08	44.00	2.0
MSL	18.74	96	ePd	08	42.00	-0.7
			eS	12	23.00	
AAPN	18.89	267	iPc	08	46.00	1.3
ATEJ	18.93	266	iPc	08	42.20	-3.0X
ALOJ	18.94	267	iPc	08	46.00	0.7
UPP	19.25	357	iP	08	49.00	0.3
			i	08	50.70	6km
MAL	19.29	266	iPc	08	50.00	0.5
HFS	19.85	351	eP	08	54.00	-1.5
	0.5s		5.80nm		4.1mb	
Z	15s		0.44um			
			LR	15	53.00	
NUR	20.08	7	eP	09	00.00	2.1
	0.7s		18.70nm		4.5mb	
			i	09	08.80	33kmX
			e	17	04.00	
			e	18	32.00	
TAB	20.64	89	eP	09	02.00	-2.1
SLY	20.80	96	ePc	09	07.00	1.4
			eS	12	52.50	
BHD	20.94	103	ePc	09	06.00	-1.0
			eS	12	53.00	
NB2	21.06	348	P	09	09.20	1.1
	0.7s		9.90nm		4.3mb	
EKA	21.10	322	Pd	09	08.20	-0.3
	0.8s		25.30nm		4.6mb	
SOD	27.01	6	eP	10	07.00	1.6
			e	10	19.00	47kmX
KEV	29.38	5	eP	10	31.00	4.2X
MAIO	31.18	85	eP	10	43.00	-0.2
BCAO	36.10	182	ePc	11	24.70	-1.1
	0.2s		12.00nm		5.4mb	
			i	11	28.10	11km
LKO	38.32	223	P	11	43.88	-0.5
	0.6s		16.50nm		5.0mb	
TIC	40.51	220	P	12	02.10	-0.5
KIC	40.62	219	P	12	03.00	-0.5
	0.9s		11.00nm		4.5mb	
LIC	40.88	220	P	12	05.24	-0.4
	1.1s		33.00nm		5.0mb	
FRB	53.75	327	eP	13	43.00	-2.9X
DMN	54.45	82	P	13	48.80	-3.1X
PKI	54.70	82	P	13	50.60	-3.2X
	0.8s		13.00nm		5.0mb	
GUN	54.87	81	P	13	51.20	-4.0X
SCH	56.25	316	eP	14	04.00	-0.3
LSA	57.87	77	P	14	13.00	-3.7X
GTA	59.15	63	eP	14	22.00	-3.1X
MBC	60.48	350	eP	14	33.00	-0.6
HHC	66.08	56	eP	15	12.00	0.8
CD2	66.37	69	eP	15	10.70	-2.3
XAN	68.19	63	P	15	22.20	-2.3

KMI	68.96	75	eP	15	30.50	0.9
CHG	69.88	82	eP	15	32.00	-3.0X
CHTO	69.88	82	P	15	31.80	-3.2X
			pP	15	34.70	9km
YKA	70.86	339	eP	15	39.20	-1.1
	1.0s		2.80nm		4.3mb	
RSON	71.95	322	P	15	46.00	-1.0
	0.5s		3.78nm		4.7mb	
CN2	72.58	47	eP	15	49.00	-1.9
IMA	73.47	357	eP	15	56.50	0.6
BW06	85.17	325	P	16	59.90	0.2
			e	17	07.20	23kmX
DZM	146.28	67	iPKPc	24	07.40	4.1X
	S.D. = 1.3		on 175 of 215 obs.			

---

* MAY 14, 1990 17h 30m 59.99± 1.92s
40.653 N ±11.3km 19.992 E ±18.5km
DEPTH = 5.0km (geophysicist)
ALBANIA (391)
ML 3.0 (THE), 2.9 (SKO).

OHR	0.76	53	iPg	31	14.30	-1.1
	0.5s		315.00nm			
			iSg	31	27.10	
KEK	0.95	189	ePb	31	19.10	0.5
FNA	1.06	82	ePb	31	19.40	-1.1
			eSb	31	36.70	
IGT	1.15	167	ePb	31	22.60	0.6
SKO	1.71	39	iPn	31	31.60	1.0
			iSg	31	55.00	
GRG	1.85	80	ePn	31	33.90	1.2
			eSn	32	00.10	
LIT	1.99	105	ePn	31	35.70	1.1
VAY	2.06	70	ePn	31	35.00	-0.7
KNT	2.26	76	ePn	31	37.70	-0.9
AGG	2.43	131	ePn	31	44.60	3.6X
VLS	2.52	169	ePb	31	40.20	-2.0
SOH	2.56	85	ePn	31	44.20	1.3
NEO	2.82	117	ePn	31	50.40	3.7X
	S.D. = 1.3		on 11 of 13 obs.			

MAY 14, 1990 17h 48m 00.13± 0.46s
40.653 N ± 4.8km 19.909 E ± 4.9km
DEPTH = 5.0km (geophysicist)
ALBANIA (391)
ML 3.5 (SKO), 3.0 (TTG). MD 3.5 (ATH).

OHR	0.82	56	iPg	48	14.70	-1.7
			iSg	48	27.60	
KEK	0.94	185	ePg	48	20.40	1.8
ULC	1.40	339	iPgd	48	26.20	-0.1
			eSg	48	46.50	
LCI	1.52	259	P	48	27.10	-0.9
			eSg	48	44.50	
SKO	1.75	41	iPn	48	31.80	0.5
	0.5s		121.00nm			
			i	48	32.00	
			iSn	48	52.50	
			iSg	48	55.60	
BDV	1.82	334	ePn	48	32.20	-0.1
			eSn	48	57.00	
TTG	1.84	345	ePn	48	32.90	0.3
			eSn	48	58.00	
PVY	1.94	1	ePn	48	35.50	1.3
			eSn	49	01.50	
LIT	2.05	105	ePc	48	36.60	0.9
BRT	2.07	277	P	48	36.60	0.7
HCY	2.08	330	ePn	48	36.00	-0.1
			eSn	49	02.50	
VAY	2.12	71	ePn	48	35.50	-1.2
IVA	2.22	360	ePn	48	39.80	1.6
			eSn	49	10.50	
NKY	2.26	343	ePn	48	40.00	1.1
			eSn	49	10.30	
BAI	2.35	282	P	48	38.50	-1.5
VLS	2.53	168	ePb	48	41.00	-1.5
ORI	2.71	259	P	48	46.10	1.0
NEO	2.88	117	ePn	48	50.10	2.5X
MGR	3.36	263	P	48	54.80	0.4
ITM	3.81	155	ePn	49	01.00	0.2
VLI	4.59	148	ePn	49	11.00	-0.8
SDI	4.72	285	Pc	49	13.50	-0.2
			eSn	50	03.70	
MNS	5.70	290	P	49	26.30	-1.2
VOY	6.94	323	ePn	49	42.10	-2.9
			e(Sn)	50	57.70	

S.D. = 1.3 on 23 of 24 obs.

? MAY 14, 1990 18h 16m 38.51± 3.47s
40.769 N ±13.1km 20.470 E ±25.2km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.5 (SKO).

OHR	0.42	36	ePg	16	47.00	0.0
			eSg	16	59.90	
FNA	0.69	88	eP	16	52.00	-0.3
SKO	1.41	31	ePn	17	04.50	-0.3
			iSg	17	28.00	
LIT	1.68	113	ePc	17	08.60	-0.1
VAY	1.68	70	ePn	17	09.40	0.7
	S.D. = 0.6		on 5 of 5 obs.			

? MAY 14, 1990 18h 18m 09.43± 7.82s
18.145 N ±49.7km 60.008 W ±42.9km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.6 (FDF).

BPA	2.08	238	eP	18	41.94	-0.7
			S	19	00.60	
SEG	2.25	220	eP	18	44.78	-0.3
			S	19	07.80	
MGH	2.54	236	eP	18	49.60	0.3
			S	19	15.50	
MGG	2.54	210	eP	18	49.32	0.0
			S	19	15.00	
PAG	2.64	217	eP	18	51.50	0.8
			S	19	18.00	
SKI	2.73	253	eP	18	52.83	0.2
			eS	19	20.65	
BBL	2.96	209	eP	18	55.10	-0.2
CRM	3.48	195	eP	19	02.75	0.1
			S	19	38.90	
FDF	3.57	198	iPc	19	03.40	-0.5
			S	19	39.80	
MVM	3.67	194	iPc	19	05.36	0.1
			S	19	44.80	
BIM	3.75	196	eP	19	06.57	0.2
	S.D. = 0.4		on 11 of 11 obs.			

% MAY 14, 1990 19h 01m 41.46± 0.59s
42.871 N ± 4.8km 12.956 E ± 8.4km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.29	313	P	01	47.20	-0.2
			eSg	01	51.50	
MNS	0.53	203	Pc	01	51.90	-0.1
			eSg	02	00.90	
AQU	0.61	147	P	01	54.00	0.3
ARV	0.63	359	Pc	01	53.40	-0.6
			eSg	02	03.50	
CRE	1.05	316	P	02	02.30	0.4
RSM	1.12	341	P	02	03.70	0.8
SDI	1.33	151	P	02	06.30	-0.2
PGD	1.35	319	P	02	06.60	-0.3
	S.D. = 0.6		on 8 of 8 obs.			

MAY 14, 1990 19h 15m 48.23± 1.37s
34.549 N ±11.0km 25.232 E ± 7.6km
DEPTH = 21.1 ± 9.5 km
3.5mb (1 obs.)
CRETE (370)

VAM	1.20	316	ePn	16	10.00	0.1
			eSn	16	26.50	
APE	2.53	5	ePn	16	28.50	-0.4
VLI	2.86	320	ePn	16	34.40	0.9
SMG	3.41	22	ePn	16	40.70	-0.6
YER	3.58	43	iPn	16	42.80	-1.0
ITM	3.75	315	ePn	16	47.50	1.2
CIN	3.82	36	eP	16	50.00	2.8
KSL	3.89	65	ePn	16	49.10	1.0
IZM	4.18	22	ePn	16	51.30	-1.0
ELL	4.40	59	ePn	16	56.90	1.4
KHL	5.11	41	ePn	17	06.00	0.4
BCK	5.22	55	ePn	17	08.50	1.3
EZN	5.34	9	iPn	17	06.00	-2.7
LIT	5.96	339	eP	17	17.90	0.5
ALT	5.96	40	ePn	17	17.00	-0.6
LFK	6.86	82	ePn	17	29.70	-0.5
VAY	7.08	344	eP	17	35.40	2.2

14d 19h

OHR	7.43	333	eP	17	36.80	-1.4
SKO	7.99	339	eP	17	49.00	3.1X
BBTK	8.00	46	eP	17	46.00	-0.2
HRI	8.83	95	eP	17	58.00	0.3
DSI	9.02	106	eP	17	59.00	-1.2
MBH	9.46	118	eP	18	07.00	0.7
			e(S)	19	48.00	
CHTO	66.41	83	eP	26	48.80	10.6X
YKA	78.05	342	eP	27	44.20	-2.2
	0.4s		0.20nm			3.5mb
	S.D. = 1.4		on 23 of 25 obs.			

---

* MAY 14, 1990 19h 57m 42.47± 0.55s
36.743 N ±13.5km 72.805 E ±10.4km
DEPTH = 33.0km (normal)
4.1mb (4 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	8.16	218	eP	59	49.20	7.4X
NDI	8.85	154	eP	00	00.00	8.9X
			eS	02	38.10	
MAIO	10.72	272	eP	00	17.00	0.1
			eS	02	17.00	
DMN	13.83	128	P	00	59.50	0.9
	0.4s		7.00nm			4.8mb X
PKI	14.05	127	P	01	00.80	-0.8
	0.6s		15.00nm			4.9mb X
GUN	14.12	125	P	01	02.40	-0.2
	0.5s		9.00nm			4.7mb X
HFS	43.77	322	eP	05	46.20	-0.1
	0.7s		3.50nm			4.3mb
NB2	45.06	323	P	05	56.40	-0.3
	0.7s		1.00nm			3.8mb
MBC	67.02	3	eP	08	34.00	0.3
	0.4s		1.00nm			4.3mb
YKA	80.93	3	eP	09	54.50	0.1
	0.8s		1.00nm			3.9mb
	S.D. = 0.6		on 8 of 10 obs.			

? MAY 14, 1990 20h 24m 37.31± 6.55s
59.754 N ±21.7km 9.237 E ±48.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.8 (BER).

BLS1	1.28	255	iP	25	00.68	-0.4
			eS	25	16.60	
ODD1	1.33	278	eP	25	01.67	-0.2
			iS	25	18.87	
BER	2.06	290	eP	25	12.44	0.2
			eS	25	38.04	
HYA	2.07	314	iP	25	11.91	-0.6
			eSg	25	37.05	
KMY	2.11	257	iP	25	13.24	0.2
			eS	25	40.50	
ASK	2.15	292	iP	25	14.48	0.8
			eS	25	38.85	
	S.D. = 0.7		on 6 of 6 obs.			

MAY 14, 1990 21h 34m 04.20± 0.13s
35.925 S ± 2.9km 71.415 W ± 4.3km
DEPTH = 75.9km (geophysicist)
5.8mb (48 obs.)
CENTRAL CHILE (136)
Slight damage (VI) at Talca.
Felt (VI) at Chillan,
Constitucion, Linares, San
Carlos and San Fernando. Also
felt (V) at Concepcion, (IV) at
Santiago and (III) at
Valparaiso. Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=177 Dip=80 Slip= 146
NP2: 274 57 12
Principal Axes:

T		Plg=31	Azm=130
P		15	230

Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 83 No. of sto: 7
Moment Tensor; Scale 10**18 Nm

Mrr= 0.40		Mtt=-0.53	
Mff= 0.13		Mrt= 0.03	
Mrf=-1.19		Mtf= 1.56	

Principal axes:

T	Val= 1.98	Plg=32	Azm=121
N	0.09	51	340
P	-2.06	19	224

Best Double Couple:Mo=2.0*10**18
NP1:Strike=267 Dip=52 Slip= 11
NP2: 170 82 142
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C M.W.: 10S, 16C
Centroid Locotion:
Origin Time 21:34: 9.9 0.2
Lat 35.89S 0.02 Lon 71.34W 0.02
Dep 92.0 1.6 Half-duration 5.0
Moment Tensor; Scale 10**18 Nm

Mrr= 0.58	0.03	Mtt=-0.59	0.03		
Mff= 0.01	0.03	Mrt=-0.16	0.03		
Mrf=-1.46	0.03	Mtf= 1.06	0.03		

Principal Axes:

T	Val= 2.04	Plg=44	Azm=115	
N	-0.32	37	339	
P	-1.72	24	230	

Best Double Couple:Mo=1.9*10**18
NP1:Strike=273 Dip=40 Slip= 19
NP2: 168 78 128

LNV	1.96	0	iPd	34	37.50	1.5
CHCH	2.08	18	iPd	34	39.00	1.2
TACH	2.30	10	iPd	34	41.70	1.0
PCH	2.42	18	iPd	34	44.00	1.6
LCCH	2.45	357	iPd	34	42.50	-0.2
SAN	2.54	14	iPd	34	45.20	1.1
			iS	35	17.00	
FCH	2.75	20	iPd	34	49.00	1.7
PEL	2.84	12	iPd	34	49.40	1.2
IHA	2.90	356	iPc	34	48.50	-0.5
			i(S)	35	07.20	
ROCH	2.96	7	iPd	34	51.00	0.9
JACH	3.31	12	iPd	34	55.50	0.7
RTBS	4.56	22	ePc	35	14.00	1.9
RTCV	4.71	31	ePd	35	15.50	1.2
ZON	4.93	28	iPd	35	18.70	1.3
RTCB	4.93	27	iPd	35	18.50	0.9
CFA	5.05	32	iPd	35	19.50	0.3
RTLL	5.20	29	iPc	35	21.20	0.0
ARE	19.38	360	iPd	38	26.90	-0.2
LPB	19.54	10	Pd	38	25.00	-3.9X
Z	16s		28.28um			
			LR	42	04.00	
ZOBO	19.79	9	Pd	38	31.20	-0.5
			LR	42	18.00	
SIV	21.89	28	Pd	38	51.40	-1.0
PT03	22.19	349	iPc	38	56.20	0.9
PT10	24.27	347	iPc	39	14.50	-1.0
PT08	24.31	348	iPd	39	15.90	-0.4
NNA	24.33	347	iPd	39	15.00	-1.1
	0.8s		261.19nm			5.7mb
			eS	43	40.00	
AIA	29.67	174	eP	40	05.50	1.1
VC1	35.70	348	eP	40	58.80	0.9
QTO	36.15	348	eP	41	02.00	0.5
QUR	36.18	348	eP	41	02.60	0.8
GGP	36.19	348	eP	41	03.40	1.4
CAYA	36.34	349	P	41	03.80	0.6
COTA	36.65	348	eP	41	07.00	1.2
PSO	37.33	350	eP	41	11.50	0.1
BOG	40.41	356	eP	41	38.00	1.1
			iS	47	40.00	
BMG	42.79	358	iPc	41	52.50	-3.6X
CAI	42.92	55	iPc	41	56.80	-0.3
SDV	44.57	1	iPd	42	09.50	-1.1
UPA	45.31	349	iPd	42	16.50	0.2
	0.5s		63.38nm			5.7mb
TOV	45.49	2	eP	42	17.00	-0.7
PLAV	45.70	5	iPc	42	18.50	-1.1
OLLA	45.90	6	iPd	42	19.80	-1.2
GUAC	46.03	6	iP	42	21.60	-0.5
LLAV	46.35	6	iP	42	22.50	-2.1
CAR	46.37	6	eP	42	26.00	1.2
MDRO	46.63	4	eP	42	25.00	-1.8
CUM	46.64	10	iPc	42	25.50	-1.2
			i	44	09.50	571kmX
SVB	49.86	13	eP	42	50.10	-1.6
SLB	50.44	13	eP	42	55.35	-0.8
BIM	51.11	13	eP	42	59.90	-1.3
MVM	51.18	13	eP	43	00.05	-1.7
FDF	51.31	13	eP	43	00.57	-2.2
CRM	51.37	13	eP	43	01.62	-1.5
B8L	52.02	12	eP	43	03.50	-4.6X
PAG	52.49	12	eP	43	08.00	-3.6X
MGH	53.08	11	eP	43	12.00	-3.9X
BPA	53.45	11	eP	43	14.00	-4.6X
SKI	53.60	10	eP	43	18.96	-0.7
MGP	53.79	5	P	43	18.60	-2.5
PORP	53.87	6	P	43	19.50	-2.2
SPA	54.26	180	iPc	43	25.20	0.8
	0.8s		200.42nm			6.2mb
			i	50	57.80	
RKT	55.89	265	eP	43	28.00	-8.5X
	1.4s		145.00nm			5.8mb
SBA	61.30	192	iPc	44	14.90	1.5
			S	52	34.80	
TBI	67.37	257	iP	44	53.50	0.0
	1.1s		80.00nm			5.6mb
HBF	69.01	352	P	45	00.60	-2.7
SGS	69.28	352	P	45	03.30	-1.7
RUV	70.00	265	iP	45	10.30	0.5
	1.3s		150.00nm			5.8mb
			ipP	45	41.40	125kmX
TVO	70.11	262	iP	45	11.20	0.6
	1.3s		250.00nm			6.0mb
VAH	70.17	265	iP	45	11.20	0.3
	1.3s		160.00nm			5.8mb
			ipP	45	42.60	127kmX
TPT	70.30	265	iP	45	12.20	0.5
	1.3s		140.00nm			5.7mb
			ipP	45	43.40	126kmX
PPN	70.39	262	iP	45	12.60	0.4
	1.3s		165.00nm			5.8mb
PRM	70.39	350	P	45	10.00	-1.8
PAE	70.44	262	iP	45	13.00	0.5
	1.3s		250.00nm			6.0mb
JSC	70.44	351	P	45	10.50	-1.6
PPT	70.48	262	iP	45	13.40	0.6
	1.3s		480.00nm			6.3mb
PMO	70.51	265	iP	45	13.20	0.2
	1.3s		105.00nm			5.6mb
LHS	70.59	352	P	45	10.60	-2.3
AFR	70.66	262	iP	45	14.20	0.4
	1.3s		110.00nm			5.6mb
MAW	71.19	163	iPc+	45	16.80	0.5
	0.9s		226.00nm			6.1mb
MBO	71.77	56	iPc	45	20.50	0.1
TUH	71.79	118	iPc	45	20.50	0.0
	1.0s		280.00nm			6.1mb
TKL	72.14	349	P	45	20.00	-2.3
PWLA	72.23	346	P	45	21.00	-1.8
RSCP	72.37	348	P	45	21.40	-2.3
			pP	45	42.50	80kmX
UYO	72.98	340	iPc	45	26.30	-0.9
BLA	73.25	353	P	45	27.00	-1.7
	0.8s		60.40nm			5.6mb
NAV	73.39	352	P	45	28.00	-1.6
OLY	73.48	343	P	45	28.00	-2.1
CVL	73.82	354	P	45	31.20	-0.8
NA2	73.91	355	P	45	31.40	-1.1
POF	74.44	115	iPc	45	37.50	1.6
MEO	74.77	337	iPd	45	36.30	-1.3
LIC	74.91	71	P	45	38.60	-0.2
	1.1s		526.50nm			6.4mb
DRV	74.94	192	eP	45	38.20	0.0
TIC	75.18	70	P	45	40.62	0.2
	0.9s		360.50nm			6.3mb
KIC	75.22	71	P	45	40.50	-0.1
	1.1s		728.50nm			6.5mb
FVM	75.62	345	P	45	40.50	-1.8
	0.8s		121.21nm			5.9mb
			pP	46	02.50	83kmX
PNJ	76.50	358	iP	45	47.80	0.7
			(pP)	46	09.10	80kmX
			PcP	46	11.70	
			i	46	23.60	
SCP	76.58	355	ePc	45	46.91	-0.7
			epPd	46	07.60	77kmX
			esP	46	16.21	
LKO	76.61	68	Pc	45	48.38	-0.1
	1.0s		1039.50nm			6.7mb
TBR	76.74	358	P	45	48.00	-0.5
ALQ	77.71	331	eP	45	54.00	-0.3
	1.0s		72.50nm			5.6mb
Z	22s		3.15um			5.6Msz

			epP	46	15.80	82kmX				pP	47	03.00	75kmX	CEY	112.07	49	e(PKP)	52	32.40	0.4
			esP	46	25.00		IMW	87.19	333	P	46	43.20	0.0	BHG	112.11	46	ePKP	52	32.20	0.2
			eS	55	40.00		BKS	87.21	322	ePc	46	45.40	2.4		1.1s		29.00nm			
ANMO	77.71	331	P	45	55.10	0.8		Z 20s		1.90um			5.5Msz	GRF	112.13	44	ePKP	52	32.80	0.8
	1.0s	67.50nm			5.5mb			N 20s		2.00um					Z 22s		1.00um			5.4Msz
			pP	46	16.00	78kmX		E 20s		1.10um							e(PP)	53	14.00	
HRV	78.06	360	ePc	45	56.61	0.9				i	47	06.80	78kmX	LJU	112.28	49	e(PKP)	52	26.50	-5.9X
			ePPd	46	17.46	78kmX				iS	57	00.00		MOX	112.81	43	ePKP	52	34.00	0.8
			esPd	46	25.08					eLQ	10	22.40		PTJ	113.09	49	ePKP	52	33.60	-0.4
FRS	78.14	118	iPc	45	57.20	0.5				eLR	15	18.00		INK	113.64	339	ePKP	52	33.00	-1.3
	0.8s	74.63nm			5.7mb		BRK	87.22	322	eP	46	44.10	1.1	CLL	113.90	43	iPKP	52	35.90	0.6
WEGH	78.15	74	eP	45	57.00	0.0	ORV	88.16	324	eP	46	48.50	1.0		1.3s		32.00nm			
LEGH	78.30	74	eP	45	58.00	0.2	RSON	88.62	346	P	46	47.90	-1.6		Z 22s		2.00um			5.7Msz
TEGH	78.44	74	eP	45	59.00	0.5	LRM	89.39	333	eP	46	53.60	0.0				ePP	53	26.00	
KUK	78.49	74	eP	45	51.40	-7.4X				e	47	17.00	86kmX				PKKP	03	24.00	
KOGH	78.52	74	eP	46	00.00	1.0	WDC	89.46	324	eP	46	53.40	-0.3	PRU	114.15	45	ePdiff	49	04.00	19.2X
SHGH	78.58	74	eP	46	00.50	1.2	TIO	89.69	51	iPc	46	56.50	1.3	BRG	114.23	44	iPKPd	52	36.00	0.0
DLA	78.95	352	P	45	59.05	-1.6				i	47	19.00	82kmX		1.0s		26.00nm			
LDN	79.09	353	P	46	00.00	-1.4	SCH	90.46	.3	eP	46	57.00	-1.0		Z 20s		1.00um			5.4Msz
ELF	79.26	353	P	46	01.00	-1.3	BCAO	92.53	86	iPc	47	09.04	0.5		N 20s		1.00um			
GLA	79.74	324	eP	46	06.00	0.8		1.0s	105.00nm				6.2mb		E 20s		1.00um			
HBVT	79.92	359	P	46	05.60	-0.2				epP	47	30.56	78kmX				e	53	08.00	
WNY	79.97	358	P	46	05.50	-0.6				i	48	32.20					i	53	36.00	
BNH	80.14	0	P	46	07.20	0.2				i	50	10.70					e	01	16.00	
RSNY	80.15	358	P	46	06.70	-0.3				iPP	50	47.61					ePKKP	03	23.80	
	0.8s	86.81nm			5.7mb					i	50	48.80					e	09	24.00	
			pP	46	28.00	79kmX	IFR	92.77	50	iPc	47	10.50	1.1				e	14	16.00	
BAR	80.33	323	eP	46	10.00	1.6	SES	92.79	336	eP	47	09.00	0.1	SOP	114.28	48	ePKP	52	34.90	-1.3
			e	46	29.00	70kmX				pP	47	31.00	80kmX	VAY	115.26	56	ePKP	52	38.00	-0.3
CHIE	80.90	46	iPc	46	11.90	0.5	NEW	93.20	331	P	47	09.80	-1.0	SRO	115.40	48	iPKP	52	37.40	-0.9
PLM	80.97	323	eP	46	13.00	1.1		1.1s	16.98nm				5.4mb				e	53	27.50	
			e	46	34.00	78kmX				pP	47	33.40	87kmX				e	53	36.50	
TPC	81.19	324	eP	46	14.00	1.2	NKM	93.89	48	iP	47	17.00	2.8	KSP	115.54	45	ePKP	52	38.20	-0.3
			e	46	35.00	78kmX	LON	93.92	328	P	47	14.00	-0.1				e	53	45.50	
PRY	81.31	117	iPd	46	11.70	-2.2				pP	47	35.20	77kmX	BUD	115.69	49	ePKP	52	38.00	-0.9
	1.2s	510.00nm			6.3mb		FFC	94.04	343	ePc	47	13.30	-1.1	MBC	115.91	349	ePdiff	48	53.50	1.5
GLD	81.49	334	P	46	15.00	0.5		0.9s	14.00nm				5.4mb	MBC	115.91	349	ePKP	52	38.00	-0.5
	1.1s	130.18nm			5.8mb		PNT	95.03	331	eP	47	21.00	1.9		0.6s		5.00nm			
GOL	81.50	334	P	46	14.60	0.0	MAL	95.34	48	iPd	47	22.00	1.2	DAG	117.06	12	ePKP	52	39.00	-1.7
	0.8s	83.33nm			5.7mb					iPP	51	14.00			0.8s		9.70nm			
TBT	81.64	46	ePc	46	15.50	0.2				iS	58	32.00		MEKA	117.09	190	ePKP	52	40.00	-2.2
RVR	81.74	323	eP	46	17.00	1.4	ATEJ	95.70	48	iPd	47	23.00	0.3	SPC	117.15	47	e(PKP)	52	41.70	-0.2
			e	46	38.00	78kmX	ALOJ	95.77	48	iPd	47	23.50	0.5	KRA	117.32	46	ePKPd	52	41.60	-0.3
PV09	81.86	331	P	46	17.00	0.5	AAPN	95.90	48	iPd	47	24.00	0.5		0.9s		54.00nm			
PAS	82.25	322	eP	46	19.41	1.1	APHE	95.92	48	iPd	47	24.50	0.8				e	53	04.20	
			ipPd	46	40.44	78kmX	EDM	95.95	336	eP	47	22.00	-1.3				e	53	49.00	
			esPc	46	48.88		ASMO	96.16	48	eP	47	25.50	0.8				e	01	29.00	
MWC	82.26	323	eP	46	20.00	1.4	EBR	100.90	47	ePdiff	47	47.00	1.0	NB2	117.36	33	PKP	52	41.20	-0.5
			e	46	41.00	78kmX	EPF	102.17	45	ePdiff	47	52.60	0.9		0.9s		18.90nm			
HBZ	82.45	229	P	46	21.50	2.1		1.4s	26.15nm				5.8mb	HFS	118.10	34	ePKP	52	41.00	-2.1
			(pP)	46	52.50	121kmX	LFF	103.57	44	ePdiff	47	58.20	0.4		0.9s		31.30nm			
CTFE	82.46	47	iPc	46	20.80	1.3		1.0s	20.00nm				5.9mb		Z 20s		1.14um			5.5Msz
SBB	82.52	323	eP	46	20.00	0.2	LPO	103.66	44	ePdiff	47	58.80	0.6				LR	32	56.00	
			e	46	41.00	78kmX		1.0s	18.00nm				5.9mb	TNR	118.21	52	ePKPc	52	43.00	-0.8
CBM	82.53	2	P	46	19.30	-0.1	YKA	104.04	341	ePdiff	47	57.70	-1.7	ELL	118.42	64	ePKP	52	45.20	0.6
GGC	82.57	47	eP	46	20.20	0.1		0.9s	3.20nm				5.3mb	CMP	118.56	53	ePKPd	52	45.00	0.5
MSU	83.10	329	P	46	23.60	0.7	MFF	104.09	42	ePdiff	48	00.20	0.2	KHL	118.81	62	ePKP	52	45.00	-0.2
			pP	46	45.50	81kmX		1.2s	23.80nm				6.0mb	BUC1	118.84	54	ePKP	52	44.00	-0.9
CLC	83.31	324	eP	46	25.00	1.2	RJF	104.22	44	ePdiff	48	01.00	0.3	MBH	119.12	73	ePKPd	52	44.00	-1.9
			e	46	46.00	77kmX		1.2s	17.85nm				5.9mb	CTT	119.19	58	iPKP	52	46.40	0.6
ABL	83.33	322	P	46	26.00	1.8	CAF	104.31	45	ePdiff	48	01.60	0.5	BCK	119.22	63	iPKP	52	46.50	0.5
			pP	46	46.40	75kmX		1.4s	21.80nm				5.9mb	MLR	119.23	53	iPKPd	52	45.50	-0.4
SYP	83.46	321	eP	46	26.00	1.3	GRR	104.79	41	ePdiff	48	03.00	-0.1	IMA	119.26	332	PKP	52	44.80	-0.5
			e	46	47.00	77kmX		1.0s	14.00nm				5.9mb	WRA	119.32	208	PKPc	52	45.60	-1.0
MSZ	83.46	218	P	46	25.00	0.5	LSF	104.80	43	ePdiff	48	03.40	0.2		1.0s		23.70nm			
ISA	83.61	323	eP	46	26.00	0.6		1.2s	17.85nm				6.0mb	WB5	119.37	208	ePKP	52	45.80	-0.9
			e	46	48.00	82kmX	TCF	105.20	44	ePdiff	48	05.20	0.1	ALT	119.53	61	ePKP	52	46.00	-0.6
CFTV	83.72	48	iPd	46	27.00	1.0		1.2s	10.40nm				5.7mb	UPP	119.83	36	iPKP	52	45.10	-1.2
BCH	84.03	322	P	46	29.50	2.0	BGF	105.71	44	ePdiff	48	07.80	0.5	VRI	119.88	53	ePKPd	52	46.00	-0.9
DUG	84.79	329	P	46	32.30	1.1		1.2s	19.35nm				6.0mb	TLB	120.26	55	ePKPd	52	47.50	-0.1
TNP	84.97	325	P	46	33.50	1.2	AVF	106.13	44	ePdiff	48	09.60	0.5	DSI	120.30	71	ePKP	52	48.00	-0.1
RSSD	85.00	337	P	46	32.70	0.4		1.0s	8.00nm				5.7mb	LFK	120.47	67	ePKP	52	47.20	-1.2
PRI	85.07	322	eP	46	33.70	1.0	SMF	106.32	44	ePdiff	48	10.40	0.4	CLI	120.49	52	ePKPc	52	42.00	-6.1X
FRI	85.27	323	eP	46	33.60	0.1		1.4s	34.85nm				6.2mb	CFR	120.56	54	ePKP	52	47.00	-1.2
PRS	85.58	322	eP	46	36.60	1.5	SSF	106.38	43	ePdiff	48	10.20	0.0	KFNJ	120.65	71	PKPc	52	48.90	0.1
LLA	85.59	322	eP	46	36.70	1.6		1.2s	16.35nm				6.0mb	SALJ	120.72	71	PKPc	52	49.10	0.1
BW06	85.71	333	P	46	35.20	-0.7	LBF	106.60	44	ePdiff	48	11.20	-0.1	BURJ	120.91	71	PKPd	52	48.70	-0.7
	1.2s	34.25nm			5.3mb		LOR	106.69	43	ePdiff	48	11.80	0.1	JARJ	121.02	71	PKPd	52	49.70	0.1
BUL	86.15	112	iPd	46	32.20	-6.4X	MEM	109.73	41	PKP	52	28.20	0.9	HRI	121.30	70	ePKP	52	51.00	0.9
	1.0s	440.00nm			6.5mb		ENN	109.77	41	ePKP	52	28.00	0.6	NANU	121.46	188	ePKP	52	50.00	-0.6
			i	56	54.30			0.9s	9.00nm					BBTK	121.72	61	iPKPc	52	51.00	0.2
KVN	86.16	325	P	46	38.40	0.3	WTS	110.90	40	ePKP	52	30.00	0.5	MBL	122.24	192	ePKP	52	51.20	-0.9
CMB	86.43	323	eP	46	40.00	0.7		0.9s	16.00nm						0.5s		17.00nm			
GCC	86.43	322	eP	46	40.70	1.4	TRI	111.65	49	ePKP	52	31.00	-0.1	KMSA	122.34	87	ePKPc	52	52.50	0.1
ARN	86.45	322	P	46	42.00	2.6				e	53	03.00		AFIF	123.09	83	ePKPc	52	53.70	-0.1
MHC	86.50	322	eP	46	41.10	1.3				e	02	29.00		NUR	123.37	36	iPKP	52	52.20	-0.9
PTI	86.86	331	P	46	42.30	0.8				eLR	27	40.00			1.0s		96.00nm			

14d 21h

SOD	125.63	28	iPKP	52	56.60	-0.7
KEV	126.08	25	iPKP	52	57.80	-0.3
RYD	126.14	84	iPKPc	52	59.50	-0.2
BHD	127.95	73	ePKPd	53	04.50	1.7
			e	54	54.50	
			eSKP	56	15.00	
			ePKS	56	25.00	
			ePPP	58	32.50	
			eSKS	59	49.00	
			eSKKS	01	53.00	
MSL	128.12	69	ePKPd	53	03.50	0.4
			ePP	55	05.50	
			eSKP	56	14.50	
			ePKS	56	24.50	
			e	00	45.00	
SLY	129.64	71	ePKPd	53	05.50	-0.4
			e	55	15.50	
			iSKP	56	20.50	
			e	57	01.00	
TA8	131.06	68	ePKP	53	08.00	-0.8
			i	56	25.00	
TEH	134.22	73	ePKPc	53	07.50	-7.4X
TRT	136.44	186	ePKPd	53	11.00	-8.5X
AAI	136.53	209	ePKP	53	07.20	-12.5X
GUA	140.52	245	ePKP	53	23.20	-3.7X
GUMO	140.59	245	ePKP	53	23.00	-4.0X
			e	53	27.00	
PJG	140.59	245	ePKP	53	23.00	-4.0X
MAIO	140.69	74	iPKPc	53	18.80	-8.0X
KOD	141.91	124	ePKP	53	24.00	-5.8X
PPI	143.01	166	ePKP	53	27.00	-4.4X
GBA	144.28	121	PKPd	53	31.90	-1.5
	0.7s	385.30nm				
POO	144.83	110	iPKPc	53	31.80	-2.6
	1.0s	740.00nm				
QUE	144.84	87	ePKPc+	53	34.00	-0.3
	1.2s	8375.00nm				
KGM	145.91	171	ePKPc	53	37.30	1.0
	0.6s	482.10nm				
TSI	146.43	162	ePKPd	53	38.00	0.9
TSM	147.26	198	ePKPc	53	39.00	0.6
DAV	147.35	213	ePKP	53	38.00	-0.6
HYB	147.63	117	ePKPc	53	39.00	0.0
	1.0s	740.00nm				
			i	53	41.50	
			i	54	05.50	
IPM	148.04	166	ePKPd	53	40.60	0.9
	1.0s	263.20nm				
KKM	149.45	195	ePKPd	53	42.20	0.2
	1.0s	279.80nm				
SNG	150.47	164	ePKP	53	42.70	-0.7
	1.7s	1715.39nm				
			e	16	36.10	
NDI	152.60	96	iPKPc	53	46.50	0.3
	1.0s	250.00nm				
KSH	154.04	72	PKPc	53	50.00	2.0
			epPKP	54	10.00	
			PP	57	43.00	
			SKKS	04	25.00	
BAG	157.82	212	ePKP	53	52.00	-1.6
DMN	158.42	106	PKP	53	53.70	-0.5
NST	158.46	157	iPKPd	53	55.50	1.4
			e	58	14.00	
PKI	158.64	106	PKP	53	53.80	-0.7
GUN	159.17	106	PKP	53	54.80	-0.3
LOE	160.58	160	ePKP	53	56.50	0.1
CHG	160.95	151	iPKPc	53	57.00	0.3
	1.2s	59.38nm				
CHTO	160.95	151	iPKPc	53	56.42	-0.3
			iPKPpb	54	39.13	
			ePP	58	20.09	
MDJ	161.81	305	ePKP	53	55.20	-1.6
WMQ	162.16	57	iPKPc	53	58.05	0.7
	Z 28s	2.90um			5.5MszX	
			epPKPd	54	21.39	
			ePKPpb	54	45.39	
			ePP	58	28.51	
LSA	164.09	108	iPKP	54	00.00	-0.2
CN2	164.87	306	PKPc	53	57.50	-2.3
	Z 24s	1.80um				
			pPKP	54	20.00	
QZH	166.07	221	ePKP	54	02.00	0.7
	Z 40s	1.60um				
			ePP	58	53.00	
			SKKS	05	28.00	
			SS	19	29.00	
GZH	166.56	199	PKP	54	02.00	0.2
			PP	58	50.00	
			SKKS	05	32.00	
SNY	166.92	301	iPKPc	54	00.00	-1.5
	Z 32s	2.90um				
	E 32s	1.70um				
			pPKP	54	24.00	
			SKKS	05	34.00	
KMI	168.12	153	PKPc	54	03.00	-0.2
SSE	168.43	249	PKP	54	02.80	-0.1
	Z 20s	1.00um				
	E 11s	0.40um				
			SKKS	05	40.00	
DL2	169.21	290	ePKP	54	02.00	-1.1
	7.0s	1200.00nm				
	N 30s	1.80um				
			SS	19	54.00	
GYA	170.42	170	iPKPc	54	04.00	-0.3
	5.0s	1700.00nm				
	Z 38s	3.20um				
			pPKP	54	28.00	
			i	55	21.00	
			PP	59	10.00	
			SKKS	05	51.00	
NJ2	170.64	249	iPKPc	54	04.00	-0.1
	Z 26s	0.80um				
			PP	59	13.00	
			SKKS	05	50.00	
			SS	20	02.00	
BJI	172.73	307	iPKPc	54	04.12	-0.6
			ipPKP	54	26.80	
			pPKP	54	28.00	
WHN	172.78	224	PKP	54	05.50	0.5
	Z 20s	1.30um				
			ePP	59	20.00	
			SKKS	06	02.00	
TIA	173.08	275	PKP	54	04.90	-0.1
	Z 40s	2.80um				
			pPKP	54	28.00	
CD2	173.57	140	PKPc	54	05.40	0.0
	5.0s	1600.00nm				
	Z 26s	2.14um				
			e	55	34.00	
			iPP	59	25.50	
HHC	174.56	335	PKPc	54	06.00	0.4
	8.0s	1300.00nm				
	Z 40s	5.00um				
	N 20s	1.30um				
	E 24s	1.50um				
			pPKP	54	30.00	
BTO	175.20	347	iPKP	54	06.00	0.3
	N 14s	1.20um				
	E 14s	1.30um				
			pPKP	54	30.00	
LZH	176.15	86	iPKPc	54	07.00	0.9
	7.0s	4270.00nm				
			pPKP	54	29.00	
			PP	59	41.00	
TIY	176.43	301	PKPc	54	06.00	0.0
	7.0s	1200.00nm				
	Z 14s	1.90um			6.2Msz	
	N 19s	1.10um				
			pPKP	54	29.00	
XAN	178.10	188	PKP	54	06.50	0.2
	S.D. = 1.1	on 294 of 315 obs.				

MAY 14, 1990 21h 42m 32.62± 0.54s
48.049 N ± 6.9km 6.714 E ± 4.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.1 (LDG). MD 2.6 (STR).

BSF	0.22	166	Pg	42	39.30	1.8
			Sg	42	42.90	
MOF	0.34	125	Pg	42	40.06	0.3
			Sg	42	44.18	
VITF	0.52	289	Pg	42	44.94	1.8
CDF	0.52	46	Pg	42	41.67	-1.6
			Sg	42	47.19	
FEL	0.89	101	ePg	42	49.08	-0.7
GWF	1.11	33	Pg	42	52.19	-1.2
			Sg	43	05.62	
SLE	1.23	103	ePc	42	54.60	-0.9
ZLA	1.26	116	ePd	42	56.70	0.6
SAX	1.95	113	ePd	43	06.40	0.0
EMS	1.98	176	ePd	43	12.10	5.3X
LOR	2.08	249	Pn	43	08.40	0.4
			Pg	43	14.80	
			Sg	43	42.00	
LBF	2.14	241	Pg	43	15.30	6.4X
			Sg	43	44.00	
SSF	2.39	247	Pn	43	12.60	0.2
			Pg	43	19.20	
			Sg	43	52.00	
SMF	2.41	235	Pn	43	12.30	-0.4
			Pg	43	20.80	
			Sg	43	51.80	
TNS	2.46	27	ePnc	43	17.10	3.7
			eSn	43	46.20	
DOU	2.48	327	iP	43	19.80	6.2X
			iS	43	45.60	
LPL	2.53	180	Pg	43	22.40	7.7X
LPG	2.55	179	Pg	43	22.90	7.9X
			Sg	43	57.00	
MEM	2.60	350	P	43	20.70	5.3X
AVF	2.61	242	Pn	43	15.40	-0.1
			Pg	43	24.40	
			Sg	43	58.20	
BGF	3.02	242	Pn	43	20.80	-0.6
			Pg	43	32.00	
			Sg	44	11.80	
MAF	3.37	239	Pg	43	38.80	12.5X
			Sg	44	22.80	
GRF	3.40	59	e(Pg)	43	38.00	11.2X
			eSg	44	17.70	
TCF	3.54	242	Pn	43	28.00	-0.8
			Pg	43	41.40	
			Sg	44	27.00	
LSF	3.97	245	Pg	43	49.60	14.8X
			Sg	44	40.00	
LDF	4.59	279	Pg	43	59.90	16.2X
KHC	4.68	74	ePg	44	02.30	17.3X
			Sg	44	58.50	
MFF	4.88	255	Pn	43	46.30	-1.5
LPF	5.20	273	Pn	43	51.30	-1.0
FBA	65.65	348	P	53	12.90	-5.7X
TTA	68.52	352	eP	53	44.70	7.9X
	S.D. = 1.4	on 18 of 31 obs.				

MAY 14, 1990 22h 21m 19.14± 0.45s
45.259 N ± 5.7km 5.789 E ± 4.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

BNI	0.66	108	P	21	31.10	-1.3
			eSg	21	39.90	
LPL	0.71	69	Pg	21	34.20	0.9
LPG	0.72	70	Pg	21	34.00	0.5
			Sg	21	44.70	
RRL	0.78	115	P	21	33.14	-1.4
			S	21	42.47	
LSD	0.98	78	P	21	38.16	0.2
			S	21	50.47	
RSP	1.04	95	P	21	38.78	-0.1
			S	21	51.31	
PZZ	1.20	128	P	21	40.31	-1.3
			S	21	54.67	
STV	1.49	132	P	21	45.95	-0.1
			S	22	02.57	
ROB	1.77	122	P	21	50.17	0.1
FRF	1.81	160	Pg	21	51.00	0.5
S8F	1.83	139	Pg	21	52.60	1.7
			Sg	22	15.20	
LRG	1.85	167	Pg	21	51.60	0.5
SMF	1.94	316	Pn	21	53.40	0.9
			Pg	21	57.80	
			Sg	22	23.00	
LMR	1.99	165	Pg	21	54.00	0.8
LBF	2.14	325	Pn	21	56.20	0.8
			Pg	22	01.00	
			Sn	22	22.00	
			Sg	22	30.00	
AVF	2.29	313	Pg	22	04.00	6.5X
			Sg	22	33.40	
SSF	2.40	319	Pg	22	06.50	7.4X
			Sg	22	38.00	
LOR	2.41	327	Pg	22	06.40	7.1X
			Sg	22	38.20	
BGF	2.43	303	Pn	21	58.20	-1.3
			Pg	22	06.50	
			Sg	22	37.20	
MAF	2.45	294	Pn	21	58.80	-1.0
BSF	2.66	15	Pg	22	11.60	8.6X
			Sg	22	47.60	

TCF	2.71	294	Pn	22 03.40	-0.1
			Sg	22 44.70	
S.D. = 1.0 on 18 of 22 obs.					

& MAY 14, 1990 22h 31m 29.90s
37.632 N 122.473 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.8 (BRK).
Mo=2.9*10**13 Nm (BRK). Felt at Daly City, San Francisco, South San Francisco and San Mateo.

PCC	0.15	151	iPc	31 32.90	-0.3
			iS	31 35.30	
BRK	0.29	35	iPc	31 35.80	-0.1
			iS	31 40.60	
BKS	0.31	38	iPc	31 36.20	0.0
			iS	31 41.10	
GCC	0.71	148	e(P)	31 42.70	-1.4
			eS	31 53.60	
MHC	0.72	113	iPc	31 43.80	-0.6
			iS	31 54.40	
ARN	0.80	110	eP	31 45.10	-0.5
NWRM	0.89	338	eP	31 45.60	-1.5
SAO	1.19	136	iPd	31 50.40	-1.9
KVN	3.72	66	eP	32 26.00	-3.1
9 obs. associated					

? MAY 14, 1990 23h 23m 55.93± 1.08s
44.425 N ±12.7km 7.187 E ±13.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

PZZ	0.10	322	P	23 58.79	0.0
			S	24 00.96	
STV	0.21	151	P	24 00.43	-0.1
			S	24 03.47	
ENR	0.26	140	P	24 01.56	0.1
			S	24 05.11	
ROB	0.51	105	P	24 06.22	0.0
S.D. = 0.1 on 4 of 4 obs.					

? MAY 15, 1990 01h 30m 48.68± 4.31s
21.214 S ±20.3km 177.483 W ±18.0km
DEPTH = 428.0 ± 45.7 km
3.9mb (3 obs.)
FIJI ISLANDS REGION (181)

DZM	14.97	264	iPc	34 01.10	-0.7
WB5	44.97	263	eP	38 26.00	0.3
WRA	44.98	263	Pc	38 26.20	0.4
	0.6s	1.90nm		3.7mb	
NANU	61.68	255	eP	40 26.40	0.7
SPA	68.92	180	iPc	41 10.80	0.1
	0.8s	10.42nm		4.5mb	
PRS	78.00	43	eP	42 03.00	0.3
PRI	78.34	44	eP	42 05.00	0.3
FRI	79.46	44	eP	42 09.50	-0.9
CMB	79.66	42	eP	42 11.50	0.0
ORV	79.90	41	eP	42 12.60	-0.1
WDC	79.92	39	eP	42 13.00	0.3
KVN	81.70	43	eP	42 21.70	-0.6
TNP	81.71	44	eP	42 21.90	-0.4
PNT	86.98	34	eP	42 49.00	1.2
ANMO	87.47	51	eP	42 51.00	0.3
LRM	88.95	39	eP	42 58.10	0.6
YKA	96.96	25	eP	43 33.50	0.2
	0.8s	0.50nm		3.8mb	
CLL	148.86	347	iPKPd	49 50.90	7.6X
	0.8s	13.00nm			
BRG	149.07	346	e(PKP)	49 41.60	-2.0
	1.4s	12.00nm			
PRU	149.75	345	PKP	49 53.00	8.3X
KHC	150.78	345	PKP	49 55.50	9.2X
FLN	152.41	4	ePKP	49 58.10	9.5X
	0.6s	3.60nm			
LDF	152.60	4	ePKP	49 58.60	9.7X
	0.4s	2.30nm			
GRR	152.75	5	ePKP	49 58.90	9.8X
	0.4s	2.30nm			
LPF	153.09	5	ePKP	49 59.70	10.1X
	0.4s	4.00nm			
S.D. = 0.8 on 18 of 25 obs.					

? MAY 15, 1990 02h 57m 26.41± 7.98s
8.472 S ±72.0km 124.015 E ±21.4km
DEPTH = 150.7 ± 42.9 km
4.4mb (2 obs.)
TIMOR (289)

MTN	8.23	122	iPd	59 24.30	0.2
			eS	00 54.00	
KNA	8.60	148	eP	59 28.00	-0.9
	0.3s	34.00nm		5.4mb X	
			eS	01 02.00	
WB5	15.13	140	eP	00 53.90	0.2
			eS	03 33.50	
WRA	15.16	140	Pc	00 55.20	1.1
	0.3s	2.40nm		4.0mb	
NANU	16.21	209	eP	01 07.10	0.1
			eS	04 01.00	
QIS	19.27	130	iPd	01 41.20	-0.7
	0.3s	12.00nm		4.7mb	
S.D. = 1.1 on 6 of 6 obs.					

? MAY 15, 1990 03h 00m 17.31± 2.78s
2.348 S ±36.9km 80.792 W ±16.0km
DEPTH = 33.0km (normal)
3.4mb (1 obs.)
NEAR COAST OF ECUADOR (105)

TUNG	2.52	69	P	00 56.80	-0.4
			S	01 24.00	
VC1	2.93	55	eP	01 03.80	0.6
			eS	01 35.50	
GGP	3.08	46	eP	01 04.50	-0.8
			eS	01 39.50	
QTO	3.11	47	eP	01 05.00	-0.6
			eS	01 40.20	
QUR	3.13	46	eP	01 05.50	-0.4
			eS	01 41.00	
COTA	3.62	43	eP	01 13.20	0.2
CAYA	3.70	49	P	01 15.30	1.2
YKA	69.55	344	eP	11 24.70	0.0
	0.5s	0.20nm		3.4mb	
S.D. = 0.8 on 8 of 8 obs.					

% MAY 15, 1990 05h 02m 10.06± 1.09s
40.685 N ±10.1km 15.763 E ± 6.2km
DEPTH = 5.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.37	250	Pc	02 17.30	-0.2
			eSg	02 23.80	
MGR	0.57	196	P	02 20.50	-1.0
			eSg	02 28.60	
BSS	0.73	279	P	02 25.30	0.6
			eSg	02 34.60	
ORI	0.81	140	P	02 27.90	1.6
BRT	1.11	80	P	02 30.50	-0.9
			eSg	02 45.90	
TDS	1.12	157	P	02 31.30	-0.1
S.D. = 1.2 on 6 of 6 obs.					

MAY 15, 1990 05h 07m 04.29± 0.28s
4.974 S ± 4.4km 81.041 W ± 5.6km
DEPTH = 31.9km (3 depth phases)
5.0mb (15 obs.)
NEAR COAST OF NORTHERN PERU (109)
Felt (IV) at Piuro and (III) at Toloro.

TUNG	4.38	36	iP+	08 11.80	1.1
VC1	5.05	32	iP+	08 21.40	1.1
QTO	5.36	28	eP	08 26.00	1.4
QUR	5.39	28	eP	08 26.30	1.3
			eS	09 28.70	
CAYA	5.88	31	eP	08 31.80	-0.2
COTA	5.92	27	P	08 32.70	0.0
PSO	7.16	31	eP	08 50.00	0.1
NNA	8.11	149	eP	09 02.00	-0.9
	0.8s	4.48nm		4.6mb	
			e	09 09.50	
			eS	10 27.00	
PT10	8.12	151	e(P)	09 04.00	1.0
			e	09 10.00	
PT08	8.24	148	eP	09 05.10	0.1
			eS	10 37.90	
PT03	10.34	150	eP	09 35.90	2.2
			eS	11 47.10	
ARE	14.77	141	eP	10 38.00	4.9X
ZOBO	16.93	133	P	11 02.00	0.9
	1.0s	30.00nm		4.4mb	
Z	22s	0.40um		4.0MszX	
			S	14 28.00	
			LR	17 32.00	
LPB	17.12	133	P	11 00.00	-3.3X
CCH	19.10	131	P	11 27.90	0.3
OLLA	20.57	44	eP	11 42.00	-1.3
LLAV	20.89	43	eP	11 44.00	-2.6
SIV	22.45	121	P	12 02.00	-0.2
UYO	40.94	343	eP	14 46.30	0.7
MEO	42.86	339	iPd	15 02.30	0.9
ALQ	46.36	331	iPc	15 30.80	1.2
	1.0s	26.50nm		5.1mb	
ANMO	46.36	331	P	15 30.90	1.3
	1.0s	22.50nm		5.1mb	
GLA	49.56	322	eP	15 55.00	0.5
GLD	49.77	336	P	15 56.70	0.5
	0.8s	28.24nm		5.3mb	
GOL	49.79	335	P	15 56.80	0.4
	1.0s	46.75nm		5.5mb	
BAR	50.46	320	eP	16 02.00	0.7
TPC	51.02	322	eP	16 06.00	0.4
PLM	51.02	321	eP	16 06.00	0.2
RVR	51.76	321	eP	16 11.00	-0.2
MSU	52.00	329	P	16 13.10	-0.1
GSC	52.29	323	eP	16 16.00	0.8
MWC	52.34	321	eP	16 17.00	1.2
SBB	52.50	322	eP	16 17.00	0.2
DAU	53.00	331	P	16 21.70	0.9
CLC	53.11	323	eP	16 21.00	-0.3
ISA	53.54	322	eP	16 25.00	0.5
DUG	53.60	330	P	16 25.90	1.0
	0.8s	7.22nm		4.7mb	
BW06	54.11	334	P	16 28.00	-0.7
	0.9s	11.02nm		4.9mb	
TNP	54.43	325	P	16 31.60	0.5
	0.8s	9.56nm		4.9mb	
KVN	55.60	325	P	16 39.00	-0.6
HPI	56.43	332	P	16 45.60	0.0
RSON	56.67	350	ePd	16 45.60	-1.3
			pP	16 55.00	31km
LRM	57.79	334	eP	16 54.70	-0.5
SCH	60.75	9	eP	17 13.00	-2.2
SES	60.92	339	eP	17 16.00	-0.4
			pP	17 26.00	33km
NEW	61.71	333	ePd	17 20.90	-0.9
			pP	17 30.90	33km
PNT	63.60	333	eP	17 35.00	0.7
	1.0s	34.00nm		5.4mb	
EDM	64.05	339	iPc	17 36.30	-1.0
YKA	71.99	344	eP	18 24.30	-2.3
	0.9s	3.30nm		4.3mb	
LKO	76.55	79	P	18 53.18	-0.7
KIC	76.99	82	(P)	18 56.00	-0.3
INK	81.63	343	eP	19 20.00	-0.2
MBC	84.06	351	ePc	19 33.30	0.7
	0.8s	13.00nm		5.2mb	
SPA	85.06	180	iPd	19 38.30	0.3
	1.0s	26.00nm		5.4mb	
EKA	87.20	34	P	19 49.00	0.5
	0.9s	7.20nm		4.9mb	
DAG	88.68	12	iPd	19 55.00	-0.3
	0.9s	10.08nm		5.1mb	
WRA	137.30	233	PKPd	26 26.50	-0.8
	0.7s	4.40nm			
WB5	137.32	234	ePKP	26 26.20	-1.1
MTN	143.46	241	iPKPd	26 34.50	-3.9X
TIA	144.71	334	PKP	26 37.40	-2.6
TIY	145.17	341	ePKP	26 38.00	-2.8
GTA	145.71	359	PKPc	26 41.00	-0.8
SSE	146.66	324	PKPc	26 44.20	0.9
MBL	146.93	218	ePKP	26 45.10	1.0
LZH	148.71	352	PKP	26 50.00	3.2X
			pPKP	26 55.00	
XAN	149.64	343	PKP	26 52.00	3.9X
GUN	154.02	27	PKP	27 00.00	5.0X
S.D. = 1.1 on 61 of 67 obs.					

? MAY 15, 1990 05h 10m 50.65± 1.24s
49.557 N ±18.4km 18.695 E ± 9.4km
DEPTH = 10.0km (geophysicist)
CZECHOSLOVAKIA (547)

SPC	1.08	109	iPnd	11 11.20	0.1
			i(Sg)	11 31.30	
ZST	1.72	218	eP	11 20.20	-0.6
			e	11 29.20	

15d 05h

		i	11 44.90		
PRU	2.73	281 Pg	11 28.00	-7.3X	
		Sg	12 11.00		
BRG	3.32	295 ePg	11 43.00	-0.7	
		iSg	12 25.00		
KHC	3.37	265 ePg	11 45.60	1.2	
		Sg	12 26.50		

S.D. = 1.5 on 4 of 5 obs.

---

* MAY 15, 1990 05h 31m 47.43± 1.53s
0.716 S ±10.5km 122.609 E ±11.7km
DEPTH = 33.6 ± 19.3 km
4.1mb (2 obs.)
MINAHASSA PENINSULA (265)

MNI	3.09	46 eP	32 35.00	-0.1	
MKS	5.46	215 iPc	33 08.10	-0.5	
BKB2	5.74	265 iPc	33 16.60	4.1X	
AAI	6.31	118 eP	33 21.00	0.3	
TSM	6.68	317 eP	33 29.50	3.7X	
MTN	14.72	145 ePd	35 19.20	4.1X	
WB5	22.25	150 eP	36 42.80	-0.4	
WRA	22.30	150 P	36 44.00	0.4	
	0.9s	9.00nm		4.2mb	
PSI	23.92	278 ePd	37 00.80	1.4	
CHG	30.28	311 eP	38 00.00	2.0	
GUN	45.30	312 P	40 04.30	-0.2	
PKI	45.47	311 P	40 05.40	-0.4	
DMN	45.72	311 P	40 05.30	-2.4	
GBA	46.96	289 P	40 23.00	5.6X	
	0.6s	0.90nm		3.9mb	

S.D. = 1.4 on 10 of 14 obs.

? MAY 15, 1990 08h 00m 14.60± 4.50s
31.069 S ±79.2km 68.396 W ±22.7km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.27	194 iPc	00 29.50	-0.1	
RTCB	0.54	220 eP	00 31.00	0.0	
CFA	0.55	166 iPd	00 31.00	-0.1	
RTCV	0.80	189 e(P)	00 27.00	-6.3X	
		S	00 45.60		
RTBS	1.08	237 ePc	00 36.10	-0.1	
		S	00 51.00		

S.D. = 0.0 on 4 of 5 obs.

---

* MAY 15, 1990 09h 49m 48.28± 0.96s
8.746 S ±12.9km 118.413 E ±10.1km
DEPTH = 128.2 ± 21.4 km
4.6mb (5 obs.)
SUMBAWA ISLAND REGION (285)

KHKI	2.80	278 iPc	50 32.10	-0.7	
		iS	51 06.00		
		e	56 08.00		
MKS	3.66	17 iPd	50 44.50	0.3	
TRT	5.81	280 iPc	51 14.00	0.6	
		iS	52 21.80		
KNA	12.28	126 iPd	52 39.40	-0.5	
	0.3s	6.00nm		4.7mb	
		eS	54 50.00		
MBL	12.42	174 iPd	52 42.10	0.3	
	0.4s	9.00nm		4.7mb	
		eS	54 52.00		
MTN	13.14	109 iPd	52 50.20	-1.0	
		eS	55 09.00		
NANU	14.01	191 eP	53 03.50	1.1	
		eS	55 28.00		
MEKA	17.77	180 eP	53 50.30	1.1	
		eS	56 56.00		
WB5	18.99	127 iPc	54 01.80	-0.8	
		eS	57 27.00		
WRA	19.01	128 Pd	54 02.20	-0.6	
	0.5s	9.10nm		4.4mb	
WARB	19.02	157 iPc	54 05.00	2.1	
	0.4s	4.00nm		4.1mb	
MRWA	20.49	186 eP	54 19.10	1.1	
		eS	57 58.00		
BAL	21.81	184 eP	54 29.00	-2.1	
		eS	58 29.00		
COOL	22.17	174 eP	54 32.70	-2.0	
		eS	58 37.00		
KLB	22.74	181 eP	54 38.30	-1.8	
		eS	58 50.00		
QIS	23.59	122 iPc	54 49.30	0.8	
	0.7s	30.00nm		4.8mb	
BRS	37.37	124 iPc	56 52.40	2.0	

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

? MAY 15, 1990 10h 45m 15.98± 1.09s
39.107 N ± 8.2km 27.590 E ±13.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.75	200 iPg	45 30.70	-0.1	
		eSg	45 41.70		
EZN	1.21	307 iPn	45 38.70	0.1	
EDC	1.26	10 iPn	45 38.80	-0.5	
KCT	1.28	27 ePn	45 40.20	0.4	

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

---

* MAY 15, 1990 11h 12m 53.29± 2.33s
31.897 S ±14.4km 71.392 W ±18.7km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

JACH	1.03	139 iPd	13 11.60	0.0	
		iS	13 24.50		
ROCH	1.12	163 iP	13 13.00	0.1	
		iS	13 27.90		
PEL	1.38	155 iPd	13 16.50	0.0	
		iS	13 31.30		
LCCH	1.58	185 eP	13 20.00	0.7	
		iS	13 35.60		
RTBS	1.67	82 eP	13 21.50	0.9	
FCH	1.70	147 iPd	13 21.40	0.0	
		iS	13 41.50		
TACH	1.79	168 iP	13 22.50	0.1	
		iS	13 41.50		
PCH	1.87	157 iP	13 23.50	-0.1	
		i	13 40.00		
		i	13 49.00		
LNV	2.05	180 iPc	13 25.50	-0.6	
		i	13 43.50		
CHCH	2.12	163 iP	13 27.00	-0.2	
		i	13 45.00		
		i	13 53.50		
RTCV	2.43	90 e(P)	13 32.00	0.4	
RTLL	2.56	78 iPc	13 32.50	-0.9	
CFA	2.70	85 iPc	13 35.00	-0.4	

S.D. = 0.5 on 13 of 13 obs.

---

* MAY 15, 1990 12h 17m 05.07± 1.87s
14.987 S ±10.2km 167.381 E ±12.4km
DEPTH = 121.4 ± 15.0 km
4.4mb (2 obs.)
VANUATU ISLANDS (186)

PVC	2.88	162 iP	18 02.00	11.5X	
		iS	18 28.50		
DZM	7.10	187 iPc	18 47.90	0.0	
		iS	20 07.20		
HNR	9.12	306 eP	19 15.00	-0.2	
CTA	20.77	253 eP	21 40.00	1.8	
RMQ	20.81	234 eP	21 39.70	1.1	
WB5	31.84	256 eP	23 19.00	-1.6	
WRA	31.87	256 Pd	23 19.20	-1.6	
	0.8s	2.60nm		4.0mb	
FORR	39.24	239 eP	24 23.00	-0.3	
NANU	49.47	253 iPd	25 45.10	0.0	
KMI	74.53	302 eP	28 33.50	0.7	
SPA	75.11	180 iPc	28 34.80	-0.5	
	0.8s	10.83nm		4.7mb	
CHTO	75.28	294 e(P)	28 37.00	0.1	
FLN	144.87	346 ePKP	36 27.60	-1.6	
	1.2s	26.80nm			
LDF	144.94	346 ePKP	36 28.10	-1.2	
	1.0s	8.00nm			
LOR	145.02	340 ePKP	36 28.70	-0.8	
	1.2s	17.85nm			
LBF	145.23	340 ePKP	36 29.50	-0.4	
	1.2s	23.80nm			
GRR	145.31	346 ePKP	36 29.50	-0.4	
	1.0s	20.00nm			
SSF	145.31	341 ePKP	36 29.90	-0.1	
	1.2s	23.80nm			
LPL	145.47	336 ePKP	36 31.00	0.3	
	1.2s	14.90nm			
LPG	145.48	336 ePKP	36 31.00	0.2	
	1.2s	17.85nm			
SMF	145.57	340 ePKP	36 30.20	-0.3	
	1.2s	14.90nm			
AVF	145.60	340 ePKP	36 30.60	0.1	
	1.0s	6.00nm			
LPF	145.69	346 ePKP	36 31.00	0.4	
	1.2s	26.80nm			
BGF	145.97	341 ePKP	36 31.50	0.3	
	1.0s	12.00nm			
MAF	146.36	341 ePKP	36 33.00	1.2	
	1.2s	8.95nm			
TCF	146.41	341 ePKP	36 33.00	1.1	
	1.2s	7.45nm			
MFF	146.80	344 ePKP	36 33.90	1.4	
	1.2s	17.85nm			
PGF	146.83	330 ePKP	36 33.00	0.2	
	1.0s	12.00nm			

S.D. = 1.0 on 27 of 28 obs.

---

* MAY 15, 1990 12h 27m 36.25± 1.81s
39.385 N ±17.8km 20.646 E ±10.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.5 (THE).

IGT	0.28	301 ePgc	27 41.80	-0.4	
		eSg	27 48.20		
AGG	1.36	105 ePb	28 01.90	0.7	
		eSb	28 12.24		
FNA	1.51	22 ePb	28 02.20	-1.1	
		eSb	28 23.80		
LIT	1.59	63 ePb	28 03.00	-1.5	
		eSb	28 24.80		
OHR	1.73	4 e(Pn)	28 08.00	1.4	
GRG	2.07	40 ePb	28 12.30	0.9	

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

---

* MAY 15, 1990 12h 52m 25.20± 3.05s
41.301 N ±22.3km 23.433 E ±10.8km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
ML 2.1 (THE).

SRS	0.22	147 iPgc	52 30.10	0.1	
		eSg	52 34.50		
KNT	0.43	251 ePg	52 33.50	-0.4	
		eSg	52 39.90		
SOH	0.48	187 ePgc	52 35.00	0.0	
		eSg	52 43.40		
THE	0.76	208 ePgc	52 40.10	0.1	
		eSg	52 51.20		
GRG	0.85	247 ePg	52 42.10	0.5	
PAIG	1.39	172 ePb	52 50.20	-0.3	

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

& MAY 15, 1990 13h 58m 38.63s
62.591 N 151.442 W
DEPTH = 88.9km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.58	108 iP	58 54.05	0.0	
SKT	0.61	184 iP	58 54.40	-0.1	
		eS	59 06.23		
HUR	0.92	64 iP	58 57.32	-0.3	
		eS	59 11.29		
KTH	0.99	14 iP	58 58.33	-0.2	
		eS	59 12.80		
SUA	1.18	163 eP	59 00.27	-0.5	
PWA	1.20	141 eP	59 00.37	-0.5	
		eS	59 17.82		
CRP	1.37	195 eP	59 02.86	-0.4	
RND	1.44	54 iP	59 03.46	-0.5	
		eS	59 23.34		
GHO	1.44	124 iP	59 03.76	-0.3	
		eS	59 24.42		
SPU	1.44	192 eP	59 03.71	-0.4	
		eS	59 23.46		
PLRM	1.48	132 iP	59 03.76	-0.7	
MCK	1.61	44 eP	59 05.70	-0.5	
PMS	1.62	146 eP	59 05.52	-0.8	
		eS	59 27.18		
SML	1.66	117 eP	59 06.10	-0.7	
RDT	2.08	193 eP	59 12.11	-0.3	
SLKM	2.17	164 eP	59 13.09	-0.6	
NCA	2.24	103 iP	59 13.56	-1.1	
WRH	2.41	37 eP	59 15.62	-1.3	
TOA	2.51	99 iP	59 17.46	-0.8	
CCB	2.63	37 eP	59 18.51	-1.3	
GLI	2.69	128 eP	59 18.59	-2.1	
HDA	2.71	46 eP	59 19.65	-1.4	

```
PAX      2.77  79 eP     59 21.15  -0.8
VZW      2.78 121 eP     59 20.01  -2.0
KLU      2.83 111 iP     59 20.33  -2.3
VLZ      2.83 119 eP     59 20.08  -2.5
GLM      3.00  35 eP     59 20.24  -4.8
CNPM     3.08 178 eP     59 26.00  -0.1
GLB      3.78 104 eP     59 33.46  -2.3
BALM     4.59 106 eP     59 43.82  -3.2
       30 obs. associated
-----------------------------------------
? MAY 15, 1990  13h 59m 12.68± 1.30s
  45.561 N ±25.8km   14.989 E ±13.3km
  DEPTH = 10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     MD 2.4 (LJU).

VBY      0.20 107 iPgc   59 17.00   0.0
                 iSg    59 20.80
CEY      0.43 295 ePg    59 21.50   0.0
                 e(Sg)  59 29.00
                 eRg    59 30.90
LJU      0.58 327 ePg    59 24.40   0.0
                 eSg    59 34.00
VOY      0.90 302 ePg    59 30.00   0.0
                 e(Sg)  59 45.20
                 eRg    59 52.70
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------------
  MAY 15, 1990  14h 25m 20.69± 0.10s
  36.043 N ± 2.7km   70.428 E ± 1.5km
  DEPTH = 113.1km  (geophysicist)
  5.9mb ( 90 obs.)
 HINDU KUSH REGION                 (718)
     Felt (V) at Ishkashim and
     Khorog; (IV) at Dushanbe,
     Komsomolobad, Kulyab, Nurek,
     Obigarm, Pyandzh, Rogun and
     Sultanabad; (III) at Dzhirgatal,
     Garm, Leninobad and Samarkand;
     (II) at Toshkent, USSR. Felt at
     Islamabad, Lahore and
     Rawalpindi, Pakistan. Depth from
     broadband displacement
     seismograms.
     FAULT PLANE SOLUTION: P-Waves
      NP1:Strike= 70 Dip=63 Slip=  90
      NP2:       250     27        90
      Principal Axes:
       T              Plg=72  Azm=340
       P                18      160
     Comment: The focal mechanism is
       poorly controlled and
       corresponds to reverse
       faulting. The preferred fault
       plane is NP2.
     RADIATED ENERGY
      No. of sta:   5  Focal mech.  M
      Energy        7.3±3.1*10**12 Nm
     MOMENT TENSOR SOLUTION
     Dep 109            No. of sta: 15
     Moment Tensor;   Scale 10**17 Nm
       Mrr= 7.58        Mtt=-7.19
       Mff=-0.39        Mrt= 5.51
       Mrf=-1.15        Mtf=-3.24
      Principal axes:
       T  Val=  9.86  Plg=67  Azm= 32
       N       -0.04    17       258
       P       -9.82    16       163
     Best Double Couple:Mo=9.8*10**17
      NP1:Strike=230 Dip=33 Slip=  58
      NP2:       87     63        109
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.: 12S, 31C
     Centroid Location:
     Origin Time        14:25:24.9 0.4
     Lat 35.44N 0.04 Lon  70.09E 0.04
     Dep 113.1 1.9 Half-duration  3.9
     Moment Tensor;   Scale 10**17 Nm
       Mrr= 8.35 0.34   Mtt=-7.82 0.54
       Mff=-0.52 0.54   Mrt= 6.84 0.35
       Mrf=-1.07 0.33   Mtf=-5.95 0.49
      Principal Axes:
       T  Val= 11.69  Plg=62  Azm= 34
       N        0.96     23       252
       P      -12.65     15       155
     Best Double Couple:Mo=1.2*10**18
      NP1:Strike=216 Dip=36 Slip=  48
      NP2:         84     64       116

DSH      2.84 333 iPd    26 06.00   0.7
                 iS     26 40.00
KSH      5.56  51 P      26 44.50   2.0
QUE      6.53 208 iPd-   26 54.20  -1.7
                 e(S)   28 04.50
FRU      7.51  24 iPd    27 09.00  -0.1
                 iS     28 28.00
MHI      8.85 275 ePn    27 25.00  -2.3
         0.6s    37.33nm          5.3mb
                 eSn    28 57.00
NDI      9.31 140 iPd    27 30.30  -3.2X
         0.6s   606.67nm          6.6mb
DMN     15.03 120 Pd     28 44.00  -4.6X
PKI     15.27 119 Pd     28 46.60  -5.0X
WMQ     15.34  54 iPc    28 50.67  -1.5
         5.5s  2700.00nm          5.7mb X
                 PP     29 06.00
                 S      31 34.00
                 PcP    33 48.00
GUN     15.40 117 Pd     28 48.20  -5.1X
POO     17.70 169 iPd    29 17.80  -3.7X
         1.4s  2046.51nm          6.2mb
LSA     18.51 104 iP     29 30.00  -1.3
                 sP     30 03.00
                 iS     32 55.00
TAB     19.33 283 iP+    29 41.00   1.3
                 e      33 14.00
BRF     19.66 245 eP     29 41.90  -1.0
BJA     19.69 245 eP     29 40.70  -2.5
BEE     19.74 245 iP     29 41.40  -2.3
         0.5s   296.00nm          5.9mb
DHR     19.86 246 iPc    29 45.00   0.0
HYB     19.90 157 iPd    29 45.50  -0.1
         1.0s  1510.00nm          6.3mb
                 isP    30 18.00
                 iS     33 22.00
SLY     20.21 276 iPd    29 50.00   1.4
                 iPP    30 02.50
                 iPPP   30 16.00
                 iS     33 24.00
                 iSS    34 02.50
                 iSSS   34 13.00
                 eLR    37 27.00
BHD     21.58 270 iPd    30 03.00   0.7
                 e      30 15.00  49kmX
                 iPP    30 27.00
                 iPPP   30 38.00
                 i      30 58.00
                 iS     33 55.00
                 iSSS   34 29.00
                 eLR    37 05.00
MSL     21.99 279 ePd    30 07.00   0.6
                 ePP    30 32.50
                 ePPP   30 43.00
                 e      31 00.00
                 eS     34 01.50
                 eSS    34 42.00
GBA     23.21 162 Pc     30 20.40   2.0
         1.1s   415.00nm          5.7mb
RYD     23.38 248 iPc    30 20.00   0.0
GTA     23.44  73 iPc    30 22.60   2.0
      Z  18s     7.06um          5.2Msz
      N  10s     8.52um
                 sP     30 59.90
                 iS     34 29.50
MJMA    23.77 252 eP     30 23.10  -0.7
QASM    25.01 254 iPc    30 36.30   0.7
RUWJ    26.30 271 Pd     30 52.30   4.9X
AFIF    26.32 251 eP     30 50.70   3.0X
KOD     26.48 164 iPd    30 50.40   1.0
         1.0s   390.00nm          5.9mb
GAZ     26.62 282 iP     30 57.00   6.8X
LZH     26.94  80 iPc    30 54.75   1.4
      Z  17s     4.20um          5.1MszX
      E  10s     4.60um
                 PP     31 20.00
                 SP     31 30.00
                 PP     31 45.00
                 iS     35 24.00
                 sS     35 58.00
                 SS     36 48.00
CD2     28.18  91 iPc    31 05.30   0.8
         4.0s  1500.00nm          6.0mb X
      N  12s     7.50um
                 iS     35 44.00
HRI     28.58 275 eP     31 10.00   1.9
MDSJ    28.64 271 Pd     31 09.20   0.6
JARJ    28.70 273 Pd     31 09.40   0.2
BURJ    28.82 273 Pc     31 10.10  -0.1
KAS     28.95 292 iPc    31 12.30   1.0
SALJ    28.98 272 Pc     31 12.00   0.3
KFNJ    29.03 272 Pd     31 12.50   0.5
MKRJ    29.16 271 Pc     31 13.50   0.2
DSI     29.36 272 eP     31 12.00  -2.9X
LISJ    29.39 271 Pd     31 15.90   0.8
KMI     29.74 102 iPc    31 18.59  -0.1
         4.0s  1300.00nm          6.0mb X
                 sP     31 52.50
                 iS     36 07.00
BBTK    29.80 289 iPc    31 19.00   0.1
                 i      31 36.00  72kmX
AYN     29.81 266 ePc    31 19.30   0.4
LFK     29.88 280 iP     31 19.30  -0.2
CSS     30.11 279 eP     31 21.80   0.3
CHG     30.42 117 ePc    31 24.50   0.1
         1.0s    43.00nm          5.1mb
                 eS     36 12.00
CHTO    30.42 117 ePc    31 23.74  -0.7
HQL     30.42 267 ePc    31 24.70   0.4
WAJH    30.49 261 eP     31 24.70  -0.2
BADA    30.75 266 ePc    31 27.70   0.5
PPCY    30.91 279 eP     31 29.00   0.4
BTO     31.21  69 iPc    31 32.00   0.7
         3.0s  3100.00nm          6.5mb
      N  13s     3.40um
      E  13s     4.60um
                 sP     32 10.00
                 iS     36 31.50
                 sS     37 16.00
XAN     31.45  82 iPc    31 33.10  -0.2
         3.0s  2200.00nm          6.4mb
                 sP     32 09.00
                 PP     32 42.50
                 S      36 34.00
                 sS     37 16.00
                 ScP    37 48.00
BDT     31.49 119 eP     31 35.00   1.3
         1.2s   273.80nm          5.9mb
GPA     31.64 290 iP     31 35.00   0.1
BCK     31.79 285 iP     31 36.50   0.2
ALT     31.93 288 eP     31 36.00  -1.5
HRT     32.08 291 eP     31 39.50   0.8
GBZT    32.25 291 iPc    31 39.80  -0.4
GYA     32.26  97 P      31 41.00   0.4
      N  12s     4.10um
      E  12s     3.40um
                 S      36 44.00
                 sS     37 33.00
YLV     32.32 291 iP     31 41.50   0.6
HHC     32.36  69 Pc     31 42.10   0.8
         4.0s  2400.00nm          6.3mb X
                 sP     32 19.50
                 PP     32 59.00
                 S      36 50.00
ELL     32.45 283 iP     31 42.50   0.3
KHL     32.48 286 iP     31 42.40   0.0
ISK     32.51 292 eP     31 43.00   0.5
ITU     32.54 292 iP     31 40.00  -2.7
KOT     32.79 271 ePd    31 46.50   1.5
KSL     32.84 282 iPd    31 44.90  -0.4
CTT     32.98 292 eP     31 47.00   0.4
PSN     33.02 296 iPd    31 49.00   2.1
CFR     33.04 299 eP     31 46.00  -1.0
TLB     33.12 298 ePd    31 48.50   0.8
HLW     33.21 271 eP     31 49.00   0.3
                 ePPP   33 03.30
                 eS     37 03.30
                 eSS    39 03.00
NST     33.35 120 iPd    31 51.70   1.8
LOE     33.35 116 eP     31 49.00  -1.0
DMK     33.43 293 iP     31 51.10   0.7
TIY     33.44  74 iPc    31 50.90   0.2
         3.0s  3800.00nm          6.7mb
                 sP     32 28.00
                 iS     37 05.00
                 sS     37 50.00
PPE     33.45 301 ePc    31 51.00   0.5
EDC     33.49 290 iP     31 51.70   0.7
IAS     33.54 303 eP     31 50.00  -1.3
YER     33.66 285 eP     31 53.00   0.5
BRD     33.83 300 ePd    31 57.00   3.2X
```

15d 14h

VRI		34.06	300	ePc	31	57.00	1.2					i	34	00.00					i	35	11.00		
ISR		34.18	299	ePc	31	59.00	2.1					i	34	38.00					e	42	11.00		
IZM		34.23	287	iP	31	56.70	-0.7					iPPP	34	52.00				UPP	41.15	322	iPc	32	54.90	0.1
JMB		34.25	294	iPc	31	58.00	0.5					iPcS	38	17.00							i	32	55.90		
ASW		34.41	260	iPd	32	00.00	1.0					iS	38	55.00							ipP	33	20.80	112kmX
				eS	37	21.00						i	39	48.00							iPP	34	35.30	
AKSR		34.52	259	iPd	32	02.10	2.2					i	41	02.00							iS	38	58.00	
MLR		34.60	300	iPc	32	02.00	1.4					iPSP	41	20.00				SNY	41.20	65	iPc	32	55.00	-0.4
SMG		34.68	286	eP	32	02.40	1.3					iSSS	43	08.00					5.0s	2100.00nm			6.2mb X	
EZN		34.73	290	iP	32	02.20	0.7					LR	54	51.00							sP	33	33.00	
ALN		34.80	292	ePc	32	01.60	-0.6	FNA	38.33	292	ePc	32	32.10	0.2							PP	34	42.00	
ARO		34.88	233	iP+	32	04.50	1.4	SPC	38.50	306	iPc	32	35.20	1.8							iS	39	00.00	
ANMR		34.88	260	iPd	32	04.20	1.2					i	33	01.20	114kmX						sS	39	44.00	
ASKD		35.01	260	iPd	32	06.70	2.6					i	33	16.30							SS	42	04.00	
DIM		35.06	294	iPd	32	05.00	0.6					i	34	09.80							ScS	42	43.00	
PVL		35.12	296	iPc	32	07.00	2.2	BEO	38.51	299	iP	32	34.50	1.2				BRT	41.43	293	P	32	57.70	0.3
RDO		35.15	292	eP	32	05.70	0.5	OIZ	38.54	105	Pc	32	34.00	0.2				TSI	41.51	135	eP	32	59.00	0.8
KDZ		35.19	293	iPc	32	06.00	0.5					sP	33	11.00				ZAG	41.56	301	iPc	32	59.00	0.6
MTUR		35.23	299	ePd	32	07.50	1.6					PP	34	09.00				PTJ	41.57	301	iPc	32	58.90	0.3
NNT		35.23	124	iPd	32	07.20	1.2					S	38	22.00				HVAR	41.58	297	iP	32	58.40	-0.2
CMP		35.24	299	iPc	32	09.00	3.1X					sS	39	09.00				BAI	41.63	294	P	32	58.00	-1.0
PLD		35.67	294	eP	32	10.00	0.5					SS	41	06.00				KTK1	41.85	337	iPd	33	01.34	0.8
RZN		35.71	293	iPc	32	10.00	-0.1	ITM	38.61	287	eP	32	32.60	-1.7				VBY	42.10	301	iPc	33	03.70	0.9
TNR		35.78	300	ePc	32	12.00	1.6	OHR	38.71	293	iPc	32	34.20	-0.9				IPM	42.11	131	ePd	33	05.40	2.2
DRA		35.82	298	ePd	32	13.00	2.3		0.9s	120.00nm				5.7mb					0.8s	276.10nm			6.1mb	
APE		35.83	285	eP	32	11.00	0.0					i	32	52.00	73kmX						e	33	44.00	177kmX
BJI		35.95	70	iPc	32	12.78	1.0					i	33	01.40				ORI	42.15	292	Pc	33	03.80	0.4
		6.0s	2000.00nm				6.2mb X					i	33	13.80				SSE	42.20	82	Pd	33	04.50	0.7
	Z	18s	22.40um				6.0Msz	KRA	38.72	307	iPc	32	35.10	0.1					Z	20s	1.90um			5.0Msz
				isPd	32	50.69			0.8s	236.00nm				6.1mb					N	12s	1.10um			
				ePP	33	37.12			Z	22s	3.70um			5.2Msz					E	11s	1.40um			
				e	34	14.86			E	22s	3.50um										pP	33	35.00	135kmX
				eS	37	37.00						i	32	36.30	4kmX						sP	33	44.00	
				ScP	38	09.50						i	32	40.50							S	39	18.00	
				esS	38	28.00						i	33	01.50							sS	40	04.00	
OUR		36.43	291	ePc	32	16.60	0.7					e	34	37.00							ScS	42	50.00	
MMB		36.46	293	iPc	32	17.00	0.8					e	38	23.00				PRU	42.20	307	iPc	33	04.60	1.0
SRS		36.62	292	ePc	32	18.00	0.5	PSZ	38.74	304	iP	32	35.90	0.6					1.6s	262.50nm			5.8mb	
PAIG		36.72	291	ePc	32	18.80	0.4	GZH	39.20	97	Pc	32	40.00	0.8					Z	17s	3.10um			5.3MszX
VTS		36.73	295	iP	32	19.00	0.4		5.0s	2500.00nm				6.3mb X					N	17s	1.80um			
DEV		36.73	301	iPd	32	20.00	1.6		N	14s	3.10um								E	17s	2.40um			
GZR		36.83	300	ePd	32	20.00	0.6		E	11s	1.30um										e	33	31.40	117kmX
SOH		36.84	292	ePc	32	19.80	0.4					iS	38	32.50							ePP	34	48.00	
WHN		36.89	86	iPc	32	21.00	1.2	IGT	39.33	291	ePc	32	39.50	-0.7							eS	39	12.00	
		4.0s	2600.00nm				6.5mb X	BUD	39.34	303	iPc	32	40.80	0.6		CN2	42.23	62	iPc	33	04.00	0.1
	Z	24s	2.70um				5.0MszX	VLS	39.42	288	eP	32	40.50	-0.4			5.0s	1700.00nm			6.1mb X	
	N	12s	4.30um					KEK	39.70	291	eP	32	42.90	-0.4						sP	33	41.00	
				sP	33	00.00		SRO	39.81	304	iP	32	45.40	1.4						S	39	15.00	
				iS	37	58.00						i	33	12.20	117kmX						sS	40	01.00	
KKB		36.90	294	iPc	32	20.00	0.1					i	34	35.50							eSS	42	20.00	
ATH		37.05	287	eP	32	22.60	1.5	MCO	39.85	98	iP	32	46.10	1.5							ScS	42	50.00	
KNT		37.13	293	ePc	32	22.20	0.4	SOD	39.96	335	iP	32	45.60	0.6		TDS	42.33	292	P	33	05.10	0.3
UZH		37.14	305	iPc	32	23.00	1.3					i	34	18.50	509kmX	PSI	42.37	135	eP	33	05.00	-0.3
				eS	38	44.00		NJ2	40.00	81	iPc	32	46.50	0.8		GRI	42.46	291	P	33	06.11	0.2
THE		37.16	292	ePc	32	23.00	1.0		6.0s	1800.00nm				6.1mb X			0.5s	91.00nm			5.8mb	
NEO		37.18	290	eP	32	23.30	1.1				PP	34	23.00			8RG	42.54	309	iPc	33	06.60	0.2
VAM		37.26	283	eP	32	23.20	0.2				S	38	44.00				1.6s	310.00nm			5.8mb	
VAY		37.35	293	iPc	32	24.00	0.4				sS	39	30.00							ipP	33	32.80	114kmX
		1.6s	572.00nm				6.2mb	HKC	40.25	98	iP	32	49.20	1.3						isP	33	49.00	
TIA		37.43	76	Pc	32	25.30	0.9	DL2	40.30	70	iPc	32	49.00	0.9						i	35	25.40	
		6.0s	2500.00nm				6.3mb X		4.0s	3200.00nm				6.5mb X						i	35	41.80	
				sP	33	02.00			Z	19s	1.90um			5.0Msz						eS	39	22.00	
				PP	33	56.00			E	12s	2.00um									esS	40	04.00	
				S	38	06.50						iS	38	49.00		QZH	42.57	91	Pc	33	07.00	0.1
				sS	38	52.00						sS	39	35.00			4.0s	1800.00nm			6.2mb X	
GRG		37.53	292	ePc	32	24.90	-0.3	ZST	40.60	304	iPc	32	51.50	1.0			Z	16s	2.40um			5.2MszX
LIT		37.60	291	ePc	32	25.70	-0.1					i	33	18.50	118kmX		N	12s	3.10um			
BZS		37.64	300	eP	32	26.50	0.5					i	34	31.70			E	12s	3.30um			
TIM		37.91	300	iPc	32	30.00	1.7					i	34	52.70							sP	33	46.00	
AGG		37.91	289	ePc	32	28.00	-0.4	LCI	40.97	292	P	32	51.90	-1.7							S	39	23.00	
NUR		37.93	325	iP	32	28.70	0.5	SOP	41.00	304	iPc	32	54.90	1.1							sS	40	08.00	
		1.2s	491.40nm				6.3mb	KEV	41.06	339	iPc	32	54.43	0.5		KMR	42.60	304	iP+	33	07.30	0.4
				i	32	55.00	116kmX		1.0s	340.00nm				6.1mb						ipP	33	34.80	120kmX
				i	33	06.00					epPc	33	19.26	107kmX						isP	33	44.60	
				i	34	04.00					isPd	33	31.18							iPP	34	51.60	
				i	34	25.80					i	34	31.80			CEY	42.65	301	iPc	33	07.90	0.6
				e	38	12.00					e	38	58.00			RIY	42.73	300	eP	33	07.60	-0.3
VLI		37.93	286	eP	32	26.90	-1.7	KSP	41.06	309	iPc	32	54.50	0.3		MGR	42.81	293	P	33	08.89	0.2
SUF		38.07	329	iP	32	30.20	0.8		1.5s	206.00nm				5.7mb			1.2s	2463.40nm			6.9mb	
		0.5s	140.30nm				6.1mb				id	32	55.70	4kmX		KHC	42.88	306	iPc	33	09.90	0.7
SKO		38.10	294	iPc	32	30.00	0.0				ic	33	21.40				1.4s	110.00nm			5.4mb	
		1.8s	575.00nm				6.1mb				i	34	33.60				Z	12s	3.00um			5.4MszX
	Z	15s	2.70um				5.2MszX				e	43	56.00				N	10s	3.80um			
	N	12s	1.40um					VKA	41.12	305	iPc	32	55.70	0.9			E	11s	3.30um			
	E	14s	2.04um						2.8s	1045.00nm				6.1mb						e	33	37.70	122kmX
				i	32	30.10	0kmX				i	33	22.90	119kmX						S	39	35.00	
				i	33	06.00					i	34	32.20			SGO	42.90	293	Pc	33	10.30	0.9

BRN	42.96	311	ePc	33	11.00	1.3					ePP	35	13.00			RRL	48.10	301	P	33	50.13	-0.7
			i	33	37.00	113kmX					iS	39	58.00			BNI	48.14	301	P	33	50.20	-0.9
			i	34	16.00						sS	40	46.00			CALN	48.29	300	P	33	51.56	-0.7
GMB	43.04	290	P	33	11.26	0.5	KONO	45.15	321	ePc	33	26.63	-0.6			BAG	48.48	100	ePc+	33	54.00	0.0
	0.8s	91.10nm			5.6mb					esPc	34	05.37					1.8s	490.91nm			6.0mb	
TRI	43.11	301	ePc	33	11.10	0.1	SAL	45.37	301	P	33	29.94	0.8						eS	40	48.00	
			e	33	47.00	162kmX		1.4s	1974.10nm			6.7mb				FRF	48.51	299	iPc	33	53.00	-0.7
			e	35	30.00		OSS	45.46	303	ePc	33	29.70	-0.3			DOU	48.56	308	Pc+	33	54.30	0.3
			e	39	22.00		MME	45.51	299	P	33	31.40	0.9						e	34	21.90	118kmX
			e	43	07.00		CVT	45.51	290	P	33	30.60	0.3						S	40	56.00	
			e	47	20.00		KGM	45.53	130	ePc	33	32.00	1.4			UCC	48.60	309	iP+	33	54.00	-0.3
			eLR	52	20.00					e	34	10.80	176kmX						i	36	11.00	
CLL	43.12	309	iPc	33	11.20	0.2	MAO	45.55	297	P	33	30.70	0.1			LMR	48.66	299	eP	33	54.10	-0.8
	1.7s	270.00nm			5.7mb		8DI	45.61	299	P	33	30.60	-0.5				1.7s	220.55nm			5.7mb	
			ipP	33	38.20	118kmX	PII	45.73	299	P	33	31.50	-0.4			SNF	48.69	309	eP	34	04.00	9.0X
			e(S)	39	28.00		PPI	45.78	136	ePc	33	33.40	0.8						i	34	22.70	75kmX
HFS	43.14	322	eP	33	10.50	-0.6		0.8s	208.60nm			6.0mb										
	0.4s	134.00nm			6.1mb		MDI	45.90	302	P	33	32.90	-0.4			LRG	48.73	299	iPc	33	55.00	-0.4
	Z 16s	4.51um			5.5MszX		SAX	45.91	304	ePc	33	33.50	-0.2				1.4s	252.70nm			5.9mb	
			LR	48	55.00		VDL	45.95	303	ePc	33	34.10	0.2			KBS	48.95	347	iPc	33	57.90	1.2
BSS	43.22	294	P	33	12.10	0.1	TNS	46.09	308	ePc	33	35.10	0.3			SHNJ	48.98	73	eP	33	58.00	0.6
DUI	43.30	295	P	33	13.40	0.7	LLS	46.20	303	ePc	33	35.30	-0.7			KUMJ	49.33	76	P	34	00.00	-0.2
WET	43.33	306	iPc	33	13.30	0.5	BO8	46.27	300	Pc	33	37.00	0.6			LBF	49.56	304	iPc	34	00.90	-0.9
	1.8s	241.00nm			5.7mb		MOL	46.35	325	iPd	33	37.02	0.4			LOR	49.58	305	iPc	34	01.00	-0.9
ATN	43.35	290	P	33	13.10	0.0	TIK	46.36	22	iPc	33	37.00	0.4				1.6s	180.35nm			5.7mb	
BHG	43.47	304	iPc	33	14.30	0.3				eS	40	15.00				SMF	49.72	304	iPc	34	02.70	-0.3
	1.8s	659.00nm			6.1mb		SLE	46.40	305	ePc	33	36.90	-0.4			SSF	49.86	305	iPc	34	03.30	-0.7
TRO	43.50	337	iPd	33	14.67	0.8	TMA	46.42	302	ePc	33	36.80	-0.9			OCP	49.87	102	eP	34	02.50	-1.9
KLM	43.65	131	eP	33	17.50	1.8	ZLA	46.51	304	ePc	33	37.60	-0.6			KAGJ	49.89	77	P	34	03.40	-1.0
FVI	43.67	302	Pc	33	15.50	0.0	VAI	46.53	302	Pc	33	37.70	-0.6			AVF	50.02	304	iPc	34	04.80	-0.4
RFI	43.72	295	P	33	16.54	0.5	BLS1	46.55	321	iPd	33	39.27	0.8			PLDF	50.03	303	P	34	04.96	-0.5
	1.9s	2635.20nm			6.7mb		ODD1	46.66	322	iP	33	39.87	0.7			SHK	50.05	72	eP	34	05.00	-0.7
SDI	43.76	295	Pc	33	16.20	-0.2	FEL	46.70	305	P	33	39.50	-0.3			GRC	50.09	305	P	34	05.38	-0.4
HOF	43.89	308	iPc	33	17.90	0.6	GWF	46.79	306	P	33	40.00	-0.3			AGO	50.34	303	P	34	07.64	-0.1
	1.7s	225.00nm			5.7mb		HYA	46.91	323	iP	33	41.71	0.6			BGF	50.41	304	eP	34	07.80	-0.5
AQU	43.93	296	P	33	18.40	0.6	WTS	46.92	311	ePc	33	41.50	0.3			LBL	50.46	302	P	34	08.70	0.1
AZI	43.98	296	Pc	33	19.10	1.0		1.2s	296.00nm			5.9mb				PYM	50.50	303	P	34	08.75	-0.2
MNO	43.99	290	P	33	20.00	1.5				epP	34	08.00	114kmX			MAF	50.68	304	iPc	34	10.30	0.0
MOX	44.03	308	iPc+	33	19.00	0.5				esP	34	24.00				TCF	50.90	304	iPc	34	11.80	-0.2
	1.9s	483.00nm			6.0mb		WIT	46.92	312	ePc	33	41.00	-0.2			TKSJ	51.31	73	P	34	15.10	-0.1
			ipP	33	46.00	117kmX				epP	34	08.50	119kmX			CAF	51.35	302	eP	34	15.40	0.0
			eS	39	35.00		PCP	46.95	300	P	33	40.39	-1.3			LSF	51.37	304	iPc	34	14.80	-0.7
MEU	44.04	289	P	33	18.70	-0.1	MMK	47.05	302	ePc	33	41.80	-0.9			KKM	51.44	114	ePc	34	17.00	0.5
ARV	44.04	298	P	33	19.10	0.4	PGF	47.07	298	iPc	33	42.10	-0.7				1.0s	318.60nm			6.2mb	
PZI	44.07	288	P	33	19.02	0.0	CDF	47.10	306	P	33	42.68	-0.2			ETER	51.52	299	iPc	34	15.60	-1.1
	1.2s	575.70nm			6.2mb		ORX	47.12	302	P	33	41.01	-2.1			RJF	51.62	303	iPc	34	17.40	-0.1
RSM	44.32	299	P	33	21.90	1.1	CKI	47.16	300	P	33	41.80	-1.5			LDF	51.89	307	iPc	34	18.50	-0.9
ASS	44.33	297	P	33	21.10	0.1	FIN	47.26	300	P	33	42.55	-1.6			LPO	52.02	302	iPc	34	20.20	-0.2
SCE	44.34	303	eP	33	20.40	-0.8	MOF	47.29	305	P	33	43.74	-0.6				1.4s	191.70nm			5.9mb	
GRF	44.36	307	iPc	33	22.50	1.3	BER	47.32	322	iP	33	44.08	-0.2			FLN	52.08	308	iPc	34	19.80	-1.0
	1.6s	654.00nm			6.2mb		KMY	47.36	321	iP	33	44.61	0.0				1.3s	202.15nm			5.9mb	
	Z 18s	3.00um			5.3Msz		ASK	47.39	322	iPd	33	45.05	0.3			TSRJ	52.23	70	P	34	22.40	0.3
			epP	33	48.10	110kmX	DIX	47.43	303	ePc	33	45.30	-0.4			LFF	52.25	303	iPc	34	21.80	-0.3
			e(sP)	34	04.00		ROB	47.48	300	P	33	44.29	-1.6			ESEL	52.27	296	iPc	34	21.80	-0.6
			eS	39	52.00		BSF	47.52	305	eP	33	45.20	-1.0			EKA	52.29	316	Pd	34	18.80	-3.5X
WATA	44.39	304	iPc	33	20.90	-0.7	IMI	47.55	300	P	33	45.72	-0.7				1.2s	194.30nm			5.9mb	
	1.3s	188.00nm			5.7mb		LOMF	47.58	304	P	33	46.00	-0.7			ESK	52.32	316	iPd	34	21.30	-1.2
			id	33	21.60	2kmX	MEM	47.59	309	P	33	42.70	-3.8X						epPd	34	47.29	109kmX
			i	33	47.10					i	33	46.70	13kmX						esPc	34	58.38	
MNS	44.45	297	Pc	33	21.70	-0.3	SUE	47.60	323	iP	33	47.32	0.9			MFF	52.40	305	iPc	34	22.30	-0.9
NB2	44.47	323	P	33	20.90	-1.0	ENN	47.62	309	ePc	33	46.50	-0.3			GRR	52.41	307	iPc	34	22.10	-1.2
GIB	44.49	290	P	33	21.60	-0.8		1.2s	113.00nm			5.5mb				WKYJ	52.41	72	eP	34	23.40	-0.2
FUR	44.49	305	iPc	33	23.10	0.9				epP	34	13.50	116kmX			LPF	52.62	307	iPc	34	23.80	-1.0
	1.7s	695.00nm			6.2mb					esP	34	28.00					1.3s	115.55nm			5.7mb	
CTI	44.52	302	P	33	22.30	-0.3	CGL	47.67	293	P	33	47.06	-0.4			JNW	52.78	336	iPd	34	27.80	2.1
RMP	44.55	296	P	33	22.50	-0.3		1.8s	213.30nm			5.6mb				EPF	53.08	300	eP	34	27.20	-1.1
RDP	44.55	296	P	33	22.90	0.1	LSD	47.73	302	P	33	47.16	-0.9				1.4s	136.15nm			5.7mb	
SQTA	44.66	304	iPc	33	23.00	-0.7	EMS	47.75	303	ePc	33	47.90	-0.2			MTMJ	53.23	68	P	34	28.60	-1.0
	1.5s	281.00nm			5.8mb		ENR	47.81	300	P	33	47.47	-1.0			MAJO	53.55	68	iPc	34	29.95	-1.9
			id	33	23.90	3kmX	STV	47.87	300	P	33	47.36	-1.6						epPd	34	58.59	121kmX
			i	33	49.20		SBF	47.88	300	iPc	33	48.80	-0.2						esPd	35	09.35	
			i	34	41.80		DBN	47.90	311	iP+	33	49.00	0.1						e	36	03.72	
			i	35	13.70			Z 20s		2.50um			5.2Msz			MAT	53.55	68	iPc	34	30.00	-1.8
SFI	44.74	299	P	33	24.60	0.4				epP	34	17.00	120kmX				1.8s	1045.45nm			6.5mb	
OGA	44.83	303	iPc	33	24.40	-0.7				iPP	35	42.00							eS	41	53.00	
PGD	44.84	299	iPd	33	25.90	0.7				eS	40	40.00				JAU	53.57	301	P	34	32.01	-0.1
			ipP	33	53.80	121kmX				e(sS)	41	26.00				SAP	53.64	59	eP	34	30.00	-2.3
LOF	44.85	334	iPd	33	24.40	-0.3				eSS	44	30.00				MRRJ	53.66	60	eP	34	30.80	-1.6
MCT	44.88	290	P	33	27.30	1.7	AURF	47.95	300	P	33	49.39	-0.2			EBR	53.67	298	ePc	34	32.00	-0.5
FAI	44.95	289	Pd	33	28.40	2.5	REVF	47.95	300	P	33	49.07	-0.5			YRH	53.67	313	eP	34	31.40	-1.0
MDJ	45.03	60	eP	33	26.30	-0.2	PZZ	47.97	301	P	33	47.57	-2.2				1.0s	168.00nm			6.0mb	
	4.0s	2500.00nm			6.3mb X		TOUF	47.98	300	P	33	50.13	0.2			ESCF	53.70	301	P	34	31.99	-0.9
	Z 20s	7.00um			5.6Msz		VITF	47.98	306	P	33	49.50	-0.1			IIDJ	53.72	69	P	34	31.50	-1.6
	N 10s	1.50um					LPG	48.00	302	iPc	33	49.90	-0.2			EROQ	53.73	298	iPc	34	32.40	-0.6
	E 14s	3.00um						1.6s	631.60nm			6.2mb				AOMJ	53.76	63	eP	34	32.80	-0.4
			esP	34	05.00		LPL	48.00	302	iPc	33	50.10	0.0			LHE	53.79	301	P	34	33.30	-0.3
			ePcP	35	03.00		MVIF	48.07	300	P	33	50.50	0.0			ATE	53.79	301	P	34	32.90	-0.6
																MADF	53.85	301	P	34	32.66	-1.3

15d 14h

ISSF	53.87	301	P	34	33.50	-0.7
NIIJ	53.90	67	P	34	33.40	-0.9
ELYF	53.97	301	P	34	33.48	-1.3
BOH	54.00	301	P	34	34.26	-0.9
TSM	54.03	114	ePc	34	34.00	-1.5
ASAJ	54.22	58	eP	34	34.40	-2.2
CHJJ	54.32	68	P	34	36.60	-0.9
YAMJ	54.33	65	P	34	36.50	-1.0
LWI	54.37	235	eP+	34	38.20	-0.1
			i	35	05.80	115kmX
ECP	54.86	313	iPd	34	40.80	-0.3
	1.0s	249.00nm				6.1mb
DAG	55.06	344	iPc	34	41.60	-0.7
	1.3s	1538.46nm				6.8mb
Z	20s	2.13um				5.2Msz
N	20s	0.28um				
E	20s	0.71um				
ACU	55.11	295	eP	34	43.40	0.1
ECHE	55.14	297	iPc	34	43.40	0.0
KAKJ	55.15	68	P	34	42.40	-1.0
ECRI	55.20	301	iPc	34	43.70	-0.2
OFUJ	55.20	64	P	34	43.00	-0.8
ETOR	55.49	299	iPc	34	44.70	-1.3
KUSJ	55.97	58	eP	34	46.70	-2.5
EALH	56.09	295	iPd	34	50.50	0.3
EVIA	56.60	296	iPc	34	53.10	-0.8
BKB2	56.96	120	ePc	35	01.50	4.9X
ENIJ	57.02	294	iPc	34	55.80	-1.0
GUD	57.04	299	iPc	34	56.00	-1.1
BCAO	57.07	249	iPc	34	55.71	-1.7
	0.7s	110.00nm				6.0mb
			ePPd	35	23.52	115kmX
			i	36	17.30	
			i	37	54.90	
AKU	57.19	330	iP	34	58.90	1.3
	1.2s	225.00nm				6.0mb
VAL	57.22	313	iP	34	58.00	0.0
			PcP	35	36.00	
			S	43	10.00	
TOL	57.25	298	iPc	34	56.78	-1.6
	1.1s	835.44nm				6.7mb
			ipP	35	27.50	129kmX
			e	37	05.64	
			iPP	37	07.00	
			ipPP	37	42.00	
			ePPP	38	05.00	
			iS	42	44.00	
			isS	43	31.00	
EBAN	57.71	296	iPc	35	00.80	-0.8
AFC	57.88	295	iPc	35	01.40	-1.6
DAV	57.90	106	ePc+	35	03.80	0.6
	2.0s	1411.77nm				6.6mb
			eS	42	58.50	
ASMO	57.99	295	iPc	35	01.97	-1.7
TAF	58.02	292	iPd	35	04.00	0.1
APHE	58.11	295	iPc	35	03.19	-1.4
ACHM	58.15	295	iPd	35	03.85	-1.0
AAPN	58.28	295	iPc	35	03.74	-2.1
ALOJ	58.35	295	iPd	35	05.14	-1.2
ATEJ	58.36	295	iPd	35	04.98	-1.4
EPLA	58.62	299	iPc	35	07.40	-0.6
MAL	58.73	295	iPc	35	07.00	-1.7
			iS	43	02.00	
TRT	58.87	129	ePc	35	06.90	-3.0X
	0.6s	58.80nm				5.8mb
EHOR	58.90	296	iPc	35	09.00	-0.9
REY	59.20	329	iP	35	13.70	2.1
EPRU	59.23	295	eP	35	11.10	-1.2
EJIF	59.62	295	iPd	35	13.70	-1.2
OJEN	59.81	295	iP	35	14.50	-1.8
MOMI	59.86	295	iP	35	23.00	6.5X
PLAT	59.97	295	iP	35	18.00	0.7
NKM	59.99	294	iPc	35	18.80	1.4
CNIL	60.08	295	iP	35	18.00	0.0
EVAL	60.08	297	iPc	35	17.00	-1.0
IFR	60.60	292	iPc	35	21.50	-0.3
			i	36	08.50	204kmX
RHKI	61.27	127	ePd	35	22.90	-3.4X
			e	47	32.00	
LIS	61.34	299	iPc	35	25.40	-1.1
MKS	61.56	121	iPd	35	28.00	-0.3
AVE	62.42	293	iP	35	33.00	-0.7
			i	35	56.00	91kmX
TIO	63.38	290	iPc	35	39.40	-0.9
			i	36	08.50	119kmX
MBC	67.81	3	iPc	36	07.90	0.1
	1.3s	1253.00nm				6.7mb
			pP	36	46.00	159kmX
KUPT	67.93	122	eP	36	20.60	11.2X
	1.0s	554.70nm				
BUL	68.47	222	iPd	36	06.00	-6.8X
	1.2s	31.25nm				5.1mb
			ipP	36	34.50	114kmX
			i	44	58.00	
			i	45	45.50	
GUMO	69.62	88	eP	36	18.50	-1.4
			eS	45	15.00	
GUA	69.69	88	eP	36	17.70	-2.6
CFTV	69.78	291	iPd	36	21.00	0.3
SHGH	70.76	263	eP	36	26.00	-0.7
			e	36	58.00	129kmX
KOGH	70.83	263	eP	36	33.00	5.8X
KUK	70.87	264	eP	36	18.00	-9.4X
TEGH	70.89	263	eP	36	23.00	-4.6X
LEGH	71.03	263	eP	36	17.00	-11.4X
			e	37	00.00	179kmX
GGC	71.11	291	iPd	36	29.00	0.2
WEGH	71.18	263	eP	36	29.00	-0.3
			e	37	01.00	129kmX
CTFE	71.39	292	ePd	36	31.00	0.6
NANU	72.22	137	eP	36	35.40	0.2
	0.5s	20.00nm				5.2mb
IMA	72.70	17	ePc	36	37.20	-0.5
			epP	37	06.80	117kmX
CHIE	73.06	292	iPc	36	40.60	0.4
LKO	73.16	270	Pc	36	39.04	-2.0
MBL	73.62	132	iPc	36	43.10	-0.3
	0.7s	51.00nm				5.4mb
KSR	74.02	220	iPc	36	44.60	-1.3
			i	37	13.40	113kmX
KIC	74.30	266	P	36	46.16	-1.4
	0.9s	74.50nm				5.5mb
TIC	74.36	267	P	36	46.54	-1.4
INK	74.43	9	iPc	36	47.20	-0.2
	1.1s	860.00nm				6.5mb
			pP	37	17.00	118kmX
PRY	74.59	219	iPc	36	48.00	-1.1
	1.2s	150.00nm				5.7mb
			i	37	16.20	110kmX
LIC	74.61	266	P	36	47.60	-1.8
Z	20s	1.10um				5.1Msz
TTA	74.61	20	ePc	36	48.80	0.1
			e	37	19.00	119kmX
ADK	74.67	36	eP	36	47.50	-1.6
COL	75.03	16	iPc	36	51.08	0.1
			epPc	37	19.22	110kmX
			isPd	37	30.81	
FBA	75.03	16	ePc	36	50.90	-0.1
MTN	75.09	118	eP	36	51.00	-1.0
			e	37	21.00	118kmX
FRB	75.36	342	eP	36	52.00	-0.8
KNA	75.43	122	iPc	36	54.40	0.5
	0.6s	123.00nm				5.9mb
SVW	76.18	21	ePc	36	58.00	0.4
			epP	37	28.50	120kmX
MEKA	77.09	137	iPc	37	02.90	-0.1
	0.9s	164.00nm				5.8mb
DWY	77.48	13	Pc	37	04.50	-0.1
PMR	77.55	18	ePc	37	04.50	-0.5
	1.4s	273.30nm				5.9mb
			epP	37	34.80	119kmX
MRWA	77.79	140	eP	37	06.30	-0.5
	0.4s	11.00nm				5.0mb
TOA	77.82	17	ePc	37	07.10	0.4
FRS	77.98	219	iPc	37	08.50	0.7
	0.3s	51.95nm				5.8mb
			i	37	40.00	124kmX
SDN	79.11	27	eP	37	13.20	-0.5
BAL	79.27	141	eP	37	14.00	-0.9
MBO	79.60	280	iP	37	16.50	-0.5
KDC	79.85	22	ePc	37	17.50	-0.1
			epP	37	48.20	120kmX
MID	80.12	18	ePc	37	19.90	0.9
MUN	80.12	142	eP	37	18.70	-0.7
MNDI	80.21	105	eP	37	21.00	0.5
POF	80.55	223	iPc	37	23.00	1.3
	1.0s	125.00nm				5.7mb
			i	37	52.00	113kmX
KLB	80.60	141	eP	37	20.80	-1.1
	0.8s	76.00nm				5.6mb
WARB	81.50	131	eP	37	27.00	0.3
	0.4s	4.00nm				4.6mb X
YKA	81.72	2	eP	37	27.20	-0.1
	1.1s	88.60nm				5.5mb
COOL	81.84	138	eP	37	28.00	-0.4
	0.7s	106.00nm				5.8mb
WB5	82.12	121	iP	37	29.10	-1.0
			i	37	58.30	113kmX
			i	39	41.50	
			e	47	34.40	
WRA	82.15	121	Pd	37	30.30	0.1
	0.6s	24.60nm				5.2mb
RKG	82.20	143	eP	37	33.00	2.8X
	0.5s	58.00nm				5.7mb
SCH	82.33	337	ePc	37	31.00	0.3
	1.0s	103.00nm				5.6mb
			pP	38	12.60	168kmX
TUH	84.00	221	iPc	37	40.00	0.6
	1.0s	180.00nm				5.9mb
			i	47	57.50	
SIT	84.73	14	eP	37	43.80	1.0
FORR	85.77	133	eP	37	48.00	-0.2
	0.4s	52.00nm				5.8mb
QIS	86.25	119	iPc	37	49.80	-1.0
			i	38	19.60	114kmX
FFC	89.36	356	iPc	38	05.20	-0.1
	1.3s	182.00nm				6.0mb
CTA	90.77	114	iPc	38	11.80	-0.5
	1.2s	157.81nm				6.1mb
			i	38	41.80	114kmX
			iSKS	48	40.00	
			e	49	23.00	
CTAO	90.77	114	iPc	38	11.30	-1.0
			ipPd	38	41.42	115kmX
			isPc	38	53.18	
EDM	91.04	2	iPc	38	13.00	-0.2
RSON	92.35	350	ePd	38	18.50	-0.7
	1.5s	2422.24nm				7.3mb X
			pP	38	48.60	114kmX
QLP	93.34	121	eP	38	24.00	0.0
			e	38	54.00	114kmX
HBVT	93.39	335	P	38	24.80	0.7
WNY	93.63	335	P	38	25.80	0.5
RSNY	93.72	336	P	38	26.40	0.7
	1.5s	69.12nm				5.8mb
SES	93.92	1	ePc	38	26.50	0.0
	1.2s	175.00nm				6.3mb
			pP	38	57.00	116kmX
HRV	94.46	333	iPDIFc	38	29.26	0.2
PNT	94.55	7	eP	38	29.00	-0.4
PGC	94.78	9	eP	38	32.00	1.6
MCW	94.83	9	P	38	31.90	1.2
NEW	95.80	5	ePd	38	35.10	-0.1
	1.8s	1644.74nm				7.2mb X
			pP	39	08.30	128kmX
GMW	95.95	9	P	38	36.30	0.5
RMW	96.15	8	P	38	37.70	0.8
RMQ	96.48	118	eP	38	38.00	-0.4
			e	39	09.00	118kmX
LON	96.85	8	P	38	40.70	0.7
ELF	97.04	340	P	38	41.15	0.3
LDN	97.14	339	P	38	41.50	0.2
DLA	97.42	340	P	38	42.50	0.0
SCP	98.18	336	ePDIFc	38	45.15	-0.8
LRM	98.47	2	eP	38	48.30	0.8
RSSD	100.05	356	Pdiff	38	54.60	0.1
IMW	100.43	1	Pdiff	38	58.00	1.7
WDC	102.82	10	e(Pdif	39	07.00	0.4
			e	39	48.40	
CCM	104.34	345	iPdiff	39	13.59	0.2
			ePP	43	31.96	
			i	44	08.21	
KVN	104.86	7	Pdiff	39	17.30	1.3
			pP	39	50.60	
TUL	107.27	348	e(Pdif	39	44.00	17.5X
	0.8s	4.30nm				
ANMO	109.32	357	ePdiff	39	37.42	1.6
ALQ	109.32	357	ePdiff	39	28.50	-7.4X
Z	21s	2.26um				5.7Msz
SBA	126.26	165	e(PKP)	44	09.90	-0.3
SIV	132.60	282	PKP	44	23.00	-1.0
ZOBO	138.29	287	PKP	44	26.00	-9.5X
	1.1s	34.80nm				
Z	22s	0.69um				5.3Msz
			i	44	34.50	
			LR	41	26.00	
LPB	138.43	287	PKP	44	31.00	-4.5X
Z	18s	2.06um				5.9Msz
			LR	41	12.00	
ARE	141.00	290	ePKP	44	36.00	-4.0X
PT08	141.77	300	ePKP	44	37.10	-4.4X

```
NNA   142.00 301 ePKP  44 36.00  -5.5X
       1.1s    27.85nm
PT03  142.62 297 e(PKP)44 39.30  -3.2X
CFA   145.56 265 iPKPc 44 47.00  -0.1
ZON   145.90 266 ePKP  44 48.00   0.3
RTCB  145.98 266 iPKPd 44 49.00   1.1
RTBS  146.56 266 e(PKP)44 50.20   1.6
PCH   147.99 263 ePKP  44 52.50   1.4
PEL   148.00 264 iPKPd 44 52.00   1.0
       2.2s   346.15nm
                 i     45 22.10
SAN   148.07 263 ePKP  44 52.00   0.9
ROCH  148.21 264 ePKP  44 52.50   0.9
TACH  148.34 263 ePKP  44 52.50   1.0
IHA   148.74 264 e(PKP)44 52.50   0.4
LNV   148.80 262 ePKP  44 53.00   0.8
LCCH  148.80 263 ePKP  44 54.00   1.8
     S.D. = 1.0  on 492 of 525 obs.
-----------------------------------------
   MAY 15, 1990  15h 21m 26.26± 0.42s
    3.225 S ± 7.2km   35.744 E ± 6.1km
   DEPTH =   5.0km  (geophysicist)
   5.3mb ( 36 obs.)  4.8Msz (  3 obs.)
 TANZANIA                          (573)
      Felt ot Nairobi, Kenyo.
      CENTROID, MOMENT TENSOR      (HRV)
      Doto Used: GDSN
      L.P.B.: 12S, 19C
      Centroid Locotion:
      Origin Time          15:21:28.4 1.7
      Lot  3.43S 0.14 Lon  35.77E 0.10
      Dep  15.0 BDY Holf-duration  2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-1.52 0.10  Mtt= 0.57 0.10
        Mff= 0.95 0.15  Mrt= 0.06 0.42
        Mrf= 0.87 0.39  Mtf=-0.23 0.10
       Principol Axes:
        T  Vol=  1.29  Plg=16  Azm=253
        N        0.52      8       346
        P       -1.81     72       100
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike=332 Dip=29 Slip=-106
       NP2:       170     62       -81

NAI    2.21  29 iPd   21 59.80  -4.5X
      1.0s  1050.00nm
LWI    7.01 278 iP+   23 10.40  -1.9
                iS    24 15.40
KRI   14.80 204 iPn   24 48.10 -10.2X
                iSn   27 30.00
                iSg   29 02.00
ARO   16.27  26 iPd   25 15.50  -1.8
BUL   18.20 202 iPn   25 42.00   0.4
                iSn   29 05.30
                iSg   31 12.90
BCAO  18.80 294 iPc   25 48.90  -0.1
      1.1s   464.00nm        5.6mb
                i     27 12.90
                i     28 49.80
                i     30 24.70
                i     32 00.70
PRY   24.86 198 eP    26 53.00   1.6
ASW   27.28 354 iPc   27 08.00  -5.7X
                eS    32 00.00
MBH   32.82 359 e(P)  28 02.00  -0.9
HLW   33.16 353 eP    28 06.00   0.1
                eS    33 30.00
KOT   33.18 354 eP    28 06.50   0.5
PRNI  33.39 359 eP    28 20.00  12.1X
TUH   33.70 206 eP    28 10.00  -0.6
      1.0s    20.00nm        5.0mb
                (S)   34 33.50
BHD   37.21  12 ePc   28 41.00   0.6
SLY   39.69  12 ePc   29 02.50   1.4
                e     39 15.00
                e     43 18.00
MSL   40.00   9 ePd   29 07.00   3.2X
                e     39 19.50
                e     42 37.50
ELL   40.14 353 eP    29 07.00   2.0
BCK   40.76 354 iP    29 12.00   1.9
TEH   41.43  19 eP    29 18.00   2.3
KHL   41.74 353 eP    29 20.00   1.9
LIC   41.78 283 P     29 20.10   1.4
TIC   41.86 284 P     29 21.10   1.8
TAB   42.24  12 eP    29 24.00   1.7
ALT   42.39 353 eP    29 23.00  -0.4

BBTK  42.94 357 eP    29 29.00   1.0
GPA   43.59 354 eP    29 34.00   0.9
KOD   43.64  72 eP    29 33.00  -1.3
GBA   44.61  67 Pd    29 39.80  -1.9
      1.3s    65.50nm        5.4mb
QUE   44.65  40 eP    29 41.50  -0.6
                ePP   31 28.00
CTT   44.66 352 eP    29 43.00   1.2
LIT   44.80 346 ePc   29 39.50  -3.4X
MAIO  45.14  27 eP    29 41.00  -4.8X
                e     31 30.00
SOH   45.28 347 ePc   29 47.50   0.7
SRS   45.50 347 ePc   29 48.60   0.1
GRG   45.63 346 ePc   29 50.60   1.1
KDZ   45.64 349 eP    29 50.00   0.4
KNT   45.70 346 ePc   29 50.90   0.8
FNA   45.73 345 ePc   29 51.40   1.1
MMB   45.92 347 eP    29 52.00   0.1
VAY   45.93 346 iP    29 53.00   1.1
DIM   46.01 349 eP    29 50.00  -2.4
OHR   46.19 344 eP    29 55.00   1.1
      0.8s    41.00nm        5.5mb
PLD   46.22 349 eP    29 56.00   1.9
TDS   46.25 339 P     29 58.60   4.2X
SKO   46.82 345 eP    30 00.50   1.6
                i     30 02.50
                i     31 52.00
                i     36 51.00
                i     39 59.00
                i     40 28.00
HYB   46.95  63 eP    30 00.00  -0.3
BUC1  48.15 351 ePc   30 12.00   2.7X
CFR   48.67 353 eP    30 13.00  -0.3
CMP   49.21 350 ePc   30 21.00   3.5X
MLR   49.28 351 ePc   30 19.50   1.3
BEO   49.75 346 eP    30 22.50   0.9
MNS   49.98 338 Pc    30 24.40   0.9
BZS   50.23 347 eP    30 24.00  -1.2
NDI   50.90  49 eP    30 30.50  -0.2
VBY   51.83 342 e(P)  30 39.00   1.6
ZAG   51.89 343 eP    30 39.70   1.8
RIY   51.96 341 eP    30 39.40   1.0
PTJ   51.97 343 eP    30 39.50   0.9
CEY   52.30 341 eP    30 41.50   0.4
TRI   52.49 341 eP    30 45.00   2.6X
LJU   52.54 341 e(P)  30 44.00   1.2
VOY   52.73 341 eP    30 45.00   0.6
SRO   53.07 345 eP    30 47.00   0.3
                i     59 07.00
                i     59 24.60
SOP   53.42 344 eP    30 50.00   0.7
FVI   53.59 340 Pc    30 52.10   1.6
ZST   53.74 345 eP    30 51.90   0.3
SPC   53.91 347 eP    30 54.00   0.9
APHE  54.24 321 iPd   30 59.20   3.5X
VAI   54.42 337 P     30 58.70   2.1
ATEJ  54.43 321 iPc   30 58.60   1.5
ASMO  54.53 322 iPc   31 00.70   2.9X
BHG   54.55 341 eP    30 57.60   0.0
ALOJ  54.60 321 iPc   31 00.00   1.7
SQTA  54.67 340 eP    30 59.00   0.3
                i     31 11.50
                i     33 04.50
AAPN  54.74 321 iPc   31 01.00   1.7
KRA   54.79 348 eP    30 59.60   0.3
      1.8s   160.00nm        5.7mb
    Z 15s      1.10um        5.1MszX
                e     38 49.00
LPG   54.93 335 eP    30 59.00  -1.8
      1.0s    20.00nm        5.1mb
LPL   54.96 335 eP    30 59.60  -1.3
      1.2s    32.75nm        5.2mb
KHC   55.58 343 iPc   31 05.20   0.0
      1.4s    44.00nm        5.3mb
    Z 11s      1.10um        5.2MszX
                e     33 06.50
EPF   56.03 329 eP    31 06.50  -2.0
      1.4s    34.85nm        5.2mb
PRU   56.07 344 eP    31 07.80  -0.8
                e     31 20.00
BBS   56.23 337 P     31 09.70  -0.2
KSH   56.31  37 P     31 11.00   0.4
TOL   56.31 324 eP    31 08.00  -2.5
                eS    39 03.00
                eSS   42 32.00
KSP   56.38 345 eP    31 10.50  -0.3
FEL   56.38 338 P     31 10.51  -0.5

LOMF  56.41 337 P     31 11.10  -0.1
DMN   56.54  54 P     31 11.20  -1.5
      0.8s    23.00nm        5.3mb
CAF   56.57 332 eP    31 10.40  -1.9
      1.2s    26.80nm        5.1mb
MOF   56.70 337 P     31 12.93  -0.3
PKI   56.77  54 P     31 12.40  -2.1
GRF   56.81 341 eP    31 13.90   0.0
    Z 19s      0.60um        4.7Msz
                e     31 23.50
                e     31 48.70
LPO   56.81 331 eP    31 12.00  -2.0
      1.2s    23.80nm        5.1mb
BSF   56.81 337 P     31 12.95  -1.2
ECH   56.99 338 P     31 14.81  -0.4
BRG   57.03 344 eP    31 15.80   0.3
      1.8s    42.00nm        5.2mb
                eS    39 16.00
SMF   57.08 334 eP    31 13.30  -2.6
      1.2s    26.80nm        5.1mb
CDF   57.10 338 P     31 15.07  -1.1
RJF   57.11 332 eP    31 13.80  -2.3
      1.0s    20.00nm        5.1mb
LFF   57.21 331 eP    31 14.80  -2.0
      1.2s    35.70nm        5.3mb
LBF   57.29 335 eP    31 14.40  -3.0X
      1.2s    23.80nm        5.1mb
GUN   57.29  54 P     31 16.00  -2.2
MAF   57.32 333 eP    31 15.90  -1.7
      1.2s    35.70nm        5.3mb
AVF   57.40 334 eP    31 15.60  -2.5
      1.2s    32.75nm        5.2mb
GWF   57.44 338 P     31 17.46  -1.0
VITF  57.44 337 P     31 16.83  -1.5
BGF   57.45 334 eP    31 16.10  -2.4
      0.8s    13.45nm        5.0mb
MOX   57.52 342 eP    31 19.00   0.1
      2.0s   108.00nm        5.5mb
TCF   57.53 333 eP    31 17.30  -1.8
      1.2s    56.55nm        5.5mb
SSF   57.55 334 eP    31 16.20  -3.0X
      1.2s    14.90nm        4.9mb
LOR   57.56 335 eP    31 16.50  -2.8
      1.2s    26.80nm        5.1mb
CLL   57.69 343 iPc   31 19.70  -0.4
      2.0s    86.00nm        5.4mb
                e     39 22.00
                eSg   59 12.00
LSF   57.81 333 eP    31 19.00  -2.0
      1.2s    32.75nm        5.2mb
DOU   59.50 337 P     31 34.00   1.3
                S     39 50.00
LDF   60.30 333 eP    31 35.60  -2.7
      0.8s    13.45nm        5.1mb
LPF   60.31 332 eP    31 35.80  -2.5
      0.8s    13.45nm        5.1mb
GRR   60.49 333 eP    31 36.40  -3.1X
      1.2s    26.80nm        5.2mb
NUR   64.14 354 iP    32 03.80   0.2
UPP   64.49 350 iP    32 06.20   0.2
                iS    40 48.00
HFS   65.49 348 eP    32 12.00  -0.5
      1.7s   101.10nm        5.8mb
    Z 18s      0.41um        4.7Msz
                LR    57 42.00
SNG   65.56  81 eP    32 12.90  -0.8
IPM   65.68  84 ePc   32 15.40   0.8
      1.2s    90.90nm        5.9mb
CHG   65.89  68 eP    32 15.20  -0.5
WMQ   65.99  39 Pd    32 15.00  -1.1
    E 24s      1.20um
                PP    34 35.20
SUF   66.17 355 iP    32 16.90   0.2
      0.7s    29.60nm        5.6mb
NB2   66.84 347 P     32 20.40  -0.8
      1.4s    51.50nm        5.5mb
MAW   66.91 169 eP    32 25.00   3.6X
KMI   70.72  62 Pc    32 46.50   0.4
      3.0s     0.20nm        2.7mb X
    Z 30s      1.40um        5.0MszX
                S     42 58.00
SOD   70.73 356 iP    32 45.40   0.4
GTA   72.37  47 Pd    32 55.00  -0.6
CD2   72.98  56 eP    32 59.20  -0.1
KEV   73.07 357 eP    33 00.00   1.1
LZH   74.40  51 eP    33 07.50  -0.1
      5.0s   700.00nm        5.9mb X
```

15d 15h

	Z 29s	1.40um			5.1MszX	
	N 18s	0.70um				
		ePP	35	54.00		
		eS	42	52.00		
GYA	74.47	62 P	33	08.00	-0.1	
XAN	77.95	54 P	33	26.60	-0.9	
BTO	80.22	48 P	33	41.00	1.2	
HHC	81.42	48 eP	33	47.40	1.3	
	6.0s	1100.00nm			6.1mb X	
TIY	81.47	51 Pd	33	47.50	1.1	
	Z 20s	1.80um			5.4Msz	
	E 20s	1.90um				
BJI	84.74	49 eP	34	05.00	2.1	
	5.0s	810.00nm			6.2mb X	
	Z 24s	1.53um			5.3MszX	
		eS	44	34.00		
DAG	85.46	349 iPc	34	08.00	2.1	
	1.2s	42.19nm			5.5mb	
NJ2	85.86	58 Pd	34	09.00	0.3	
	5.0s	700.00nm			6.1mb X	
	Z 24s	0.50um			4.8MszX	
		S	44	39.00		
SPA	86.80	180 eP	34	19.30	6.4X	
	2.6s	200.00nm			5.9mb	
WRA	96.98	110 P	35	04.00	3.2X	
	1.2s	10.10nm			5.3mb	
WB5	97.01	110 eP	35	05.00	4.0X	
SES	125.28	335 ePKP	40	33.00	3.1X	
RSSD	126.00	325 PKP	40	33.40	1.6	
BW06	129.95	327 PKP	40	40.80	1.4	
KVN	137.13	330 (PKP)	40	58.10	5.0X	
TNP	137.40	328 PKP	40	59.60	6.0X	
GSC	139.19	325 ePKP	41	01.00	4.2X	
CLC	139.27	326 ePKP	41	01.00	4.1X	
GLA	139.52	321 ePKP	41	04.00	6.6X	
SBB	140.21	325 ePKP	41	04.00	5.3X	
	S.D. = 1.3	on 126 of 153 obs.				

---

* MAY 15, 1990 15h 59m 02.10± 1.68s
0.767 S ±11.8km 122.630 E ±12.5km
DEPTH = 48.7 ± 18.8 km
4.6mb (4 obs.)
MINAHASSA PENINSULA (265)

MKS	5.43	215 ePd	00	22.10	-0.5	
BKB2	5.75	265 iPc	00	31.70	4.5X	
AAI	6.27	118 ePd	00	35.90	1.5	
TSM	6.73	317 eP	00	39.80	-1.1	
KKM	9.32	317 ePc	01	20.00	3.2X	
MTN	14.66	145 iPc	02	32.90	4.6X	
	0.8s	75.00nm			5.1mb X	
W85	22.20	150 eP	03	56.20	0.3	
IPM	22.23	284 ePd	04	01.90	5.7X	
WRA	22.24	150 Pd	03	55.00	-1.3	
	1.0s	16.70nm			4.4mb	
QIS	25.73	141 iPc	04	29.80	-0.1	
LOE	27.39	312 eP	04	50.00	4.9X	
CHG	30.33	311 eP	05	14.00	2.4	
KMI	32.14	325 eP	05	29.00	1.4	
MAT	39.84	20 eP	06	30.00	-2.6	
	0.8s	11.19nm			4.7mb	
LZH	40.62	336 eP	06	40.00	0.8	
GUN	45.35	312 P	07	18.30	0.3	
	0.6s	29.00nm			5.3mb	
PKI	45.52	311 P	07	18.40	-0.9	
DMN	45.76	311 P	07	21.10	-0.1	
GBA	47.00	289 Pc	07	36.80	6.1X	
	0.5s	1.00nm			4.0mb	
HYB	47.01	295 eP	07	30.50	-0.4	
		e	07	53.00		
	S.D. = 1.5	on 14 of 20 obs.				

MAY 15, 1990 16h 24m 19.51± 0.26s
3.075 S ± 4.8km 35.891 E ± 4.2km
DEPTH = 5.0km (geophysicist)
5.5mb (51 obs.) 5.2Msz (5 obs.)
TANZANIA (573)
Felt at Nairobi, Kenya.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 16:24:25.3 0.8
Lat 3.12S 0.08 Lon 35.40E 0.07
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr=-1.42 0.10 Mtt= 2.55 0.10
Mff=-1.13 0.14 Mrt= 0.76 0.41
Mrf=-0.38 0.27 Mtf= 0.06 0.10
Principal Axes:
T Val= 2.69 Plg=11 Azm= 0
N -0.90 30 96
P -1.79 58 253
Best Double Couple:Mo=2.2*10**17
NP1:Strike= 59 Dip=43 Slip=-136
NP2: 294 62 -56

NAI	2.01	27 iP	24	52.00	-2.6	
	1.0s	1050.00nm				
LWI	7.13	277 iP-	26	05.30	-2.0	
		iS	27	09.20		
ARO	16.07	25 iPd	28	08.20	0.1	
BUL	18.39	202 iPn	28	34.80	-2.5	
		iSn	31	25.50		
BCAO	18.88	293 ePc	28	37.90	-5.2X	
	0.6s	93.00nm			5.2mb	
		i	30	09.00		
		i	31	45.20		
		i	33	20.50		
ASW	27.15	354 eP	30	08.00	2.3	
		eS	34	56.00		
MBH	32.67	358 eP	30	55.00	0.1	
HLW	33.03	353 eP	30	58.70	0.7	
		ePP	32	09.00		
		ePPP	32	19.00		
		eS	36	26.00		
PRNI	33.24	359 e(P)	31	00.00	0.1	
TUH	33.90	206 iPd	31	05.00	-0.6	
	1.0s	30.00nm			5.2mb	
		S	36	06.00		
DSI	34.46	359 eP	31	12.00	1.7	
BHD	37.03	12 ePc	31	34.00	1.8	
		ePcP	33	02.00		
		eS	38	19.00		
		e	39	25.00		
LFK	38.22	357 iP	31	43.80	1.6	
SLY	39.51	12 iPd	31	54.00	1.1	
		e	34	02.50		
		e	36	51.50		
MSL	39.83	9 ePd	31	56.50	0.9	
		e	42	31.50		
		e	45	02.00		
ELL	40.01	353 eP	31	59.10	1.9	
YER	40.63	351 iP	32	03.90	1.7	
TEH	41.24	19 eP	32	09.00	1.6	
KHL	41.61	352 eP	32	11.20	0.9	
LIC	41.89	283 (P)	32	12.18	-0.6	
TIC	41.97	283 (P)	32	12.92	-0.6	
TAB	42.06	12 eP	32	16.00	1.9	
POO	43.10	59 iPd	32	21.20	-1.5	
LKO	43.19	287 P	32	22.64	-0.8	
	0.7s	19.50nm			4.9mb	
KOD	43.46	72 eP	32	26.00	0.0	
AGG	43.72	345 eP	32	27.20	-0.2	
YLV	43.84	353 iP	32	29.40	1.0	
PAIG	44.24	347 eP	32	31.90	0.3	
GBA	44.42	67 Pd	32	32.20	-1.2	
	1.0s	66.80nm			5.5mb	
QUE	44.44	40 eP	32	34.70	1.1	
	1.1s	44.30nm			5.2mb	
		ePP	34	19.50		
LIT	44.69	345 eP	32	34.90	-0.4	
MAIO	44.94	27 eP	32	37.00	-0.5	
ATN	45.18	337 P	32	40.60	1.4	
SRS	45.39	347 eP	32	40.70	-0.2	
GRG	45.52	346 eP	32	41.80	-0.1	
KDZ	45.52	349 iPd	32	43.00	1.1	
KNT	45.59	346 eP	32	42.90	0.4	
FNA	45.62	345 eP	32	42.90	0.2	
RZN	45.70	348 iPd	32	44.00	0.5	
MMB	45.81	347 eP	32	44.00	-0.2	
VAY	45.82	346 iPd	32	44.60	0.4	
OHR	46.08	344 iP	32	47.00	0.6	
	2.0s	280.00nm			5.9mb	
		e	33	06.20		
TDS	46.17	339 P	32	48.30	1.3	
KKB	46.22	347 iPd	32	47.00	-0.4	
ORI	46.49	339 Pc	32	50.50	1.0	
SKO	46.72	345 iP	32	51.30	0.0	
		i	34	42.00		
		i	39	42.00		
		i	43	20.00		
HYB	46.75	63 eP	32	50.00	-2.0	
	1.2s	42.90nm			5.4mb	

PVL	47.05	349 iPd	32	54.00	0.1	
CFR	48.54	353 eP	33	05.00	-0.5	
CMP	49.09	350 ePc	33	13.00	3.1X	
MLR	49.16	351 ePd	33	11.00	0.5	
VRI	49.41	352 ePd	33	12.50	0.3	
BEO	49.64	346 eP	33	14.00	0.0	
BZS	50.11	347 ePc	33	17.00	-0.6	
NDI	50.69	49 iPd	33	22.50	0.1	
	1.1s	53.16nm			5.4mb	
VBY	51.73	342 e(P)d	33	30.40	0.4	
ZAG	51.79	342 iPd	33	31.20	0.8	
RIY	51.87	341 eP	33	30.90	-0.1	
PTJ	51.87	342 eP	33	32.90	1.8	
TAF	52.09	320 iP	33	34.00	1.1	
MME	52.19	337 P	33	31.20	-2.6	
CEY	52.21	341 ePd	33	33.90	0.3	
TRI	52.40	341 eP	33	34.90	-0.1	
LJU	52.44	341 e(P)	33	35.50	0.2	
BUD	52.48	346 eP	33	35.00	-0.6	
VOY	52.64	341 ePd	33	36.70	-0.2	
SRO	52.97	345 iP	33	39.80	0.6	
TIO	53.22	313 iPd	33	41.50	0.0	
LMR	53.24	333 eP	33	40.60	-0.7	
	1.2s	29.75nm			5.1mb	
SOP	53.31	344 iPd	33	41.20	-0.6	
LRG	53.40	333 eP	33	42.10	-0.3	
	1.0s	24.00nm			5.1mb	
FVI	53.50	340 Pd	33	43.40	0.3	
ZST	53.63	344 eP	33	43.80	-0.3	
		e	34	50.30		
SPC	53.79	347 iPd	33	44.80	-0.7	
VKA	53.91	344 iPd	33	46.20	0.1	
	3.5s	444.00nm			5.9mb X	
		i	33	50.90		
APHE	54.22	321 iPc	33	52.31	3.6X	
EBR	54.33	327 eP	33	52.00	2.7X	
VAI	54.34	337 Pd	33	47.90	-1.4	
KMR	54.36	342 iP-	33	49.40	0.0	
		iPP	35	56.80		
BHG	54.46	341 iPc	33	49.90	-0.3	
ASMO	54.51	321 iPc	33	51.42	0.6	
BNI	54.53	335 Pd	33	50.70	-0.2	
MAL	54.54	320 iP+	33	52.00	1.1	
		iS	41	36.00		
ALOJ	54.58	321 iPc	33	49.87	-1.5	
SQTA	54.58	340 iPc	33	49.40	-1.9	
	1.1s	26.70nm			5.2mb	
		i	33	51.10		
		i	34	54.60		
KRA	54.68	347 ePd	33	51.10	-0.6	
	1.5s	104.00nm			5.6mb	
	Z 18s	1.50um			5.1Msz	
		e	41	24.00		
AAPN	54.71	321 iPc	33	52.57	0.2	
LPG	54.86	335 eP	33	52.50	-1.0	
	1.2s	56.55nm			5.5mb	
LPL	54.88	335 eP	33	52.50	-1.1	
	1.4s	100.20nm			5.7mb	
KHC	55.48	342 iPd	33	56.30	-1.4	
	1.5s	71.00nm			5.5mb	
		e	34	30.00		
PRU	55.97	344 eP	33	59.60	-1.5	
		e	35	00.00		
EPF	55.98	329 eP	34	01.20	-0.1	
	1.2s	29.75nm			5.2mb	
KSH	56.10	37 P	34	03.40	1.0	
	E 12s	3.40um				
		sP	34	09.00		
BBS	56.15	337 eP	34	01.43	-1.1	
KSP	56.27	345 ePc	34	02.80	-0.5	
		e	35	01.20		
TOL	56.28	324 iPc	34	04.00	0.4	
	1.3s	134.62nm			5.8mb	
		eS	41	55.00		
		ePS	44	10.00		
FEL	56.30	338 eP	34	02.46	-1.2	
LOMF	56.33	337 eP	34	02.97	-0.9	
DMN	56.34	54 P	34	02.80	-1.7	
CAF	56.51	332 eP	34	05.10	0.0	
	1.2s	44.65nm			5.4mb	
PKI	56.57	54 P	34	03.80	-2.4	
	1.1s	51.00nm			5.5mb	
MOF	56.62	337 eP	34	04.78	-1.2	
BSF	56.73	337 eP	34	05.89	-0.9	
LPO	56.75	331 eP	34	06.70	-0.1	
	1.2s	41.65nm			5.3mb	
ECH	56.90	337 eP	34	06.76	-1.2	

BRG	56.93	344	eP	34	07.20	-0.8
	1.8s	52.00nm			5.3mb	
			e	34	44.00	
			i	35	04.00	
			e	36	14.50	
			e	42	20.00	
SMF	57.01	334	eP	34	08.10	-0.6
	1.2s	72.90nm			5.6mb	
CDF	57.02	338	eP	34	07.63	-1.2
HOF	57.05	342	iPc	34	08.10	-0.8
RJF	57.05	332	eP	34	08.90	-0.1
	1.1s	51.30nm			5.5mb	
GUN	57.09	54	P	34	08.00	-2.0
LFF	57.15	331	eP	34	09.80	0.1
	1.2s	68.45nm			5.6mb	
LBF	57.21	334	eP	34	09.50	-0.6
	1.2s	46.10nm			5.4mb	
MAF	57.25	333	eP	34	10.50	0.1
	1.2s	86.30nm			5.7mb	
AVF	57.33	334	eP	34	10.40	-0.5
	1.2s	77.35nm			5.6mb	
GWF	57.36	338	eP	34	10.32	-0.8
VITF	57.36	337	eP	34	10.28	-0.8
BGF	57.38	333	eP	34	11.00	-0.3
MOX	57.42	342	iPc-	34	11.00	-0.5
	1.8s	100.00nm			5.5mb	
TCF	57.46	333	eP	34	12.00	0.1
SSF	57.48	334	eP	34	11.10	-0.8
	1.2s	31.25nm			5.2mb	
LOR	57.49	335	eP	34	11.20	-0.8
	1.2s	59.50nm			5.5mb	
CLL	57.59	343	eP	34	11.00	-1.6
	1.7s	80.00nm			5.5mb	
			i	35	06.70	
LSF	57.75	332	eP	34	13.80	0.0
	1.2s	53.55nm			5.4mb	
MFF	58.79	332	eP	34	21.00	-0.1
	1.2s	44.65nm			5.4mb	
MEM	59.30	338	P	34	24.70	0.2
DOU	59.42	337	P-	34	25.80	0.4
			S	42	41.00	
ENN	59.46	338	eP	34	25.50	-0.1
	1.1s	24.00nm			5.2mb	
			e	35	13.00	
SNF	59.87	337	P	34	28.70	0.2
WTS	60.15	340	eP	34	31.00	0.6
	1.0s	29.00nm			5.4mb	
LDF	60.24	333	eP	34	30.50	-0.5
	1.2s	53.55nm			5.5mb	
LPF	60.25	332	eP	34	30.80	-0.3
	1.1s	53.70nm			5.6mb	
GRR	60.42	333	eP	34	31.70	-0.6
	1.2s	29.75nm			5.3mb	
FLN	60.52	333	eP	34	32.20	-0.8
	1.0s	16.00nm			5.1mb	
DBN	60.82	339	eP	34	36.00	1.1
Z	18s	0.90um			5.0Msz	
			ePP	36	52.00	
			eS	43	04.00	
			eSS	47	08.00	
WIT	60.88	340	eP	34	36.50	1.2
LSA	62.04	54	P	34	43.00	-1.2
NUR	64.00	354	eP	34	55.00	-1.0
UPP	64.37	350	iP	34	52.70	-5.7X
			i	35	33.40	
			iS	43	40.00	
HFS	65.38	348	eP	35	03.50	-1.5
	1.1s	49.20nm			5.6mb	
Z	17s	0.41um			4.7MszX	
			LR	00	49.00	
SNG	65.39	81	eP	35	05.10	-0.7
IPM	65.52	84	ePd	35	07.10	0.3
	1.0s	105.30nm			6.0mb	
CHG	65.70	68	ePd	35	06.90	-0.9
	1.4s	45.35nm			5.5mb	
WMQ	65.78	39	iPd	35	07.50	-0.5
	7.0s	1000.00nm			6.1mb X	
Z	17s	1.39um			5.2MszX	
			pP	35	11.70	13kmX
			PcP	35	36.00	
			ScS	45	05.00	
SUF	66.03	355	iP	35	09.00	-0.1
	1.0s	100.90nm			6.0mb	
NST	66.19	71	eP	35	11.00	0.1
EKA	66.46	337	P	35	12.00	0.0
	1.2s	14.10nm			5.1mb	
NB2	66.73	347	P	35	12.80	-0.9
	1.3s	69.50nm			5.7mb	
MAW	67.03	169	iPc	35	17.10	1.7
LOE	68.01	70	eP	35	21.00	-1.5
KMI	70.53	62	Pd	35	38.00	-0.2
	6.0s	600.00nm			5.9mb X	
Z	25s	0.70um			4.8MszX	
SOD	70.59	356	iP	35	37.20	-0.2
GTA	72.16	47	Pd	35	47.10	-0.5
	1.4s	57.00nm			5.5mb	
E	12s	0.40um				
CD2	72.77	56	eP	35	50.40	-0.9
			eS	45	21.50	
CAI	72.80	264	eP	35	52.20	0.5
KEV	72.93	357	iP	35	52.00	0.7
	1.2s	124.30nm			5.9mb	
LZH	74.19	51	eP	35	58.50	-1.1
	7.0s	740.00nm			5.8mb X	
Z	26s	0.90um			4.9MszX	
E	14s	0.40um				
			ePP	38	40.00	
			eS	45	32.00	
GYA	74.27	62	P	36	00.00	-0.2
QIZ	75.88	70	P	36	12.00	2.6X
TRT	76.47	97	ePd	36	11.70	-1.1
XAN	77.74	54	iPd	36	19.50	-0.1
AKU	78.78	340	iP	36	27.30	2.7X
	1.5s	77.78nm			5.5mb	
BTO	80.01	48	iPd	36	33.00	1.1
HHC	81.21	48	P	36	40.20	1.9
	6.0s	1100.00nm			6.1mb X	
TIY	81.27	51	Pd	36	39.60	1.1
Z	19s	1.50um			5.4Msz	
E	19s	1.10um				
KBS	82.86	355	iPd	36	48.00	2.1
BJI	84.53	49	eP	36	56.50	1.4
	5.0s	810.00nm			6.2mb X	
Z	19s	0.95um			5.2Msz	
			eS	47	22.00	
TIA	84.74	53	Pd	36	57.40	1.1
	1.5s	100.00nm			5.8mb	
DAG	85.34	349	iPd	36	59.00	0.5
	1.1s	94.94nm			5.9mb	
NJ2	85.66	58	Pd	37	01.50	0.6
	6.5s	600.00nm			5.9mb X	
SSE	87.54	59	P	37	08.00	-2.2
MDJ	94.78	46	eP	37	44.00	0.4
WRA	96.89	110	Pd	37	54.10	0.4
	1.0s	9.40nm			5.3mb	
WB5	96.92	110	eP	37	54.70	0.8
MBC	105.59	354	ePKP	42	43.00	-1.8
INK	114.48	356	ePKP	43	02.00	0.1
YKA	116.79	345	ePKP	43	06.00	-0.4
	0.9s	1.50nm				
SES	125.21	335	ePKP	43	23.00	0.0
RSSD	125.97	325	PKP	43	25.70	0.7
LRM	129.23	332	ePKP	43	32.50	1.3
PNT	129.42	339	ePKP	43	33.00	1.9
BW06	129.91	327	PKP	43	32.40	-0.1
ANMO	132.83	317	PKP	43	38.90	0.6
ALQ	132.84	317	ePKP	43	38.60	0.3
Z	20s	0.80um			5.4Msz	
KVN	137.07	330	PKP	43	47.10	0.9
TNP	137.35	328	PKP	43	48.50	1.7
CMB	138.99	331	ePKP	43	50.20	0.6
GSC	139.15	325	ePKP	43	52.00	2.0
CLC	139.23	326	ePKP	43	52.00	1.9
FRI	139.47	329	ePKP	43	52.40	2.0
TPC	139.54	323	ePKP	43	53.00	2.3
ISA	139.82	327	ePKP	43	53.00	1.8
SBB	140.17	325	ePKP	43	54.00	2.2
RVR	140.41	324	ePKP	43	53.00	0.8
	S.D. = 1.1	on 187 of 194 obs.				

• MAY 15, 1990 16h 33m 35.46± 0.60s
5.743 N ± 8.8km 126.219 E ±14.1km
DEPTH = 33.0km (normal)
5.2mb (5 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

MTN	19.10	165	eP	38	00.00	1.6
KNA	21.50	173	iPc	38	25.40	1.7
	0.6s	62.00nm			5.2mb	
WRA	26.75	163	Pd	39	13.30	-0.9
	0.4s	2.00nm			4.1mb X	
MBL	27.46	193	eP	39	20.30	-0.3
OIS	29.26	154	iPc	39	35.90	-1.0
			e	39	42.00	
CHTO	29.59	298	eP	39	40.80	0.9
NANU	30.01	200	eP	39	43.50	-0.1
BJI	35.32	347	eP	40	30.00	0.4
	0.7s	9.00nm			4.8mb	
MRWA	36.12	195	iPd	40	36.40	-0.1
FORR	36.43	177	iPc	40	38.80	-0.2
	0.3s	28.00nm			5.6mb	
BAL	37.27	194	eP	40	45.00	-1.2
KLB	37.99	192	eP	40	52.00	-0.2
MUN	38.71	194	iPd	40	58.20	0.0
BRS	41.76	143	iPc	41	22.80	-0.7
ADE	42.17	165	iPc	41	27.20	0.4
GUN	44.15	305	P	41	43.40	0.0
	0.6s	32.00nm			5.3mb	
PKI	44.41	304	P	41	45.00	-0.5
DMN	44.68	304	P	41	47.40	-0.2
	0.8s	23.00nm			5.1mb	
CAN	46.13	154	iPd	41	59.00	0.3
GBA	48.64	283	Pd	42	31.40	12.8X
	0.7s	3.70nm				
TIO	122.52	312	iPKP	52	46.50	16.6X
			i	53	05.00	
BAO	168.65	210	e(PKP)	53	44.00	3.1X
	S.D. = 0.8	on 19 of 22 obs.				

• MAY 15, 1990 17h 11m 31.20± 1.42s
12.486 S ±14.6km 75.227 W ±11.5km
DEPTH = 10.0km (geophysicist)
PERU (116)

PT02	1.26	249	iPd	11	52.20	-2.5
PT08	1.39	292	iPc	11	57.90	0.9
PT03	1.60	200	iPd	12	01.10	1.5
			iS	12	11.00	
NNA	1.65	287	iPc	12	00.60	0.2
			iS	12	21.50	
PT06	1.71	219	iPc	12	01.90	0.6
			iS	12	23.30	
PT10	1.75	283	iPc	12	02.00	0.2
			iS	12	24.50	
ZOBO	7.84	119	Pc	13	27.80	-0.9
Z	22s	0.40um				
			LR	17	26.00	
LPB	7.99	121	P	13	44.00	13.4X
Z	18s	1.72um				
			LR	17	16.00	
	S.D. = 1.6	on 7 of 8 obs.				

MAY 15, 1990 17h 15m 40.37± 0.87s
36.076 N ± 8.2km 27.162 E ± 5.7km
DEPTH = 17.5 ± 7.4 km
4.7mb (4 obs.)
DODECANESE ISLANDS (369)
ML 4.3 (ATH).

YER	1.39	40	iPn	16	04.20	-0.8
APE	1.64	308	ePn	16	07.90	-0.7
SMG	1.65	351	ePn	16	07.20	-1.4
			eSn	16	34.10	
CIN	1.69	26	eP	16	08.00	-1.3
KSL	1.96	88	ePb	16	15.20	2.0
ELL	2.32	72	ePn	16	20.90	2.5X
IZM	2.32	2	ePn	16	19.80	1.4
VAM	2.50	255	ePb	16	22.00	1.1
KHL	2.93	39	ePn	16	28.20	1.2
BCK	3.08	62	ePn	16	31.00	1.8
ATH	3.34	305	ePg	16	42.10	9.3X
VLI	3.47	282	ePn	16	35.20	0.6
EZN	3.80	350	iPn	16	37.70	-1.6
ITM	4.35	286	ePn	16	50.00	2.8X
PPCY	4.39	104	eP	16	48.50	0.8
NEO	4.49	317	ePn	16	48.00	-1.1
YLV	4.81	21	ePn	17	02.00	8.3X
CSS	5.15	101	eP	17	00.00	1.5
RDO	5.22	346	ePn	16	57.50	-1.9
LFK	5.25	97	ePn	16	58.80	-1.1
BBTK	5.80	48	eP	17	08.00	0.2
VAY	6.35	327	eP	17	17.00	1.6
FNA	6.53	318	ePc	17	19.40	1.3
OHR	7.08	317	eP	17	26.50	0.8
	1.0s	39.00nm			5.5mb	
HRI	7.60	109	e(P)	17	32.00	-1.1
DSI	8.18	121	eP	17	40.00	-1.1
MBH	9.03	132	e(P)	17	50.00	-2.8
KHC	16.40	327	P	19	32.60	1.4
LOR	20.61	310	eP	20	18.20	-2.9X
	0.8s	40.50nm			4.8mb	

15d 17h

SSF 20.74 309 eP 20 19.90 -2.6
0.8s 8.05nm 4.2mb
MAIO 26.04 80 eP 21 15.00 0.6
BCAO 32.48 196 ePc 22 13.20 1.1
0.5s 3.00nm 4.5mb
S.D. = 1.5 on 27 of 32 obs.

---

* MAY 15, 1990 17h 19m 22.04± 0.55s
29.178 N ±11.2km 76.730 E ± 8.5km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
NORTHERN INDIA (308)
MD 3.8 (NDI).

NDI 0.65 139 iPg 19 35.00 0.2
DMN 7.54 100 P 21 12.60 -0.1
0.3s 9.00nm 5.3mb X
PKI 7.81 100 P 21 15.40 -1.2
0.3s 13.00nm 5.5mb X
GUN 8.15 97 P 21 20.60 -0.7
QUE 8.57 279 eP 21 27.70 0.8
eS 22 52.60
HYB 11.83 171 eP 22 10.00 -1.4
eS 24 10.00
CHTO 22.73 112 e(P) 24 24.90 2.5
NUR 46.57 327 iP 27 48.00 -0.2
SUF 46.66 331 eP 27 49.00 0.1
HFS 51.80 325 eP 28 27.70 -0.9
0.5s 1.20nm 4.1mb
NB2 53.12 326 P 28 37.30 -1.2
0.5s 0.80nm 3.9mb
WB5 73.94 124 eP 30 56.00 -0.1
WRA 73.96 124 Pc 30 57.50 1.3
YKA 88.20 5 eP 32 11.50 0.8
0.6s 1.00nm 4.3mb
S.D. = 1.2 on 14 of 14 obs.

? MAY 15, 1990 18h 25m 11.83± 1.14s
31.442 S ±14.3km 68.641 W ±10.4km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.18 53 ePc 25 18.80 0.4
CFA 0.38 116 eP 25 20.00 -0.7
iS 25 22.90
RTCV 0.43 168 ePd 25 22.00 0.6
S 25 35.00
RTBS 0.73 252 eP 25 25.30 -0.3
S 25 40.80
S.D. = 1.1 on 4 of 4 obs.

MAY 15, 1990 18h 31m 39.68± 0.16s
1.158 N ± 3.2km 123.869 E ± 3.9km
DEPTH = 29.7km (4 depth phases)
5.6mb (37 obs.) 5.6Msz (19 obs.)
MINAHASSA PENINSULA (265)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 18:31:42.4 0.3
Lat 1.19N 0.04 Lon 123.29E 0.05
Dep 15.0 FIX Half-duration 3.8
Moment Tensor; Scale 10**17 Nm
Mrr= 9.38 0.36 Mtt=-6.31 0.36
Mff=-3.07 0.49 Mrt=-3.94 1.40
Mrf=-5.00 1.16 Mtf=-3.62 0.36
Principal Axes:
T Val= 11.52 Plg=71 Azm=118
N -1.00 8 231
P -10.52 17 323
Best Double Couple:Mo=1.1*10**18
NP1:Strike= 65 Dip=29 Slip= 106
NP2: 227 63 81

MNI 1.01 74 iPc 31 58.50 0.7
eS 32 14.40
DAV 6.13 16 ePd- 33 11.50 0.8
1.0s 1368.00nm 6.6mb
AAI 6.47 138 eP 33 17.00 1.6
0.5s 96.00nm 5.9mb
TSM 6.54 298 ePd 33 16.00 -0.4
0.3s 104.70nm 6.1mb
BKB2 7.37 251 iPc 33 38.50 10.4X
MKS 7.71 215 iPc 33 36.50 3.7X
KKM 9.05 303 ePc 33 51.00 -0.5
e 34 07.00
eS 34 22.50
KHKI 12.54 221 ePd 34 42.70 3.7X
e 43 40.00
TRT 14.25 232 ePc 35 03.30 1.7
0.9s 54.70nm 5.2mb
BAG 15.50 348 ePd- 35 17.00 -1.1
eS 39 15.00
MTN 15.67 153 iPd 35 19.90 -0.2
KNA 17.48 164 eP 35 43.00 -0.1
1.0s 833.00nm 5.8mb
KGM 20.56 273 ePc 36 18.90 0.1
MNDI 21.05 110 eP 36 25.00 0.9
KLM 22.29 275 eP 36 41.00 4.7X
QIZ 22.46 323 Pd 36 37.50 -0.4
N 15s 23.00um
sP 36 50.50
SS 41 22.00
MBL 22.53 190 eP 36 37.00 -1.6
0.6s 67.00nm 5.3mb
HKC 23.04 337 iP 36 44.00 0.5
iS 41 00.00
IPM 23.06 279 ePd 36 37.00 -6.9X
0.9s 99.00nm 5.3mb
e 37 11.00 175kmX
WB5 23.31 154 iPc 36 45.20 -1.0
eS 40 57.00
WRA 23.35 154 Pc 36 47.40 0.8
0.8s 301.80nm 5.9mb
PPI 23.53 266 eP 36 51.00 2.7
1.0s 346.60nm 5.8mb
GZH 24.08 336 Pd 36 54.00 0.4
6.0s 6000.00nm 6.3mb X
Z 18s 22.30um 5.7Msz
N 14s 12.40um
E 13s 8.70um
GUMO 24.17 58 eP 36 54.50 -0.1
0.8s 163.98nm 5.6mb
eS 41 06.00
GUA 24.19 58 eP 36 55.00 0.2
Z 17s 5.43um 5.1MszX
QZH 24.19 348 iPd 36 55.00 0.3
6.0s 5000.00nm 6.2mb X
Z 22s 14.30um 5.4Msz
E 16s 6.10um
LAT 24.36 109 eP 36 59.00 2.6
NANU 24.94 199 iPd 37 01.40 -0.5
0.5s 69.00nm 5.5mb
PSI 24.98 274 eP 37 04.00 1.6
1.1s 330.20nm 5.9mb
TSI 25.39 276 ePd 37 09.00 2.7
PMG 25.46 115 iPc 37 07.00 0.1
1.1s 278.48nm 5.8mb
NNT 26.48 296 iPd 37 16.40 0.0
QIS 26.52 145 iPc 37 16.40 -0.3
LOE 27.10 308 iPd 37 22.00 -0.1
NST 27.50 303 eP 37 26.00 0.3
MEKA 28.09 190 eP 37 29.20 -1.7
RAB 28.78 101 iP+ 37 38.00 0.7
iS 42 30.00
BDT 29.22 305 ePd 37 41.20 0.0
1.0s 75.90nm 5.4mb
SSE 29.88 355 eP 37 47.00 0.0
Z 20s 7.40um 5.3Msz
N 15s 3.50um
E 15s 3.30um
S 42 40.00
CHG 30.09 307 ePd 37 49.00 0.0
1.1s 69.62nm 5.4mb
eS 42 50.00
GYA 30.11 328 iPd 37 50.00 0.7
N 15s 10.10um
E 15s 9.50um
pP 38 00.00 35km
PP 38 46.00
S 42 42.00
ScS 48 25.00
CTA 30.45 135 iPc+ 37 52.10 -0.1
1.0s 68.00nm 5.4mb
iS 43 02.00
WHN 30.59 344 Pd 37 53.50 0.3
6.0s 1500.00nm 6.0mb X
Z 20s 10.70um 5.5Msz
N 15s 10.90um
E 16s 7.00um
S 42 54.00
NJ2 31.09 352 Pd 37 58.00 0.4
6.5s 1100.00nm 5.8mb X
Z 18s 3.60um 5.1Msz
N 15s 5.40um
E 13s 1.60um
S 43 00.00
MRWA 31.13 193 iPd 37 56.70 -1.3
0.8s 55.00nm 5.4mb
KMI 31.37 321 Pd 38 01.50 1.0
2.5s 400.00nm 5.8mb
Z 18s 14.20um 5.7Msz
N 14s 2.80um
E 16s 6.80um
iS 43 10.00
COOL 31.97 184 eP 38 03.00 -2.4
FORR 32.08 173 eP 38 05.50 -0.9
0.4s 55.00nm 5.8mb
BAL 32.32 192 iPd 38 07.00 -1.4
KLB 33.08 190 iPd 38 13.90 -1.2
0.6s 58.00nm 5.7mb
QLP 33.86 146 eP 38 22.00 0.1
TIA 35.43 351 P 38 34.00 -1.3
Z 40s 12.00um 5.3MszX
E 12s 2.90um
S 44 06.50
XAN 35.58 338 Pd 38 36.00 -0.6
6.0s 1400.00nm 6.1mb X
N 16s 15.40um
E 14s 5.20um
S 44 05.00
RKG 35.63 190 eP 38 40.00 3.0X
RMQ 36.49 141 eP 38 44.00 -0.4
HNR 37.44 107 eP 38 52.00 -0.4
MTMJ 37.54 19 P 38 53.90 0.8
DL2 37.62 357 eP 38 53.00 -0.6
6.0s 1300.00nm 6.0mb X
Z 20s 4.20um 5.2Msz
N 14s 4.50um
MAT 37.63 19 eP 38 52.00 -1.8
1.8s 427.27nm 6.0mb
Z 21s 7.53um 5.5Msz
eS 44 13.00
TIY 37.87 345 eP 38 55.00 -0.9
Z 22s 11.70um 5.6Msz
N 16s 10.90um
sP 39 13.00
ADE 38.53 160 iPc+ 39 02.00 0.6
1.0s 400.00nm 6.2mb
CMS 38.58 149 iPd 39 02.90 1.1
BJI 39.33 351 eP 39 07.00 -0.9
5.0s 810.00nm 5.7mb X
Z 32s 10.60um 5.5MszX
N 16s 3.62um
eS 45 00.00
LZH 39.41 334 iPd 39 10.50 1.6
6.0s 2040.00nm 6.1mb X
Z 20s 14.60um 5.8Msz
N 14s 4.30um
E 14s 4.10um
pP 39 19.00 29km
sP 39 25.50
PP 40 38.00
S 45 04.00
eSS 47 48.00
BRS 39.73 138 iP 39 11.10 -0.4
e 39 18.50 25km
e 40 45.00
SNY 40.49 360 iPd 39 16.00 -1.4
6.5s 800.00nm 5.6mb X
Z 25s 14.20um 5.7MszX
N 16s 3.40um
E 16s 6.30um
pP 39 28.50 46kmX
HHC 41.05 346 Pd 39 22.00 -0.3
N 15s 6.10um
E 17s 3.20um
BTO 41.22 344 iPd 39 23.50 -0.2
N 15s 7.60um
E 14s 6.40um
PP 41 05.00
S 45 38.00
COO 41.32 142 iPc 39 26.50 1.9
BFD 41.89 157 eP 39 29.00 0.0
e 40 57.00 467kmX
LSA 42.12 315 iP 39 32.00 0.4
S 45 50.00
CN2 42.48 2 Pd 39 32.00 -1.8
Z 25s 11.00um 5.6MszX
N 14s 3.00um

	E	14s	2.20um			
			epP	39	41.00	30km
			PP	41	10.00	
			ScS	49	32.00	
CAN	43.23	150	iPc	39	41.20	1.1
RIV	43.24	146	eP	39	44.00	3.9X
			e	41	28.00	588kmX
			eS	46	24.00	
			e	49	40.00	
CNB	43.41	149	iPc	39	43.20	1.6
TOO	43.42	155	iPc	39	42.90	1.3
	0.9s	110.00nm				5.6mb
			e	40	04.00	88kmX
MDJ	43.57	6	eP	39	41.50	-1.2
	Z 40s	10.50um				5.4MszX
	N 16s	3.40um				
			S	46	11.00	
			SS	49	20.00	
GTA	43.95	333	iPd	39	46.90	0.9
	1.4s	280.00nm				5.9mb
	Z 18s	14.10um				5.9Msz
	E 15s	6.26um				
			S	46	14.00	
GUN	45.03	310	P	39	55.20	0.0
PKI	45.23	309	P	39	56.90	0.1
DMN	45.49	309	P	39	58.80	0.1
KOD	46.99	283	eP	40	11.80	1.1
HYB	47.38	293	iPd	40	13.00	-0.5
	1.0s	120.00nm				5.9mb
			eS	47	08.00	
DZM	47.51	122	iPd	40	15.00	0.4
GBA	47.57	287	Pd	40	14.60	-0.4
	0.7s	18.50nm				5.2mb
POO	51.99	293	eP	40	46.00	-2.9X
NDI	52.22	306	iPd	40	49.00	-1.5
	0.7s	37.67nm				5.4mb
WMQ	53.27	328	iPd	40	58.00	-0.1
	Z 26s	10.50um				5.8MszX
	N 15s	4.50um				
			S	48	30.00	
			ScS	50	41.00	
KSH	57.88	317	P	41	33.00	1.5
	Z 25s	4.30um				5.5MszX
	N 15s	4.30um				
MSZ	60.09	145	P	41	45.80	-0.7
QUE	61.15	304	iPd	41	53.00	-1.3
	1.0s	29.50nm				5.4mb
			e(S)	50	11.10	
SNZO	62.45	139	P	42	01.00	-1.5
			PP	44	32.00	
			S	50	16.00	
			SS	54	32.00	
HBZ	63.27	134	P	42	08.00	0.0
			S	50	08.00	
AFI	65.45	106	e(P)	42	20.00	-2.7
			e(S)	51	20.00	
DRV	68.64	173	eP	42	40.20	-1.7
MAIO	68.83	309	iPd-	42	43.20	-0.6
			eS	51	52.00	
TEH	75.14	307	eP	43	39.00	17.6X
TAB	79.48	308	eP	43	46.00	0.5
MAW	80.37	200	iPd	43	50.00	0.6
	1.0s	69.00nm				5.6mb
SBA	82.21	172	e(P)	44	00.00	1.1
SVW	84.40	29	eP	44	12.80	2.4
TTA	84.47	27	P	44	09.90	-0.9
IMA	85.88	24	eP	44	19.50	1.7
	0.7s	4.30nm				4.8mb
HRI	87.80	303	eP	44	18.00	-9.8X
PRNI	88.45	300	eP	44	31.00	0.1
MBH	88.55	300	e(P)	44	31.00	-0.3
PMO	88.59	105	iP	44	35.40	3.7X
	1.2s	85.00nm				5.9mb
TPT	88.86	105	iP	44	36.60	3.6X
	1.2s	60.00nm				5.8mb
TOA	88.97	28	eP	44	34.70	2.0
RUV	89.09	105	iP	44	37.50	3.4X
	1.2s	60.00nm				5.8mb
LFK	89.61	305	eP	44	38.00	1.6
SPA	91.15	180	eP	44	43.20	0.3
	1.2s	35.21nm				5.6mb
	Z 20s	7.16um				6.1Msz
KEV	91.30	340	eP	44	54.00	10.6X
	Z 18s	5.20um				6.0Msz
			e	55	10.00	
			e	01	52.00	
			LR	31	28.00	

SOD	91.73	337	iP	44	47.00	1.6
BCK	91.91	307	eP	44	47.00	0.1
ELL	92.49	307	eP	44	59.00	9.3X
INK	93.58	21	eP	44	53.00	-0.9
VRI	94.16	316	eP	44	57.00	0.0
MLR	94.74	316	eP	45	00.00	0.1
MBC	95.07	12	eP	45	05.00	4.4X
BUL	95.33	250	iPd	44	55.00	-8.0X
VAY	97.72	312	eP	45	10.50	-2.8
SPC	98.01	320	eP	45	14.70	0.0
			e	49	25.60	
KRA	98.04	321	eP	45	23.10	8.6X
	Z 18s	2.40um				5.7Msz
	E 18s	3.10um				
			e	49	25.00	
			eS	55	49.00	
DAG	99.41	352	eP	45	21.00	0.7
	1.0s	11.00nm				5.3mb
	Z 21s	1.86um				5.6Msz
	N 18s	0.82um				
	E 20s	0.57um				
NB2	99.78	333	P	45	21.20	-1.1
	1.0s	4.10nm				4.9mb
KSP	100.13	322	ePdiff	45	33.00	9.0X
			e	49	34.50	
			e	56	45.50	
BRG	101.56	323	ePdiff	45	40.00	9.6X
	1.0s	10.00nm				5.4mb
			eSKS	56	04.00	
			ePS	58	40.00	
CLL	102.00	323	e(Pdif	45	39.00	6.7X
	Z 18s	2.50um				5.8Msz
			eSKS	56	05.00	
			PKKP	01	55.00	
YKA	103.00	24	ePdiff	45	42.50	6.0X
	0.4s	0.20nm				4.2mb X
MOX	103.04	323	e(Pdif	45	46.00	9.0X
BCAO	105.19	275	ePKPc	50	09.40	7.4X
	0.4s	3.00nm				
NEW	108.00	38	PKP	50	05.80	-0.6
KVN	110.69	47	PKP	50	11.30	-0.6
BW06	115.15	41	PKP	50	20.00	-0.4
MSU	115.19	46	PKP	50	21.30	0.6
RSSD	117.95	37	PKP	50	24.80	-0.9
RSON	119.12	26	PKP	50	26.00	-1.4
	Z 20s	1.81um				5.7Msz
GOL	119.40	42	PKP	50	28.40	-0.2
	Z 22s	1.59um				5.6Msz
ANMO	120.86	47	PKP	50	32.00	0.5
ALQ	120.86	47	ePKP	50	31.50	0.0
	Z 20s	0.89um				5.4Msz
KIC	128.16	279	(PKP)	50	46.60	0.7
LKO	128.57	283	PKP	50	45.76	-0.9
UYO	129.72	42	ePKP	50	47.50	-0.8
LNV	144.37	158	ePKP	51	14.00	-1.2
TACH	144.82	158	ePKP	51	15.00	-1.0
PCH	145.00	159	ePKP	51	15.70	-0.7
SAN	145.10	158	iPKPd	51	16.50	0.0
FCH	145.35	159	ePKP	51	18.00	0.7
PEL	145.37	158	iPKPc	51	16.60	-0.4
	1.5s	222.22nm				
ROCH	145.40	158	iPKPd	51	17.60	0.3
ZON	147.53	160	ePKP	51	23.00	2.4
CFA	147.62	160	iPKPd	51	21.10	0.4
RTLL	147.80	160	ePKPd	51	22.00	1.0
			e	51	24.10	
UPA	154.60	66	iPKP+	51	40.00	8.6X
NNA	156.81	119	ePKP	51	33.20	-1.2
	1.2s	26.56nm				
PSO	158.68	84	ePKP	51	41.00	3.9X
LPB	160.70	143	PKP	51	38.20	-1.0
	Z 24s	2.33um				
			i	52	19.00	
			SS	16	54.00	
			LR	48	49.00	
BOG	161.18	72	e(PKP)	51	40.00	0.3
BMG	161.22	64	ePKP	51	39.50	0.1
BAO	163.53	209	ePKP	51	33.00	-8.6X
SIV	164.48	162	PKP	51	42.80	0.4

S.D. = 1.1 on 135 of 162 obs.

---

* MAY 15, 1990 19h 09m 35.38± 0.47s
1.256 N ± 7.9km 123.992 E ±12.1km
DEPTH = 33.0km (normal)
4.9mb (4 obs.)
MINAHASSA PENINSULA (265)

AAI	6.46	139	eP	11	11.50	0.8
MKS	7.86	215	iPc	11	31.00	0.7
WB5	23.34	155	eP	14	40.70	-1.1
WRA	23.39	155	Pd	14	42.50	0.3
	0.6s	15.20nm				4.7mb
NANU	25.07	199	eP	14	57.00	-1.5
OIS	26.53	146	eP	15	11.60	-0.5
CHG	30.13	307	eP	15	47.00	2.3
KMI	31.37	321	Pd	15	56.50	0.7
			pP	16	05.00	30kmX
CD2	35.18	329	eP	16	28.00	-0.5
XAN	35.53	338	Pd	16	30.70	-0.8
TIY	37.81	345	Pc	16	50.60	0.0
LZH	39.37	334	P	17	04.40	0.5
	1.5s	62.00nm				5.1mb
CAN	43.25	150	iPd	17	36.70	1.2
GUN	45.07	310	P	17	50.20	-0.5
	0.8s	27.00nm				5.2mb
PKI	45.27	309	P	17	51.40	-0.9
DMN	45.52	309	P	17	53.60	-0.6
GBA	47.66	287	Pd	18	06.90	-4.0X
	0.6s	3.10nm				4.5mb
WMQ	53.25	328	P	18	53.00	-0.2

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

% MAY 15, 1990 19h 45m 41.52± 0.48s
40.250 N ± 4.5km 29.644 E ± 4.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.38	327	iPg	45	50.20	0.9
GPA	0.51	85	iPg	45	52.00	0.1
			iSg	46	00.00	
GBZT	0.56	344	ePg	45	52.60	-0.3
			iSg	46	02.00	
HRT	0.57	2	ePg	45	52.70	-0.4
ISK	0.93	332	ePg	46	00.00	0.8
			eSg	46	14.00	
KCT	0.99	270	iPg	45	59.20	-1.0
			iSg	46	12.70	
ALT	1.25	163	iPn	46	03.90	-0.8
CTT	1.29	315	ePn	46	05.20	-0.2
EDC	1.37	275	iPn	46	04.50	-2.1
KGT	1.80	277	iPn	46	12.70	-0.1
KHL	1.93	183	ePn	46	15.20	0.5
DMK	2.12	318	iPn	46	17.60	0.1
BBTK	2.43	99	eP	46	22.00	0.0
			eS	47	04.00	
EZN	2.58	262	ePn	46	24.70	0.7
IZM	2.61	226	ePn	46	26.80	2.2
BCK	2.88	165	ePn	46	28.00	-0.4

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

? MAY 15, 1990 19h 49m 18.94± 7.94s
51.625 N ±47.9km 16.277 E ±48.4km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.0 (GRF).

KSP	0.78	179	iP	49	34.30	0.1
	0.4s	47.00nm				
			iS	49	43.20	
			e	49	49.00	
BRG	1.65	244	iPg	49	48.60	0.6
			iSg	50	08.30	
PRU	1.97	215	Pn	49	52.40	-0.4
			Pg	49	54.30	
			Sn	50	11.20	
			Sg	50	18.50	
CLL	2.07	263	ePn	49	54.00	-0.2
			ePg	49	57.00	
			iSg	50	22.00	
KHC	3.04	216	Pn	50	08.00	0.1
			Pg	50	13.80	
			Sn	50	40.50	
			Sg	50	51.50	
GRF	3.75	241	ePn	50	17.90	-0.2
			ePg	50	30.80	
			eSg	51	15.70	

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

MAY 15, 1990 20h 07m 32.17± 0.15s
10.151 S ± 3.7km 161.051 E ± 3.7km
DEPTH = 57.4km (3 depth phases)
5.5mb (33 obs.)
SOLOMON ISLANDS (193)

15d 20h

HNR	1.30	303	ePc	07	58.00	3.6	KDC	77.53	23	iPc	19	23.40	0.3	BRG	131.24	333	e(PKP)	26	39.40	0.0
			eS	08	13.00		LSA	77.99	303	P	19	27.20	0.3	KHC	132.63	331	ePKP	26	42.00	-0.2
DZM	12.93	157	iPd	10	33.90	-1.4	SVW	78.77	20	ePc	19	31.00	1.0	LPG	138.45	333	ePKP	26	55.00	1.3
			iS	12	49.00		SPA	79.92	180	iPc	19	35.40	-0.9		0.8s		4.05nm			
PMG	13.72	272	eP	10	50.00	4.5X		1.0s		49.00nm			5.4mb	TCF	139.72	337	ePKP	26	48.50	-7.0X
CTA	17.35	234	iPd	11	34.80	2.7	TTA	79.97	18	ePc	19	37.10	0.6		0.8s		124.90nm			
	1.0s		119.00nm			5.0mb	PMR	81.37	22	ePc	19	43.70	0.0	RJF	140.81	337	ePKP	26	51.40	-6.1X
			iS	14	56.00			0.9s		47.90nm			5.5mb		0.7s		4.40nm			
BRS	18.84	203	iP	11	51.40	1.1		Z 18s		1.40um			5.4Msz	LFF	141.41	337	ePKP	26	53.00	-5.6X
			i	11	57.00		GUN	81.87	300	P	19	47.30	-0.3		0.8s		5.35nm			
RMQ	19.98	214	iPc	12	03.50	0.9		0.7s		17.00nm			5.1mb	BCAO	142.41	264	iPKPc	26	55.30	-6.0X
			e	12	07.00	13kmX	PKI	82.18	300	P	19	48.80	-0.3		0.6s		15.00nm			
COO	22.04	201	iPd	12	24.90	1.4		0.6s		10.00nm			5.0mb	EPF	143.18	336	ePKP	26	58.50	-3.3X
OIS	23.09	241	iPc	12	35.00	1.1	DMN	82.45	300	P	19	50.40	0.0		1.0s		10.00nm			
CMS	25.50	211	iPc	12	56.80	0.0		0.8s		34.00nm			5.4mb	ECRI	144.61	339	iPKPc	27	03.40	-0.8
			e	13	04.00	26kmX	TOA	82.78	22	ePc	19	52.20	1.0	ESEL	144.68	330	iPKPd	27	02.90	-1.4
CAN	27.36	202	eP	13	13.70	-0.2	IMA	82.95	17	ePc	19	52.40	0.3	EBR	144.95	334	iPKPc	27	04.00	-0.7
WB5	27.49	246	iPc	13	15.30	0.0		1.0s		31.30nm			5.3mb	EROQ	144.98	334	iPKPd	27	03.20	-1.6
			i	13	33.00	76kmX	MAW	83.80	202	iPd	19	55.80	-0.4	EMON	145.33	345	iPKPd	27	04.80	-0.6
WRA	27.53	246	Pc	13	15.50	-0.1		1.0s		43.00nm			5.4mb	ETOR	145.99	337	iPKPc	27	06.80	0.1
	0.7s		51.20nm			5.3mb	FBA	83.97	20	iPc	19	56.60	-0.5	STS	146.15	346	iPKPd	27	07.40	0.7
TOO	30.69	205	iPd	13	43.90	0.2				pP	20	13.60	60km	ERUA	146.26	344	iPKPc	27	08.40	1.4
BFD	31.67	209	eP	13	52.00	-0.3	SIT	84.70	29	eP	20	01.60	0.8	ECHE	146.59	334	e(PKP)	27	08.90	1.3
KNA	31.93	257	iPc	13	55.10	0.4	WMQ	85.22	316	Pc	20	03.00	-0.9	GUD	146.92	339	iPKPc	27	09.80	1.5
	1.0s		405.00nm			6.2mb	KOD	85.56	281	eP	20	07.20	0.8	TOL	147.56	338	iPKPd	27	11.70	2.6X
ADE	32.03	216	iPc	13	55.20	-0.3	GCC	85.82	51	eP	20	07.50	0.6		1.1s		75.95nm			
	1.0s		86.00nm			5.5mb	BRK	85.85	51	eP	20	07.50	0.5	EVIA	148.04	335	iPKPc	27	12.70	2.6X
AAI	33.22	279	e(P)	14	05.00	-1.1	HYB	85.95	288	ePd	20	06.50	-1.5	EPLA	148.09	341	ePKP	27	13.30	3.3X
FORR	36.88	231	eP	14	37.10	0.0	PRS	86.12	52	ePc	20	09.30	0.9	EALH	148.23	333	ePKP	27	13.20	3.0X
MBL	41.05	249	iPc	15	12.20	0.3	MHC	86.18	51	ePc	20	09.40	0.5	EBAN	148.96	336	ePKP	27	15.40	4.0X
	0.4s		27.00nm			5.4mb	GBA	86.24	284	Pd	20	09.10	-0.3	ASMO	149.64	336	iPKPd	27	16.00	3.4X
COOL	42.38	235	eP	15	22.40	-0.3		0.9s		10.70nm			5.0mb	EHOR	149.82	338	iPKPc	27	17.50	4.8X
MEKA	43.31	242	iPc	15	31.00	0.7	ARN	86.26	51	P	20	09.80	0.6	AAPN	149.83	336	iPKPd	27	16.70	3.8X
	0.4s		23.00nm			5.3mb	WDC	86.40	48	ePc	20	10.20	0.5	APHE	149.96	335	iPKPd	27	17.50	4.4X
KHKI	44.86	268	ePc	15	41.60	-1.4	LLA	86.52	52	eP	20	11.00	0.6	ALOJ	150.00	336	iPKPd	27	16.90	3.7X
			e	17	52.20		PRI	86.62	53	eP	20	12.00	1.0	ATEJ	150.13	335	iPKPd	27	17.40	4.0X
TSM	45.12	286	ePc	15	46.50	1.5	SYP	86.75	54	eP	20	12.00	0.3	MAL	150.45	336	iPKPd	27	18.00	4.4X
NANU	45.22	248	eP	15	46.50	0.8	BCH	86.83	54	P	20	12.80	0.7	EVAL	150.56	340	iPKPc	27	19.20	5.4X
	0.4s		21.00nm			5.3mb	ORV	86.88	49	ePc	20	12.20	0.1	EPRU	150.56	337	iPKPd	27	19.50	5.6X
KLB	45.35	235	eP	15	46.00	-0.6	CMB	87.32	51	ePc	20	14.50	0.2	EJIF	151.11	337	ePKP	27	20.00	5.3X
BAL	45.91	237	eP	15	51.00	-0.1	ABL	87.43	54	P	20	15.30	0.2	NKM	151.96	336	iPKPc	27	25.00	9.0X
MRWA	46.13	239	iPc	15	53.00	0.2	PAS	88.11	55	eP	20	18.00	-0.1				i	27	26.80	
MUN	46.72	235	eP	15	57.00	-0.5	PGC	88.14	40	eP	20	18.00	0.1	IFR	153.50	333	iPKPc	27	26.00	7.6X
KKM	47.47	288	ePd	16	02.50	-1.2	SHW	88.21	43	P	20	10.00	-8.5X		S.D. = 0.9		on 133 of 159 obs.			
TRT	47.86	269	iPd	16	04.70	-2.0	MWC	88.22	55	eP	20	19.00	0.1							
	0.6s		57.40nm			5.7mb	GMW	88.24	41	P	20	18.80	0.4							
KAGJ	50.26	326	P	16	24.70	-0.1	SB8	88.51	55	eP	20	20.00	-0.1	*	MAY 15, 1990 20h 16m 15.50± 0.76s					
MAT	51.18	336	iPc	16	30.90	-0.8	MCW	88.54	40	P	20	20.10	0.2		40.764 N ±12.4km 19.914 E ± 6.3km					
	1.2s		129.69nm			5.8mb	RVR	88.72	55	eP	20	21.00	0.0		DEPTH = 10.0km (geophysicist)					
SHK	51.95	330	iPc	16	38.30	0.7	CLC	88.95	53	eP	20	22.00	-0.2		ALBANIA					(391)
	0.6s		133.33nm			6.1mb	PLM	88.99	56	eP	20	23.00	0.4		ML 3.5 (SKO).					
QZH	54.13	311	Pc	16	55.00	1.2	BAR	89.00	57	eP	20	23.00	0.6	OHR	0.75	62	iPgd	16	29.60	-0.7
NJ2	58.20	318	Pc	17	21.80	-1.1	GSC	89.47	54	eP	20	25.00	0.4				iSg	16	42.50	
WHN	60.40	314	P	17	37.50	-0.5	TNP	89.76	51	P	20	26.70	0.6	FNA	1.11	89	ePn	16	34.80	-1.6
DL2	61.06	326	eP	17	41.50	-0.9		0.9s		20.31nm			5.4mb				eSn	16	50.40	
	1.3s		130.00nm			5.9mb	TPC	89.81	55	eP	20	27.00	0.7	LCI	1.55	255	P	16	42.30	-0.9
MDJ	61.49	335	iPc	17	44.70	-0.6	INK	90.59	20	eP	20	28.00	-1.0				eSg	17	02.00	
	1.2s		200.00nm			6.1mb	GLA	90.59	57	eP	20	30.00	0.1	SKO	1.67	43	iPnc	16	46.80	2.0
SNY	62.12	329	Pc	17	48.60	-0.9	PNT	90.75	40	eP	20	30.00	-0.2				iSn	17	09.00	
	1.1s		100.00nm			5.9mb		0.9s		29.00nm			5.7mb				iSg	17	10.50	
CN2	62.69	332	iPc	17	52.80	-0.4	DPW	91.31	42	P	20	32.70	-0.1	GRG	1.90	83	ePn	16	48.20	0.0
SMY	63.62	9	eP	17	59.20	0.0	NEW	92.11	41	P	20	36.90	0.4	BRT	2.06	274	P	16	55.00	4.4X
GYA	64.13	306	P	18	04.60	1.4		0.8s		33.33nm			5.8mb	LIT	2.07	108	ePnd	16	50.50	-0.3
LOE	64.69	295	eP	18	06.50	-0.3	LRM	94.77	44	eP	20	49.20	0.1	VAY	2.08	74	ePn	16	50.50	-0.4
ADK	64.70	15	ePc	18	06.50	0.2	YKA	96.32	28	eP	20	53.90	-1.5	KNT	2.29	79	ePn	16	53.70	-0.3
	0.6s		117.10nm			6.1mb		0.7s		10.10nm			5.5mb				eSn	17	23.00	
BJI	64.95	323	eP	18	07.50	-0.6	MBC	97.32	14	eP	21	00.00	0.3	AGG	2.55	132	ePn	16	59.60	2.1
	1.2s		42.00nm			5.3mb	ALQ	97.76	56	eP	21	02.50	-0.3	SOH	2.61	88	ePn	16	59.40	0.9
TIY	65.82	319	Pd	18	13.70	-0.2		1.0s		6.75nm			5.1mb	PAIG	3.00	105	ePn	17	03.00	-0.9
XAN	66.15	314	iPd	18	15.60	-0.4	RSSD	100.50	47	Pdiff	21	16.00	0.9	MGR	3.38	261	P	17	09.60	0.2
KMI	66.74	303	Pc	18	20.00	-0.2	KEV	113.73	344	ePKP	26	07.00	1.7		S.D. = 1.2		on 12 of 13 obs.			
	2.0s		100.00nm			5.5mb	SUF	118.40	338	iPKP	26	13.70	-0.7							
			pP	18	35.00	54km		0.5s		2.00nm				%	MAY 15, 1990 20h 35m 33.68± 1.73s					
CHG	67.66	295	ePc	18	25.10	-0.7	NUR	120.33	337	iPKP	26	18.00	-0.1		33.206 S ±10.7km 70.366 W ±11.9km					
	1.0s		18.75nm			5.0mb	BUL	124.35	237	iPKPc	26	18.00	-9.3X		DEPTH = 10.0km (geophysicist)					
CHTO	67.66	295	ePc	18	25.00	-0.8		1.0s		10.00nm					CHILE-ARGENTINA BORDER REGION					(127)
			pP	18	40.90	58km	HFS	124.51	341	ePKP	26	24.50	-1.7							
SBA	67.75	179	e(P)	18	24.80	-0.6		0.9s		6.20nm				FCH	0.14	153	iPc	35	37.10	-0.1
HHC	68.22	322	P	18	29.00	0.0	NB2	124.56	343	PKP	26	24.60	-1.8				iS	35	39.90	
	1.2s		100.00nm			5.7mb		0.9s		4.30nm				PEL	0.28	283	iP	35	39.80	0.3
CD2	68.42	309	eP	18	29.70	-0.7	ZOBO	124.71	118	PKP	26	27.00	-1.6				i(S)	35	45.50	
BTO	69.02	321	P	18	34.00	0.0	HRI	124.92	304	ePKP	26	27.00	-1.0	PCH	0.43	197	iPc	35	43.10	0.6
LZH	70.78	314	Pd	18	45.70	0.8	BBTK	125.55	312	iPKPd	26	28.00	-1.1				iS	35	51.00	
	1.2s		86.00nm			5.6mb	MBH	126.28	299	ePKP	26	29.00	-1.6	ROCH	0.59	293	eP	35	45.70	-0.1
SDN	72.74	22	eP	18	55.00	-0.9	KSP	130.18	331	ePKP	26	37.00	-0.4				iS	35	54.60	
GTA	75.15	315	P	19	10.60	0.2				e	28	46.00		TACH	0.65	227	iPc	35	45.70	-1.0
	1.2s		90.00nm			5.6mb	SIV	130.88	121	(PKP)	26	43.00	3.2X				iS	35	54.60	

```
LNV      1.15 229 iP     35 55.50   0.4
                  e      36 12.50
        S.D. = 0.7  on   6 of   6 obs.
-------------------------------------------
*  MAY  15, 1990  20h 35m 34.62± 1.55s
    7.797 S ±10.0km  129.467 E ±18.5km
   DEPTH =  56.5 ± 14.6 km
   4.8mb (  5 obs.)
 BANDA SEA                          (280)

AAI      4.28 343 eP     36 41.00   2.3
                  eS     37 29.50
MTN      5.28 162 iPc    36 54.20   1.3
                  e      37 05.00
                  eS     37 53.00
KUPT     6.25 248 eP     37 20.00  13.6X
                  eS     38 27.00
KNA      7.93 185 eP     37 29.00  -0.9
        0.2s    20.00nm          5.6mb X
                  eS     38 54.00
WB5     12.92 159 eP     38 33.10  -4.4X
                  i      38 35.20
                  eS     40 50.00
WRA     12.97 159 Pd     38 34.20  -3.9X
        0.5s     9.00nm          4.9mb X
QIS     16.03 143 iPd    39 15.70  -2.3
                  eS     42 03.70
MBL     16.22 214 eP     39 19.70  -0.6
                  eS     42 06.00
NANU    19.88 221 eP     40 05.00   0.9
        0.3s     7.00nm          4.5mb
                  eS     43 34.00
FORR    22.97 183 eP     40 38.00   2.9X
MRWA    24.80 209 eP     40 56.00   3.2X
                  eS     45 25.00
CHTO    40.06 312 eP     43 05.70  -0.6
MAT     44.86  10 eP     43 43.00  -2.2
        1.0s     9.00nm          4.5mb
GUN     55.08 312 P      45 01.80  -2.0
        0.5s    20.00nm          5.4mb
PKI     55.24 311 P      45 02.50  -2.5
        0.5s     7.00nm          4.9mb
DMN     55.49 311 P      45 04.60  -2.0
        0.6s     9.00nm          5.0mb
LPG    118.19 318 ePKP   54 18.00   0.4
        0.5s     1.45nm
LPL    118.20 318 ePKP   54 17.90   0.4
        0.4s     1.45nm
LBF    119.48 320 ePKP   54 19.40  -0.2
        0.6s     2.25nm
SSF    119.75 320 ePKP   54 20.60   0.5
        0.6s     2.70nm
BGF    120.36 320 ePKP   54 21.80   0.5
        0.5s     5.10nm
TCF    120.87 320 ePKP   54 22.80   0.5
        0.6s     2.70nm
KIC    134.55 271 (PKP)  54 51.00   1.6
LIC    134.82 271 (PKP)  54 51.50   1.6
TIC    134.85 272 (PKP)  54 51.60   1.6
LKO    135.56 276 PKP    54 52.96   1.6
        0.6s    13.50nm
      S.D. = 1.6  on  21 of  26 obs.
-------------------------------------------
    MAY  15, 1990  21h 09m 37.39± 0.81s
    51.306 N ± 7.9km     3.573 E ± 7.3km
    DEPTH =  10.0km  (geophysicist)
 NETHERLANDS                        (540)
       MD 2.7 (UCC).

DOU      1.37 151 iP     10 08.40   5.8X
MEM      1.69 113 iP     10 05.70  -1.3
LDF      3.61 223 Pn     10 35.50   0.9
FLN      3.65 227 Pn     10 35.00  -0.1
LOR      4.05 177 Pn     10 41.40   0.7
GRR      4.09 226 Pn     10 40.80  -0.5
SSF      4.25 181 Pn     10 44.20   0.6
LBF      4.33 176 Pn     10 45.10   0.2
LPF      4.44 224 Pn     10 44.80  -1.5
SMF      4.67 178 Pn     10 49.60   0.0
BGF      4.78 186 Pn     10 51.20   0.1
TCF      5.10 191 Pn     10 55.80   0.1
MAF      5.13 188 Pn     10 56.40   0.3
MFF      5.31 209 Pn     10 58.20  -0.4
SUF     16.67  38 eP     13 33.00   0.7
      S.D. = 0.8  on  14 of  15 obs.
-------------------------------------------
%  MAY  15, 1990  21h 31m 16.67± 0.92s
    42.728 N ± 6.5km   13.229 E ± 9.9km
    DEPTH =   5.0km  (geophysicist)
 CENTRAL ITALY                      (381)

AQU      0.40 161 P      31 24.40  -0.2
                  eSg    31 30.40
MNS      0.53 230 P      31 27.10  -0.2
                  eSg    31 33.30
ASS      0.54 310 P      31 27.90   0.4
                  eSg    31 36.70
ARV      0.80 345 P      31 32.30  -0.4
                  eSg    31 45.60
SDI      1.11 157 P      31 38.40   0.4
                  eSg    31 54.20
      S.D. = 0.5  on   5 of   5 obs.
-------------------------------------------
    MAY  15, 1990  21h 33m 30.20± 0.14s
    31.835 S ± 5.7km   178.027 W ± 3.9km
    DEPTH =  41.2km  (  4 depth phases)
    5.6mb ( 31 obs.)  5.5Msz ( 20 obs.)
 KERMADEC ISLANDS REGION            (177)
       Ms 6.0 (BRK).
       CENTROID, MOMENT TENSOR      (HRV)
       Data Used: GDSN
       L.P.B.:  9S, 20C
       Centroid Location:
       Origin Time          21:33:43.0 0.7
       Lat 31.36S 0.08 Lon 178.38W 0.05
       Dep  15.0 FIX Half-duration  2.6
       Moment Tensor;   Scale 10**17 Nm
         Mrr= 2.88 0.14  Mtt= 0.05 0.12
         Mff=-2.93 0.14  Mrt=-0.23 0.37
         Mrf= 1.75 0.46  Mtf=-0.95 0.17
        Principal Axes:
         T  Val=  3.44  Plg=71  Azm=243
         N        0.18       12       11
         P       -3.61       14      104
       Best Double Couple:Mo=3.5*10**17
        NP1:Strike=210 Dip=32 Slip= 112
        NP2:          4      60       77

HBZ      6.50 207 eP     35 03.80  -1.9
                  S      36 13.50
                  eTT    41 41.00
MSZ     16.88 217 P      37 16.10  -8.8X
DZM     16.90 301 iPd    37 30.00   4.6X
PVC     18.70 315 iP     37 48.00   0.4
AFI     18.74  19 eP     37 46.00  -2.2
                  eS     41 12.00
RAR     19.43  61 P      37 54.00  -2.1
                  S      41 06.00
COO     25.72 265 eP     39 02.00   3.5X
BRS     25.73 272 iP     39 01.00   2.4
                  e      39 15.00  58kmX
                  e      39 47.00
                  e(S)   44 00.00
RIV     25.92 257 eP     39 00.00  -0.2
                  e      44 48.00
TBI     26.63  79 iP     39 06.90   0.1
        1.3s   275.00nm          5.7mb
CAN     27.62 254 eP     39 17.20   1.3
                  i      42 33.00
                  e      42 42.60
PPT     29.38  68 eP     39 29.00  -2.8
        1.2s   135.00nm          5.5mb
RMQ     29.42 272 eP     39 34.00   1.9
        1.4s   500.00nm          6.0mb
                  e      42 39.00
                  e      46 22.00
TOO     30.40 249 eP     39 42.00   1.2
                  e      42 40.00
CMS     30.68 261 eP     39 45.00   1.8
                  e      39 57.00  46km
PMO     32.18  66 iP     39 56.33  -0.1
        1.2s   135.00nm          5.7mb
TPT     32.40  66 iP     39 54.80  -3.6X
        1.2s   115.00nm          5.6mb
RUV     32.47  66 iP     39 55.40  -3.5X
        1.2s    85.00nm          5.5mb
BFD     32.76 250 iPd    40 02.10   0.8
                  e      42 45.00
CTA     34.03 281 iPc+   40 13.30   0.7
        1.1s   554.43nm          6.4mb
      Z 20s     15.60um          5.7Msz
                  e      40 23.00  33km
                  e      40 33.00
                  i      41 41.00
                  iS     45 42.00
                  iScS   50 12.00
ADE     36.05 253 iPc    40 30.00   0.3
        1.0s    90.00nm          5.7mb
PMG     39.22 297 eP     40 57.50   1.1
RAB     39.22 308 e(P)   40 56.00  -0.4
QIS     39.42 276 iPc    40 57.60  -0.4
        1.3s   147.00nm          5.6mb
                  eS     46 54.40
DRV     42.81 203 eP     41 25.60   0.3
WRA     44.14 274 Pd     41 36.20  -0.5
        0.9s   154.20nm          5.8mb
WB5     44.15 274 iPc    41 35.80  -1.0
                  i      43 29.40 674kmX
FORR    45.62 256 iPd    41 48.00  -0.3
        0.4s    22.00nm          5.4mb
SBA     46.61 184 P      41 57.60   2.1
MTN     50.20 280 iPc    42 23.70  -0.5
KNA     50.77 275 eP     42 27.00  -1.5
        0.9s   107.00nm          5.8mb
COOL    51.33 254 eP     42 30.10  -2.6
KLB     53.87 252 eP     42 47.50  -4.0X
        0.5s    24.00nm          5.5mb
MEKA    54.93 258 iPd    42 57.20  -2.2
MUN     55.00 251 eP     42 57.10  -2.7
MBL     55.97 265 eP     43 04.00  -3.0X
MRWA    56.09 254 eP     43 04.00  -3.7X
GUA     57.42 316 eP     43 15.30  -1.9
GUMO    57.49 316 eP     43 16.00  -1.7
SPA     58.34 180 eP     43 22.40  -1.0
        1.0s    76.00nm          5.8mb
      Z 19s      5.57um          5.7Msz
NANU    59.02 261 eP     43 26.00  -2.4
MKS     63.97 281 iPc    44 02.50   0.6
DAV     66.22 295 eP     44 14.00  -2.3
TRT     68.43 274 ePd    44 28.60  -1.7
        1.4s    12.10nm          4.7mb
AIA     70.62 156 eP     44 41.70  -1.2
MAW     70.96 201 iPd    44 45.90   0.9
        1.1s    84.00nm          5.7mb
KKM     72.98 288 ePc    44 58.00   0.1
BAG     75.89 300 eP+    45 12.00  -2.7
MAT     79.41 325 eP     45 33.00  -0.5
        1.4s    93.02nm          5.6mb
      Z 20s      1.06um          5.2Msz
                  eS     55 35.00
LNV     84.86 127 eP     46 02.10   0.1
LCCH    85.03 126 eP     46 03.00   0.1
SSE     85.03 311 eP     46 02.00  -0.7
      Z 20s      0.90um          5.2Msz
      E 10s      0.60um
                  eS     56 30.00
GZH     85.36 301 eP     46 03.00  -1.5
                  eS     56 32.00
TACH    85.36 127 iPc    46 06.50   2.0
QIZ     85.59 295 P      46 06.00   0.3
      N 12s      1.10um
SYP     85.66  45 eP     46 07.00   1.1
SAN     85.66 127 eP     46 06.00  -0.1
PCH     85.67 127 iPc    46 06.50   0.3
PEL     85.83 127 eP     46 05.10  -1.8
        1.3s   198.08nm          6.2mb
FCH     85.99 127 eP     46 08.00  -0.1
BCH     86.05  44 P      46 08.70   0.9
PRS     86.09  43 eP     46 08.30   0.4
GCC     86.23  42 eP     46 09.00   0.5
ABL     86.33  45 P      46 10.20   0.8
SAO     86.35  42 ePc    46 10.60   1.4
PRI     86.37  43 eP     46 10.20   0.8
BAR     86.44  48 eP     46 10.00   0.3
SNG     86.46 281 eP     46 10.00  -0.1
PAS     86.49  46 eP     46 11.00   1.1
LLA     86.54  43 e(P)   46 10.70   0.6
MWC     86.61  46 eP     46 11.00   0.3
MHC     86.65  42 ePc    46 11.10   0.4
BRK     86.67  41 ePc    46 10.80   0.1
BKS     86.69  41 iPd    46 12.10   1.3
        1.1s   156.00nm          6.2mb
      Z 20s      6.00um          6.0Msz
      N 20s      7.00um
      E 20s      0.70um
                  e      46 48.80 144kmX
                  iS     56 54.80
                  eLQ    09 21.60
                  eLR    13 34.00
ARN     86.71  42 P      46 12.00   1.0
PLM     86.77  47 eP     46 11.00  -0.5
```

15d 21h

RVR	86.88	46	eP	46	12.00	0.2	GLD	98.07	48	P	47	00.00	-3.7X				e	53	52.00										
SBB	87.07	46	eP	46	13.00	0.2		Z 18s		2.30um			5.7Msz	KIC	153.89	165	PKP	53	19.62	0.7										
NJ2	87.16	311	Pc	46	14.00	0.9	FBA	99.27	13	P	47	10.00	1.7		1.3s		33.50nm												
	4.0s	600.00nm				6.2mb X		0.9s		9.17nm			5.3mb	TIC	154.18	164	PKP	53	20.00	0.8									
	Z 18s	0.40um				4.9Msz	LZH	99.55	307	P	47	10.00	-0.5		1.3s		43.00nm												
		S	56	41.00				5.0s		310.00nm			6.1mb X	HLW	154.74	273	ePKP	53	29.00	9.4X									
ISA	87.33	45	eP	46	14.00	0.0				PP	51	15.00		CFR	155.69	311	ePKP	53	29.00	8.6X									
FRI	87.51	43	ePc	46	14.80	0.1				eS	58	42.80		BCK	155.85	291	ePKP	53	20.00	-1.0									
TPC	87.77	47	eP	46	17.00	0.8	SES	100.97	37	ePdiff	47	12.00	-4.5X	ELL	156.45	290	ePKP	53	22.00	0.1									
CMB	87.84	42	ePc	46	16.20	-0.2	RSSD	101.25	45	Pdiff	47	17.70	-0.4	KHL	156.59	294	ePKP	53	24.00	2.0									
CLC	87.96	45	eP	46	17.00	0.0	INK	105.17	16	ePKP	51	51.00	2.3	LKO	156.74	161	PKP	53	23.34	0.6									
GSC	88.10	46	eP	46	17.00	-0.7	YKA	106.74	26	ePKP	51	50.00	-1.9	MLR	156.95	313	ePKP	53	21.50	-0.8									
ORV	88.28	40	eP	46	18.10	-0.3		0.6s		0.80nm				KRA	157.40	329	ePKP	53	20.00	-2.5									
WDC	88.44	39	ePc	46	19.10	0.0	GBA	109.29	274	PKPd	51	57.20	-0.9		1.3s		125.00nm												
MIN	88.78	40	e(P)	46	20.60	-0.4		1.1s		7.00nm							e	53	33.50										
WHN	89.19	307	eP	46	24.00	1.1	CER	113.12	196	ePKP	52	13.00	8.1X				i	53	54.00										
TNP	89.70	44	P	46	25.20	-0.3	TUH	113.22	196	ePKP	52	20.00	14.9X	SPC	157.88	327	ePKP	53	22.70	-0.6									
	1.1s	55.19nm				5.8mb	MBC	113.81	13	ePKP	52	04.00	-1.0				i	53	56.40										
MDJ	89.79	326	iPd	46	26.80	1.4		1.0s		6.00nm				KSP	158.25	335	ePKPd	53	23.70	0.3									
	1.4s	200.00nm				6.2mb	WMQ	114.09	308	PKP	52	05.70	-0.9		1.0s		107.00nm												
KVN	89.84	42	P	46	25.30	-0.8		E 16s		1.00um							id	53	58.40										
DL2	89.98	317	eP	46	27.00	0.6	NDI	116.18	289	iPKP	52	10.50	-0.4	WIT	158.76	352	ePKP	53	24.00	0.1									
	4.0s	1200.00nm				6.5mb X	PRY	116.71	205	ePKP	52	11.20	-1.0				e	54	01.00										
	Z 22s	0.70um				5.0Msz	WVLY	117.17	55	PKP	52	10.80	-1.6	CLL	158.91	341	ePKP	53	22.00	-2.1									
SNY	90.88	320	iPc	46	30.00	-0.5	KSR	117.89	205	ePKP	52	14.00	-0.5	BRG	159.01	338	ePKP	53	24.30	0.0									
	1.2s	100.00nm				6.1mb	RSNY	120.60	54	PKP	52	17.70	-1.1				i	53	39.00										
	Z 19s	1.90um				5.6Msz		Z 20s		1.69um			5.7Msz				i	54	00.50										
	N 19s	1.10um					WNY	121.02	54	PKP	52	18.30	-1.4				i	54	11.00										
	E 19s	1.20um					HBVT	121.56	54	PKP	52	18.80	-1.9				i	54	38.50										
		pP	46	43.60	45km		BUL	122.35	210	iPKPc	52	15.40	-7.7X	WTS	159.55	351	ePKP	53	25.00	0.2									
TIA	90.93	313	eP	46	32.10	1.2		1.0s		9.00nm					1.2s		41.00nm												
	1.2s	100.00nm				6.1mb	BNH	122.87	55	PKP	52	22.90	-0.3				e	54	04.00										
	Z 24s	1.20um				5.3MszX	MIM	124.55	54	PKP	52	25.50	-0.9				e	54	16.00										
CN2	91.27	323	iPc	46	32.00	-0.2	KRI	124.83	213	iPKPd	52	19.90	-8.0X	PRU	159.58	336	ePKPd	53	27.00	2.1									
	4.0s	500.00nm				6.3mb X	OUE	125.05	287	PKPd	52	24.90	-3.2X		Z 15s		1.50um			6.0MszX									
		eSKS	56	52.00			CBM	125.51	52	PKP	52	27.00	-1.2		N 15s		0.70um												
GYA	92.24	300	iPc	46	38.00	0.7	EMM	125.52	55	PKP	52	27.40	-0.9		E 15s		1.20um												
		PP	50	22.00			FRB	126.61	31	ePKP	52	29.00	-0.8				e	54	04.20										
BMW	92.31	34	P	46	37.80	0.8	CAI	126.65	129	ePKP	52	31.00	-0.4	DBN	159.61	354	ePKP	53	24.00	-0.8									
SHW	92.59	35	P	46	39.30	0.9	SCH	127.34	43	ePKP	52	30.00	-1.5		Z 20s		0.80um			5.6Msz									
VGB	92.84	36	P	46	39.80	0.3	MAIO	132.74	292	iPKPd	52	43.00	0.5				e	54	01.00										
MSU	93.00	46	P	46	41.10	0.4	DAG	133.96	7	iPKP	52	41.70	-1.8				ePP	57	41.00										
NNA	93.05	106	eP	46	40.00	-1.2		1.1s		12.66nm							eSPP	11	16.00										
	1.0s	14.00nm				5.3mb	TEH	139.09	289	ePKP	52	59.00	4.5X	BUD	159.66	325	e(PKP)	53	25.00	-0.1									
	Z 18s	0.69um				5.1Msz	KEV	139.51	347	ePKP	52	48.00	-6.0X	SRO	159.77	327	ePKP	53	24.70	-0.5									
LON	93.19	35	P	46	40.50	-0.6				i	52	56.00					i	54	05.50										
GMW	93.29	34	P	46	42.30	0.8	SOD	141.57	345	iPKP	52	52.80	-5.0X				e	55	22.00										
PT08	93.31	106	iPc	46	43.90	1.1	TAB	143.39	292	ePKP	52	59.00	-3.1X				e	55	45.00										
BJI	93.93	315	eP	46	45.00	0.5	AKU	143.98	14	ePKP	53	02.80	0.9	MOX	159.89	342	ePKP+	53	24.00	-1.3									
	4.0s	400.00nm				6.2mb X		1.2s		37.50nm					Z 17s		2.00um			6.0MszX									
	Z 18s	1.47um				5.5Msz	SUF	145.45	341	iPKP	53	03.50	-1.1	ZST	160.03	329	ePKP	53	25.70	0.2									
		eSKS	57	19.00				1.0s		427.30nm							i	54	04.60										
CHG	94.04	290	eP	46	48.00	2.5	NUR	147.64	339	iPKP	53	07.00	-1.2	VKA	160.31	331	ePKP	53	25.00	-0.8									
		e	50	34.00				1.0s		200.00nm							i	54	07.90										
CHTO	94.04	290	e(P)	46	44.80	-0.7				e	53	42.00		KHC	160.64	337	PKP	53	26.00	-0.1									
KMI	94.44	297	Pd	46	49.00	1.4	BCAO	148.62	213	iPKPd	53	11.00	-0.2				i	54	08.80										
	2.5s	100.00nm				5.8mb		1.5s		438.00nm				WET	160.86	338	ePKP	53	26.60	0.3									
	Z 18s	0.90um				5.3Msz				i	53	15.00		ENN	160.86	352	ePKP	53	26.00	-0.2									
		pP	47	01.50	41km					i	54	40.90			1.0s		36.00nm												
ALO	94.49	51	eP	46	46.30	-1.2	UPP	150.09	344	iPKP	53	16.30	4.3X				e	54	08.00										
	1.2s	18.75nm				5.4mb				i	53	22.60					e	54	26.50										
	Z 18s	1.55um				5.5Msz	NB2	150.16	351	PKP	53	10.40	-1.8				ePP	57	50.00										
ANMO	94.49	51	P	46	47.40	-0.1		1.0s		72.90nm				VAY	160.98	306	ePKP	53	25.00	-1.6									
	1.4s	26.16nm				5.5mb	AYN	150.56	273	PKP	53	14.50	0.8				i	54	10.00										
DAU	94.74	45	P	46	49.70	1.0	GAZ	150.59	290	iPKP	53	25.00	11.5X	KMR	161.35	334	ePKP	53	23.00	-3.8X									
TIY	94.81	312	Pd	46	50.10	1.3	HFS	150.64	348	ePKP	53	11.90	-0.9				i	54	12.20										
	Z 23s	1.20um				5.3MszX		1.2s		11.10nm				SKO	161.47	309	ePKP	53	26.60	-0.5									
ARE	94.85	113	eP	46	49.00	-0.8		Z 20s		0.94um			5.6Msz				i	54	12.50										
XAN	94.96	307	P	46	50.50	1.0				LR	46	36.00					i	04	47.00										
PNT	96.04	34	eP	46	54.00	0.0	JARJ	151.26	280	PKPd	53	20.90	6.1X	DOU	161.65	355	PKP	53	27.00	0.0									
NEW	96.54	36	P	46	57.00	0.6	BADA	151.32	272	PKP	53	15.30	0.5				e	54	15.00										
	0.8s	5.21nm				5.1mb	BURJ	151.38	280	PKPc	53	21.00	6.0X				PP	57	57.00										
	Z 20s	7.60um				6.2Msz	AKSR	151.41	261	iPKPd	53	22.30	7.2X				SS	18	14.00										
IMW	97.07	42	P	47	00.00	0.8	MKRJ	151.41	278	PKPc	53	21.00	6.0X	PTJ	162.27	326	ePKP	53	28.20	0.3									
BW06	97.19	44	P	46	59.40	-0.3	KFNJ	151.43	279	PKPd	53	21.40	6.5X	OHR	162.28	307	ePKP	53	28.20	0.2									
	1.0s	4.00nm				4.9mb	SALJ	151.45	279	PKPc	53	21.50	6.5X		1.2s		49.00nm												
HHC	97.21	314	eP	47	01.50	1.8	HRI	151.57	282	ePKP	53	16.00	0.8	LJU	162.81	329	e(PKP)	53	27.50	-0.8									
LRM	97.42	40	eP	46	59.40	-1.3	DSI	151.64	278	ePKP	53	16.00	0.8				e	54	17.50										
LPB	97.46	115	P	46	58.00	-3.8X	AKRL	151.68	261	iPKPd	53	23.00	7.5X	VBY	162.89	327	ePKP	53	29.50	1.1									
	Z 18s	2.06um				5.7Msz	MBH	151.72	275	iPKPd	53	16.00	0.6				e	54	29.00										
		LR	18	46.00			ANMR	151.82	261	iPKPd	53	28.50	12.8X	SOTA	163.08	338	ePKP	53	28.00	-0.7									
ZOBO	97.59	114	P	47	02.50	-0.1	ASKD	151.95	261	iPKPd	53	23.70	7.8X		1.3s		86.20nm												
	1.1s	6.38nm				5.1mb	KAS	152.89	300	iPKPd	53	24.80	8.0X				i	54	19.00										
	Z 18s	1.74um				5.6Msz	LFK	153.53	286	iPKP	53	26.30	8.4X				i	54	41.30										
		LR	18	34.00			LIC	153.69	164	PKP	53	19.40	0.8				iPP	57	24.70										
GOL	97.94	48	P	47	00.00	-3.2X		1.4s		33.00nm							i	58	03.20										
	Z 18s	1.73um				5.6Msz	BBTK	153.89	296	ePKPd	53	18.00	-0.3	VOY	163.09	330	ePKP	53	27.20	-1.5									

			e	54	18.30	
CEY	163.09	329	e(PKP)	53	28.00	-0.7
			e	54	18.80	
TRI	163.40	330	ePKP	53	28.60	-0.3
			e	54	19.70	
BSF	163.61	348	ePKP	53	29.30	0.1
	1.0s		16.00nm			
LOR	164.52	355	ePKP	53	30.20	0.2
	1.2s		8.95nm			
SSF	164.75	356	ePKP	53	30.50	0.3
LBF	164.79	355	ePKP	53	30.30	0.0
	1.2s		8.95nm			
AVF	165.03	356	ePKP	53	30.80	0.4
	1.0s		8.00nm			
SMF	165.14	355	ePKP	53	30.70	0.2
	1.0s		8.00nm			
MFF	165.16	6	ePKP	53	30.80	0.3
	1.0s		12.00nm			
BGF	165.28	358	ePKP	53	31.20	0.6
	1.2s		19.35nm			
TCF	165.57	359	ePKP	53	31.30	0.4
	1.0s		8.00nm			
LSF	165.60	1	ePKP	53	31.20	0.3
	1.0s		6.00nm			
RJF	166.55	1	ePKP	53	32.30	0.6
	1.2s		17.85nm			
LFF	166.88	4	ePKP	53	32.70	0.8
	0.8s		8.05nm			
CAF	166.93	360	ePKP	53	33.00	1.0
	1.0s		8.00nm			
LPO	167.16	3	ePKP	53	32.90	0.7
	1.2s		17.85nm			
SBF	167.25	342	ePKP	53	32.40	0.0
	1.0s		14.00nm			
PGF	167.93	334	ePKP	53	33.00	0.1
	1.0s		12.00nm			
ECRI	168.67	17	ePKP	53	35.20	1.9
EPF	168.75	6	ePKP	53	34.00	0.7
	1.2s		17.85nm			
GUD	169.92	28	ePKP	53	36.40	2.2
ETOR	170.47	19	ePKP	53	36.40	1.9
TOL	170.60	30	ePKP	53	37.00	2.5
			ePKKP	54	52.00	
			ePP	59	20.00	
			eSS	19	42.00	
EVAL	170.82	49	ePKP	53	36.80	2.2
EBR	170.95	7	ePKP	53	36.00	1.5
AVE	171.94	77	iPKP	53	37.00	1.8
TIO	172.05	94	iPKP	53	36.50	1.0
			i	53	51.50	
EVIA	172.29	27	e(PKP)	53	37.20	1.9
MAL	172.81	46	iPKPd	53	36.50	1.1
			i	55	02.50	

S.D. = 1.1 on 213 of 250 obs.

? MAY 15, 1990 21h 37m 36.10± 1.58s
35.860 N ±22.0km 99.644 E ±12.9km
DEPTH = 10.0km (geophysicist)
QINGHAI PROVINCE, CHINA (325)
ML 4.2 (BJI).

LZH	3.41	85	Pn	38	30.00	-0.6
			Pg	38	36.00	
XAN	7.83	101	Pn	39	32.00	-0.8
			Sg	41	38.00	
BTO	9.43	57	eP	39	54.00	-1.1
N	12s		0.60um			
E	12s		1.00um			
HHC	10.60	58	eP	40	13.20	2.0
WMQ	12.14	315	P	40	31.50	-0.5
DZM	85.47	121	iPc	50	16.60	1.1

S.D. = 1.6 on 6 of 6 obs.

MAY 15, 1990 22h 07m 52.92± 0.27s
42.429 N ± 5.3km 144.298 E ± 4.2km
DEPTH = 68.3km (2 depth phases)
4.9mb (33 obs.)
HOKKAIDO, JAPAN REGION (224)
Felt (III JMA) ot Kushiro.

KUSJ	0.73	24	iPd	08	08.50	0.2
			S	08	19.00	
HOOJ	0.75	267	P	08	10.00	1.5
			S	08	21.30	
ASAJ	2.08	325	iPd	08	27.20	1.0
			S	08	51.90	
MRRJ	2.39	271	P	08	31.80	1.3
			S	09	00.10	
AOMJ	3.49	239	eP	08	46.50	0.6
			eS	09	27.50	
OFUJ	3.90	212	P	08	50.80	-0.8
			eS	09	34.30	
YAMJ	5.35	219	P	09	11.70	-0.4
MAT	7.53	221	iPc	09	41.40	-0.9
	0.8s		78.36nm		5.5mb	
			eS	11	09.00	
MDJ	10.90	287	eP	10	29.00	0.6
CN2	13.84	282	eP	11	08.40	1.2
BJI	21.25	273	eP	12	34.50	-0.6
SSE	21.63	246	eP	12	53.40	14.5X
TIY	24.75	270	Pd	13	08.20	-1.2
BTO	25.64	278	eP	13	18.50	0.8
LZH	31.73	272	P	14	12.00	-0.5
	1.2s		28.00nm		4.9mb	
CD2	34.19	264	eP	14	34.70	1.0
TTA	39.77	38	ePc	15	20.50	0.2
SVW	39.92	41	ePc	15	22.70	1.2
WMQ	40.64	292	P	15	28.00	0.3
IMA	40.94	33	ePc	15	30.00	0.1
	0.5s		22.00nm		5.2mb	
KDC	41.73	46	P	15	36.10	-0.2
	0.5s		10.74nm		4.9mb	
PMS	42.85	41	eP	15	45.40	-0.1
	0.8s		25.70nm		5.1mb	
FBA	43.39	35	ePc	15	50.30	0.5
TOA	44.36	39	ePc	15	58.60	0.8
CHG	44.90	253	eP	16	04.30	1.8
CHTO	44.90	253	eP	16	04.00	1.5
			pP	16	21.20	69km
GUN	48.99	273	P	16	34.70	-0.3
	0.7s		18.00nm		5.2mb	
PKI	49.53	272	P	16	37.80	-1.2
DMN	49.73	273	P	16	38.90	-1.6
YKA	58.05	32	eP	17	39.20	-1.5
	0.6s		5.50nm		4.9mb	
KEV	59.20	339	eP	17	47.00	-1.7
	0.7s		16.00nm		5.3mb	
			i	39	05.20	
DAG	60.60	356	iPc	17	55.90	-2.2
	1.0s		41.00nm		5.5mb	
SOD	60.87	337	iP	17	58.70	-1.4
QUE	61.53	286	eP	18	04.70	-0.6
WB5	62.67	191	eP	18	12.00	-0.5
WRA	62.74	191	Pd	18	12.50	-0.5
	0.7s		5.00nm		4.7mb	
PNT	62.81	47	eP	18	13.00	-0.3
LON	63.03	50	P	18	15.10	0.2
MAIO	63.23	296	eP	18	33.00	16.6X
SUF	64.17	333	iP	18	20.90	-1.1
	0.5s		20.60nm		5.3mb	
NEW	64.77	47	P	18	26.00	-0.2
	0.9s		7.13nm		4.6mb	
NUR	66.24	332	iP	18	34.00	-1.3
	0.5s		22.50nm		5.4mb	
FFC	67.99	35	iPc	18	46.20	-0.3
	0.8s		21.00nm		5.1mb	
LRM	68.79	47	eP	18	52.30	0.4
CMB	69.01	57	eP	18	53.90	0.8
UPP	69.07	334	iP	18	51.70	-1.3
PRS	69.43	59	e(P)	18	47.10	-8.5X
KVN	69.79	55	P	18	58.80	0.8
NB2	70.06	338	P	18	57.90	-1.2
	0.7s		8.20nm		4.8mb	
HFS	70.08	336	eP	18	57.50	-1.6
	0.6s		14.10nm		5.1mb	
TNP	70.93	56	P	19	06.00	1.0
	0.7s		4.63nm		4.5mb	
FRB	71.01	15	eP	19	03.00	-1.7
AKU	71.36	352	eP	19	10.70	3.9X
	0.9s		13.45nm		4.9mb	
MSU	73.68	53	P	19	22.50	1.2
RSON	74.26	34	P	19	23.00	-1.1
	0.9s		18.01nm		5.0mb	
GLA	75.67	58	P	19	33.70	1.2
KRA	75.84	327	eP	19	32.50	-0.6
			e	19	51.00	68km
KSP	76.66	329	eP	19	38.00	0.3
CLL	77.49	331	iPc	19	41.80	-0.4
	1.1s		10.00nm		4.7mb	
			eSg	24	05.00	
PRU	78.01	330	P	19	45.50	0.4
EKA	78.75	342	Pd	19	49.30	0.2
	1.1s		7.00nm		4.5mb	
KHC	79.07	330	P	19	51.40	0.4
GRF	79.47	331	ePKP	19	53.00	-0.1
SCH	79.56	18	eP	19	54.00	0.4
OHR	82.44	321	eP	20	09.00	0.0
PRNI	82.74	305	e(P)	20	29.00	18.3X
MBH	83.22	304	eP	20	31.00	17.9X
LOR	84.06	334	eP	20	17.00	-0.1
	0.8s		4.05nm		4.5mb	
LBF	84.27	334	eP	20	18.00	-0.2
	0.8s		4.05nm		4.5mb	
SMF	84.62	334	eP	20	19.90	0.0
	0.8s		5.35nm		4.6mb	
LPL	84.62	332	eP	20	20.60	0.4
	0.6s		3.60nm		4.6mb	
LPG	84.63	332	eP	20	20.70	0.4
	0.6s		2.70nm		4.5mb	
MAF	85.40	334	eP	20	24.70	0.9
	0.8s		6.70nm		4.8mb	
SBF	85.79	330	eP	20	25.60	-0.3
	0.8s		10.75nm		5.0mb	
LRG	86.54	331	eP	20	29.60	0.2
	0.8s		8.05nm		4.9mb	
LMR	86.59	331	eP	20	29.50	-0.2
	0.8s		8.05nm		4.9mb	
CAF	86.72	334	eP	20	31.40	1.1
	0.8s		6.70nm		4.8mb	
LFF	87.12	335	eP	20	33.10	0.9
	0.8s		5.35nm		4.8mb	
LPO	87.21	335	eP	20	33.50	0.8
	0.8s		5.35nm		4.8mb	
HBVT	87.35	26	P	20	34.20	0.8
TBR	89.83	28	P	20	46.00	0.8
CVL	91.01	32	P	20	50.80	0.1
SIV	145.84	47	(PKP)	27	35.00	9.4X

S.D. = 0.9 on 76 of 83 obs.

MAY 15, 1990 22h 29m 59.30± 0.12s
36.112 N ± 2.9km 100.118 E ± 2.4km
DEPTH = 14.0km (15 depth phases)
5.5mb (83 obs.) 5.2Msz (1 obs.)
QINGHAI PROVINCE, CHINA (325)
ML 5.7 (BJI). Felt in the Xining orea.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 12C
Centroid Location:
Origin Time 22:30:13.1 1.6
Lat 36.65N 0.23 Lon 100.26E 0.29
Dep 15.0 FIX Half-duration 1.7
Moment Tensor; Scale 10**16 Nm
Mrr= 5.36 1.31 Mtt=-4.77 1.16
Mff=-0.58 1.88 Mrt= 6.25 3.58
Mrf=-7.86 2.54 Mtf= 1.08 1.08
Principal Axes:

T	Val= 12.09	Plg=56	Azm= 61
N	-1.77	12	313
P	-10.32	32	216

Best Double Couple:Mo=1.1*10**17
NP1:Strike=271 Dip=17 Slip= 47
NP2: 136 78 102

LZH	3.02	89	iPnc	30	50.40	2.8
			Pg	30	55.40	
			Sg	31	34.00	
GTA	3.30	356	Pn	30	54.60	2.9
Z	10s		31.10um			
			Pg	31	01.80	
			Sg	32	45.00	
CD2	6.01	149	ePn	31	32.80	2.8
Z	10s		16.60um			
			iSg	33	12.10	
XAN	7.51	103	iPnc	31	48.60	-2.4
			Pg	32	15.00	
			Sg	33	55.50	
BTO	8.97	57	eP	32	09.50	-1.9
N	11s		9.30um			
E	11s		6.80um			
			pP	32	11.50	
LSA	9.88	232	P	32	24.60	0.3
TIY	9.99	77	Pc	32	20.50	-5.0X
Z	14s		12.90um			
N	12s		21.60um			
HHC	10.14	59	P	32	26.00	-1.6
	0.9s		400.00nm		6.8mb X	
			S	34	22.00	
GYA	11.13	148	P	32	40.00	-1.1
	1.2s		200.00nm		6.3mb	

15d 22h

```
     Z  10s      4.50um              5.7MszX
                     S     34 50.00
KMI     11.18 168 Pd     32 41.00   -0.9
        2.0s   100.00nm            5.8mb
     Z  20s      9.70um              5.3Msz
                    eS     34 48.00
WMQ     12.24 313 iPc    32 53.80   -2.3
                     S     35 10.00
WHN     13.13 111 eP     33 04.00   -3.8X
     Z  10s     12.10um
     E  10s     15.50um
                    eS     35 30.00
BJI     13.24  68 Pd     33 08.00   -1.3
        1.0s    74.00nm            5.7mb
TIA     13.75  85 eP     33 12.90   -3.1X
        1.1s   100.00nm            5.6mb
     Z  14s      7.50um
     E  12s      7.50um
GUN     14.58 240 Pd     33 24.10   -3.2X
PKI     15.11 240 Pd     33 31.80   -2.5
DMN     15.30 241 Pd     33 34.20   -2.5
NJ2     16.04  99 Pd     33 43.00   -2.9
     Z  12s      3.20um
CHG     17.26 184 iPc    34 04.20    2.7
        0.8s   179.10nm            5.3mb
DL2     17.29  74 eP     34 01.30   -0.4
     Z  12s      3.80um
     E  14s      5.90um
GZH     17.32 135 P      34 03.50    1.4
     Z  12s      3.70um
     N  11s      6.40um
     E  11s      6.40um
MCO     18.20 136 eP     34 13.00   -0.1
SSE     18.24 100 Pd     34 13.50    0.0
        1.1s   100.00nm            4.9mb
     Z  20s      3.70um              5.7Msz
     N  12s      3.10um
     E  10s      2.50um
                    pP     34 21.80
HKC     18.40 135 iP     34 16.80    1.2
LOE     18.69 175 iPc    34 19.00   -0.1
BDT     18.82 183 iPd    34 21.80    1.1
        1.0s   172.50nm            5.2mb
QIZ     19.05 151 Pc     34 24.00    0.4
     N  12s      2.90um
     E  12s      6.80um
                    eS     37 53.00
                    sS     38 03.50
SNY     19.09  65 iPc    34 23.50   -0.3
        0.8s   200.00nm            5.4mb
     Z  13s      3.20um              3.7Msz
                    sP     34 36.50
                    eS     37 50.50
                    sS     38 05.00
                    SS     38 20.50
KSH     19.35 287 iPc    34 42.30   15.0X
        1.0s   200.00nm
     Z  14s      6.20um
     N  10s      4.50um
     E  10s      1.80um
                    sP     34 51.00
QZH     19.39 120 Pc     34 26.00   -1.6
        1.2s   100.00nm            5.0mb
     Z  10s      2.50um              4.1MszX
NST     20.36 180 eP     34 38.30    0.3
NDI     20.68 256 iPc    34 40.30   -1.0
        0.6s   126.67nm            5.5mb
NNT     23.42 181 iPc    35 10.00    1.2
MDJ     23.91  60 iPc    35 14.70    1.4
        1.0s   100.00nm            5.3mb
     Z  15s      3.10um              4.9MszX
                    eS     39 24.00
SHNJ    25.38  85 eP     35 27.60    0.1
KUMJ    25.56  89 P      35 28.80   -0.4
KAGJ    26.02  92 P      35 32.80   -0.8
SHK     26.55  84 eP     35 38.10   -0.3
HYB     26.68 231 iPc    35 39.50   -0.2
        1.0s    70.00nm            5.3mb
YONJ    27.04  82 eP     35 41.00   -1.9
TKSJ    27.78  84 eP     35 48.20   -1.4
QUE     28.30 268 iPc    35 55.00    0.4
WKYJ    28.97  83 eP     35 59.40   -1.0
POO     29.04 240 iP     35 59.00   -2.1
GBA     30.28 228 Pd     36 12.20    0.0
        0.8s    34.60nm            5.2mb
MAT     30.56  78 eP     36 12.00   -2.6
        1.3s    46.15nm            5.2mb
```

```
IPM     31.39 178 ePc    36 22.20    0.2
        1.1s    41.80nm            5.2mb
MRRJ    32.09  66 eP     36 26.20   -1.7
MAIO    32.61 283 iPc    36 34.60    2.0
KOD     32.95 224 eP     36 36.80    0.8
ASAJ    33.19  63 eP     36 37.40    0.0
PSI     33.27 182 eP     36 38.00   -0.3
HOOJ    33.73  66 eP     36 42.90    0.8
KUSJ    34.73  65 eP     36 50.60   -0.2
TAB     42.45 289 eP     37 57.00    1.5
BRF     43.19 271 iP     38 02.70    1.3
        0.7s   117.00nm            5.7mb
BJA     43.20 271 iP     38 02.90    1.4
        0.6s   107.00nm            5.8mb
TRT     45.14 162 ePd    38 17.40    0.2
RYD     47.00 272 iPc    38 31.70   -0.3
KAS     50.89 297 iPd    39 03.20    1.4
SOD     50.94 331 iP     39 01.50   -0.3
SUF     51.41 325 iP     39 05.60    0.3
        0.5s    15.10nm            5.2mb
BBTK    52.09 296 iPc    39 12.00    1.0
HRI     52.14 287 iPc    39 12.00    0.5
CSTJ    52.25 284 Pd     39 12.00   -0.3
MDSJ    52.38 285 Pc     39 13.00   -0.2
NUR     52.38 323 iP     39 12.60   -0.1
        0.9s    65.90nm            5.6mb
                    i      39 17.00   15km
BURJ    52.49 286 Pd     39 13.20   -0.9
SALJ    52.67 285 Pc     39 15.60    0.2
KFNJ    52.73 285 Pc     39 15.50   -0.2
DSI     53.08 285 eP     39 19.00    0.7
CFR     53.69 303 eP     39 22.00   -0.6
PSN     54.13 302 iPd    39 28.00    2.2
MBH     54.21 283 iPc    39 27.00    0.4
VRI     54.45 305 ePc    39 28.50    0.3
BCK     54.50 294 eP     39 27.90   -0.9
KHL     54.97 295 eP     39 31.70   -0.6
MLR     55.08 304 ePc    39 34.00    0.9
ELL     55.27 293 eP     39 33.90   -0.6
UPP     55.95 323 iP     39 38.50   -0.4
                    i      39 42.90   14km
TNR     56.14 305 ePd    39 42.00    1.5
PVL     56.24 302 iPd    39 43.00    1.8
KDZ     56.73 300 iPc    39 46.00    1.2
MTN     56.82 143 iPd    39 44.40   -1.2
HLW     56.96 285 eP     39 46.00   -0.5
PLD     57.06 301 iPc    39 48.00    0.9
RZN     57.21 300 iPc    39 49.00    0.6
PGB     57.28 302 iP     39 50.00    1.3
KRA     57.48 311 eP     39 49.30   -0.6
                    e      39 53.80   15km
SPC     57.57 310 iP     39 51.00    0.1
HFS     57.77 324 eP     39 50.90   -1.0
        0.8s    33.70nm            5.4mb
VTS     57.92 302 iP     39 54.00    0.7
MMB     57.93 301 iPc    39 53.00   -0.3
KNA     58.26 147 eP     39 55.00   -0.7
        0.6s    62.00nm            5.8mb
KKB     58.28 301 iPd    39 55.00   -0.7
NB2     58.66 325 P      39 56.30   -1.8
        0.9s    29.20nm            5.4mb
VAY     58.84 301 eP     39 59.00   -0.5
SRO     59.25 309 eP     40 02.80    0.5
SKO     59.37 302 iP     40 03.00   -0.3
        1.1s    45.00nm            5.5mb
                    i      40 07.50   15km
KSP     59.40 313 iPc    40 03.50    0.1
                    ic     40 08.00   15km
ZST     59.87 310 iP     40 06.70    0.1
MBL     59.94 159 eP     40 06.60   -0.7
VAM     60.04 294 eP     40 07.00   -0.9
NANU    60.15 164 iPc    40 09.20    0.5
        0.5s    22.00nm            5.5mb
OHR     60.15 301 eP     40 07.20   -1.5
VKA     60.33 310 iPc    40 10.70    0.9
                    e      40 14.50   12km
                    e      40 22.00
VLI     60.42 296 eP     40 08.00   -2.5
PRU     60.76 312 Pc     40 12.80    0.1
        1.4s    32.00nm            5.3mb
                    e      40 16.80   13km
BRG     60.78 314 iPc    40 12.40   -0.4
        1.3s    44.00nm            5.4mb
                    i      40 16.20   12km
ITM     60.96 297 eP     40 11.80   -2.4
CLL     61.16 314 iPc    40 15.10   -0.2
        1.4s    39.00nm            5.4mb
```

```
                    i      40 19.40   14km
DAG     61.26 347 iPc    40 13.40   -2.3
        1.0s    27.00nm            5.3mb
PTJ     61.48 308 eP     40 17.80    0.1
ZAG     61.49 308 iP     40 18.10    0.4
KHC     61.67 312 iPc    40 19.50    0.6
        1.2s    16.00nm            5.1mb
     Z  18s      1.40um              5.2Msz
     N  18s      0.50um
     E  18s      0.50um
KMR     61.76 311 iP+    40 20.10    0.6
VBY     62.09 308 ePc    40 22.00    0.3
WET     62.09 312 iPc    40 21.80    0.1
        1.3s    48.00nm            5.5mb
HOF     62.21 314 eP     40 22.60    0.1
        1.0s    33.00nm            5.5mb
MOX     62.23 314 eP     40 22.00   -0.6
        1.4s    49.00nm            5.5mb
HVAR    62.27 305 eP     40 21.90   -1.0
LJU     62.33 308 eP     40 23.00   -0.3
CEY     62.52 308 eP     40 24.40   -0.2
BHG     62.67 311 eP     40 26.30    0.7
        0.2s    70.00nm            6.6mb X
GRF     62.85 313 iPc    40 27.40    0.7
        1.2s    88.00nm            5.8mb
                    ed     40 31.80   14km
TRI     62.95 308 eP     40 26.90   -0.5
FVI     63.20 309 P      40 26.60   -2.4
PMG     63.30 126 eP     40 23.50   -6.6X
FUR     63.46 312 iPc    40 31.50    0.7
        1.2s   102.00nm            5.9mb
                    i      40 36.10   15km
ORI     63.60 302 P      40 31.10   -0.7
IMA     63.67  26 ePc    40 31.90   -0.2
        0.8s    28.30nm            5.5mb
TDS     63.85 301 P      40 33.70    0.2
SQTA    63.91 311 eP     40 33.00   -0.9
        1.0s    53.00nm            5.7mb
                    ic     40 33.60    2kmX
                    i      40 38.10
                    i      40 44.60
                    i      41 13.50
WIT     64.10 318 eP     40 36.50    1.6
                    e      40 40.50   13km
SGO     64.16 303 P      40 34.80   -0.6
OGA     64.17 310 eP     40 35.30   -0.4
        1.0s    51.00nm            5.7mb
DUI     64.25 304 P      40 35.30   -0.8
TTA     64.35  30 ePc    40 36.40   -0.1
WTS     64.39 317 ePc    40 37.00    0.2
        1.0s    42.00nm            5.6mb
                    e      40 41.50   14km
BSS     64.40 303 P      40 35.90   -1.1
WB5     64.43 144 iPc    40 36.30   -1.1
WRA     64.47 144 Pc     40 36.30   -1.3
        0.6s    41.40nm            5.8mb
RSM     64.57 307 P      40 37.00   -1.0
AQU     64.64 305 P      40 38.00   -0.7
OSS     64.80 310 ePc    40 39.80    0.0
SAX     65.03 311 ePc    40 41.00   -0.4
PGD     65.06 307 P      40 41.50    0.0
MNS     65.11 305 P      40 40.50   -1.2
ATN     65.13 300 P      40 39.50   -2.3
MBC     65.16  10 ePc    40 41.30   -0.1
        1.0s    29.00nm            5.4mb
SLE     65.32 312 ePc    40 42.90    0.0
SVW     65.41  31 ePc    40 41.90   -1.4
LLS     65.42 311 ePc    40 43.30   -0.5
ENN     65.44 316 ePc    40 43.50   -0.1
        1.0s    33.00nm            5.5mb
                    e      40 48.00   14km
MEM     65.47 316 P      40 43.80    0.1
ZLA     65.51 312 ePc    40 44.10   -0.1
MME     65.57 308 P      40 43.60   -1.3
BDI     65.70 308 P      40 43.40   -2.1
CDF     65.74 313 iPc    40 45.60   -0.1
        1.0s    28.00nm            5.4mb
TMA     65.84 310 ePc    40 45.80   -0.7
VAI     66.02 310 P      40 44.30   -3.0X
BOB     66.10 309 P      40 46.90   -1.2
BSF     66.30 313 iPc    40 49.00   -0.3
        0.8s    26.85nm            5.5mb
UCC     66.30 316 eP     40 54.00    4.9X
FBA     66.37  26 ePc    40 49.50    0.2
MMK     66.43 311 ePc    40 50.50    0.2
DOU     66.51 316 P      40 50.40    0.0
                    e      41 20.30  121kmX
```

ORX 66.62 310 P 40 50.13 -1.2
MRWA 66.68 165 iPd 40 52.00 0.4
DIX 66.76 311 ePc 40 52.70 0.2
PCP 66.78 309 P 40 51.57 -0.8
EMS 67.05 311 ePc 40 54.40 0.1
FIN 67.15 309 P 40 52.90 -1.8
LSD 67.21 310 P 40 55.67 0.3
RSP 67.29 310 P 40 53.41 -2.3
ROB 67.32 309 P 40 54.75 -1.1
LPG 67.44 311 iPc 40 57.30 0.5
0.8s 52.45nm 5.8mb
PGF 67.44 307 iPc 40 57.00 0.4
0.8s 34.90nm 5.6mb
LPL 67.44 311 iPc 40 57.20 0.4
IMI 67.50 309 P 40 56.90 0.0
QIS 67.62 140 iPc 40 56.30 -1.5
1.0s 45.00nm 5.6mb
ENR 67.64 309 P 40 55.87 -2.0
STV 67.69 309 P 40 56.08 -2.1
RRL 67.70 310 P 40 58.03 -0.4
BNI 67.70 310 P 40 56.90 -1.4
PMR 67.78 29 ePc 40 57.80 -0.5
0.8s 78.80nm 5.9mb
SBF 67.81 309 iPc 40 58.70 -0.2
0.8s 83.30nm 6.0mb
AKU 67.94 337 iP 41 01.00 1.8
1.1s 30.38nm 5.4mb
EKA 67.96 323 Pd 40 59.60 0.1
1.0s 31.20nm 5.4mb
BAL 68.17 165 eP 41 00.50 -0.5
LOR 68.31 313 iPc 41 01.20 -0.7
0.9s 14.75nm 5.2mb
LBF 68.39 313 iPc 41 01.80 -0.6
1.2s 22.30nm 5.2mb
FRF 68.45 309 iPc 41 02.50 -0.3
0.9s 14.75nm 5.2mb
KDC 68.56 33 eP 41 02.50 -0.7
TOA 68.61 28 ePc 41 04.20 0.6
SSF 68.63 313 iPc 41 03.20 -0.6
SMF 68.64 313 iPc 41 03.70 -0.2
LMR 68.65 309 iPc 41 04.00 0.0
1.0s 36.00nm 5.5mb
LRG 68.69 309 iPc 41 04.20 0.0
1.0s 28.00nm 5.4mb
AVF 68.85 313 iPc 41 05.00 -0.2
1.0s 50.00nm 5.6mb
BGF 69.27 313 iPc 41 07.50 -0.3
1.0s 32.00nm 5.4mb
KLB 69.35 164 iPc 41 08.10 -0.2
0.5s 30.00nm 5.7mb
MUN 69.39 165 eP 41 08.50 0.0
NAI 69.48 253 iP 41 08.50 -1.2
COOL 69.50 161 iPd 41 09.10 -0.2
MAF 69.61 313 iPc 41 10.20 0.3
0.9s 52.40nm 5.7mb
TCF 69.79 313 iPc 41 11.10 0.1
0.8s 37.60nm 5.6mb
LDF 69.93 316 iPc 41 11.60 -0.2
0.8s 24.20nm 5.4mb
FLN 70.04 316 iPc 41 12.30 -0.1
0.9s 26.20nm 5.4mb
REY 70.18 337 eP 41 14.90 1.9
LSF 70.21 313 iPc 41 13.20 -0.4
1.0s 20.00nm 5.2mb
GRR 70.45 316 iPc 41 14.90 0.0
1.2s 107.10nm 5.9mb
CAF 70.59 312 iPc 41 16.60 0.7
1.0s 51.00nm 5.6mb
RJF 70.72 312 iPc 41 17.20 0.5
1.0s 56.00nm 5.6mb
LPF 70.75 316 iPc 41 16.80 0.1
1.2s 29.75nm 5.3mb
CTA 70.91 134 iPc 41 17.70 -0.4
0.9s 60.50nm 5.7mb
ipP 41 39.00 81kmX
MFF 71.00 314 iPc 41 18.60 0.2
1.2s 142.80nm 6.0mb
LPO 71.25 312 iPc 41 20.40 0.5
0.9s 42.60nm 5.6mb
LFF 71.38 312 iPc 41 21.20 0.6
0.9s 54.05nm 5.7mb
FORR 71.60 155 eP 41 22.20 0.2
0.4s 24.00nm 5.6mb
EPF 72.66 311 iPc 41 28.20 -0.2
0.8s 16.10nm 5.1mb
ESEL 72.82 307 eP 41 30.50 1.2
EBR 73.78 309 eP 41 35.50 0.7

EROO 73.83 309 eP 41 35.70 0.5
ECRI 74.63 312 eP 41 41.30 1.5
ETOR 75.38 310 eP 41 44.50 0.3
SIT 76.09 28 ePc 41 48.70 1.0
EALH 76.68 307 eP 41 52.50 1.0
GUD 76.77 311 eP 41 53.00 0.8
EVIA 76.92 308 eP 41 54.50 1.5
TOL 77.16 310 iPc 41 55.50 1.4
1.0s 160.00nm 6.0mb
RMQ 77.33 136 iPc 41 56.30 1.2
0.7s 131.00nm 6.1mb
YKA 77.84 16 eP 41 57.10 -0.3
0.8s 19.60nm 5.2mb
EPLA 78.30 311 eP 42 02.00 1.6
ASMO 78.47 308 iPd 42 01.50 0.0
ACHM 78.67 308 iPd 42 02.60 0.0
APHE 78.67 307 iPd 42 03.00 0.3
AAPN 78.74 308 iPd 42 03.00 0.0
ALOJ 78.85 308 iPc 42 03.00 -0.6
ATEJ 78.90 308 iPd 42 03.80 -0.2
ADE 79.34 149 iPc 42 07.10 1.1
0.5s 140.85nm 6.2mb
EPRU 79.65 308 eP 42 08.20 0.4
FRB 80.07 355 eP 42 09.00 -0.5
EJIF 80.12 308 eP 42 11.00 0.7
EVAL 80.23 310 eP 42 12.00 1.1
BCAO 80.61 269 iPc 42 13.50 0.2
0.8s 70.00nm 5.7mb
i 42 18.10 15km
i 42 54.00
NKM 80.69 307 iP 42 13.50 0.2
BFD 82.86 147 eP 42 25.00 0.6
AVE 83.32 306 eP 42 28.50 1.4
CAN 84.39 142 eP 42 33.00 0.7
TOO 84.51 145 iPc 42 33.80 1.0
TIO 84.71 305 iPd 42 36.20 1.9
KRI 84.84 245 iPKPc 42 44.00 9.0X
DZM 85.27 122 iPc 42 38.50 1.5
EDM 86.41 19 iPc 42 42.20 -0.1
PGC 87.13 27 eP 42 47.00 1.3
MCW 87.33 27 P 42 48.30 1.5
FFC 87.55 13 iPc 42 47.80 0.1
0.8s 29.00nm 5.6mb
8UL 87.68 243 iPc 42 42.00 -6.9X
0.9s 9.66nm 5.1mb
PNT 87.93 25 iPc 42 51.30 1.6
GMW 88.29 27 P 42 56.60 5.2X
RMW 88.73 27 P 42 55.00 1.4
SCH 88.74 352 eP 42 53.00 -0.5
8MW 89.02 28 P 42 56.60 1.6
LON 89.33 27 P 42 57.50 1.0
SES 89.58 19 eP 42 58.00 0.4
SHW 89.63 28 P 43 00.10 2.1
DPW 89.65 25 P 42 59.70 1.7
NEW 89.67 24 P 42 59.50 1.5
1.3s 131.49nm 6.0mb
VGB 90.75 27 P 43 05.00 1.9
RSON 92.55 9 P 43 10.50 -0.7
0.9s 25.56nm 5.6mb
LRM 93.31 22 eP 43 15.80 0.6
WDC 94.21 31 ePc 43 20.40 1.4
ORV 95.50 31 eP 43 25.80 0.8
CBM 96.66 352 P 43 30.20 0.1
RSSD 97.19 17 P 43 34.20 1.3
CMB 97.25 31 eP 43 34.50 1.5
RSNY 99.57 356 P 43 44.00 0.7
0.8s 12.02nm 5.5mb
MSU 99.97 25 P 43 47.10 1.5
BAO 145.04 297 ePKP 49 38.10 -0.3
SIV 153.88 315 PKP 49 51.70 -0.1
NNA 155.83 353 ePKP 49 52.50 -2.0
0.9s 10.92nm
ZOBO 157.64 329 PKP 49 58.00 0.6
LPB 157.86 329 PKP 49 54.00 -3.5X
RTLL 169.37 293 iPKPc 50 08.90 1.9
S.D. = 1.1 on 273 of 285 obs.

? MAY 15, 1990 23h 00m 59.02± 1.63s
42.819 N ± 7.8km 13.364 E ±17.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU 0.47 176 P 01 08.60 0.1
eSg 01 15.50
ASS 0.57 296 P 01 10.90 0.2
eSg 01 19.80
MNS 0.67 230 P 01 12.10 -0.2

eSg 01 22.70
ARV 0.75 336 P 01 13.50 -0.1
eSg 01 25.90
S.D. = 0.3 on 4 of 4 obs.

MAY 15, 1990 23h 17m 31.13± 0.23s
42.497 N ± 5.7km 144.254 E ± 3.1km
DEPTH = 70.2km (3 depth phases)
4.8mb (40 obs.)
HOKKAIDO, JAPAN REGION (224)
Felt (III JMA) at Kushiro.

KUSJ 0.69 29 iP+ 17 45.80 -0.3
S 17 56.80
HOOJ 0.72 261 iPd 17 47.60 1.1
S 17 59.90
SAP 2.22 286 eP 18 07.00 0.6
eS 18 33.00
MAT 7.56 220 iPc 19 19.00 -1.9
0.8s 85.82nm 5.5mb
(S) 20 49.00
MDJ 10.85 286 eP 20 07.20 1.4
CN2 13.80 282 eP 20 44.20 -0.5
SNY 15.35 274 Pc 21 04.40 -0.4
BJI 21.21 273 eP 22 13.00 0.3
1.4s 13.00nm 4.1mb
SSE 21.63 246 eP 22 31.20 14.3X
HHC 24.40 277 eP 22 45.30 1.2
BTO 25.59 277 eP 22 55.40 0.1
XAN 28.83 265 P 23 25.00 0.2
LZH 31.70 272 P 23 50.00 -0.2
1.5s 42.00nm 5.0mb
GTA 33.42 280 eP 24 05.00 -0.1
CD2 34.16 264 eP 24 11.10 -0.4
TTA 39.73 38 eP 24 58.30 0.3
SVW 39.89 41 eP 25 00.40 1.1
WMQ 40.59 292 P 25 05.50 0.2
pP 25 22.00 66km
IMA 40.90 33 ePc 25 07.60 0.0
0.5s 23.60nm 5.3mb
KDC 41.70 46 eP 25 13.60 -0.5
PMR 42.99 40 eP 25 24.50 -0.1
0.8s 17.10nm 4.9mb
FBA 43.35 35 eP 25 27.70 0.2
TOA 44.33 39 eP 25 35.70 0.2
CHG 44.89 253 eP 25 42.00 1.5
CHTO 44.89 253 e(P) 25 41.40 1.0
pP 25 58.90 70km
GUN 48.96 272 P 26 12.00 -0.7
0.6s 16.00nm 5.2mb
PKI 49.49 272 P 26 16.70 -0.1
DMN 49.70 273 P 26 17.80 -0.4
MBC 50.67 18 eP 26 25.00 0.3
YKA 58.01 32 eP 27 16.80 -1.6
0.6s 6.90nm 5.0mb
KEV 59.13 339 iP 27 25.00 -1.1
0.5s 14.00nm 5.3mb
DAG 60.52 356 iPd 27 33.70 -1.9
0.9s 32.77nm 5.5mb
SOD 60.80 337 iP 27 36.40 -1.2
BMW 62.35 51 P 27 49.00 0.6
WB5 62.73 190 eP 27 49.90 -1.0
e 28 09.40 75km
PNT 62.79 47 iP 27 51.00 -0.2
WRA 62.80 190 Pc 27 50.50 -0.9
0.7s 2.90nm 4.5mb
LON 63.01 50 P 27 52.30 -0.5
MAIO 63.17 296 eP 28 11.00 17.0X
EDM 63.75 41 eP 27 57.00 -0.5
GBA 63.87 265 Pd 27 57.80 -0.8
SUF 64.10 333 iP 27 58.70 -0.8
0.5s 11.80nm 5.1mb
VGB 64.31 51 P 28 01.50 0.3
DPW 64.39 48 P 28 01.40 -0.3
NEW 64.75 47 P 28 03.50 -0.5
1.0s 16.88nm 4.9mb
FHC 65.11 57 e(P) 28 07.60 1.1
WDC 66.13 56 ePc 28 13.40 0.4
NUR 66.16 332 iP 28 11.40 -1.4
0.5s 11.20nm 5.1mb
MIN 66.85 56 eP 28 13.70 -4.0X
ORV 67.38 57 ePc 28 20.40 -0.5
FFC 67.95 35 iPc 28 23.90 -0.3
0.8s 32.00nm 5.3mb
LRM 68.77 47 eP 28 30.00 0.3
CMB 69.00 57 ePc 28 31.20 0.2
UPP 69.00 334 iP 28 29.50 -1.0

15d 23h

PRS	69.42	59	e(P)	28	33.90	0.3			iSn	33	08.00			N	11s	0.30um			
LLA	69.52	59	eP	28	34.60	0.4	MAL	1.77	351 iPnc	32	48.50	-0.2	SNY	17.63	356	eP	40	27.80	-0.9
KVN	69.78	55	P	28	36.20	0.3			iSg	33	09.00			1.0s	10.00nm				3.9mb
NB2	69.98	338	P	28	35.50	-1.1	PLAT	1.78	310 iP	32	44.00	-4.9X				sP	40	37.80	
	0.9s	11.30nm				4.8mb	EJIF	1.86	323 eP	32	50.00	0.1	CD2	20.03	294	P	40	56.40	-0.3
HFS	70.00	336	eP	28	35.20	-1.5	MOMI	1.90	316 iP	32	45.00	-5.5X	CHG	24.87	263	eP	41	56.00	11.3X
	0.4s	7.90nm				5.0mb	CNIL	2.13	312 iP	32	55.00	1.2	GTA	26.17	311	eP	41	56.00	-0.8
TNP	70.92	56	P	28	43.20	0.3	EPRU	2.20	335 eP	32	55.50	0.6	GUN	35.38	285	P	43	18.70	0.7
	0.8s	11.76nm				4.9mb			eS	33	22.00		PKI	35.74	284	P	43	20.80	-0.8
FRB	70.95	15	eP	28	41.00	-1.4	AFC	2.32	11 eP	32	57.00	0.2	DMN	36.08	284	P	43	24.40	0.6
DUG	72.19	52	P	28	51.20	0.8			eS	33	26.50		WB5	44.73	168	eP	44	35.90	0.4
BW06	72.32	48	P	28	50.70	-0.6	ENIJ	2.50	37 eP	32	57.00	-2.2	WRA	44.79	168	Pc	44	36.50	0.6
	0.6s	2.79nm				4.4mb			eS	33	28.00			0.6s	1.90nm				4.1mb
MSU	73.67	53	P	29	00.10	1.0	EHOR	2.99	342 eP	33	09.00	2.9X	IMA	64.62	27	iPd	47	01.30	1.6
RSON	74.22	34	P	29	00.80	-1.0			eS	33	42.00		SOD	71.18	336	iP	47	39.60	-0.3
	0.9s	32.53nm				5.3mb	TOL	4.90	0 ePn	33	27.00	-6.3X	MBC	72.47	13	eP	47	47.00	-0.9
RSSD	74.34	44	P	29	02.60	-0.3			ePb	33	36.00		SUF	72.76	332	iP	47	49.50	-0.3
KRA	75.77	327	eP	29	10.00	-0.7			eSn	34	25.00			0.6s	4.40nm				4.6mb
KSP	76.58	329	eP	29	15.50	0.3			eSg	34	48.00		NUR	74.19	330	eP	47	58.00	-0.2
GLD	76.78	48	P	29	18.20	1.4	GUD	5.66	359 eP	33	43.60	-0.5	HFS	79.27	332	eP	48	26.20	-0.4
	1.0s	22.50nm				5.1mb	S.D. = 1.4 on 9 of 14 obs.							1.0s	6.20nm				4.5mb
CLL	77.42	331	iPc	29	19.30	-0.5							NB2	79.85	333	P	48	29.80	0.0
	1.1s	10.00nm				4.7mb	% MAY 16, 1990 00h 16m 22.65± 1.00s							0.8s	3.20nm				4.3mb
PRU	77.93	329	eP	29	23.50	0.8	43.054 N ± 9.2km 0.843 W ± 9.0km						YKA	81.56	24	eP	48	38.20	-0.5
KHC	79.00	330	P	29	29.50	0.9	DEPTH = 10.0km (geophysicist)							0.8s	1.10nm				3.9mb
ANMO	79.45	52	P	29	31.40	-0.1	PYRENEES (378)							S.D. = 1.0 on 21 of 24 obs.					
	0.9s	3.68nm				4.3mb	MD 1.0 (STR).												
ALQ	79.45	52	eP	29	32.00	0.5													
	1.0s	4.25nm				4.3mb	ISSF	0.04	127 Pg	16	24.71	-0.2		MAY 16, 1990 02h 31m 50.81± 0.65s					
SCH	79.51	18	eP	29	32.00	0.8			Sg	16	25.69			35.156 N ± 5.0km 23.117 E ± 2.8km					
SKO	81.40	321	eP	29	42.40	1.0	MADF	0.09	11 Pg	16	25.38	0.1		DEPTH = 45.8 ± 5.7 km					
OHR	82.37	321	eP	29	46.50	-0.1			Sg	16	26.96			4.5mb (35 obs.)					
LOR	83.98	334	eP	29	54.30	-0.4	ATE	0.11	73 Pg	16	25.47	0.0		CRETE (370)					
	1.0s	6.00nm				4.6mb			Sg	16	27.33			MD 4.6 (HLW).					
LBF	84.20	334	eP	29	55.50	-0.3	ELYF	0.16	317 Pg	16	26.34	0.0							
	0.6s	2.70nm				4.5mb	ESCF	0.20	83 Pg	16	27.01	0.0	VAM	0.92	74	eP	32	09.60	2.1
SSF	84.28	334	eP	29	55.70	-0.4			Sg	16	30.41		VLI	1.57	355	eP	32	20.20	3.6X
	0.8s	4.05nm				4.5mb	LHE	0.22	131 Pg	16	27.55	0.2	ITM	2.24	335	eP	32	28.20	2.1
SMF	84.54	334	eP	29	57.60	0.1	S.D. = 0.1 on 6 of 6 obs.						APE	2.73	45	iPc	32	33.80	0.5
	0.8s	4.05nm				4.5mb							ATH	2.85	10	eP	32	37.60	2.7
LPL	84.54	332	eP	29	58.20	0.4	* MAY 16, 1990 00h 18m 32.81± 1.96s						AGG	3.91	351	ePn	32	52.50	2.5
	0.8s	4.05nm				4.5mb	5.703 S ±14.3km 131.269 E ±21.9km									eSn	33	18.70	
LPG	84.55	331	eP	29	58.40	0.5	DEPTH = 96.6 ± 18.7 km						SMG	3.94	49	eP	32	50.40	0.1
	0.8s	4.05nm				4.5mb	4.6mb (4 obs.)						NEO	4.14	1	eP	32	54.80	1.6
AVF	84.57	334	eP	29	57.70	0.1	BANDA SEA (280)						YER	4.62	63	iP	33	06.30	6.3X
	0.8s	6.05nm				4.7mb							IZM	4.64	45	eP	33	01.90	1.7
MAF	85.33	334	eP	30	02.10	0.7	AAI	3.66	303 ePc	19	28.50	0.1	LIT	4.96	354	ePnc	33	05.60	0.9
	0.8s	5.35nm				4.7mb	MTN	7.10	181 eP	20	17.00	1.2	KEK	5.26	331	eP	33	08.30	-0.6
SBF	85.72	330	eP	30	03.20	-0.3			eS	21	34.00		EZN	5.31	28	iP	33	09.70	0.0
	0.8s	8.05nm				4.8mb	KNA	10.28	194 iPd	20	58.20	-0.9	KSL	5.35	78	eP	33	09.00	-1.3
FRF	86.27	331	eP	30	05.90	-0.2		0.3s	56.00nm			6.0mb X	THE	5.47	359	ePn	33	11.70	-0.2
	1.0s	8.00nm				4.8mb			eS	22	46.00		SOH	5.66	2	ePn	33	15.10	0.5
CBM	86.44	22	P	30	06.50	-0.4	WB5	14.41	168 eP	21	52.00	-1.5	ELL	5.73	72	eP	33	15.00	-0.8
LRG	86.46	331	eP	30	07.20	0.2			eS	24	26.50		FNA	5.78	347	ePnc	33	16.30	-0.1
	0.8s	8.05nm				4.9mb	WRA	14.47	168 Pc	21	52.80	-1.4	GRG	5.82	355	ePnc	33	16.30	-0.5
RJF	86.48	335	eP	30	07.70	0.6		0.5s	12.70nm			4.4mb	SRS	5.96	3	eP	33	18.70	-0.1
	0.8s	5.35nm				4.7mb	QIS	16.84	152 eP	22	25.90	1.9	KNT	6.00	358	eP	33	19.40	0.1
LMR	86.51	331	eP	30	07.20	-0.1			iS	25	23.60		KHL	6.04	57	iP	33	21.20	1.2
	0.8s	8.05nm				4.9mb	MBL	18.95	215 eP	22	49.00	-0.1	VAY	6.17	356	iPn	33	21.30	-0.4
CAF	86.64	334	eP	30	09.00	1.1			eS	26	03.00		ALN	6.18	21	eP	33	21.90	0.1
	0.8s	8.05nm				4.9mb	WARB	20.84	192 eP	23	12.00	3.3X	OHR	6.22	344	iPn	33	22.10	-0.4
RSNY	86.66	27	P	30	07.50	-0.5		0.3s	5.00nm			4.3mb	RDO	6.28	17	iPd	33	22.80	-0.4
	0.8s	5.34nm				4.7mb	NANU	22.63	221 eP	23	27.80	1.4	EDC	6.40	35	eP	33	25.30	0.4
WNY	87.02	26	P	30	09.80	0.0			eS	27	34.00		MMB	6.44	4	iPc	33	26.00	0.5
LFF	87.05	335	eP	30	10.70	0.8	FORR	25.19	186 eP	23	54.00	3.1X	BCK	6.46	67	iP	33	25.40	-0.4
	1.0s	16.00nm				5.1mb	GUN	55.07	310 P	27	57.50	-0.1	LCI	6.59	323	P	33	25.40	-2.2
WVLY	87.05	30	P	30	09.70	-0.3		0.6s	24.00nm			5.4mb				eSn	34	25.70	
LPO	87.14	335	eP	30	11.20	0.9	PKI	55.27	309 P	27	58.40	-0.6	RZN	6.64	10	iPc	33	29.00	0.5
	0.8s	5.35nm				4.7mb		0.6s	7.00nm			4.9mb	KKB	6.70	360	iP	33	30.00	0.8
BNH	87.66	25	P	30	13.60	0.7	S.D. = 1.4 on 10 of 12 obs.						KDZ	6.73	15	iPd	33	29.00	-0.6
EMM	88.63	22	P	30	18.00	0.6							ALT	6.81	53	eP	33	31.00	0.2
TBR	89.78	28	P	30	23.20	0.2	* MAY 16, 1990 01h 36m 24.87± 1.69s						ATN	6.84	298	P	33	30.10	-1.1
KSR	126.74	267	ePKP	36	30.00	1.6	24.189 N ± 8.8km 125.066 E ±12.0km									eSn	34	34.40	
SIV	145.81	47	PKP	37	04.00	0.5	DEPTH = 46.9 ± 14.3 km						MEU	6.90	289	P	33	30.70	-1.4
S.D. = 0.8 on 99 of 102 obs.							4.2mb (6 obs.)									eSn	34	37.70	
							SOUTHWESTERN RYUKYU ISLANDS (246)						SKO	6.93	350	iPn	33	31.00	-1.4
																i	33	46.00	
* MAY 15, 1990 23h 32m 17.78± 0.97s													TDS	7.02	312	P	33	33.00	-0.6
34.971 N ± 9.1km 4.082 W ±10.0km							TWC	2.96	279 ePc	37	12.10	1.5	DIM	7.14	15	eP	33	36.00	0.8
DEPTH = 10.0km (geophysicist)									eS	37	45.00		ORI	7.21	315	P	33	36.00	-0.3
MOROCCO (395)							TWD	3.17	269 eP	37	13.70	0.2	IZI	7.22	42	eP	33	37.00	0.6
MD 3.8 (RBA).									eS	37	47.50		MNO	7.32	295	P	33	38.00	-0.1
							TWZ	3.30	287 eP	37	18.90	3.6X	BRT	7.38	323	P	33	36.70	-1.9
TAF	1.38	96	iPn	32	45.00	1.9	TWF1	3.55	257 ePc	37	17.80	-1.1				eSn	34	47.30	
			iSn	33	05.00		TWG	3.91	250 iPc	37	22.90	-1.1	VTS	7.43	1	iPd	33	41.00	1.6
			i	33	10.00		XAN	17.17	309 P	40	25.00	2.0	ULC	7.44	337	ePn	33	37.60	-1.9
OJEN	1.64	314	iP	32	49.50	2.7X	TIY	17.27	324 eP	40	20.00	-4.3X				eSn	34	55.00	
IER	1.69	211	iPn	32	46.50	-1.1	Z 14s 0.70um						BAI	7.73	322	P	33	42.00	-1.4

JMB	7.78	19	eP	33	44.00	-0.3	MOX	17.59	335	eP	35	56.00	1.9	MEDITERRANEAN SEA						(400)
MGR	7.79	312	P	33	43.30	-1.1	CLL	17.72	339	iPd	35	56.20	0.6							
			eSn	34	54.70			0.9s		21.00nm			4.3mb	VAM	2.02	31	ePn	42	30.20	1.0
PVY	7.82	343	ePn	33	44.00	-0.9	LOR	18.82	316	eP	36	09.00	-0.2				eSn	42	46.30	
			eSn	35	06.00			1.0s		6.00nm			3.8mb	VLI	3.03	0	ePn	42	41.30	-2.2
GIB	7.84	294	P	33	45.00	-0.2	SSF	18.91	315	eP	36	09.70	-0.6	ITM	3.58	347	Pn	42	52.10	0.8
TTG	7.86	339	ePn	33	44.30	-1.0		0.8s		4.05nm			3.7mb	APE	4.00	32	ePn	42	58.30	1.0
			eSn	35	06.20		LPO	19.28	306	eP	36	15.00	0.5	BCK	7.30	57	ePn	43	42.90	-1.0
BDV	7.87	336	ePn	33	42.50	-2.9X		0.6s		7.20nm			4.1mb	OHR	7.60	348	ePn	43	43.20	-4.9X
			eSn	35	06.00		LFF	19.67	307	eP	36	19.00	0.3	KHC	16.92	339	eP	45	56.00	3.4X
FAI	7.92	288	P	33	46.00	-0.1		0.8s		9.40nm			4.1mb	HFS	27.14	350	eP	47	39.00	0.4
HCY	8.12	335	ePn	33	46.00	-2.9X	MEM	19.82	326	Pc	36	21.10	0.9		0.8s		4.60nm			4.2mb
			eSn	35	10.50		ENN	19.97	327	eP	36	23.00	1.2		S.D. = 1.7		on	6	of	8 obs.
SGO	8.20	313	P	33	46.70	-3.2X		0.7s		16.00nm			4.5mb	---						
PVL	8.23	11	iPc	33	49.00	-1.4	DOU	20.13	324	P	36	24.30	0.8	MAY 16, 1990 03h 04m 15.20± 0.72s						
NKY	8.29	338	ePn	33	49.50	-1.8		0.7s		46.70nm			4.9mb	31.787 S ± 9.6km 69.692 W ±10.3km						
			eSn	35	18.20		WTS	20.48	330	eP	36	28.00	0.9	DEPTH = 114.7 ± 13.0 km						
CSS	8.38	88	eP	33	48.00	-4.5X		0.7s		19.00nm			4.5mb	SAN JUAN PROVINCE, ARGENTINA						(137)
LFK	8.53	86	iPn	33	50.90	-3.7X	MFF	20.90	310	eP	36	31.60	0.2							
BSS	8.64	313	P	33	54.00	-2.1		0.8s		10.75nm			4.2mb	RTBS	0.24	58	iPd	04	31.90	0.2
PLE	8.66	342	ePn	33	54.50	-1.9	WIT	21.16	332	eP	36	36.50	2.5	ZON	0.90	75	iPd	04	36.50	0.4
			eSn	35	26.50		APHE	21.72	283	eP	36	40.50	0.5				eS	04	50.00	
HLW	8.72	125	eP	33	54.80	-2.4X	LDF	21.79	315	eP	36	41.00	0.6	RTCV	0.99	95	iPd	04	37.20	0.2
			eS	35	22.80			0.8s		16.00nm			4.5mb	RTLL	1.14	67	iPd	04	38.20	-0.4
BBTK	8.98	56	iPd	34	01.00	0.1	ATEJ	21.99	283	iPc	36	44.00	1.3	JACH	1.17	220	iPd	04	39.40	0.4
DUI	9.40	316	P	34	06.00	-0.6	ALOJ	22.05	283	iPc	36	44.50	1.2				iS	04	58.50	
HVAR	9.54	329	iPnd	34	04.70	-3.7X	LPF	22.07	313	eP	36	43.60	0.4	CFA	1.25	82	iPc	04	38.80	-1.0
			iSn	35	44.90			0.8s		18.80nm			4.6mb	PEL	1.59	212	iPd	04	44.00	0.2
SDI	9.79	315	P	34	11.10	-0.9	FLN	22.08	315	eP	36	43.60	0.3				iS	05	05.50	
			eSn	35	40.00			0.8s		18.80nm			4.6mb	FCH	1.62	198	iPc	04	45.70	1.3
MLR	10.55	11	eP	34	20.00	-2.4X	GRR	22.13	314	eP	36	44.00	0.3				iS	05	08.20	
HRI	10.62	97	eP	34	19.00	-4.4X		0.8s		80.50nm			5.2mb	ROCH	1.62	223	iPd	04	44.20	-0.2
SHMJ	10.78	99	Pc	34	20.60	-4.9X	NKM	23.25	279	eP	36	57.00	2.1				iS	05	06.50	
DSI	10.86	106	eP	34	21.00	-5.5X	UPP	24.98	353	iP	37	11.30	0.0	SAN	1.85	206	ePc	04	47.50	0.5
			eS	36	13.00		NUR	25.39	2	iP	37	14.00	-1.1				iS	05	11.50	
SALJ	10.94	103	Pc	34	22.00	-5.7X		0.7s		12.00nm			4.6mb	PCH	1.96	201	eP	04	48.70	0.3
BURJ	10.96	102	P	34	21.20	-6.8X	HFS	25.73	349	eP	37	17.40	-1.0				iS	05	15.50	
KFNJ	10.99	104	Pd	34	22.60	-5.6X		0.4s		16.80nm			4.9mb	IHA	2.06	233	eP	04	49.00	-0.6
VRI	11.05	13	eP	34	27.00	-2.0	Z	22s		0.12um			3.4Msz				e(S)	05	11.50	
MKRJ	11.07	105	Pc	34	22.80	-6.7X				LR	47	41.00		TACH	2.14	209	iPd	04	50.50	-0.2
MBH	11.29	115	eP	34	27.00	-5.3X	NB2	27.00	347	P	37	29.70	-0.4				iS	05	17.50	
			e(S)	36	25.00			0.4s		2.50nm			4.2mb	CHCH	2.29	200	ePd	04	53.00	0.4
ASS	11.33	317	P	34	30.00	-2.9X	EKA	27.10	326	P	37	32.00	1.1				iS	05	21.60	
ARV	11.46	320	P	34	33.40	-1.2		0.7s		8.20nm			4.5mb	LCCH	2.31	223	eP	04	52.60	-0.3
HOL	11.68	117	eP	34	32.30	-5.3X	SUF	27.65	3	eP	37	34.00	-1.9	LNV	2.60	213	eP	04	55.20	-1.5
VBY	11.94	332	e(P)	34	47.70	6.6X	BCAO	30.86	189	iPc	38	05.10	0.1				iS	05	25.00	
PTJ	12.03	335	eP	34	39.10	-3.2X		0.7s		18.00nm			4.9mb	ZOBO	15.51	6	eP	07	50.00	0.5
BADA	12.07	120	eP	34	36.50	-6.3X				i	38	20.90		Z	24s		0.05um			
CEY	12.46	331	eP	34	46.90	-1.1				i	40	03.80					e	08	23.00	
			e(S)	37	01.90		SOD	32.32	3	iP	38	16.30	-1.0				LR	23	40.00	
AYN	12.60	116	eP	34	44.70	-5.1X	KEV	34.72	2	eP	38	37.00	-1.0		S.D. = 0.7		on	17	of	17 obs.
LJU	12.67	332	eP	34	48.00	-2.8X	LKO	36.55	233	Pc	38	54.44	0.3	---						
			e(S)	37	02.00			0.6s		19.50nm			5.2mb	? MAY 16, 1990 03h 47m 37.97± 7.11s						
VOY	12.92	330	eP	34	51.50	-2.6X	TIC	38.40	229	Pc	39	09.96	0.3	51.405 N ±50.3km 20.115 E ±42.3km						
			eS	37	07.50			0.7s		11.50nm			4.9mb	DEPTH = 10.0km (geophysicist)						
ZST	13.78	343	eP	35	16.60	11.3X	KIC	38.45	228	Pc	39	10.54	0.5	POLAND						(548)
FVI	13.83	329	P	35	06.10	0.1		0.6s		17.00nm			5.1mb	ML 3.1 (KRA).						
CTI	13.92	325	P	35	05.00	-2.3X	LIC	38.73	229	Pc	39	12.96	0.5							
			eSn	37	27.00			0.6s		21.00nm			5.1mb	KRA	1.36	185	ePg	48	03.30	0.4
SPC	14.18	352	eP	35	08.50	-2.3X	WMQ	49.45	59	P	40	37.50	-0.8				iSg	48	13.50	
			e	35	17.70		DMN	52.72	80	Pd	41	02.60	-0.9	SPC	2.22	178	iPn	48	15.10	-0.5
OGA	14.82	326	iPd	35	27.00	7.9X		0.6s		33.00nm			5.5mb				i(Sg)	48	36.10	
	1.0s		12.00nm			4.2mb	PKI	52.98	80	Pd	41	04.20	-1.3	KSP	2.47	258	ePn	48	19.00	0.1
SBF	14.89	310	eP	35	21.30	1.4	GUN	53.22	79	Pd	41	06.00	-1.3				iPg	48	20.70	
	0.7s		6.60nm			4.0mb		0.6s		25.00nm			5.4mb				iS	48	43.00	
SOTA	15.00	327	e(P)	35	22.50	1.1	GBA	53.23	100	Pd	41	06.10	-0.9	ZST	3.76	212	eP	48	36.70	-0.5
	1.0s		31.30nm			4.5mb		0.9s		8.60nm			4.8mb				e	49	06.70	
			i	35	28.80		FRB	59.81	329	eP	41	54.00	0.6	SRO	3.78	199	eP	48	38.00	0.5
			i	35	34.10		SCH	62.08	319	eP	42	09.00	0.1				e	49	16.70	
			i	35	47.30		CD2	65.95	68	P	42	33.40	-1.1	PRU	3.82	250	Pg	48	41.20	3.2X
			i	38	03.00		MBC	66.36	351	eP	42	36.50	0.1				Sg	49	15.70	
KRA	15.07	352	eP	35	27.50	5.3X	HHC	67.03	55	eP	42	40.80	-0.6	BRG	3.92	265	e(Pg)	48	50.00	10.5X
KHC	15.63	336	eP	35	30.70	1.2	XAN	68.34	63	P	42	50.00	0.4				iSg	49	31.00	
			i	35	34.80		GYA	70.33	71	P	43	01.40	-0.6		S.D. = 0.7		on	5	of	7 obs.
FUR	15.70	329	iPc	35	35.30	5.0X	TIA	73.09	57	eP	43	17.50	-0.7	---						
	0.8s		50.00nm			4.7mb	CN2	74.42	47	eP	43	25.00	-0.7	? MAY 16, 1990 04h 11m 46.96± 5.02s						
WET	15.88	335	iPc	35	37.20	4.5X	INK	75.38	351	eP	43	31.00	0.2	33.490 S ±15.6km 71.865 W ±44.3km						
	1.0s		52.00nm			4.6mb	YKA	76.93	341	eP	43	39.80	0.2	DEPTH = 33.0km (normol)						
PRU	16.10	340	eP	35	37.30	2.0		0.5s		2.40nm			4.5mb	NEAR COAST OF CENTRAL CHILE						(135)
			i	35	39.10		FFC	78.84	331	iPc	43	51.60	1.4							
KSP	16.44	345	eP	35	41.00	1.3		0.7s		8.00nm			4.8mb	LCCH	0.25	87	iPd	11	52.10	-2.0
	0.9s		22.00nm			4.3mb		S.D. = 1.1		on 117 of 151 obs.							iS	11	59.00	
			id	35	43.30		---							LNV	0.60	141	iPc	11	59.50	0.5
BRG	17.06	340	eP	35	50.30	2.9X	? MAY 16, 1990 02h 41m 56.79± 5.47s										iS	12	12.50	
	1.3s		20.00nm			4.1mb	33.685 N ±48.3km 22.913 E ±21.1km							TACH	0.79	102	iPd	12	01.00	-0.7
BSF	17.56	321	eP	35	53.70	-0.1	DEPTH = 33.0km (normol)										iS	12	14.50	
	0.8s		5.35nm			3.7mb	4.2mb (1 obs.)							ROCH	0.88	54	eP	12	04.50	1.3

16d 04h

			iS	12 20.50		
SAN	1.01	88	eP	12 04.50	-0.3	
			iS	12 20.50		
CHCH	1.10	114	iPc	12 07.00	0.8	
			iS	12 25.00		
PCH	1.14	97	iPd	12 07.00	0.3	
			iS	12 24.00		

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

&, MAY 16, 1990 04h 28m 03.30s
36.648 N 121.310 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.0 (BRK).

SAO	0.16	317	iPc	28 06.40	-0.3	
LLA	0.30	96	iPc	28 09.20	-0.1	
PRS	0.32	189	iPd	28 09.70	-0.1	
GCC	0.67	305	ePc	28 15.80	-0.9	
ARN	0.72	346	iPc	28 17.50	-0.2	
PRI	0.73	134	iPd	28 17.10	-0.7	
			iS	28 30.40		
MHC	0.74	339	ePd	28 17.70	-0.4	
			eS	28 29.10		
PHAM	1.10	137	eP	28 23.60	-0.7	
FRI	1.33	75	ePc	28 26.50	-1.7	
			iS	28 44.00		
BKS	1.43	329	ePd	28 30.50	0.7	
CMB	1.57	28	iPc	28 30.70	-1.1	
			iS	28 49.50		
BCH	1.77	145	eP	28 32.50	-2.2	
KVN	3.49	46	eP	29 01.50	2.0	

13 obs. associated

MAY 16, 1990 04h 43m 13.99± 1.16s
54.216 N ± 7.4km 163.674 W ± 5.8km
DEPTH = 74.2 ± 9.7 km
4.6mb (19 obs.)
UNIMAK ISLAND REGION (10)

SDN	2.16	57	iPd	43 48.30	-0.1	
KDC	7.20	56	eP	44 57.60	-1.0	
SVW	8.14	29	eP	45 11.90	0.2	
ADK	8.18	259	iPd	45 11.00	-1.1	
TTA	9.60	21	iPd	45 33.60	1.9	
TOA	12.12	42	iPc	46 03.20	-2.3	
IMA	12.86	19	eP	46 15.70	0.5	
FBA	13.35	30	eP	46 22.00	0.6	
DWY	15.76	42	P	46 56.50	4.0X	
INK	19.92	33	eP	47 43.00	1.2	
YKA	26.43	52	eP	48 45.20	0.2	
	0.6s		2.50nm		3.9mb	
MBC	27.57	21	eP	48 56.00	0.7	
EDM	29.29	71	ePc	49 11.50	0.5	
NEW	29.31	82	eP	49 11.00	-0.2	
WDC	30.53	99	ePc	49 22.90	0.9	
MIN	31.22	99	ePc	49 28.70	0.4	
SES	31.79	75	eP	49 33.00	0.0	
ORV	31.80	100	e(P)	49 32.80	-0.4	
CMB	33.47	101	eP	49 48.50	0.7	
	1.3s		15.06nm		4.7mb	
KVN	34.11	97	ePc	49 54.00	0.5	
FRI	34.58	102	eP	49 57.90	0.7	
TNP	35.27	98	eP	50 04.30	0.9	
	1.0s		35.83nm		5.3mb	
ISA	36.22	102	eP	50 12.00	0.7	
CLC	36.61	101	eP	50 16.00	1.4	
DAU	37.24	90	eP	50 20.70	0.6	
SBB	37.28	103	eP	50 21.00	0.8	
GSC	37.43	101	eP	50 23.00	1.5	
PAS	37.48	104	eP	50 22.00	0.3	
MWC	37.49	103	eP	50 24.00	1.9	
MSU	37.93	93	eP	50 27.00	1.2	
RVR	38.04	103	eP	50 26.00	-0.5	
PEC	38.24	103	eP	50 28.50	0.3	
PLM	38.80	103	eP	50 34.00	0.9	
RSSD	39.17	80	eP	50 36.00	-0.1	
BAR	39.40	104	eP	50 39.00	1.1	
GLA	40.19	101	eP	50 45.00	0.6	
RSON	41.10	65	eP	50 51.30	-0.3	
GOL	41.15	86	eP	50 53.00	0.5	
MAT	43.15	270	eP	51 08.00	-0.5	
	0.9s		15.13nm		4.8mb	
ANMO	43.72	92	eP	51 14.00	0.6	
ALQ	43.72	92	eP	51 13.00	-0.4	
	1.2s		7.03nm		4.4mb	
FRB	45.45	38	eP	51 26.00	-0.6	
TUL	49.30	83	eP	51 55.80	-1.2	
	0.7s		15.50nm		5.1mb	
FVM	50.97	77	eP	52 08.00	-1.7	
UYO	51.30	83	iPd	52 11.00	-1.3	
SCH	51.74	47	eP	52 16.00	0.6	
PWLA	54.43	78	eP	52 33.80	-1.7	
WVLY	54.44	65	eP	52 34.30	-1.3	
RSCP	55.41	76	eP	52 40.40	-2.3	
	0.9s		38.34nm		5.4mb	
WNY	55.56	60	eP	52 42.00	-1.6	
HBVT	55.98	60	eP	52 44.80	-1.8	
GBTN	56.13	75	eP	52 45.90	-1.9	
CBM	56.60	55	eP	52 49.50	-1.5	
BNH	56.73	59	eP	52 50.50	-1.5	
NAV	56.87	71	eP	52 51.90	-1.2	
BLA	57.15	71	eP	52 53.20	-1.9	
	0.8s		11.74nm		5.1mb	
CVL	57.67	69	eP	52 58.00	-0.7	
SUF	63.15	355	eP	53 35.20	-0.3	
NB2	65.02	3	P	53 47.40	-0.4	
	0.9s		3.70nm		4.3mb	
HFS	65.98	1	eP	53 52.80	-1.1	
	0.5s		3.90nm		4.6mb	
KHC	77.00	2	eP	55 14.50	14.7X	
LOR	78.34	9	eP	55 08.80	1.6	
	0.8s		4.05nm		4.4mb	
SSF	78.51	9	eP	55 09.30	1.2	
	0.6s		1.80nm		4.2mb	
LBF	78.63	9	eP	55 09.60	0.8	
	0.8s		3.35nm		4.3mb	
GUN	78.74	302	P	55 10.80	0.7	
	0.8s		28.00nm		5.2mb	
AVF	78.77	9	eP	55 10.60	1.1	
	0.8s		2.70nm		4.2mb	
SMF	78.96	9	eP	55 11.50	1.0	
	0.8s		5.35nm		4.5mb	
TCF	79.16	10	eP	55 13.20	1.5	
	0.6s		1.80nm		4.2mb	
PKI	79.25	302	P	55 11.90	-1.0	
DMN	79.37	303	P	55 14.20	0.8	
	0.7s		19.00nm		5.1mb	
PGF	83.41	5	eP	55 36.30	2.2	
	0.8s		5.35nm		4.6mb	
SPA	144.03	180	iPKPd	02 38.80	-2.3	
	0.9s		24.55nm			
BUL	144.71	340	iPKPd	02 34.20	-9.5X	
	1.0s		20.00nm			
SLR	150.20	338	iPKPd	02 45.50	-6.8X	
	0.5s		24.65nm			
			i	02 58.20		
KSR	150.61	340	ePKP	02 33.50	-19.5X	
BFS	151.64	340	ePKP	02 48.50	-5.9X	

S.D. = 1.2 on 70 of 76 obs.

MAY 16, 1990 05h 24m 19.17± 0.22s
5.648 S ± 3.3km 150.233 E ± 5.3km
DEPTH = 80.9km (16 depth phases)
5.6mb (34 obs.)
NEW BRITAIN REGION (192)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 05:24:22.5 0.6
Lat 5.52S 0.08 Lon 150.90E 0.08
Dep 77.0 FIX Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr=-0.27 0.16 Mtt= 0.68 0.21
Mff=-0.40 0.24 Mrt=-2.50 0.11
Mrf=-1.92 0.12 Mtf= 0.53 0.22
Principal Axes:

T	Val= 3.47	Plg=40	Azm=148
N	-0.51	7	52
P	-2.96	49	314

Best Double Couple:Mo=3.2*10**17
NP1:Strike=288 Dip= 9 Slip= -33
NP2: 51 85 -97

RAB	2.41	53	iPc	24 59.50	2.2	
LAT	3.37	253	eP	25 14.50	4.0X	
PMG	4.83	219	iPc	25 33.00	2.1	
			eS	26 26.00		
MNDI	6.56	265	eP	26 02.00	6.8X	
HNR	10.34	112	eP	26 47.00	0.3	
CTA	14.87	195	iPc+	27 47.80	1.4	
	1.6s	1583.33nm		6.0mb		
			i	27 52.00		
			i	28 09.00		
			i	28 18.70		
			i	28 22.00		
			iS	30 34.00		
			i	30 44.00		
			eScP	32 14.00		
QIS	18.06	214	iPc	28 26.90	0.6	
	0.9s	158.00nm			5.2mb	
			e	28 53.10		
			i	29 10.30		
			eS	32 01.70		
GUA	19.78	345	eP	28 47.60	2.0	
	0.9s	860.50nm			6.1mb	
GUMO	19.84	344	eP	28 47.90	1.7	
	1.4s	984.62nm			5.9mb	
			eS	32 29.00		
PJG	19.84	344	eP	28 48.00	1.8	
MTN	20.15	248	eP	28 48.00	-1.5	
			e	32 29.00		
			e	36 28.00		
RMO	20.77	184	iPc	28 56.00	0.2	
	1.1s	512.00nm			5.8mb	
			e	29 13.00	80km	
WB5	20.93	226	iPd	28 57.10	-0.3	
			iS	32 44.70		
			iScP	36 29.70		
WRA	20.99	226	Pd	28 57.80	-0.2	
	1.2s	247.40nm			5.4mb	
PVC	21.37	126	iPc	29 02.50	0.7	
QLP	21.59	195	iPc	29 04.80	0.8	
			e	29 20.00	67kmX	
BRS	21.76	174	iPd	29 05.90	0.2	
			i	29 22.50	75km	
			e	30 03.50		
			iS	33 05.00		
AAI	22.05	274	eP	29 07.00	-1.6	
DZM	22.64	138	iPc	29 14.20	-0.2	
KNA	23.33	243	iPd	29 21.40	0.3	
	0.6s	208.00nm			5.7mb	
COO	24.85	177	iPc	29 36.30	0.7	
CMS	26.03	189	eP	29 46.00	-0.6	
			e	30 05.00	84km	
BWA	28.68	183	eP	30 09.70	-0.9	
			i	30 27.90	78km	
CAN	29.55	182	eP	30 18.20	-0.2	
			e	30 36.00	76km	
WARB	30.41	225	iPc	30 26.40	0.3	
	0.4s	18.00nm			5.2mb	
ADE	31.06	199	iPc	30 31.30	-0.4	
	1.0s	78.00nm			5.4mb	
TOO	32.07	187	iPd	30 41.00	0.5	
			e	30 59.00	76km	
BFD	32.16	192	iPc	30 40.80	-0.4	
FORR	32.57	217	eP	30 44.00	-0.9	
	0.3s	13.00nm			5.2mb	
MBL	33.25	239	iPd	30 50.20	-0.7	
	0.6s	162.00nm			6.1mb	
MEKA	36.72	232	iPd	31 20.00	-0.4	
	0.3s	12.00nm			5.3mb	
COOL	37.10	224	iPd	31 23.10	-0.4	
	0.3s	11.00nm			5.3mb	
NANU	37.48	240	iPd	31 26.70	-0.1	
	0.3s	53.00nm			5.9mb	
KLB	39.87	226	eP	31 45.70	-1.0	
	0.5s	52.00nm			5.7mb	
MRWA	39.94	230	eP	31 46.80	-0.5	
BAL	40.11	228	iPc	31 48.20	-0.4	
HBZ	40.81	145	P	31 55.00	0.8	
MUN	41.19	226	iPc	31 57.30	-0.2	
	0.8s	110.00nm			5.7mb	
RKG	41.79	223	iPc	32 05.20	2.8	
MSZ	41.84	161	P	32 04.10	1.5	
WKYJ	42.00	342	P	32 05.30	1.2	
TKSJ	42.29	340	P	32 07.20	0.8	
IIDJ	42.52	345	P	32 08.20	-0.1	
KAKJ	42.69	348	P	32 10.10	0.5	
CHJJ	42.80	347	P	32 10.50	0.0	
TSRJ	43.10	343	P	32 13.70	0.7	
QZH	43.27	316	Pd	32 15.50	1.0	
	1.0s	200.00nm			5.9mb	
Z	35s	1.80um			4.7MszX	
			eS	38 38.00		
			sS	39 12.00		
MAT	43.45	346	iPd	32 15.20	-0.7	
			eS	38 36.00		
SHNJ	43.50	337	eP	32 16.60	0.4	
YONJ	43.58	340	P	32 18.00	1.1	

MTMJ 43.59 345 P 32 17.70 0.6
NIIJ 43.94 347 P 32 19.70 0.0
HKC 44.91 309 iP 32 30.20 2.4
SSE 45.88 325 P 32 35.50 0.2
1.4s 140.00nm 5.7mb
Z 20s 1.10um 4.8Msz
E 16s 0.50um
pP 32 56.00 85km
sP 33 09.00
S 39 08.00
sS 39 51.00
GZH 45.98 310 iPc 32 38.60 2.4
OIZ 46.73 303 eP 32 39.00 -3.2X
NJ2 47.94 323 Pc 32 52.00 0.5
3.5s 700.00nm 6.0mb X
Z 20s 0.50um 4.5Msz
S 39 44.00
sS 40 23.00
MRRJ 48.57 351 eP 32 56.90 0.8
WHN 49.74 319 iPc 33 07.50 2.1
1.0s 100.00nm 5.8mb
Z 20s 0.60um 4.6Msz
E 16s 0.70um
pP 33 28.00 83km
eS 40 05.00
sS 40 44.00
ASAJ 50.01 353 eP 33 06.80 -0.4
DL2 51.64 332 iPc 33 20.00 0.3
1.4s 300.00nm 6.1mb
Z 32s 0.70um 4.5MszX
pP 33 43.00 94kmX
S 40 36.00
TIA 51.93 326 Pd 33 21.10 -0.8
GYA 52.91 309 P 33 30.60 1.1
LOE 53.09 297 eP 33 29.00 -1.9
SNY 53.14 335 iPd 33 31.00 0.2
5.0s 900.00nm 6.1mb X
Z 40s 1.90um 4.8MszX
N 40s 2.10um
sP 34 04.00
PP 35 37.00
S 40 54.00
sS 41 31.50
MDJ 53.37 342 Pd 33 32.50 0.1
1.4s 240.00nm 6.0mb
pP 33 54.30 88km
CN2 54.07 338 Pd 33 37.40 -0.2
5.0s 600.00nm 5.9mb X
Z 26s 1.20um 4.8MszX
pP 34 04.00 111kmX
eS 41 04.00
BJI 55.23 328 eP 33 46.00 -0.1
4.0s 400.00nm 5.8mb X
Z 24s 0.64um 4.6MszX
N 12s 0.32um
epP 34 07.00 84km
esP 34 16.00
eS 41 20.00
esS 42 00.00
KMI 55.37 306 Pc 33 49.50 1.8
1.5s 80.00nm 5.5mb
Z 32s 1.60um 4.9MszX
pP 34 10.50 84km
eS 41 26.00
XAN 55.51 318 P 33 47.00 -1.3
1.1s 70.00nm 5.6mb
S 41 26.00
TIY 55.66 324 Pd 33 49.00 -0.4
1.2s 100.00nm 5.7mb
Z 35s 1.80um 4.9MszX
N 12s 0.40um
pP 34 07.50 72km
sP 34 22.00
S 41 30.00
sS 42 04.50
CHG 56.07 297 eP 33 52.80 0.3
CD2 57.38 312 P 34 01.60 -0.1
0.6s 100.00nm 6.1mb
Z 32s 1.10um 4.8MszX
pP 34 25.40 96kmX
sP 34 33.50
eS 41 53.00
HHC 58.28 326 Pd 34 07.50 -0.4
BTO 58.98 325 P 34 12.50 -0.3
pP 34 36.00 94kmX
LZH 60.09 317 iPc 34 21.50 1.0
5.0s 390.00nm 5.8mb X

Z 40s 1.80um 4.9MszX
pP 34 43.00 85km
eS 42 20.00
DRV 61.33 185 eP 34 28.80 0.6
GTA 64.57 319 P 34 50.60 0.3
0.8s 20.00nm 5.1mb
LSA 66.63 306 eP 35 03.00 -1.1
GUN 70.39 302 P 35 25.50 -1.7
0.5s 23.00nm 5.3mb
PKI 70.68 302 P 35 27.90 -1.1
0.4s 4.00nm 4.7mb
DMN 70.95 302 P 35 29.40 -1.2
0.5s 14.00nm 5.1mb
WMQ 74.65 318 P 35 51.50 -0.2
pP 36 14.50 88km
PP 38 40.00
S 45 18.00
GBA 74.73 286 Pc 35 50.20 -2.3
0.9s 5.40nm 4.5mb X
NDI 77.95 301 eP 36 09.50 -0.9
SVW 78.60 24 iPc 36 13.10 -0.3
TTA 79.50 22 iPc 36 17.40 -0.9
PMS 81.17 25 ePd 36 25.10 -2.0
PMR 81.52 25 ePd 36 26.60 -2.2
0.6s 5.50nm 4.6mb
IMA 82.11 20 ePd 36 30.60 -1.4
0.9s 8.30nm 4.6mb
TOA 83.00 25 ePd 36 35.60 -1.0
FBA 83.62 22 iPd 36 36.60 -3.0X
MAW 83.81 203 iPc 36 41.10 0.6
SPA 84.39 180 iPc 36 45.20 1.5
0.7s 62.11nm 5.7mb
i 37 05.50 74km
INK 90.16 21 eP 37 09.00 -2.3
pP 37 32.00 84km
FRI 93.40 53 eP 37 26.20 -0.6
PNT 94.34 41 eP 37 30.00 -0.9
MBC 95.54 14 eP 37 35.00 -1.0
0.9s 2.00nm 4.6mb
YKA 97.36 28 eP 37 42.20 -2.1
0.8s 2.30nm 4.8mb
HFS 116.50 337 ePKP 42 53.80 -1.2
1.1s 8.90nm
KSR 116.77 237 ePKP 42 54.70 -2.1
0.9s 7.69nm
NB2 116.81 339 PKP 42 55.00 -0.6
0.7s 1.10nm
BUL 117.18 244 iPKPd 42 49.10 -8.6X
0.9s 10.50nm
i 43 48.50
TUH 119.63 227 iPKPc 43 01.00 -0.8
0.4s 28.81nm
SKO 122.01 317 ePKP 43 24.50 18.4X
KHC 123.31 327 PKP 43 10.40 2.0
e 43 36.60
BCAO 131.88 271 iPKPc 43 24.30 -1.6
0.4s 4.00nm
id 46 42.00
LPB 136.15 121 PKP 43 31.00 -3.4X
IFR 144.04 324 iPKP 43 42.00 -5.8X
TIO 147.15 323 iPKP 43 53.50 0.5
i 44 14.90
KUK 150.76 273 ePKP 43 55.00 -3.9X
BAO 152.20 140 ePKP 44 02.10 1.0
KIC 155.10 273 PKP 44 13.40 8.5X
TIC 155.38 274 PKP 44 15.00 9.7X
LIC 155.39 273 PKP 44 14.80 9.5X
S.D. = 1.2 on 103 of 115 obs.

MAY 16, 1990 05h 36m 06.37± 0.59s
9.885 N ±11.6km 57.559 E ± 6.2km
DEPTH = 10.0km (geophysicist)
4.9mb (14 obs.)
CARLSBERG RIDGE (421)

KMSA 16.35 311 eP 40 00.70 3.0
RYD 18.06 326 eP 40 16.50 -2.7
MJMA 19.69 325 eP 40 38.00 -0.9
AFIF 19.69 318 eP 40 37.70 -1.3
GBA 19.81 77 Pc 40 40.20 0.1
0.7s 4.20nm 3.9mb X
OASM 20.89 322 eP 40 51.10 -0.3
HYB 21.72 68 eP 41 00.30 0.4
1.0s 35.00nm 4.7mb
QUE 22.02 22 eP 41 03.90 0.9
NAI 23.45 243 eP 41 19.00 1.8
BHD 26.25 334 ePKPd 41 50.00 6.5X

NDI 26.27 42 eP 41 45.50 1.8
MAIO 26.35 4 iPc 41 46.00 1.4
0.8s 16.47nm 4.8mb
eS 46 20.00
SLY 27.85 339 ePKPd 41 54.00 -4.1X
MBH 28.99 316 e(P) 42 11.00 2.6
PRNI 29.27 317 eP 42 18.00 7.0X
DMN 31.36 52 P 42 31.00 1.1
PKI 31.58 52 P 42 32.40 0.5
1.0s 24.00nm 5.1mb
GUN 32.11 52 P 42 37.40 0.8
1.2s 92.00nm 5.6mb
CHG 40.98 73 eP 43 52.50 1.1
WMQ 42.73 32 eP 44 05.50 0.0
sP 44 12.50
MLR 44.65 328 eP 44 23.00 1.9
KMI 45.44 64 eP 44 28.50 0.7
GYA 49.17 64 P 44 56.00 -0.9
VBY 50.67 322 e(P) 45 08.30 0.3
LJU 51.38 323 e(P) 45 13.00 -0.4
VOY 51.76 322 e(P) 45 16.20 -0.2
XAN 52.70 55 P 45 24.50 0.9
TIY 56.39 51 eP 45 50.00 -0.5
HHC 56.60 47 eP 45 56.00 4.0X
CDF 56.86 322 eP 45 52.50 -1.2
1.0s 12.00nm 4.9mb
LBF 58.34 320 eP 46 12.80 8.7X
1.0s 12.00nm 4.9mb
LOR 58.52 320 eP 46 13.80 8.5X
1.0s 16.00nm 5.1mb
SSF 58.67 320 eP 46 14.80 8.5X
1.0s 14.00nm 5.0mb
TIA 59.74 54 eP 46 12.20 -1.7
BJI 59.79 49 eP 46 13.50 -0.6
1.0s 12.00nm 5.0mb
HFS 59.79 336 eP 46 13.10 -0.7
1.1s 9.60nm 4.8mb
LDF 61.49 320 eP 46 24.20 -1.5
0.8s 10.75nm 5.1mb
KIC 61.70 272 P 46 28.00 0.3
TIC 61.94 272 P 46 29.60 0.3
TOL 62.00 310 eP 46 29.00 -0.3
LIC 62.01 272 P 46 30.10 0.4
SNY 65.63 49 eP 46 49.80 -3.1X
CN2 67.28 47 eP 47 02.00 -1.5
MDJ 70.34 46 eP 47 22.30 -0.1
pP 47 27.50 17kmX
DAG 77.31 347 iPc 48 00.00 -2.3
1.1s 17.72nm 5.1mb
WRA 81.13 112 Pd 48 23.00 -1.0
0.8s 2.70nm 4.3mb
WB5 81.14 112 eP 48 23.20 -0.9
MBC 94.01 359 eP 49 26.00 0.6
0.8s 3.00nm 4.7mb
BW06 126.29 348 PKP 55 09.80 -1.8
S.D. = 1.3 on 41 of 49 obs.

• MAY 16, 1990 06h 07m 41.83± 0.67s
5.603 S ± 9.6km 152.344 E ± 9.5km
DEPTH = 178.2 ± 7.8 km
4.3mb (3 obs.)
NEW BRITAIN REGION (192)

RAB 1.41 353 eP 08 13.00 -0.1
iS 08 53.00
PMG 6.38 233 eP 09 15.00 0.3
HNR 8.44 117 eP 09 42.00 0.1
WB5 22.52 229 eP 12 27.20 -0.2
WRA 22.58 229 Pc 12 27.50 -0.4
0.7s 7.10nm 4.3mb
CHTO 57.93 296 eP 17 21.00 3.1X
GUN 72.15 302 P 18 49.30 -0.3
PKI 72.45 301 P 18 51.20 -0.1
DMN 72.72 301 P 18 53.10 0.3
0.5s 10.00nm 4.8mb
GBA 76.74 285 Pd 19 16.00 0.5
0.7s 2.30nm 4.0mb
S.D. = 0.4 on 9 of 10 obs.

% MAY 16, 1990 06h 27m 35.66± 1.57s
40.459 N ± 8.7km 23.097 E ±11.1km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 1.7 (THE).

THE 0.20 330 iPgd 27 39.50 -0.3
eSg 27 42.50

16d 06h

SOH	0.41	28	ePg	27 44.20	0.3
LIT	0.59	233	ePg	27 47.30	-0.1
KNT	0.72	348	ePg	27 49.50	-0.5
GRG	0.73	313	ePg	27 50.80	0.6
			eSg	28 02.80	

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

---

* MAY 16, 1990 07h 27m 59.28± 2.06s
24.462 N ± 8.8km 122.573 E ±21.0km
DEPTH = 55.6 ± 22.3 km
3.7mb (2 obs.)
TAIWAN REGION (243)

TWC	0.68	283	iPd	28 13.50	0.4
			eS	28 23.10	
TWD	0.97	247	iPd	28 15.80	-1.1
TWZ	1.10	305	eP	28 19.70	1.0
			eS	28 34.70	
ANP	1.20	307	eP	28 21.40	1.3
			iS	28 38.50	
TWK	2.25	238	ePc	28 34.80	0.0
QZH	3.65	278	Pnd	28 53.00	-1.6
			Sn	29 32.00	
SSE	6.72	350	P	29 37.50	-0.1
NJ2	8.24	337	Pc	29 57.80	-0.9
			S	31 29.60	
BJI	16.44	342	eP	31 51.50	3.9X
CD2	17.85	295	P	32 06.40	1.1
CN2	19.44	6	eP	32 24.00	0.1
WB5	45.55	164	eP	36 14.40	-1.0
WRA	45.60	164	Pc	36 18.00	2.2
	0.7s		1.10nm		3.9mb
YKA	82.22	23	eP	40 14.40	-1.1
	0.6s		0.30nm		3.5mb

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

& MAY 16, 1990 08h 52m 40.60s
40.505 N 121.562 W
DEPTH = 4.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 2.6 (BRK).

M1N	0.16	192	iPc	52 43.30	-0.7
			iS	52 45.90	
LTCM	0.52	236	eP	52 50.50	-0.5
WDC	0.75	276	iPc	52 54.20	-1.4
			eS	53 04.10	
ORV	0.95	177	eP	52 57.20	-2.1
			e	53 10.40	
KVN	3.04	117	eP	53 30.00	-0.5

5 obs. associated

& MAY 16, 1990 09h 03m 08.33s
58.401 N 154.212 W
DEPTH = 86.8km
ALASKA PENINSULA (12)
<AGS-P>.

CDD	0.61	29	iP	03 23.14	-0.8
			iS	03 34.47	
MCNL	0.79	355	iP	03 24.82	-0.9
			eS	03 37.47	
AUL	1.06	22	iP	03 28.14	-0.7
KDC	1.12	125	iPc	03 28.40	-1.1
CNPM	1.91	53	eP	03 38.37	-1.4
			eS	04 01.39	
RED	2.15	19	iP	03 41.79	-1.3
RDT	2.37	22	eP	03 44.31	-1.7
NKA	2.79	32	eP	03 51.40	-0.4
SVW	2.81	346	iPc	03 50.20	-1.8
SLKM	2.94	42	eP	03 51.36	-2.4
SEW	2.98	53	iP	03 51.47	-2.9
SPU	3.00	20	eP	03 52.89	-1.7
CRP	3.06	19	eP	03 54.14	-1.4
SUA	3.53	28	eP	04 00.29	-1.8
PMS	3.69	37	iPc	04 02.00	-2.3
PLRM	4.09	36	eP	04 06.67	-3.1
PMR	4.09	36	iPd	04 06.90	-2.8
GHO	4.29	36	eP	04 09.55	-3.1
GLI	4.38	52	eP	04 09.63	-4.2
SML	4.51	38	eP	04 11.96	-3.7
VZW	4.70	52	eP	04 14.52	-3.8
FBA	7.20	22	ePd	04 48.80	-3.9
PCA	7.35	71	eP	04 51.91	-3.1
BCPM	7.65	72	eP	04 55.60	-3.3
HQN	8.01	76	eP	05 00.31	-3.5

25 obs. associated

? MAY 16, 1990 09h 09m 42.58± 2.11s
31.959 S ±40.2km 68.443 W ±22.0km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCV	0.13	320	ePc	09 57.00	-0.1
			S	10 09.30	
CFA	0.39	26	eP	09 58.00	0.1
			iS	10 10.80	
RTLL	0.63	358	iPd	09 59.60	-0.1
RTBS	0.91	289	ePc	10 02.30	0.0
			(S)	10 18.00	

S.D. = 0.1 on 4 of 4 obs.

? MAY 16, 1990 09h 41m 20.27± 1.07s
31.647 S ±38.0km 68.923 W ±18.5km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCV	0.39	123	e(P)	41 35.00	-0.6
			S	41 49.70	
RTBS	0.45	268	ePd	41 36.10	0.2
			S	41 48.00	
RTLL	0.50	51	iPc	41 35.80	-0.5
CFA	0.58	86	e(P)	41 37.90	0.9
			S	41 50.50	

S.D. = 1.3 on 4 of 4 obs.

% MAY 16, 1990 10h 07m 05.40± 0.92s
59.339 N ± 8.2km 6.089 E ± 5.4km
DEPTH = 5.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.6 (BER).

BLS1	0.38	82	iPc	07 13.43	0.3
			eSg	07 18.74	
KMY	0.45	254	iPc	07 14.29	-0.1
			iSg	07 20.23	
ODD1	0.64	25	iP	07 17.60	-0.5
			iSg	07 26.03	
BER	1.11	340	iP	07 26.98	0.2
			iSg	07 42.75	
ASK	1.23	339	iP	07 28.60	-0.2
			iSg	07 45.27	
HYA	1.83	1	iPc	07 38.39	0.6
			iSg	08 03.39	
NRA0	3.07	61	Pn	07 55.10	-0.4
			Lg	08 38.80	

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

---

* MAY 16, 1990 11h 12m 33.21± 0.62s
32.345 N ±11.7km 92.782 E ± 8.4km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
TIBET (306)

GUN	7.43	235	P	14 23.40	1.0
PKI	7.97	235	P	14 30.60	0.6
	0.4s		16.00nm		5.5mb X
DMN	8.16	237	P	14 32.60	0.1
	0.4s		7.00nm		5.1mb X
GTA	9.07	37	eP	14 43.80	-1.1
CD2	9.47	96	P	14 50.40	0.0
LZH	9.89	65	P	15 10.50	14.2X
	Z 10s		0.30um		
GYA	13.44	112	iPd	15 42.00	-2.2
XAN	13.62	79	eP	15 42.00	-4.5X
BTO	16.11	54	eP	16 21.00	2.2
HHC	17.28	55	eP	16 34.00	0.4
BJI	20.35	61	eP	17 11.50	2.2
GBA	23.35	220	Pc	17 44.50	5.0X
	0.5s		2.00nm		3.9mb
HFS	57.24	324	eP	22 18.10	-1.3
	0.5s		1.70nm		4.3mb
	Z 16s		0.04um		3.6MszX
			LR	47 41.00	
NB2	58.30	326	P	22 25.60	-1.2
	0.7s		1.60nm		4.2mb
WRA	65.46	137	Pd	23 15.00	-0.3
	0.2s		42.40nm		6.2mb X
YKA	82.96	12	eP	24 55.50	-0.3
	0.8s		0.40nm		3.6mb

S.D. = 1.4 on 13 of 16 obs.

MAY 16, 1990 11h 49m 03.06± 0.74s
39.899 N ± 6.4km 21.448 E ± 6.7km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 2.6 (THE).

LIT	0.83	76	ePg	49 20.20	0.7
			eSg	49 34.20	
FNA	0.89	356	ePg	49 20.20	-0.4
			eSg	49 34.30	
IGT	0.93	247	ePg	49 21.40	0.0
			eSg	49 35.70	
AGG	1.11	142	ePb	49 24.10	-0.3
			eSb	49 40.60	
GRG	1.28	34	ePbc	49 26.80	-0.5
			eSb	49 47.30	
OHR	1.31	338	ePn	49 28.20	0.4
VAY	1.66	31	ePn	49 36.50	3.6X

S.D. = 0.6 on 6 of 7 obs.

& MAY 16, 1990 11h 49m 27.00s
36.645 N 121.312 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.9 (BRK).

SAO	0.16	318	iPc	49 30.10	-0.4
LLA	0.30	95	iPc	49 32.80	-0.3
			iS	49 37.50	
PRS	0.32	189	iPd	49 33.30	-0.1
GCC	0.67	305	ePc	49 39.40	-1.1
PRI	0.72	134	iPc	49 40.90	-0.6
ARN	0.72	346	iPc	49 41.20	-0.3
MHC	0.74	339	ePd	49 41.50	-0.3
			eS	49 53.10	
PHAM	1.09	137	eP	49 47.00	-0.8
PKEM	1.13	121	iPc	49 49.00	0.5
FRI	1.33	74	ePc	49 50.20	-1.7
			iS	50 07.60	
BKS	1.43	329	e(P)	49 53.10	-0.3
CMB	1.57	28	iPc	49 54.30	-1.1
			eS	50 12.70	
KVN	3.50	46	eP	50 27.00	3.9

13 obs. associated

---

* MAY 16, 1990 11h 59m 45.39± 1.23s
66.023 N ± 9.1km 6.376 E ±16.3km
DEPTH = 33.0km (normal)
NORWEGIAN SEA (642)
MD 3.6 (BER).

MOL	3.51	171	iPd	00 39.51	0.7
			eS	01 18.25	
LOF	3.51	50	iP	00 39.04	0.1
			eS	01 15.81	
HYA	4.88	181	iPd	00 58.00	-0.3
			eS	01 50.56	
SUE	5.04	189	iP	01 01.36	0.8
			eS	01 54.50	
ASK	5.59	186	iPd	01 08.51	0.2
			eS	02 04.91	
ASK	5.59	186	eP	01 08.35	0.1
NRA0	5.79	154	Pn	01 10.60	-0.6
			Sn	02 13.70	
ODD1	6.14	179	eP	01 15.83	-0.3
			eS	02 18.65	
BLS1	6.66	178	eP	01 22.99	-0.5
			eS	02 33.89	
HFS	6.78	147	eP	01 25.60	0.6
	0.3s		9.00nm		5.1mb
KMY	6.86	185	iP	01 25.57	-0.6
			eS	02 36.21	
KTK1	7.12	58	eP	01 29.92	0.2
			eS	02 40.96	
KEV	8.61	55	iP	01 50.20	-0.3
			eS	03 21.00	

S.D. = 0.5 on 13 of 13 obs.

& MAY 16, 1990 12h 00m 22.47s
60.093 N 152.562 W
DEPTH = 88.1km
SOUTHERN ALASKA (2)
<AGS-P>.

RED	0.34	342	iP	00 35.40	-0.8
			eS	00 46.24	
RDT	0.49	9	iP	00 36.34	-0.9
CNPM	0.88	130	eP	00 39.85	-1.1
			iS	00 54.05	

16d 12h

NKA	0.93	45	iP	00	42.54	1.1				iSg	32	50.10		RIY	3.32	118	e(Pn)	33	20.60	0.2
SPU	1.12	13	iP	00	43.25	-0.6	VDL	0.72	227	iPc	32	39.60	-1.5	ENR	3.38	217	P	33	20.87	-0.5
			iS	00	58.95		LLS	0.85	263	iPc	32	42.70	-1.1				S	33	58.81	
CRP	1.19	9	eP	00	44.53	-0.3	WATA	0.99	68	iPgc	32	44.80	-1.3	STV	3.41	218	P	33	20.65	-1.1
SLKM	1.24	69	iP	00	44.44	-0.8				iSg	32	58.10		TNS	3.45	341	ePnd	33	22.40	0.1
CDD	1.29	206	eP	00	44.27	-1.6	SCE	1.02	86	iPgc	32	45.00	-1.6				eSn	34	20.60	
SEW	1.56	88	eP	00	47.54	-1.7	MDI	1.25	197	P	32	49.00	-1.5	IMI	3.48	209	P	33	22.63	-0.1
			eS	01	07.46					eSn	33	08.00		HOF	3.51	18	iPnd	33	30.90	7.8X
SUA	1.64	32	eP	00	50.27	-0.2	TMA	1.28	227	ePd	32	49.80	-1.2	CRE	3.57	159	P	33	24.20	0.2
			eS	01	12.09		ZLA	1.35	293	ePd	32	53.50	1.4	AUTN	3.57	214	P	33	27.51	3.3X
SVW	1.82	305	iPd	00	51.20	-1.6	CTI	1.35	133	P	32	50.60	-1.7	TOUF	3.63	216	P	33	26.90	1.9
PMS	1.88	51	iPd	00	53.10	-0.4				eSn	33	08.60		SBF	3.68	213	Pn	33	26.40	0.8
SKT	1.96	14	eP	00	53.75	-0.9	FUR	1.38	31	iPgc	32	54.10	1.4				Sn	34	11.60	
PWA	2.04	39	iPd	00	55.40	-0.3	SAL	1.39	171	P	32	51.70	-1.0	AURF	3.70	214	P	33	28.94	3.0X
PLRM	2.25	47	eP	00	57.03	-1.5				eSn	33	09.30		MVIF	3.77	216	P	33	29.82	2.9X
PMR	2.25	47	iPd	00	57.30	-1.3	SLE	1.42	304	ePd	32	54.30	1.1	MOX	3.78	14	ePn	33	24.50	-2.5
KDC	2.35	179	iPd	00	56.90	-3.0	VAI	1.50	223	P	32	53.70	-0.6				iPg	33	40.00	
GHO	2.45	45	eP	00	59.77	-1.5				eSn	33	16.40					iSn	34	10.00	
			eS	01	29.22		FEL	1.75	302	P	32	58.80	0.7				iSg	34	29.00	
CUT	2.57	25	eP	01	02.69	-0.2				S	33	21.22		VBY	3.79	111	ePnc	33	28.00	0.9
SML	2.69	48	eP	01	02.92	-1.6	FVI	1.80	101	P	32	58.70	0.1				iSn	34	13.00	
GLI	2.82	71	eP	01	02.78	-3.5				eSn	33	21.90		REVF	3.81	213	P	33	30.91	3.4X
VZW	3.12	69	eP	01	07.45	-3.0	MMK	1.82	240	ePd	32	59.10	0.0	WLF	3.82	316	iP	33	28.66	1.2
VLZ	3.24	69	eP	01	09.31	-2.8	BBS	1.91	286	P	33	01.13	0.8	ARV	3.97	150	P	33	29.00	-0.7
TTA	3.29	331	iP	01	11.40	-1.5				S	33	29.48					eSn	34	12.40	
KLU	3.55	64	iP	01	13.72	-2.7	BHG	1.95	67	iPnc	33	01.70	0.8	CALN	3.99	217	P	33	33.79	3.7X
TOA	3.70	54	iPd	01	17.20	-1.3	ORX	2.06	230	P	33	03.22	0.7	PTJ	4.11	103	eP	33	31.50	-0.1
	26 obs. associated									S	33	28.59		PRU	4.16	42	ePn	33	32.00	-0.3
----------							K8A	2.14	86	iPgc	33	06.00	2.3				Pg	33	38.00	
& MAY 16, 1990 12h 26m 48.86s										i	33	07.00					Sg	34	40.50	
61.964 N 149.576 W										iSg	33	34.80		ASS	4.27	155	P	33	34.00	0.0
DEPTH = 46.2km							DIX	2.14	246	ePd	33	05.80	1.9	LBF	4.28	272	Pn	33	33.80	-0.2
SOUTHERN ALASKA (2)							MOF	2.27	294	P	33	06.06	0.4				Pg	33	48.20	
<AGS-P>. ML 3.2 (PMR).							BOB	2.28	194	Pd	33	06.50	0.8				Sg	34	41.80	
										eSn	33	33.70		VKA	4.32	70	iPnd	33	34.70	0.2
PWA	0.35	205	iPd	26	58.00	-0.1	LOMF	2.35	280	P	33	06.99	0.3				iPg	33	49.40	
GHO	0.36	122	iP	26	57.83	-0.6	ECH	2.42	302	P	33	07.93	0.3				i	34	05.30	
			eS	27	05.38					S	33	35.92					iSn	34	23.30	
PLRM	0.43	150	iP	26	58.02	-1.0	EMS	2.45	249	ePd	33	09.80	1.6				iSg	34	45.60	
			iS	27	06.37		CDF	2.45	307	P	33	08.59	0.4	LOR	4.36	276	Pn	33	35.20	0.1
PMR	0.43	150	iPc	26	58.20	-0.8				S	33	47.14		SMF	4.40	268	Pn	33	35.90	0.2
CUT	0.55	324	iP	27	00.05	-0.5	BSF	2.48	291	P	33	08.91	0.3				Pg	33	51.00	
			eS	27	08.72		LSD	2.62	236	P	33	12.26	1.6				Sg	34	45.80	
SML	0.61	104	iP	27	00.46	-0.9				S	33	43.15		LRG	4.46	219	Pn	33	36.90	0.4
PMS	0.72	179	iPc	27	02.30	-0.6	GWF	2.66	320	P	33	11.64	0.6				Sn	34	29.70	
SUA	0.75	228	eP	27	02.93	-0.4				S	33	46.13		PGF	4.52	192	P	33	39.53	2.1
			eS	27	14.73		VOY	2.70	109	ePn	33	13.20	1.4	MEM	4.58	324	P	33	38.50	0.3
SKT	0.92	272	iP	27	04.87	-0.8				eSn	33	47.50		SSF	4.60	273	Pn	33	38.20	-0.3
HUR	1.02	358	eP	27	07.88	0.9	PCP	2.71	206	P	33	12.48	0.7				Sg	34	52.00	
			eS	27	20.76					S	33	43.59		BRG	4.60	31	e(P)	33	46.00	7.4X
NCA	1.30	87	iP	27	10.56	-0.4	RSP	2.76	230	P	33	11.38	-1.2				iPg	33	53.00	
			eS	27	27.56					S	33	41.83					i	34	18.00	
CRP	1.42	242	eP	27	12.88	0.2	TRI	2.76	116	iPnc	33	13.70	1.2				iSg	34	53.00	
SPU	1.42	238	eP	27	12.59	-0.1				iPg	33	17.10		PLDF	4.67	260	P	33	38.58	-1.1
			iS	27	31.73					i	33	38.70		AVF	4.72	270	Pn	33	40.00	-0.2
RND	1.49	13	eP	27	13.13	-0.5				iSn	33	45.00					Sn	34	34.40	
SLKM	1.49	192	eP	27	13.58	-0.1				iSg	33	52.00					Sg	34	57.20	
TOA	1.61	83	iPc	27	15.80	0.4	WET	2.80	38	iPnc	33	12.70	-0.4	ENN	4.74	325	iPnd	33	40.80	0.3
GLI	1.61	131	eP	27	15.04	-0.3	MME	2.81	173	P	33	14.10	0.7		0.5s		55.00nm			
			eS	27	35.55		LPG	2.83	240	Pn	33	15.70	2.0				ePb	33	48.50	
VZW	1.71	121	eP	27	16.42	-0.3	LPL	2.83	240	Pn	33	15.90	2.2				eSn	34	37.00	
			eS	27	38.19					Sg	33	59.90					eSg	35	03.00	
KTH	1.71	339	eP	27	16.51	-0.3	CKI	2.90	209	Pc	33	15.60	1.2	DOU	4.87	312	iPc	33	43.10	0.7
VLZ	1.76	117	eP	27	16.72	-0.7	BDI	2.93	175	P	33	15.00	0.1		0.5s		46.10nm			
KLU	1.80	104	iP	27	17.53	-0.6				eSn	33	46.80					iS	34	37.00	
			eS	27	40.16		FIN	3.11	208	P	33	19.10	1.7	GRC	4.89	276	P	33	43.06	0.4
RDT	1.95	226	eP	27	19.56	-0.7	KHC	3.11	45	iPn	33	17.40	-0.1	MNS	4.92	158	P	33	42.00	-1.1
PAX	2.16	60	eP	27	23.52	0.4				iPg	33	25.50		AGO	4.98	262	P	33	43.02	-1.0
RED	2.19	226	eP	27	23.18	-0.4				Sn	33	52.90		BGF	5.09	268	Pn	33	44.40	-1.1
GL8	2.80	98	eP	27	31.09	-1.2				Sg	34	05.20					Sn	34	41.00	
SVW	3.02	256	eP	27	34.40	-1.0	LJU	3.12	106	ePn	33	19.00	1.5				Sg	35	08.40	
FBA	3.05	14	iPc	27	35.10	-0.7				e	33	24.50		PYM	5.15	259	P	33	44.43	-1.9
TTA	3.14	291	iPc	27	36.40	-0.8				eSn	33	58.60		LBL	5.16	253	P	33	45.91	-0.5
28 obs. associated							VITF	3.13	295	P	33	18.25	0.7	SNF	5.29	314	iPc	33	49.19	0.9
----------							8NI	3.14	233	P	33	19.00	1.1	KSP	5.56	44	ePn	33	55.00	2.8X
MAY 16, 1990 12h 32m 26.75± 0.22s										eSn	33	54.50					ePg	34	11.00	
46.979 N ± 2.4km 10.226 E ± 2.0km							ROB	3.15	212	P	33	19.10	1.1				iS	35	02.80	
DEPTH = 5.0km (geophysicist)							RRL	3.16	231	P	33	18.44	0.1				i	35	22.00	
NORTHERN ITALY (545)							DOI	3.24	221	P	33	18.50	-0.8	TCF	5.56	266	Pn	33	50.80	-1.5
ML 4.2 (FUR), 4.1 (VKA), 4.0										eSn	33	55.00					Sn	34	52.00	
(KBA), 3.9 (LDG). Felt (V) at							PII	3.26	176	P	33	20.00	0.4	LSF	6.04	266	Pn	33	58.00	-0.8
Ischgl, Austria.										eSn	33	55.00		CAF	6.05	253	Pn	33	58.20	-0.8
							SFI	3.27	159	P	33	20.00	0.4	RJF	6.28	258	Pn	34	01.40	-0.9
OSS	0.30	191	iPc	32	31.50	-1.3				eSn	33	55.50		LPO	6.72	253	Pn	34	08.00	-0.5
OGA	0.56	101	iPgd	32	36.70	-1.3	PGD	3.28	161	P	33	20.70	0.7	MFF	7.13	271	Pn	34	12.60	-1.6
SAX	0.66	295	iPc	32	40.70	0.7				eSn	33	55.00					Sn	35	28.00	
SQTA	0.71	70	iPgc	32	40.00	-1.0	PZZ	3.30	223	P	33	19.10	-1.2	LDF	7.16	287	Pn	34	13.00	-1.6

16d 12h

FLN	7.42	288	Pn	34 16.80	-1.5
GRR	7.61	285	Pn	34 19.20	-1.8
			Sn	35 42.40	
LPF	7.70	282	Pn	34 20.40	-1.8
OHR	9.61	124	ePn	34 46.20	-2.5

S.D. = 1.1 on 100 of 108 obs.

? MAY 16, 1990 12h 33m 54.50±15.58s
42.375 N ±81.0km 24.391 E ±103.km
DEPTH = 5.0km (geophysicist)
BULGARIA (359)

SRS	1.39	206	ePb	34 22.00	1.4
			eSb	34 44.28	
VAY	1.72	233	ePn	34 25.00	-0.2
SOH	1.74	207	ePb	34 24.40	-1.1
			eSb	34 54.60	
GRG	2.06	227	ePb	34 30.20	0.0
OUR	2.06	189	ePn	34 36.00	5.8X
			eSn	35 06.80	
SKO	2.23	261	ePn	34 32.80	0.1

S.D. = 1.3 on 5 of 6 obs.

? MAY 16, 1990 12h 39m 55.36± 3.36s
61.940 N ±15.7km 4.593 E ±30.3km
DEPTH = 5.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.1 (BER).

SUE	0.89	175	iP	40 12.99	0.1
			iSg	40 25.65	
HYA	1.09	135	eP	40 16.32	0.1
			iS	40 32.78	
			eSg	40 43.41	
MOL	1.52	64	iPc	40 23.22	0.0
			iSg	40 44.19	
BLS1	2.78	156	iP	40 41.31	-0.2
NRA0	3.56	107	Pn	40 57.20	4.8X
			Sn	41 31.70	
			Lg	41 51.80	

S.D. = 0.3 on 4 of 5 obs.

• MAY 16, 1990 13h 07m 37.68± 2.20s
15.684 N ±27.6km 98.357 W ± 8.1km
DEPTH = 16.9km (3 depth phases)
4.0mb (4 obs.)
OFF COAST OF GUERRERO, MEXICO (65)

ACX	1.86	309	iPc	08 08.50	-0.6
			iS	08 32.80	
OXX	2.10	48	iPc	08 12.75	0.1
			iS	08 42.63	
III	2.88	338	iP	08 25.00	1.2
			iS	09 02.18	
IIT	3.32	1	eP	08 33.31	3.2X
			eS	09 16.00	
PSM	3.34	72	iP	08 31.51	1.2
			(S)	09 26.91	
UNM	3.71	348	(P)	08 42.50	6.7X
EVV	3.98	46	eP	08 38.00	-1.3
IIJ	4.24	342	(P)	08 46.00	2.6X
			(S)	09 42.50	
TUL	20.27	6	e(P)	12 12.30	-2.9X
	1.0s		6.70nm	3.9mb	
ALQ	20.51	341	eP	12 17.50	-0.4
	1.0s		8.25nm	4.1mb	
ANMO	20.51	341	ePd	12 18.20	0.3
			e	12 23.00	18km
RSCP	22.90	28	eP	12 41.00	-0.7
			pP	12 46.00	18km
GOL	24.70	347	ePd	13 00.90	1.4
			ipP	13 05.10	15km
BW06	28.66	343	eP	13 35.60	-0.3
PNT	37.76	337	eP	14 55.00	0.5
YKA	48.14	350	eP	16 17.30	-1.2
	0.7s		1.00nm	4.0mb	
INK	57.17	345	eP	17 25.00	-0.7
MBC	61.57	354	eP	17 56.50	0.6
	0.7s		3.00nm	4.6mb	

S.D. = 1.0 on 14 of 18 obs.

MAY 16, 1990 13h 13m 25.98± 0.50s
16.166 N ± 7.3km 98.225 W ± 4.4km
DEPTH = 18.5km (3 depth phases)
4.8mb (22 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

OXX	1.70	57	iPc	13 57.99	2.8
			eS	14 20.41	
ACX	1.72	294	iP	13 52.29	-2.9
			eS	14 16.06	
III	2.50	332	iP	14 06.80	0.2
IIT	2.84	358	iP	14 12.70	1.2
			eS	14 52.00	
PSM	3.10	80	iP	14 15.39	0.3
			(S)	15 08.51	
UNM	3.28	344	(P)	14 24.50	6.7X
EVV	3.57	50	iPd	14 21.60	0.0
			(S)	15 27.18	
IIJ	3.83	338	(P)	14 22.50	-3.3X
			(S)	15 24.00	
LVVM	3.93	25	(P)	14 26.00	-0.8
SCX	5.39	83	(P)	14 56.00	8.5X
UYO	18.24	10	iPc	17 37.70	-2.2
MEO	18.54	359	e(P)	17 43.30	-0.3
TUL	19.78	6	eP	17 56.00	-2.2
	1.0s		16.70nm	4.3mb	
ALQ	20.10	340	eP	18 01.30	-0.5
	1.0s		39.25nm	4.7mb	
ANMO	20.11	340	P	18 02.40	0.6
	0.8s		24.63nm	4.6mb	
PWLA	20.83	24	P	18 09.00	-0.1
RSCP	22.41	28	P	18 24.50	-0.5
	0.8s		188.30nm	5.6mb	
GLA	22.54	321	eP	18 27.00	0.7
FVM	22.80	16	P	18 27.70	-1.1
PRM	22.85	36	P	18 29.20	-0.1
GBTN	23.10	30	P	18 31.10	-0.7
TKL	23.31	31	P	18 33.60	-0.2
BAR	23.44	318	eP	18 36.00	0.9
JSC	23.62	37	P	18 36.50	-0.3
PLM	24.00	319	eP	18 42.00	1.3
			e	18 48.00	21km
TPC	24.00	321	eP	18 42.00	1.4
LHS	24.02	37	P	18 41.20	0.5
GOL	24.26	346	iPc	18 44.40	1.1
			ipP	18 49.40	18km
GLD	24.28	347	P	18 45.10	1.7
	1.3s		90.23nm	5.2mb	
RVR	24.74	319	eP	18 49.00	1.3
GSC	25.28	322	eP	18 54.00	1.1
MWC	25.32	319	eP	18 54.00	0.6
SBB	25.48	320	eP	18 55.00	0.2
CLC	26.10	322	eP	19 01.00	0.4
BLA	26.22	34	P	19 01.40	-0.3
	0.8s		20.13nm	4.8mb	
ABL	26.46	319	P	19 04.60	0.5
DAU	26.68	337	P	19 06.70	0.5
DUG	27.10	335	P	19 10.60	0.8
	0.6s		2.30nm	4.0mb	
TNP	27.50	326	P	19 13.50	0.0
	1.0s		14.17nm	4.6mb	
BW06	28.24	342	P	19 19.20	-1.0
	1.4s		13.81nm	4.5mb	
KVN	28.68	327	P	19 25.40	1.2
CMB	29.25	322	ePc	19 29.10	0.0
IMW	29.68	341	P	19 33.00	-0.2
LRM	31.88	341	eP	19 53.00	0.5
TBR	32.40	35	P	19 56.50	-0.3
RSNY	34.65	30	P	20 15.70	-0.6
	1.2s		16.52nm	4.8mb	
RSON	34.80	5	eP	20 16.20	-1.3
			pP	20 21.00	16km
WNY	34.87	31	P	20 16.30	-1.9
HBVT	35.25	32	P	20 29.70	8.3X
SES	35.68	346	eP	20 25.00	-0.1
BNH	36.34	33	P	20 31.50	0.8
PNT	37.37	337	ePc	20 40.00	0.7
	1.0s		17.00nm	4.8mb	
SCH	45.56	25	eP	21 46.00	-0.4
YKA	47.69	350	eP	22 01.20	-1.9
	1.0s		5.40nm	4.6mb	
INK	56.74	345	eP	23 10.00	-0.7
PMR	57.81	334	P	23 17.70	-0.6
	0.8s		14.66nm	5.1mb	
BAO	58.79	120	e(P)	23 25.00	-1.0
FBA	58.93	338	P	23 25.30	-0.8
	0.9s		14.06nm	5.1mb	
MBC	61.11	354	ePc	23 40.60	-0.3
	1.1s		20.00nm	5.2mb	
TTA	61.29	334	P	23 41.00	-1.4
	1.0s		20.00nm	5.2mb	
LPF	82.85	42	eP	25 50.90	0.3
GRR	82.87	42	eP	25 51.30	0.6

FLN	83.00	41	eP	25 52.00	0.6
LDF	83.28	41	eP	25 53.50	0.6
LSF	85.05	43	eP	26 02.20	0.3
NB2	85.06	27	P	26 02.60	0.9
	0.7s		2.50nm	4.6mb	
EPF	85.23	47	eP	26 03.80	0.9
TCF	85.49	43	eP	26 04.50	0.4
	1.0s		8.00nm	4.9mb	
MAF	85.74	43	eP	26 05.80	0.5
	0.9s		12.30nm	5.1mb	
BGF	85.82	43	eP	26 06.00	0.3
	0.7s		5.50nm	4.9mb	
SSF	86.08	42	eP	26 07.10	0.1
	1.0s		8.00nm	4.9mb	
KEV	86.19	17	eP	26 07.00	-0.1
LOR	86.24	42	eP	26 08.20	0.4
	0.8s		8.75nm	5.0mb	
LBF	86.41	42	eP	26 08.60	-0.1
SOD	87.56	19	eP	26 13.00	-0.8
WB5	130.01	257	ePKP	32 36.30	-0.8
WRA	130.04	257	PKPd	32 36.10	-1.0
	0.2s		0.80nm		
GBA	150.11	8	PKPd	33 17.00	4.2X
	0.7s		5.30nm		

S.D. = 1.0 on 73 of 78 obs.

? MAY 16, 1990 13h 25m 27.02± 7.88s
34.929 N ±23.7km 4.063 W ±72.9km
DEPTH = 33.0km (normal)
MOROCCO (395)
MD 3.4 (RBA).

NKM	1.22	296	iPc	25 47.80	0.0
			eS	25 59.50	
			i	26 02.00	
			i	26 03.50	
IFR	1.66	212	iP	25 55.00	0.6
			iS	26 16.00	
AVE	3.22	241	eP	26 16.50	0.1
			i	26 22.00	
			eS	26 51.00	
			i	26 54.00	
TIO	4.81	215	iP	26 38.50	-0.7
			iS	27 33.40	

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

MAY 16, 1990 13h 32m 36.06± 0.22s
10.940 N ± 4.6km 85.475 W ± 3.8km
DEPTH = 73.3km (7 depth phases)
5.1mb (48 obs.)
COSTA RICA (78)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 13:32:36.9 0.8
Lat 10.41N 0.09 Lon 86.27W 0.09
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.57 0.06 Mtt= 0.00 0.07
Mff=-0.57 0.09 Mrt= 1.29 0.14
Mrf=-1.12 0.18 Mtf= 0.44 0.07
Principal Axes:

T	Val= 1.79	Plg=54	Azm= 29
N	0.13	10	134
P	-1.91	34	231

Best Double Couple:Mo=1.9*10**17
NP1:Strike=358 Dip=15 Slip= 135
NP2: 132 80 80

DVD	3.88	130	iPc	33 35.80	1.2
UPA	6.17	108	iPd	34 08.00	1.4
	1.5s		288.89nm	5.4mb	
BMG	12.83	106	iPd	35 38.50	1.2
BOG	12.93	118	eP	35 42.00	3.3X
			eS	38 06.00	
SDV	14.76	97	eP	36 05.10	2.6
TOV	15.47	93	eP	36 17.40	5.9X
FISA	15.84	87	eP	36 17.20	1.0
MORO	16.85	89	iPc	36 32.00	3.1X
GUAC	17.91	91	eP	36 46.50	4.4X
CAR	18.23	90	eP	36 47.00	1.1
			iS	40 56.00	
LLAV	18.35	90	iPd	36 47.50	0.1
OLLA	18.38	91	iP	36 48.00	0.2
MGP	19.13	66	P	36 57.50	1.2
PORP	19.55	67	P	37 01.50	0.8

HBF	22.39	11	P	37	34.50	5.2X						ePcP	42	14.10			FLN	78.58	42	iPc	44	30.40	-0.8
SGS	22.61	11	P	37	35.70	4.2X						eScP	46	00.80				1.0s	32.00nm				5.2mb
PRM	23.21	7	P	37	40.70	3.4X	SAO	41.36	314	ePc	40	20.40	3.9X		LDF	78.82	42	iPc	44	31.80	-0.8
JSC	23.55	9	P	37	43.50	2.9	LRM	41.68	332	eP	40	19.00	-0.3			0.9s	32.75nm				5.3mb
SVB	23.79	82	eP	37	48.71	5.5X	ARN	41.70	315	P	40	20.40	1.1		MFF	78.95	44	iPc	44	32.30	-1.0
LHS	23.82	10	P	37	46.10	2.9	MHC	41.78	315	ePc	40	21.20	1.2			1.0s	20.00nm				5.0mb
SLB	24.03	81	eP	37	48.68	3.1X	GCC	41.87	314	ePc	40	21.50	0.9		TIC	79.43	85	P	44	35.80	-0.8
PWLA	24.05	355	P	37	46.30	0.9	BKS	42.45	315	ePd	40	26.30	0.9		LIC	79.49	86	P	44	36.20	-0.7
NNA	24.34	159	eP	37	51.30	2.8		0.9s		160.00nm			5.8mb			EPF	79.59	48	iPc	44	36.20	-0.7
	1.3s	109.62nm				5.1mb		Z	20s		0.50um			4.4Msz			1.1s	26.85nm				5.1mb
PT10	24.37	159	e(P)	38	01.00	12.2X		N	20s		0.70um					LFF	79.70	46	iPc	44	36.60	-0.8
UYO	24.54	342	iPd	37	51.30	1.1		E	20s		0.80um						0.7s	13.25nm				5.0mb
RSCP	24.55	360	P	37	51.70	1.4						eLQ	52	46.40			KIC	79.75	85	P	44	37.60	-0.7
GBTN	24.64	2	P	37	53.40	2.2						eLR	56	08.00			LPO	80.04	46	iPc	44	38.30	-0.9
TKL	24.66	3	P	37	53.50	2.2	BRK	42.46	315	eP	40	26.30	0.8			1.0s	30.00nm				5.2mb
OLY	25.05	348	P	37	55.20	0.2	ORV	42.81	318	ePc	40	29.20	0.9		LSF	80.13	45	iPc	44	38.40	-1.3
BLA	26.55	9	P	38	11.00	2.1	MIN	43.30	319	eP	40	32.10	-0.3		RJF	80.21	46	iPc	44	39.10	-1.1
	1.0s	120.00nm				5.4mb	WDC	44.02	319	ePc	40	35.60	-2.5			1.0s	18.00nm				5.0mb
TUL	26.56	341	eP	38	08.20	-0.8						ePcP	42	22.60			TCF	80.60	45	iPc	44	40.90	-1.3
	1.0s	95.00nm				5.3mb	SES	44.61	337	eP	40	42.00	-0.8			0.8s	8.05nm				4.7mb
MEO	26.57	335	iPd	38	08.40	-0.7						pP	40	57.00	58kmX		CAF	80.64	46	eP	44	41.40	-1.0
NAV	26.60	8	P	38	11.30	1.9	RTLL	45.08	159	ePc	40	47.20	0.5			1.1s	19.55nm				4.9mb
CVL	27.65	12	P	38	20.70	1.8	RTCB	45.11	160	ePc	40	48.50	1.5		MAF	80.85	45	iPc	44	42.50	-1.0
ARE	30.54	153	eP	38	46.00	0.8	BAO	45.55	125	eP	40	49.50	-1.2			1.1s	20.75nm				5.0mb
ALQ	30.59	325	ePc	38	44.50	-0.9	NEW	45.66	331	P	40	50.00	-1.1		BGF	81.01	44	iPc	44	43.10	-1.2
	1.0s	37.50nm				5.1mb X		1.0s		11.25nm			4.7mb			0.8s	13.45nm				4.9mb
	Z 20s	0.66um				4.3Msz	ROCH	45.79	163	eP	41	04.50	12.0X		AVF	81.33	44	eP	44	44.40	-1.5
		e	39	00.00	64km	PEL	46.05	163	iPc	41	06.80	12.5X			1.2s	16.35nm				4.8mb
ANMO	30.60	325	P	38	45.30	-0.1		0.5s		17.61nm					SSF	81.40	44	iPc	44	44.70	-1.6
	1.0s	31.38nm				5.0mb	SCH	46.20	15	ePc	40	54.70	-0.5			1.0s	12.00nm				4.8mb
LVNJ	31.22	16	P	38	52.60	2.0		0.8s		55.00nm			5.5mb		LOR	81.61	43	iPc	44	46.00	-1.5
TBR	31.67	16	P	38	56.50	1.9	FCH	46.34	162	iPd	41	09.60	12.6X			1.0s	14.00nm				4.9mb
WVLY	31.99	10	P	38	58.30	0.9	TACH	46.45	163	ePc	41	09.70	12.2X		SMF	81.68	44	eP	44	46.30	-1.5
ZOBO	32.02	147	Pc	38	58.00	-0.6	PCH	46.55	163	iPc	41	10.60	12.3X		LBF	81.73	44	eP	44	46.40	-1.7
	1.1s	32.48nm				5.1mb	LNV	46.61	164	iPd	41	10.50	11.9X		DOU	81.75	41	P	44	47.00	-1.1
	Z 20s	0.59um				4.3Msz	LON	47.09	326	P	41	01.60	-0.9					S	55	22.00		
		S	44	34.00		RMW	47.52	327	P	41	04.50	-1.4		ESEL	81.86	51	eP	44	48.50	-0.3
		LR	49	46.00		PNT	47.59	330	ePd	41	06.00	-0.3		ADK	82.24	321	P	44	51.60	1.1
GLD	33.62	332	P	39	11.70	-0.1		0.9s		35.00nm			5.3mb			0.9s	366.67nm				6.3mb X
	1.2s	75.76nm				5.5mb	BMW	47.71	325	P	41	06.50	-0.8		WIT	82.67	38	eP	44	53.00	0.3
GOL	33.65	332	P	39	11.50	-0.7	EDM	47.73	338	eP	41	05.50	-1.9		WTS	82.88	39	eP	44	53.50	-0.3
	1.0s	56.88nm				5.4mb	GMW	48.10	327	P	41	08.70	-1.6			0.9s	23.00nm				5.1mb
	Z 22s	1.35um				4.6Msz	PGC	49.12	327	eP	41	18.00	0.0		BSF	83.50	43	eP	44	56.00	-1.3
CCH	34.01	146	P	39	16.70	1.2	FRB	54.08	9	eP	41	53.00	-2.0			0.8s	10.75nm				4.9mb
		i	39	30.70	55kmX	YKA	55.58	344	eP	42	02.70	-3.3X		NB2	83.74	29	P	44	57.20	-1.0
GLA	34.79	314	eP	39	23.00	1.2		0.6s		3.50nm			4.6mb			1.2s	9.20nm				4.7mb
RSNY	34.79	14	P	39	22.30	0.7	INK	65.22	342	eP	43	10.00	-1.5		LPL	83.83	45	eP	44	58.80	-0.4
	1.0s	94.00nm				5.7mb	RUV	66.59	248	iP	43	20.50	-0.6		LPG	83.85	45	eP	44	59.00	-0.4
	Z 22s	3.17um				5.0Msz		1.2s		55.00nm			5.4mb			0.7s	3.85nm				4.5mb
WNY	34.80	15	P	39	22.40	0.7						ipP	43	39.80	73km		SBF	84.60	47	iPc	45	01.90	-1.0
HBVT	34.98	16	P	39	24.00	0.8	TOA	66.89	334	eP	43	21.20	-1.2			0.9s	22.95nm				5.2mb
BNH	35.70	18	P	39	30.50	1.2	MBC	67.78	352	eP	43	27.00	-0.7		HFS	85.13	30	eP	45	03.20	-1.9
BAR	35.93	312	eP	39	33.00	1.6	PMR	68.04	332	ePc	43	28.00	-1.5			0.4s	0.90nm				4.2mb
SIV	36.05	138	iP	39	32.00	-0.5		Z	20s		0.50um			4.7Msz		PGF	85.96	48	iPc	45	08.70	-1.0
TPC	36.21	314	eP	39	35.00	1.2	FBA	68.58	336	ePc	43	29.20	-3.7X			0.8s	13.45nm				5.0mb
MSU	36.37	324	P	39	35.80	0.5	AKU	70.85	24	eP	43	46.90	0.3		GRF	86.04	40	iPc	45	09.20	-0.7
PLM	36.40	313	eP	39	36.00	0.5		1.0s		20.00nm			5.0mb			1.5s	23.00nm				5.0mb
RSSD	36.74	337	P	39	38.20	-0.1	SVW	70.93	331	eP	43	45.80	-1.4			Z 20s	0.60um				5.0Msz
MIM	36.97	19	P	39	42.10	2.2	IMA	71.28	336	ePc	43	47.50	-1.9		MOX	86.09	39	eP	45	10.00	-0.1
EMM	37.06	21	P	39	42.90	2.2	TTA	71.50	333	ePc	43	48.80	-1.9				e	45	43.00	128kmX	
RVR	37.10	313	eP	39	43.00	1.9	AVE	74.15	58	eP	44	05.50	-1.2		CLL	86.80	38	iPc	45	12.70	-0.8
		e	42	01.00						i	44	29.50	92kmX			1.5s	25.00nm				5.1mb
DAU	37.16	327	P	39	42.20	0.2	EPLA	74.95	51	eP	44	11.00	-0.3				i	45	33.10	74km	
GSC	37.38	316	eP	39	44.00	0.4	EJIF	75.58	55	e(P)	44	15.60	0.7		WET	87.22	41	eP	45	15.00	-0.6
MWC	37.70	313	eP	39	47.00	0.6	EHOR	75.69	54	e(P)	44	15.00	-0.5			1.3s	42.00nm				5.4mb
PAS	37.74	313	eP	39	48.00	1.4	IFR	76.04	58	iP	44	34.00	16.2X		BRG	87.48	39	eP	45	16.00	-0.8
DUG	37.87	325	P	39	48.10	0.4	GUD	76.40	51	eP	44	19.50	-0.1			2.0s	44.00nm				5.2mb
	1.1s	29.61nm				5.1mb	MAL	76.42	55	iPd	44	20.20	0.6				e	45	40.60	92kmX	
BW06	38.03	331	P	39	48.00	-1.1	TOL	76.52	51	eP	44	20.00	-0.1				e	49	02.20		
	1.1s	13.10nm				4.8mb	AAPN	76.61	54	eP	44	20.50	-0.3		KHC	87.67	40	P	45	17.10	-0.7
CLC	38.20	316	eP	39	50.00	-0.5	ALOJ	76.64	54	iPc	44	20.50	-0.5			Z 20s	1.00um				5.2Msz
		e	42	04.00		EKA	76.72	36	Pc	44	19.00	-1.8			E 20s	0.70um				
ISA	38.73	315	eP	39	56.00	1.1		1.7s		60.00nm			5.3mb				e	45	31.60	49kmX	
		e	42	06.00		ATEJ	76.72	55	iPc	44	21.50	0.0		PRU	88.07	39	eP	45	18.50	-1.1
TNP	39.21	319	P	39	59.80	0.8	EBAN	76.83	53	eP	44	21.50	-0.4			Z 20s	0.60um				5.0Msz
		pP	40	19.00	79km	ASMO	76.91	54	iPc	44	22.50	0.0			N 20s	0.20um				
SYP	39.23	312	eP	40	03.00	3.8X	APHE	76.98	54	iPc	44	23.00	0.1			E 20s	0.50um				
IMW	39.53	331	P	40	01.30	-0.5	AFC	77.08	54	eP	44	23.50	0.1				e	45	38.50	72km	
FRI	40.27	316	ePc	40	07.50	0.0	ECRI	77.53	49	eP	44	25.60	-0.1		VOY	88.63	43	e(P)	45	22.00	-0.6
KVN	40.33	320	P	40	08.70	0.5	AIA	77.62	171	e(P)	44	26.00	0.5		KSP	88.92	38	eP	45	23.00	-0.7
RSON	40.37	352	P	40	03.00	-5.2X	ETOR	77.98	50	eP	44	28.00	-0.3		LJU	89.06	43	e(P)	45	24.50	0.0
	1.0s	27.11nm				5.1mb	LPF	78.25	43	iPc	44	28.40	-1.0		CEY	89.06	44	e(P)	45	23.90	-0.6
HPI	40.46	329	P	40	09.60	0.2		1.0s		40.00nm			5.3mb		ZST	90.17	41	eP	45	28.70	-0.9
PRI	40.50	314	e(P)	40	10.20	0.6	GRR	78.35	43	iPc	44	29.10	-0.9				e	45	48.50	71km	
LLA	40.93	315	eP	40	13.20	0.2		0.9s		45.85nm			5.4mb				i	56	50.70		
PRS	41.09	314	eP	40	14.70	0.4	LKO	78.40	82	P	44	29.82	-1.1		KRA	91.38	38	eP	45	32.10	-3.0X
CMB	41.27	317	ePc	40	16.10	0.3		1.0s		27.50nm			5.2mb				e	45	54.00	80km	

16d 13h

SPC	91.85	39	eP	45	56.80	19.3X
OHR	94.84	47	eP	45	51.00	-0.3
WMQ	125.15	6	ePKP	51	30.00	0.0
	Z 23s	1.10um				5.5MszX
BJI	125.45	340	ePKP	51	31.00	0.5
HHC	126.12	344	ePKP	51	32.00	-0.1
RMQ	126.74	245	ePKP	51	34.50	1.0
			e	51	49.00	
TIY	128.78	342	PKPc	51	37.80	0.7
	Z 20s	1.00um				5.5Msz
CTA	129.50	253	ePKPd	51	39.50	0.6
	1.0s	25.00nm				
			e	54	57.00	
			e	55	22.00	
GTA	129.67	355	ePKP	51	38.40	-0.5
	Z 22s	0.90um				5.4Msz
			PP	53	57.20	
LZH	132.41	350	ePKP	51	45.50	1.3
XAN	133.22	344	PKP	51	48.80	3.1X
GUN	140.48	12	PKP	51	56.20	-3.6X
WB5	140.66	252	ePKP	51	51.90	-8.0X
			e	52	00.10	
			e	55	20.30	
WRA	140.68	252	PKPd	51	52.80	-7.1X
	1.0s	6.40nm				
PKI	140.71	13	PKP	51	59.20	-1.0
KMI	143.27	347	ePKP	52	05.00	0.4
			pPKP	52	20.50	
MTN	144.15	263	ePKP	52	05.00	-1.0
			e	52	19.00	
WARB	146.11	239	ePKP	52	10.00	0.9
			e	52	24.00	
QIZ	146.61	333	PKP	52	12.70	2.7
MNI	147.44	290	ePKPd	52	15.00	3.5X
HYB	147.71	29	ePKP	52	11.00	-0.9
			e	53	25.00	
COOL	148.33	227	ePKP	52	17.00	4.5X
CHG	150.12	352	ePKP	52	16.20	0.6
KLB	150.27	223	ePKP	52	15.00	-0.4
GBA	150.30	35	PKPd	52	15.70	-0.2
	1.0s	12.00nm				
LOE	150.95	346	ePKP	52	18.00	1.2
MUN	151.04	220	ePKP	52	17.00	0.4
	0.7s	86.00nm				
			e	52	23.00	
			e	52	36.00	
BDT	151.65	351	ePKP	52	23.80	6.0X
	S.D. = 1.1	on 182 of 213 obs.				

? MAY 16, 1990 14h 08m 28.45± 4.30s
24.064 S ±53.9km 179.854 E ±29.9km
DEPTH = 575.5 ± 43.9 km
4.6mb (3 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	12.50	276	iPc	11	10.50	-1.9
CTA	31.34	271	iPd	14	05.50	1.1
	0.4s	101.69nm				5.8mb X
PMG	34.42	289	eP	14	31.00	0.7
QIS	37.31	267	iPd	14	54.50	0.5
WB5	42.25	266	iPd	15	34.20	0.5
			eScP	20	26.50	
			eS	21	21.80	
WRA	42.26	266	Pc	15	33.80	0.0
	0.6s	7.10nm				4.4mb
FORR	46.09	250	eP	16	03.00	-0.3
	0.4s	19.00nm				5.0mb
NANU	58.62	257	eP	17	34.30	1.1
	0.4s	11.00nm				4.5mb
PRS	81.75	44	eP	19	53.10	4.5X
PRI	82.09	45	eP	19	52.00	1.6
MHC	82.20	43	e(P)	19	49.80	-1.2
FRI	83.21	45	eP	19	57.00	1.1
CMB	83.41	43	eP	19	56.50	-0.4
ORV	83.65	42	eP	19	58.40	0.4
WDC	83.67	40	eP	19	58.50	0.4
MIN	84.08	41	eP	20	01.10	0.8
KVN	85.45	44	eP	20	06.20	-0.8
ANMO	91.16	52	eP	20	34.30	0.6
NUR	139.72	341	ePKP	26	56.00	3.7X
NB2	142.22	351	PKP	26	54.50	-2.2
	0.9s	4.70nm				
HFS	142.68	349	ePKP	26	55.40	-2.1
	0.4s	7.70nm				
KSP	150.39	339	iPKPc	27	19.30	9.1X
CLL	150.97	343	ePKP	27	11.00	0.0
8RG	151.10	341	iPKP	27	20.00	8.8X
	0.6s	12.00nm				
MEM	153.07	351	PKP	27	20.90	6.9X
	S.D. = 1.2	on 20 of 25 obs.				

? MAY 16, 1990 14h 10m 50.90± 6.60s
17.278 S ±82.3km 73.202 W ±28.4km
DEPTH = 33.0km (normal)
OFF COAST OF PERU (114)

ARE	1.83	64	iP	11	20.50	-0.3
			iS	11	37.40	
PT03	4.11	322	eP	11	52.90	-0.2
			eS	12	34.60	
PT06	4.57	318	iP	12	10.60	11.1X
			iS	12	48.70	
ZOBO	4.97	79	P	12	06.00	0.3
			i	12	30.00	
PT02	5.32	324	iPd	12	09.40	-0.8
			eS	13	02.00	
PT08	6.20	328	eP	12	24.00	1.1
			iS	13	23.10	
NNA	6.33	326	eP	12	32.50	8.0X
	0.6s	5.33nm				4.5mb X
			e	13	32.00	
	S.D. = 1.0	on 5 of 7 obs.				

% MAY 16, 1990 16h 13m 35.67± 0.79s
38.223 N ±10.0km 28.771 E ± 7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.60	80	iPg	13	47.50	-0.4
			eSg	13	55.70	
CIN	0.82	221	ePg	13	51.00	-0.6
			iSg	14	02.00	
YER	1.15	200	ePn	13	57.90	0.6
IZM	1.20	279	ePn	13	58.10	0.1
ALT	1.34	51	iPn	14	00.70	0.3
	S.D. = 0.7	on 5 of 5 obs.				

• MAY 16, 1990 17h 09m 56.13± 2.15s
0.358 S ±14.6km 99.144 E ±14.6km
DEPTH = 68.2 ± 16.6 km
5.0mb (5 obs.)
SOUTHERN SUMATERA (274)

TSI	3.88	351	eP	10	55.00	0.4
KLM	4.25	36	eP	11	01.00	1.1
KGM	4.79	61	eP	11	07.00	-0.5
IPM	5.25	21	iPc	11	14.90	0.9
	0.5s	64.70nm				5.1mb
			e	11	41.90	
BSI	6.97	327	iP	11	36.00	-1.8
			iS	12	49.50	
SNG	7.63	11	eP	11	47.10	0.2
CHG	19.05	359	eP	14	15.00	-1.0
LSA	30.85	346	Pd	16	18.60	10.0X
GUN	30.86	337	P	16	09.20	0.6
	0.4s	11.00nm				4.9mb
CD2	31.40	8	P	16	11.80	-1.2
WB5	39.56	122	eP	17	21.20	-1.4
WRA	39.57	122	Pc	17	21.90	-0.7
	0.5s	3.00nm				4.5mb
GTA	39.58	1	iPc	17	23.00	0.4
FORR	40.92	141	eP	17	35.00	1.5
	0.3s	10.00nm				5.1mb
WMQ	45.16	348	P	18	09.30	1.4
CN2	49.85	25	eP	18	42.40	-2.0
NUR	82.71	331	eP	22	14.00	0.5
HFS	88.03	330	eP	22	41.00	1.1
	1.1s	9.60nm				4.9mb
	S.D. = 1.3	on 17 of 18 obs.				

• MAY 16, 1990 17h 17m 23.12± 1.13s
11.893 N ±16.2km 41.755 E ±13.8km
DEPTH = 10.0km (geophysicist)
4.5mb (1 obs.)
ETHIOPIA (558)
MD 4.0 (ARO).

HLD	0.73	114	eP+	17	37.65	0.3
KSU	0.77	119	iP+	17	38.27	0.1
DAF	0.81	110	iPd	17	38.93	0.1
SGH	0.97	118	iP+	17	41.54	-0.1
GBR	1.01	137	ePd	17	42.11	-0.2
			S	17	56.84	
ARO	1.13	109	iP+	17	44.40	0.1
TDD	1.13	94	eP+	17	44.11	-0.2
ZST	41.64	335	eP	25	14.40	1.3
APO	52.71	343	eP	26	38.50	-1.4
	0.9s	5.10nm				4.5mb
	S.D. = 0.8	on 9 of 9 obs.				

& MAY 16, 1990 17h 18m 13.60s
36.272 N 120.257 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.2 (BRK), 3.2 (PAS).

PKEM	0.24	150	iPc	18	20.70	2.2
PRI	0.35	249	iPd	18	21.10	0.3
			iS	18	26.70	
PHAM	0.45	195	iPc	18	23.70	1.1
LLA	0.65	302	iPd	18	26.20	-0.4
FRI	0.84	31	iPd	18	29.80	-0.5
PRS	0.90	274	iPc	18	30.40	-0.9
SAO	1.08	298	ePc	18	33.20	-1.1
BCH	1.09	173	eP	18	33.90	-0.8
ARN	1.48	317	eP	18	39.50	-1.5
MHC	1.54	314	ePc	18	40.40	-1.5
ISA	1.57	112	eP	18	41.80	-0.4
GCC	1.59	299	ePc	18	40.40	-2.1
ABL	1.65	149	eP	18	41.80	-1.8
BLP	1.71	184	eP	18	44.00	-0.2
CMB	1.76	357	iPd	18	44.40	-0.6
			iS	19	07.90	
BKS	2.25	316	iPc	18	50.20	-1.9
TNP	3.03	52	eP	19	03.00	-0.3
KVN	3.26	31	eP	19	06.70	0.1
	18 obs. ossociated					

? MAY 16, 1990 18h 38m 59.32± 9.35s
8.339 S ±83.8km 129.570 E ±17.4km
DEPTH = 181.8 ± 40.5 km
4.2mb (1 obs.)
TIMOR SEA (290)

MTN	4.73	161	eP	40	11.00	0.4
			e	41	12.00	
KNA	7.41	186	eP	40	46.00	0.2
	0.2s	58.00nm				5.6mb X
			eS	42	14.00	
WB5	12.38	158	eP	41	49.10	-1.5
			i	41	52.10	
			eS	44	10.80	
WRA	12.43	159	Pd	41	50.40	-0.9
	0.3s	2.70nm				4.2mb
QIS	15.54	142	eP	42	31.30	1.0
			eS	45	02.00	
MBL	15.84	215	eP	42	34.20	0.3
WAR8	17.96	189	eP	43	00.00	1.3
NANU	19.55	222	eP	43	14.20	-1.0
	S.D. = 1.3	on 8 of 8 obs.				

• MAY 16, 1990 18h 59m 51.21± 4.55s
44.547 N ±16.1km 129.433 W ±33.0km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)
CL 4.0 (SEA).

GROR	4.18	77	P	00	56.15	-0.3
KMOR	4.35	73	P	00	57.79	-1.1
NLO	4.49	68	P	01	01.17	0.2
ONR	4.60	58	P	01	01.99	-0.4
BMW	4.77	64	P	01	04.19	-0.7
OBH	4.78	52	P	01	04.36	-0.6
OOW	4.84	47	P	01	05.88	0.0
OFK	4.90	44	P	01	06.61	0.1
RVW	4.98	69	P	01	07.46	-0.3
OTR	4.99	43	P	01	08.15	0.2
CPW	5.03	59	P	01	08.38	-0.1
PGO	5.03	77	P	01	09.57	1.0
SMW	5.07	55	P	01	08.54	-0.6
OBC	5.09	45	P	01	09.52	0.1
GT2	5.13	81	P	01	10.09	0.1
OSD	5.15	49	P	01	10.09	-0.3
LVP	5.18	70	P	01	10.50	-0.3
APW	5.21	64	P	01	10.50	-0.5
CZM	5.22	66	P	01	10.86	-0.4
FL2	5.26	69	P	01	11.72	-0.1
ERK	5.29	68	P	01	11.81	-0.5
MTMW	5.31	71	P	01	12.36	-0.1
SHW	5.33	69	P	01	13.12	0.2
VLMM	5.33	77	P	01	13.28	0.4

STD	5.35	69	P	01	13.02	-0.2
HSR	5.36	70	P	01	13.49	0.1
REMW	5.37	70	P	01	14.03	0.5
YEL	5.37	69	P	01	13.90	0.4
JLK	5.38	70	P	01	13.71	0.2
STW	5.38	46	P	01	13.27	-0.1
TDL	5.39	68	P	01	13.17	-0.5
ESD	5.39	70	P	01	14.02	0.3
SOSW	5.41	69	P	01	13.94	-0.1
HDW	5.41	53	P	01	13.79	-0.2
MEW	5.43	58	P	01	15.16	1.0
CDFW	5.44	71	P	01	14.27	-0.1
KOSW	5.44	67	P	01	14.12	-0.2
LMW	5.44	65	P	01	14.76	0.3
TDH	5.48	80	P	01	14.44	-0.6
GMW	5.51	55	P	01	15.20	-0.2
VLL	5.57	78	P	01	16.82	0.5
GHW	5.59	61	P	01	16.57	0.1
VBEM	5.61	82	P	01	17.01	0.2
APM	5.61	75	P	01	17.29	0.5
TCO	5.64	92	P	01	17.26	0.0
BLN	5.66	50	P	01	17.69	0.3
GULW	5.70	73	P	01	18.20	0.1
VFP	5.71	79	P	01	18.73	0.5
RVC	5.75	63	P	01	18.95	0.3
ASR	5.75	71	P	01	18.84	0.0
SPW	5.84	56	P	01	20.83	1.0
GLK	5.85	67	P	01	20.59	0.4
FMW	5.93	64	P	01	21.33	-0.1
WPW	5.93	66	P	01	21.36	0.0
GSM	5.96	61	P	01	22.07	0.4
CROR	6.03	83	P	01	22.17	-0.5
RMW	6.06	59	P	01	23.38	0.3
MCW	6.14	45	P	01	23.83	-0.4
VGB	6.21	78	P	01	25.30	0.1
GL2	6.24	74	P	01	25.16	-0.5
VIPM	6.30	87	P	01	26.04	-0.6
VTHM	6.34	81	P	01	26.66	-0.4
JCW	6.34	52	P	01	27.00	-0.1
CMW	6.37	50	P	01	27.31	-0.1
NAC	6.42	67	P	01	28.19	0.0
MXC	6.73	69	P	01	32.28	-0.2
SES	13.73	58	eP	03	17.00	8.7X

S.D. = 0.4 on 66 of 67 obs.

---

* MAY 16, 1990 19h 38m 35.50± 0.73s
4.271 N ± 9.3km 127.499 E ±14.4km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
TALAUD ISLANDS (263)

MNI	3.87	223	iPc	39	35.20	1.1
			eS	40	18.00	
MTN	17.38	168	eP	42	37.00	-0.3
WB5	24.93	165	eP	43	56.90	-0.4
WRA	24.99	165	Pc	43	57.50	-0.3
	0.7s		4.90nm			4.2mb
QIS	27.39	155	iPd	44	20.10	0.1
	0.5s		4.00nm			4.3mb
LOE	28.42	299	eP	44	28.00	-1.5
BJI	37.05	346	eP	45	44.50	0.3
	1.0s		11.00nm			4.7mb
IMA	81.58	24	ePc	50	52.40	1.1

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

---

* MAY 16, 1990 19h 39m 58.71± 1.51s
41.654 N ±11.6km 22.688 E ± 9.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.6 (THE), 2.3 (SKO).

VAY	0.34	195	iPg	40	05.70	-0.1
			iSg	40	08.00	
KNT	0.52	162	iPgc	40	08.10	-1.1
			eSg	40	12.00	
GRG	0.73	197	ePgd	40	12.20	-0.9
			eSg	40	19.50	
SRS	0.87	128	ePg	40	16.00	0.6
			eSg	40	26.30	
SKO	0.99	289	ePn	40	16.50	-0.9
THE	1.04	168	ePgc	40	17.50	-0.9
			eSg	40	28.40	
FNA	1.32	229	ePb	40	24.90	1.8
			eSb	40	41.20	
LIT	1.56	186	ePbc	40	27.00	0.5
			eSb	40	45.20	
PAIG	1.88	156	ePb	40	32.10	0.9
			eSb	40	55.40	

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

? MAY 16, 1990 19h 52m 32.49± 1.38s
40.316 N ±12.5km 103.931 E ±20.2km
DEPTH = 10.0km (geophysicist)
4.1mb (2 obs.)
NORTHERN CHINA (323)
ML 3.4 (BJI).

GTA	3.29	255	iPnc	53	25.30	0.0
			Pg	53	30.00	
			Sg	54	05.00	
LZH	4.22	181	Pg	53	46.50	8.0X
XAN	7.42	146	Pg	54	45.30	21.8X
CD2	9.39	181	P	54	50.80	0.0
HFS	56.20	323	eP	02	14.00	-0.5
	0.4s		1.20nm			4.3mb
NB2	56.95	325	P	02	20.50	0.5
	0.5s		0.70nm			3.9mb

S.D. = 0.7 on 4 of 6 obs.

& MAY 16, 1990 20h 10m 04.25s
38.678 N 112.583 W
DEPTH = 0.4km
UTAH (478)
<SLC-P>. ML 2.9 (SLC).

MSU	0.36	117	iPd	10	11.20	-0.2
DUG	1.53	353	eP	10	31.90	-1.0
DAU	2.01	30	eP	10	40.00	-0.1

3 obs. associated

---

* MAY 16, 1990 20h 15m 20.05± 0.47s
15.024 N ±10.3km 147.398 E ± 8.9km
DEPTH = 10.0km (geophysicist)
4.7mb (7 obs.)
MARIANA ISLANDS REGION (215)

GUA	2.83	239	eP	16	05.80	-0.3
			eS	16	41.70	
MAT	22.94	341	eP	20	25.00	-0.5
	1.1s		13.92nm			4.4mb
WRA	37.04	201	Pc	22	31.90	-0.2
	0.8s		6.60nm			4.5mb
LOE	43.84	280	eP	23	28.80	0.4
CHTO	46.40	282	e(P)	23	49.00	0.1
GUN	58.15	294	P	25	17.00	-0.1
	0.5s		25.00nm			5.5mb
PKI	58.57	293	P	25	19.40	-0.6
	0.5s		9.00nm			5.1mb
DMN	58.84	293	P	25	22.00	0.2
	0.5s		14.00nm			5.3mb
INK	72.11	23	eP	26	45.00	-1.2
MBC	76.29	14	eP	27	10.50	0.2
	0.8s		3.00nm			4.4mb
MAIO	79.61	305	eP	27	31.00	1.5
YKA	80.46	28	eP	27	32.70	-0.6
	0.6s		3.20nm			4.5mb
PNT	80.69	41	eP	27	36.00	1.2
KVN	84.11	51	eP	27	53.10	0.1
LRM	86.27	44	eP	28	04.00	0.3
KIC	145.16	306	PKP	35	00.20	-0.3
TIC	145.20	306	PKP	35	00.30	-0.3
LIC	145.46	306	PKP	35	01.30	0.3

S.D. = 0.7 on 18 of 18 obs.

MAY 16, 1990 20h 15m 51.00± 0.85s
5.686 S ± 5.1km 150.350 E ± 7.7km
DEPTH = 112.3 ± 8.6 km
4.8mb (7 obs.)
NEW BRITAIN REGION (192)

RAB	2.34	51	iPd	16	29.00	0.0
	0.7s		1917.81nm			
LAT	3.47	254	eP	16	44.00	-0.1
PMG	4.87	220	iPc	17	02.30	-0.9
			eS	17	55.00	
CTA	14.86	195	iPc	19	21.50	4.9X
	1.0s		75.00nm			4.9mb
QIS	18.09	214	iPc	19	56.10	-0.6
	0.7s		27.00nm			4.6mb
GUA	19.85	344	eP	20	16.80	1.3
	0.9s		255.46nm			5.6mb
RMO	20.74	184	iPd	20	25.70	1.1
			e	20	37.00	
WB5	20.99	226	iPc	20	26.80	-0.3
			iPP	20	43.90	
			eS	24	13.00	
			eScP	27	58.90	
WRA	21.05	226	Pc	20	27.10	-0.6
	0.5s		16.00nm			4.6mb
QLP	21.59	195	iPc	20	34.60	1.6
BRS	21.71	174	iP	20	34.80	0.5
			i	20	52.00	
DZM	22.53	138	iPc	20	43.50	1.1
KNA	23.42	243	eP	20	51.30	0.4
WARB	30.47	225	iPd	21	55.60	0.2
FORR	32.61	217	iPd	22	13.50	-0.5
	0.3s		4.00nm			4.7mb
NANU	37.56	240	eP	22	56.20	0.0
KLB	39.93	226	eP	23	15.10	-0.7
MUN	41.25	226	eP	23	26.70	0.1
CHJJ	42.86	346	P	23	36.80	-2.9
TSRJ	43.17	343	P	23	43.50	1.3
MAT	43.52	346	eP	23	44.00	-1.0
	1.3s		42.31nm			5.1mb
MTMJ	43.66	345	P	23	46.40	0.1
WHN	49.85	318	Pc	24	36.50	1.8
DL2	51.73	331	eP	24	48.50	-0.4
SNY	53.23	335	eP	25	00.50	0.6
MDJ	53.44	342	Pd	25	02.40	1.0
CN2	54.15	338	eP	25	06.70	0.0
BJI	55.32	328	eP	25	15.50	0.3
	1.0s		11.00nm			4.8mb
XAN	55.61	318	P	25	17.40	-0.1
TIY	55.76	324	eP	25	19.20	0.7
CD2	57.49	312	iPc	25	31.40	0.5
HHC	58.38	326	eP	25	37.00	0.0
IMA	82.11	20	eP	28	00.00	-0.2
TOA	82.98	25	ePd	28	04.20	-0.5
FBA	83.62	22	eP	28	07.80	0.1
INK	90.15	21	eP	28	38.00	-1.3
ZOBO	136.13	120	ePKP	35	00.00	-2.4
SIV	142.17	125	PKP	35	08.20	-4.6X
BAO	152.10	140	e(PKP)	35	36.00	7.2X

S.D. = 1.0 on 36 of 39 obs.

? MAY 16, 1990 20h 39m 40.55± 5.65s
16.081 N ±11.0km 60.743 W ±48.5km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

SFG	0.47	291	ePd	39	50.82	0.1
MGG	0.58	254	ePd	39	52.29	0.1
			S	39	58.80	
SEG	0.80	294	eP	39	55.15	-0.2
			S	40	36.70	
BBL	0.90	232	ePd	39	56.84	0.0
			S	40	07.40	
PAG	0.90	267	ePd	39	56.90	0.0
			S	40	07.20	
BPA	1.44	312	eP	40	04.60	0.1
			S	40	18.50	

S.D. = 0.2 on 6 of 6 obs.

& MAY 16, 1990 21h 07m 43.52s
58.926 N 136.926 W
DEPTH = 2.9km
SOUTHEASTERN ALASKA (19)
<AGS-P>.

BCPM	1.73	308	eP	08	12.10	-2.5
			eS	08	34.74	
HYT	1.93	352	P	08	09.00	-8.7
PCA	2.06	306	eP	08	17.81	-1.8
			eS	08	46.30	
YAH	2.84	303	iP	08	30.09	-0.8

4 obs. associated

% MAY 16, 1990 22h 55m 52.74± 1.14s
40.711 N ±12.0km 15.795 E ± 8.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.40	248	P	56	01.30	0.4
			eSg	56	07.60	
MGR	0.60	198	P	56	04.00	-0.9
			eSg	56	13.40	
ORI	0.82	142	P	56	09.50	0.9
			eSg	56	21.00	
BAI	0.91	63	P	56	10.50	0.4
BRT	1.08	81	Pd	56	12.30	-0.8

16d 22h

eSn 56 27.40
S.D. = 1.1 on 5 of 5 obs.

? MAY 16, 1990 23h 30m 43.67± 3.30s
31.026 S ±49.9km 68.385 W ±23.5km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.31	193	iPc	30 59.90	0.1
ZON	0.58	206	iPd	31 02.00	0.6
			eS	31 14.00	
CFA	0.59	168	eP	31 02.00	0.5
RTCV	0.84	189	ePc	31 03.70	0.1
RTBS	1.11	235	ePd	31 06.60	0.3

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

% MAY 16, 1990 23h 39m 20.90± 2.34s
39.198 N ±16.7km 23.488 E ±13.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.3 (THE).

PAIG	0.74	11	ePg	39 36.20	0.8
			eSg	39 47.40	
AGG	0.92	259	ePg	39 38.50	0.0
			eSg	39 52.30	
LIT	1.19	320	ePbc	39 42.90	-0.1
OUR	1.20	18	ePbc	39 43.00	-0.2
THE	1.49	344	ePb	39 47.80	0.2
SRS	1.92	2	ePn	39 53.20	-0.7
GRG	1.94	335	ePn	39 53.80	-0.5
KNT	2.01	347	ePn	39 55.50	0.2
FNA	2.27	315	ePn	39 59.40	0.4

S.D. = 0.5 on 9 of 9 obs.

MAY 17, 1990 01h 02m 46.87± 0.38s
30.244 S ± 4.5km 72.257 W ± 7.8km
DEPTH = 31.4km (3 depth phases)
5.2mb (9 obs.)
OFF COAST OF CENTRAL CHILE (134)

RTBS	2.79	121	ePc	03 32.00	1.7
JACH	2.82	150	eP	03 31.00	0.2
			iS	04 13.40	
IHA	2.82	169	eP	03 30.50	-0.2
			e(S)	04 15.00	
PEL	3.19	156	iP	03 35.60	-0.4
LCCH	3.27	170	eP	03 35.90	-1.3
			iS	04 29.00	
ZON	3.34	114	eP	03 39.00	0.8
			eS	04 29.00	
RTLL	3.43	109	ePd	03 39.80	0.2
SAN	3.48	157	eP	03 39.50	-0.6
			iS	04 32.50	
FCH	3.50	152	iPd	03 40.70	-0.1
			iS	04 35.10	
RTCV	3.58	118	ePd	03 43.80	2.2
TACH	3.58	162	iP	03 41.00	-0.6
			i	04 20.40	
			iS	04 33.50	
PCH	3.68	157	iPc	03 42.70	-0.3
			iS	04 28.50	
CFA	3.71	112	iPc	03 44.00	0.6
LNV	3.77	169	eP	03 42.50	-1.7
			i	03 51.50	
			iS	04 39.00	
CHCH	3.92	160	eP	03 47.00	0.6
			i	04 30.00	
			i	04 47.00	
ANT	6.72	15	e(P)	04 26.50	0.6
ARE	13.74	3	eP	06 08.00	5.9X
CCH	13.97	25	P	06 02.60	-2.5
LPB	14.17	17	P	06 04.00	-3.9X
			LR	10 48.00	
ZOBO	14.42	16	P	06 10.00	-1.3
	1.0s		22.50nm		4.7mb X
	Z 18s		0.80um		5.7Msz
			LR	10 28.00	
TKL	66.44	350	P	13 33.80	-1.4
GBTN	66.52	349	P	13 34.70	-1.0
RSCP	66.68	348	P	13 36.00	-0.8
	0.9s		33.46nm		5.4mb
NAV	67.68	353	P	13 42.20	-0.8
ALQ	72.41	331	eP	14 13.00	0.9
	1.1s		4.11nm		4.3mb
ANMO	72.41	331	P	14 13.30	1.2
	1.2s		7.81nm		4.6mb
LIC	73.80	73	Pc	14 19.50	-0.9
	1.0s		20.00nm		5.1mb
TIC	74.04	72	Pc	14 21.00	-0.8
	1.2s		38.00nm		5.3mb
KIC	74.11	73	Pc	14 21.20	-1.0
	0.9s		31.50nm		5.3mb
LKO	75.20	70	Pc	14 27.66	-0.9
	0.9s		44.00nm		5.5mb
GOL	76.09	334	P	14 34.00	0.6
MAW	76.83	164	iPc	14 41.50	4.7X
MSU	77.88	329	P	14 44.80	1.5
DAU	79.05	331	P	14 51.20	1.4
RSSD	79.51	337	P	14 52.80	0.7
TNP	79.90	325	P	14 56.00	1.7
	1.0s		5.58nm		4.5mb
KVN	81.09	326	P	15 01.80	1.3
			e	15 12.90	36km
RSON	82.94	346	P	15 09.80	0.1
			pP	15 19.90	32km
MIN	83.82	324	ePc	15 19.20	4.6X
BCAO	92.89	87	iPc	15 58.70	0.3
	0.5s		9.00nm		5.5mb
			id	16 07.20	27km
GBA	147.51	114	PKP	22 31.00	3.7X
	1.0s		9.80nm		
HYB	150.50	109	ePKP	22 37.00	5.1X

S.D. = 1.1 on 36 of 42 obs.

MAY 17, 1990 01h 04m 07.59± 0.10s
37.060 N ± 2.3km 136.880 E ± 2.2km
DEPTH = 267.0km (28 depth phases)
5.2mb (100 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 01:04:12.1 0.6
Lat 37.20N 0.05 Lon 136.79E 0.09
Dep 274.4 3.0 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr=-0.12 0.08 Mtt= 1.12 0.10
Mff=-1.00 0.12 Mrt= 0.38 0.10
Mrf=-1.19 0.09 Mtf= 0.33 0.10
Principal Axes:
T Val= 1.23 Plg=16 Azm= 0
N 0.68 51 110
P -1.91 35 259
Best Double Couple:Mo=1.6*10**17
NP1:Strike= 45 Dip=53 Slip=-165
NP2: 306 78 -37

MTMJ	0.88	122	iPd	04 44.50	0.3
			S	05 13.10	
SHK	4.25	235	iPc	05 18.40	2.9
	0.7s		602.74nm		
			S	06 12.00	
SAP	6.89	28	eP	05 45.00	-2.7
			eS	07 00.00	
CN2	11.01	311	Pd	06 40.80	1.4
	4.0s		500.00nm		5.0mb X
			sP	07 42.00	
			S	08 43.00	
			PcP	12 12.50	
			ScS	18 48.00	
SNY	11.33	299	iPd	06 45.40	1.9
	3.0s		2600.00nm		5.9mb
			iS	08 53.00	
DL2	12.18	283	iPd	06 56.00	2.0
	5.0s		4700.00nm		6.0mb X
	Z 16s		1.10um		4.6MszX
			iS	09 12.50	
SSE	14.30	250	Pc	07 21.00	1.1
	3.0s		7400.00nm		6.5mb X
	Z 16s		1.30um		5.3MszX
	N 12s		0.60um		
			S	10 00.00	
NJ2	15.66	257	iPd	07 36.00	-0.4
	3.5s		1500.00nm		5.8mb X
			S	10 25.00	
TIA	15.89	273	Pd	07 38.00	-0.8
			eS	10 28.50	
BJI	16.47	287	eP	07 44.00	-1.0
	3.0s		1620.00nm		5.9mb
			eS	10 42.00	
			eScP	15 30.00	
			ePcS	15 54.00	
			eScS	19 08.00	
ANP	17.67	232	eP	07 56.00	-1.9
TIY	19.43	279	iPd	08 14.40	-1.3
	1.2s		200.00nm		5.5mb
	E 10s		0.80um		
			S	11 38.00	
QZH	19.75	237	Pd	08 18.00	-0.8
			iS	11 44.00	
			i	12 56.00	
WHN	19.80	257	Pd	08 19.00	-0.3
	1.0s		200.00nm		5.5mb
			S	11 48.00	
HHC	20.03	289	Pd	08 20.00	-1.7
	Z 14s		1.60um		4.5MszX
	N 10s		0.30um		
			S	11 50.00	
BTO	21.19	288	iPd	08 31.50	-1.6
	N 10s		0.90um		
	E 10s		0.80um		
			S	12 09.00	
XAN	22.91	271	iPd	08 48.50	-1.2
	5.0s		1300.00nm		5.7mb X
	N 10s		0.60um		
			sP	10 13.00	
GUMO	24.44	161	eP	09 02.50	-1.4
PJG	24.44	161	eP	09 02.90	-1.0
GUA	24.50	161	eP	09 03.30	-1.2
	1.3s		2061.54nm		6.5mb X
			pP	09 06.60	12kmX
HKC	24.52	239	iP	09 05.80	1.2
GZH	24.59	242	Pd	09 21.40	16.2X
	2.0s		400.00nm		
	Z 18s		1.00um		4.4Msz
			sP	10 43.50	
BAG	25.12	219	eP	09 08.80	-1.6
			eS	13 13.00	
OCP	26.40	216	eP	09 16.00	-5.7X
GYA	27.67	256	iPd	09 32.00	-1.3
	1.2s		300.00nm		5.8mb
			PP	10 39.00	
			PcP	12 42.80	
			S	13 52.80	
			SS	15 46.00	
			ScP	15 58.80	
			PcS	16 24.00	
			ScS	19 50.00	
CD2	28.05	267	P	09 35.00	-1.5
	0.8s		100.00nm		5.5mb
	N 12s		0.10um		
GTA	29.08	286	iPd	09 44.20	-1.4
	0.8s		100.00nm		5.5mb
			PP	10 55.00	
			PcP	12 46.80	
			S	14 13.00	
			ScP	16 03.40	
			SS	16 16.00	
			ScS	19 56.00	
QIZ	29.71	240	Pd	09 52.00	0.8
	N 11s		0.90um		
			eS	14 31.00	
KMI	31.40	258	Pd	10 05.00	-1.1
	1.0s		250.00nm		5.8mb
	Z 14s		0.80um		4.5MszX
			PP	11 23.00	
ADK	35.65	50	iPc	10 40.00	-1.7
KKM	36.18	216	ePd	10 48.50	1.8
	1.0s		318.60nm		5.8mb
			e	10 53.00	15kmX
LOE	36.59	247	iPc	10 49.00	-1.0
TSM	36.96	212	ePd	10 54.30	1.3
	1.0s		1373.10nm		6.4mb X
MNI	37.14	200	eP	10 55.20	0.6
WMQ	37.58	296	iPd	10 58.00	-0.2
			pP	11 55.80	286kmX
			PP	12 36.50	
			S	16 26.00	
			SS	19 12.00	
			ScS	20 39.00	
CHG	37.82	252	ePd	11 00.40	0.1
	1.0s		57.50nm		5.0mb
			eS	16 32.00	
LSA	38.59	273	P	11 07.00	-0.1
BOT	38.72	250	eP	11 08.00	0.3
	0.7s		38.70nm		5.0mb
GUN	43.54	273	Pd	11 47.60	0.3
PKI	44.06	273	Pd	11 51.40	0.0
DMN	44.29	273	Pd	11 53.30	0.2

SNG	44.40	237	eP	11	54.60	0.9	NUR	68.18	330	iP	14	40.00	-0.7				eS	25	20.80				
	1.1s	387.34nm			5.6mb			0.7s	64.10nm			5.5mb		SYP	79.14	55	eP	15	45.00	0.7
			eS	18	11.00					i	15	43.30	275km				e	16	47.00	262km
SDN	45.36	45	iPc	11	58.70	-2.1	TAB	68.76	302	eP	14	45.00	0.2	BURJ	79.14	302	Pc	15	44.20	-0.1
IPM	46.06	234	ePd	12	08.40	1.5	MRWA	68.78	200	eP	14	44.40	-0.3	BZS	79.18	320	eP	15	44.00	0.0
	0.9s	207.80nm			5.5mb		PGC	68.90	44	eP	14	45.00	-0.2	MDSJ	79.20	301	Pd	15	44.70	0.1
KGM	46.59	230	ePd	12	12.10	1.1	COOL	69.18	194	eP	14	46.00	-1.1	CLL	79.21	328	iPd	15	44.30	0.2
KSH	47.08	293	P	12	16.50	1.8	GMW	69.87	45	P	14	51.50	0.3		1.3s	145.00nm			5.6mb	
			PcP	13	44.00		BAL	69.92	198	eP	14	51.00	-0.6				ipP	16	47.00	265km
			S	18	49.00		8MW	70.20	46	P	14	53.20	-0.1				eS	25	19.00	
PMG	47.22	166	eP	12	15.50	-0.2	RMW	70.47	45	P	14	55.00	0.0	CSTJ	79.22	301	Pc	15	44.80	0.1
TTA	47.47	35	iPc	12	17.50	0.2	KLB	70.60	197	eP	14	55.00	-0.6	SRO	79.31	323	iPd	15	45.20	0.5
SVW	47.68	37	iPc	12	19.40	0.5	PNT	70.64	42	ePc	14	55.00	-0.9				i	16	50.90	279kmX
IMA	48.51	31	iPc	12	25.00	-0.3		1.0s	48.00nm			5.2mb		BCK	79.35	309	eP	15	45.30	0.0
	1.3s	115.60nm			5.1mb		LON	70.86	46	P	14	56.90	-0.4	SALJ	79.36	302	Pc	15	45.40	0.0
PSI	48.85	235	eP	12	28.00	-0.3	UPP	71.29	332	iP	14	58.60	-0.8	ISA	79.42	53	eP	15	45.00	-0.7
	0.8s	127.70nm			5.4mb		MUN	71.35	198	eP	15	00.00	-0.1	KFNJ	79.46	302	Pd	15	46.00	0.2
8SI	49.25	241	iPc	12	30.50	-0.9	EDM	71.53	37	iPd	15	01.00	-0.1	KHL	79.46	310	eP	15	46.20	0.3
KDC	49.55	42	iPc	12	32.30	-0.8	BWA	71.93	170	eP	15	04.80	1.3	PRU	79.51	326	Pd	15	46.30	0.5
MTN	49.93	187	iPd	12	36.60	0.2	VGB	72.15	46	P	15	05.00	0.1		1.1s	53.50nm			5.2mb	
TRT	49.98	212	iPc	12	35.10	-1.8	DHR	72.22	290	iPd	15	04.90	-0.6				e	15	51.50	17kmX
NDI	50.09	279	iPd	12	37.70	0.0	DPW	72.24	43	P	15	05.10	-0.3	ZST	79.62	324	iP	15	47.50	1.1
	1.0s	350.00nm			5.7mb		HFS	72.52	334	eP	15	05.90	-0.8				e	16	49.90	263km
PPI	50.33	231	ePc	12	39.80	0.3		0.5s	38.30nm			5.4mb		MKRJ	79.67	302	Pc	15	47.00	-0.1
	1.2s	169.30nm			5.3mb		NEW	72.60	42	P	15	06.50	-0.9	DSI	79.84	302	iPd	15	48.70	0.9
PMR	50.76	36	iPc	12	41.20	-1.1		1.2s	82.20nm			5.3mb		KMSA	79.84	288	iPd	15	48.00	-0.1
	1.2s	273.40nm			5.5mb					pP	16	09.00	269km	CLC	79.89	53	eP	15	47.00	-1.1
FBA	51.01	32	iPc	12	43.80	-0.3	NB2	72.71	336	P	15	07.20	-0.6				e	16	51.00	270km
TOA	52.08	36	iPc	12	52.10	-0.1		0.5s	10.90nm			4.8mb		VKA	79.94	324	iPd	15	49.10	1.0
MID	52.46	39	ePc	12	55.50	0.7	CAN	72.89	170	eP	15	09.80	0.8		1.5s	112.00nm			5.4mb	
KNA	53.08	190	eP	12	59.70	-0.1	FHC	72.89	52	ePc	15	10.30	1.1				e	16	08.50	71kmX
HYB	54.58	266	iPd	13	10.50	-0.4				epP	16	13.40	272km	LISJ	79.97	301	Pc	15	49.10	0.7
	1.0s	510.00nm			6.0mb		KVT	73.79	309	iP	15	15.60	1.2	BW06	80.18	43	P	15	49.50	-0.3
			eS	20	32.00		WDC	73.92	51	ePc	15	15.20	0.1		1.0s	31.00nm			5.0mb	
INK	56.00	27	iPc	13	19.70	-0.6				epP	16	17.70	268km				pP	16	53.40	270km
	0.7s	68.00nm			5.3mb		KAS	75.02	311	iPd	15	22.20	0.7	ELL	80.22	309	iP	15	50.00	0.1
			pP	14	15.00	249kmX	IAS	75.03	318	eP	15	19.00	-2.3	SOP	80.24	324	iPd	15	51.40	1.7
WB5	56.68	183	iPd	13	25.00	-0.5	ORV	75.17	52	eP	15	21.80	-0.4	MQX	80.29	328	iPd	15	50.50	0.6
			eS	20	55.50		FFC	75.59	31	iPc	15	23.70	-0.6		1.2s	51.00nm			5.2mb	
WRA	56.75	183	Pc	13	25.60	-0.4		0.7s	38.00nm			5.2mb		BEO	80.32	320	i(P)	15	50.20	0.1
	0.8s	69.10nm			5.3mb		PPE	75.61	317	ePd	15	24.50	-0.1	HOF	80.43	328	iPd	15	51.20	0.6
QIS	57.36	177	eP	13	29.30	-1.0	BRK	75.67	53	ePc	15	25.20	0.2		1.0s	67.00nm			5.4mb	
	0.6s	40.00nm			5.2mb		RYD	75.75	290	iPd	15	25.50	-0.3	SBB	80.44	54	eP	15	47.00	-4.0X
			eScP	17	55.30		AKU	75.76	350	eP	15	27.40	2.4				e	16	51.00	270km
			eS	21	05.20			1.1s	30.38nm			4.9mb		PAS	80.55	54	eP	15	52.00	0.5
QUE	57.46	285	iPd	13	30.80	-0.5	PCC	75.81	54	ePc	15	25.90	0.1	KHC	80.56	326	iPd	15	52.00	0.6
			ePP	14	21.30		MJMA	76.10	292	iPd	15	27.40	-0.3		1.0s	39.00nm			5.1mb	
			eS	21	07.00		VRI	76.31	318	ePc	15	30.00	1.5				e	16	58.50	282kmX
			eSS	22	31.00		GCC	76.33	54	ePc	15	28.80	0.1	MWC	80.58	54	eP	15	51.00	-0.9
MBC	57.52	16	iPc	13	29.70	-1.1	MHC	76.38	53	eP	15	29.70	0.5				e	16	55.00	270km
	0.6s	91.00nm			5.5mb		TL8	76.40	316	ePd	15	28.50	-0.4	WIT	80.60	332	eP	15	52.50	1.1
CTA	57.52	170	iPc	13	30.90	-0.5	LRM	76.62	42	eP	15	30.80	0.3	GSC	80.71	53	eP	15	52.00	-0.5
	1.3s	76.92nm			5.1mb		CMB	76.77	52	ePc	15	31.30	0.1				e	16	55.00	265km
			iS	21	12.00					epP	16	31.30	255kmX	IZM	80.79	311	iP	15	53.30	0.6
GBA	57.61	263	Pd	13	31.70	-0.5	SAO	76.84	54	eP	15	31.30	-0.3	KSL	80.82	308	eP	15	52.10	-0.7
	0.8s	206.20nm			5.8mb		MLR	76.97	318	iPd	15	32.00	-0.3	WET	80.86	327	eP	15	53.60	0.7
POO	57.74	270	iPd	13	32.00	-1.2	KRA	76.99	324	iPd	15	32.50	0.4		1.2s	67.00nm			5.3mb	
	0.9s	331.09nm			5.9mb			1.0s	155.00nm			5.7mb		YER	80.98	310	iP	15	54.40	0.6
SIT	58.71	40	iPc	13	39.80	0.5				e	15	41.40	28kmX	SRS	81.13	315	ePd	15	54.60	0.2
KOD	59.56	259	iP	13	46.00	0.0	PRS	77.15	54	ePc	15	33.90	0.6	RVR	81.17	54	eP	15	55.00	0.3
	0.8s	171.64nm			5.7mb					epP	16	36.90	268km	GRF	81.17	328	iPd	15	55.60	1.1
MBL	60.10	198	iPd	13	48.60	-0.4	LLA	77.26	54	eP	15	34.10	0.2		1.1s	146.00nm			5.7mb	
	0.4s	13.00nm			4.9mb		SPC	77.43	323	iPd	15	35.70	0.9	WTS	81.19	331	eP	15	54.50	0.1
MAIO	60.34	295	iPd-	13	51.20	0.4				e	16	38.00	265km		0.9s	29.00nm			5.0mb	
			eS	21	48.00		FRB	77.52	11	eP	15	34.00	-0.7	MBH	81.27	301	iPd	15	56.00	0.7
KEV	62.10	338	eP	13	56.00	-5.9X		0.7s	61.00nm			5.4mb		PEC	81.37	54	P	15	55.80	0.0
			i	14	34.60	163kmX	KVN	77.58	50	P	15	36.00	0.2	HOL	81.45	300	iPd	15	57.10	0.8
NANU	62.63	202	eP	14	05.90	0.1	PRI	77.72	54	ePc	15	37.30	0.7	SMG	81.49	311	eP	15	56.90	0.6
	0.5s	13.00nm			4.9mb		TNR	77.76	319	ePd	15	37.00	0.5	MSU	81.50	48	P	15	57.70	1.0
SOD	63.50	336	iP	14	10.60	-0.5	FRI	77.82	53	ePc	15	36.80	-0.1				pP	17	01.30	267km
			i	14	20.00	30kmX				epP	16	39.00	264km	VAY	81.57	316	iPd	15	57.20	0.5
			e	15	14.00		KSP	78.11	326	iPd	15	38.80	0.5	SKO	81.75	317	iPd	15	58.50	0.9
WARB	63.64	190	iPd	14	12.90	0.5		1.1s	108.00nm			5.5mb			1.6s	161.00nm			5.5mb	
	0.4s	9.00nm			4.8mb					e	16	41.00	263km				i	16	04.70	20kmX
OLP	63.68	173	eP	14	12.00	-0.6	YLV	78.15	312	iP	15	38.60	-0.2				i	17	04.20	
RMO	64.19	168	iPc	14	16.50	0.6	HRI	78.57	303	iPd	15	41.50	0.3				iS	25	48.00	
	0.7s	56.00nm			5.4mb		ALT	78.65	311	eP	15	41.50	0.0	PTJ	81.81	323	eP	15	58.00	0.0
DZM	65.09	150	iPc	14	22.60	0.8	BCH	78.67	54	P	15	42.50	0.8	RSON	81.82	30	P	15	56.80	-1.0
YKA	65.57	29	eP	14	22.40	-2.0	TNP	78.72	51	P	15	42.50	0.4		1.2s	65.60nm			5.3mb	
	0.9s	21.80nm			4.9mb					pP	16	45.70	268km	EKA	81.83	338	P	15	58.00	0.2
MEKA	65.65	198	eP	14	24.50	-0.7	LFK	78.82	306	iP	15	42.00	-0.4		1.1s	22.10nm			4.8mb	
BRS	65.83	165	iP	14	27.00	0.6	HL8J	78.90	302	P	15	43.20	0.2	PLM	81.90	54	eP	15	59.00	0.2
SUF	66.29	332	iP	14	28.50	-0.5	JARJ	79.05	302	Pd	15	43.80	0.0	BHG	81.92	326	iPd	15	59.50	1.1
	0.7s	52.80nm			5.4mb		8RG	79.12	327	iPd	15	44.00	0.3		1.2s	163.00nm			5.7mb	
TEH	66.42	298	eP	14	30.00	-0.4		1.2s	54.00nm			5.2mb		TNS	81.92	329	ePd	15	58.60	0.2
FQRR	68.05	188	eP	14	40.00	-0.1				iPcP	15	53.40		8ADA	81.94	300	iPd	15	59.70	0.9
	0.4s	24.00nm			5.3mb					ipP	16	09.30	97kmX	TPC	81.95	53	eP	15	59.00	0.1

17d 01h

		e	17 01.00	260km		
RSSD	82.17	39 P	16 00.00	-0.1		
		pP	17 04.50	271km		
WAJH	82.27	297 iPd	16 01.30	0.8		
FUR	82.30	327 eP	16 00.50	0.1		
	1.0s	102.00nm		5.5mb		
LJU	82.39	324 eP	16 00.60	-0.3		
VBY	82.44	323 eP	16 01.60	0.5		
LIT	82.44	315 ePd	16 01.10	-0.1		
BAR	82.45	55 eP	16 02.00	0.6		
ENN	82.50	331 eP	16 01.00	-0.3		
	1.0s	58.00nm		5.3mb		
		e	17 15.00	316kmX		
NEO	82.56	314 eP	16 01.60	-0.3		
MEM	82.59	331 iPd	16 01.76	0.0		
		e	17 05.50	268km		
FNA	82.59	316 ePd	16 01.40	-0.7		
CEY	82.66	323 eP	16 02.40	0.1		
OHR	82.69	317 iPd	16 03.00	0.5		
	1.1s	217.00nm		5.8mb		
		i	16 13.30	33kmX		
		e	16 32.70			
		eS	25 55.00			
VOY	82.70	324 eP	16 02.10	-0.5		
FVI	82.80	325 P	16 02.50	-0.4		
RIY	82.97	323 eP	16 03.20	-0.6		
TRI	83.00	324 iPd	16 03.20	-0.7		
		i	17 08.00	272km		
SQTA	83.05	326 iPd	16 04.40	0.1		
	1.2s	37.10nm		5.0mb		
		i	16 13.20	28kmX		
		i	17 08.00			
ATH	83.17	313 eP	16 04.00	-0.9		
SNF	83.33	332 iP	16 05.80	0.3		
OGA	83.39	326 iPd	16 06.50	0.3		
	1.3s	74.00nm		5.3mb		
GLA	83.40	53 eP	16 07.00	0.7		
		e	17 09.00	259km		
HVAR	83.53	321 iPd	16 06.30	-0.3		
DOU	83.55	331 P	16 06.80	0.2		
		e	17 10.20	266km		
		SKS	26 06.00			
HLW	83.62	303 eP	16 08.00	0.7		
CTI	83.73	325 Pd	16 07.00	-0.8		
SLE	83.81	328 ePd	16 08.00	0.0		
CDF	83.82	329 iPd	16 08.50	0.4		
	1.0s	48.00nm		5.3mb		
SAX	83.84	327 ePd	16 08.70	0.2		
OSS	83.93	326 ePd	16 09.30	0.5		
ZLA	84.08	328 ePd	16 09.20	-0.2		
KEK	84.21	316 eP	16 10.40	0.3		
LLS	84.29	327 ePd	16 10.90	0.2		
VDL	84.38	327 ePd	16 11.40	0.3		
VLI	84.47	312 P	16 10.20	-1.3		
BSF	84.47	329 iPd	16 11.30	-0.1		
	1.0s	18.00nm		4.9mb		
SAL	84.58	325 P	16 11.60	-0.2		
GOL	84.58	43 P	16 12.20	-0.2		
	1.1s	35.26nm		5.1mb		
		pP	17 17.30	273km		
GLD	84.63	43 P	16 13.40	0.9		
	1.4s	85.81nm		5.4mb		
ITM	84.75	313 eP	16 12.10	-0.8		
LCI	84.77	318 Pc	16 13.00	0.1		
BRT	84.79	319 P	16 13.30	0.3		
MDI	84.82	326 P	16 12.00	-1.0		
VLS	84.83	315 eP	16 13.40	0.1		
TMA	84.93	327 ePd	16 13.70	-0.2		
ARV	85.03	323 Pd	16 15.00	0.8		
VAI	85.16	327 Pd	16 14.30	-0.4		
SFI	85.24	324 P	16 16.60	1.5		
MMK	85.37	327 ePd	16 16.30	0.2		
CRE	85.41	323 P	16 17.50	1.3		
ASS	85.49	323 P	16 18.50	2.0		
DIX	85.59	327 ePd	16 17.20	0.0		
DUI	85.64	321 Pc	16 17.60	0.3		
AQU	85.66	322 P	16 18.40	1.0		
ORX	85.69	327 P	16 16.41	-1.1		
ORO	85.70	327 P	16 20.00	2.4		
BOB	85.71	325 P	16 17.80	0.2		
BDI	85.72	324 P	16 17.30	-0.4		
ORI	85.77	318 P	16 18.50	0.6		
EMS	85.81	328 ePd	16 18.20	0.0		
AZI	85.91	321 P	16 19.00	0.5		
SDI	85.93	321 Pd	16 18.50	-0.2		
MNS	85.99	322 P	16 18.50	-0.5		
SGO	86.01	319 P	16 18.50	-0.5		
PII	86.02	324 P	16 18.50	-0.5		
BSS	86.10	320 P	16 19.00	-0.5		
LOR	86.12	330 eP	16 19.30	-0.2		
	0.8s	24.20nm		5.1mb		
TDS	86.12	318 P	16 20.20	0.6		
LSD	86.19	327 P	16 20.00	-0.2		
SCH	86.26	13 ePc	16 20.80	0.8		
	0.8s	32.00nm		5.2mb		
PCP	86.29	326 P	16 19.38	-1.0		
LBF	86.30	330 iPd	16 20.10	-0.3		
	0.8s	14.10nm		4.9mb		
LPL	86.33	327 iPd	16 21.00	0.2		
	1.0s	24.00nm		5.0mb		
LPG	86.33	327 iPd	16 21.00	0.1		
	1.0s	25.00nm		5.0mb		
RSP	86.39	327 P	16 20.00	-0.9		
SSF	86.43	330 iPd	16 20.80	-0.1		
	1.0s	28.00nm		5.1mb		
RDP	86.44	322 P	16 20.90	-0.3		
CKI	86.50	326 Pd	16 20.50	-0.8		
FLN	86.53	333 iPd	16 21.10	-0.3		
	1.0s	40.00nm		5.2mb		
LDF	86.54	333 iPd	16 21.30	-0.1		
	1.0s	36.00nm		5.2mb		
SMF	86.63	330 iPd	16 21.90	0.0		
	1.2s	28.25nm		5.0mb		
FIN	86.70	326 P	16 20.92	-1.4		
AVF	86.71	330 iPd	16 22.30	0.0		
	1.0s	34.00nm		5.2mb		
BNI	86.72	327 P	16 22.40	-0.2		
RRL	86.78	327 P	16 22.56	-0.4		
ROB	86.79	326 P	16 21.13	-1.7		
PZZ	86.97	327 P	16 21.84	-1.9		
GRR	86.98	333 iPd	16 23.70	0.2		
	1.0s	68.00nm		5.5mb		
ENR	87.04	326 P	16 21.64	-2.4		
IMI	87.08	326 P	16 23.07	-1.1		
BGF	87.10	330 eP	16 24.00	-0.2		
	0.7s	5.50nm		4.5mb		
AUTN	87.22	326 P	16 24.24	-0.9		
TDUF	87.29	326 P	16 24.39	-1.0		
ANMO	87.29	47 P	16 26.20	0.7		
	1.1s	26.90nm		5.0mb		
		pP	17 30.30	267km		
ALQ	87.29	47 ePc	16 26.20	0.6		
	1.0s	19.75nm		4.9mb		
		epP	17 30.00	265km		
LPF	87.35	333 iPd	16 25.70	0.4		
	1.0s	48.00nm		5.3mb		
AURF	87.35	326 P	16 24.89	-0.7		
MVIF	87.42	326 P	16 25.28	-0.7		
REVF	87.45	326 P	16 25.21	-0.8		
MAF	87.49	330 iPd	16 26.40	0.3		
	1.0s	26.00nm		5.0mb		
PMO	87.55	111 iP	16 28.70	2.1		
	0.8s	30.00nm		5.2mb		
TCF	87.57	330 iPd	16 26.60	0.1		
	0.6s	5.40nm		4.6mb		
PGF	87.63	324 P	16 26.55	-0.4		
CALN	87.65	326 P	16 26.43	-0.6		
TPT	87.74	111 iP	16 29.50	2.0		
	0.8s	30.00nm		5.2mb		
LSF	87.87	331 iPd	16 28.00	0.1		
	0.6s	9.00nm		4.8mb		
FRF	87.91	326 iPd	16 27.40	-0.7		
	1.0s	22.00nm		5.0mb		
RUV	88.05	111 iP	16 30.70	1.7		
	0.8s	25.00nm		5.1mb		
LRG	88.12	326 iPd	16 28.80	-0.3		
	0.8s	29.55nm		5.2mb		
LMR	88.15	326 iPd	16 28.90	-0.4		
	1.0s	30.00nm		5.1mb		
MFF	88.22	332 iPd	16 29.70	0.2		
	1.1s	34.20nm		5.1mb		
RJF	88.66	330 iPd	16 32.00	0.4		
	0.8s	8.05nm		4.7mb		
CAF	88.75	330 iPd	16 32.80	0.7		
	0.8s	12.75nm		4.9mb		
LFF	89.27	331 iPd	16 35.20	0.7		
	0.8s	28.20nm		5.2mb		
LPO	89.30	330 iPd	16 35.20	0.5		
	0.8s	16.10nm		5.0mb		
EPF	91.02	330 iPd	16 42.60	0.0		
	1.0s	18.00nm		5.0mb		
MEO	91.86	43 iPd	16 47.80	1.2		
CBM	93.43	17 P	16 53.80	0.2		
RSNY	93.94	22 P	16 56.10	0.1		
	0.8s	10.68nm		5.0mb		
WVLY	94.50	25 P	16 59.10	0.4		
HBVT	94.54	21 P	17 00.00	1.2		
BNH	94.83	20 P	17 01.20	1.0		
OLY	94.98	38 P	17 01.40	0.4		
		pP	18 05.00	262km		
TOL	95.43	331 eP	17 03.00	0.0		
RSCP	97.66	34 P	17 12.70	-0.4		
	0.9s	27.42nm		5.6mb		
NAV	98.20	29 P	17 15.40	-0.1		
GBTN	98.20	33 P	17 15.40	-0.1		
TKL	98.39	32 P	17 16.40	0.0		
BCAO	109.43	291 ePKPd	22 13.90	5.8X		
	0.8s	21.00nm				
		id	22 42.90			
KRI	113.58	266 iPKPd	22 13.00	-3.1X		
		ipPKP	23 22.10			
PRY	120.50	258 ePKP	22 25.00	-4.1X		
BLF	122.53	256 iPKPc	22 32.30	-0.6		
TIC	123.81	312 PKP	22 35.08	-0.5		
KIC	123.87	312 PKP	22 35.06	-0.6		
	0.6s	17.50nm				
LIC	124.15	312 PKPd	22 35.56	-0.7		
SPA	126.87	180 iPKPc	22 39.10	-1.0		
	1.1s	26.19nm				
CER	129.68	255 e(PKP)	22 51.00	4.7X		
	1.1s	62.16nm				
		i	25 23.50			
TUH	129.76	255 ePKP	22 46.00	-0.5		
	1.5s	111.11nm				
		i	25 44.00			
ARE	147.60	58 ePKP	23 21.00	1.6		
ZOBO	149.70	54 PKP	23 24.00	1.0		
CCH	151.79	52 PKP	23 33.90	8.1X		
		i	23 43.90			
SIV	153.66	42 PKP	23 28.50	0.4		

S.D. = 0.8 on 340 of 349 obs.

? MAY 17, 1990 01h 10m 53.53± 5.88s
51.314 N ±28.7km 15.792 E ±40.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.5 (GRF), 3.3 (VIE).

BRG	1.24	250 iPn	11 16.40	-0.2	
		iPg	11 17.70		
		iSg	11 37.70		
PRU	1.55	211 ePn	11 21.00	-0.2	
		Pg	11 22.50		
		Sn	11 38.80		
		Sg	11 45.50		
CLL	1.75	271 iPn	11 23.50	-0.6	
		iPg	11 27.00		
		iSg	11 54.00		
KHC	2.61	214 Pn	11 36.40	-0.1	
		Pg	11 42.00		
		Sg	12 18.00		
MOX	2.72	257 ePn	11 39.00	0.9	
		iPg	11 47.00		
		iSg	12 26.00		
WET	2.87	222 iPnc	11 39.90	-0.2	
VKA	3.07	173 iPgc	11 48.50	5.5X	
		iSg	12 31.40		
		i	12 33.00		
GRF	3.34	243 ePn	11 46.70	-0.1	
		ePg	11 59.90		
		eSg	12 45.40		

S.D. = 0.6 on 7 of 8 obs.

% MAY 17, 1990 01h 30m 35.60± 2.58s
35.826 N ±20.0km 25.830 E ±19.0km
DEPTH = 10.0km (geophysicist)
CRETE (370)

APE	1.26	349 ePn	30 58.70	-0.4	
VAM	1.39	253 ePn	31 00.80	-0.2	
SMG	2.05	23 ePn	31 10.60	0.2	
VLI	2.50	292 ePn	31 16.00	-1.0	
ITM	3.42	294 ePn	31 31.50	1.4	

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

? MAY 17, 1990 03h 04m 56.11±13.66s
45.863 N ±34.8km 16.165 E ±103.km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.4 (ZAG). Felt at Zelina.

ZAG	0.14	250	iPgd	04 59.20	-0.1
			iSg	05 03.30	
PTJ	0.15	284	iPgd	04 58.50	-1.1
			eSg	05 01.90	
LJU	1.15	280	e(Pg)	05 18.00	0.3
			eSg	05 34.40	
VOY	1.59	277	ePn	05 25.20	0.7
			eSn	05 50.70	

S.D. = 1.4 on 4 of 4 obs.

---

* MAY 17, 1990 03h 29m 50.63± 2.31s
51.065 N ±23.4km 15.913 E ±12.6km
DEPTH = 5.0km (geophysicist)
POLAND (548)

KSP	0.33	133	iPd	29 57.00	-0.2
			iS	30 05.50	
			e	30 11.00	
BRG	1.26	262	iPg	30 13.20	-1.2
			iSg	30 33.40	
PRU	1.39	220	ePg	30 18.00	1.4
			e	30 22.00	
			eSn	30 34.50	
			Sg	30 41.50	
CLL	1.85	279	(Pg)	30 24.00	0.8
			eSg	30 51.00	
KHC	2.45	219	ePn	30 31.30	-0.7
			Pg	30 38.00	
			eSg	31 05.00	
MOX	2.76	263	ePg	30 42.00	5.7X
			eSg	31 23.00	

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

? MAY 17, 1990 04h 15m 55.45± 1.44s
29.530 S ±33.5km 177.841 W ±24.8km
DEPTH = 33.0km (normal)
5.3mb (3 obs.)
KERMADEC ISLANDS (178)

CAN	28.50	250	eP	21 49.20	-0.6
BWA	28.95	252	eP	21 44.90	-9.1X
CTA	33.81	278	iPc	22 39.00	2.3
	0.8s		44.78nm	5.4mb	
WRA	44.21	271	Pc	24 02.50	-0.9
	0.3s		6.30nm	4.9mb	
WB5	44.21	271	eP	24 02.60	-0.8
SPA	60.64	180	eP	26 05.90	0.5
	0.8s		20.83nm	5.3mb	
SUF	143.33	342	iPKP	35 25.60	-1.7
	0.4s		2.30nm		
NUR	145.54	340	iPKP	35 32.40	1.3
	0.6s		11.70nm		
			i	35 37.20	
NB2	147.91	352	PKP	35 38.50	3.4X
	0.9s		4.70nm		
HFS	148.42	349	ePKP	35 39.80	4.0X
	0.4s		2.10nm		
BCAO	150.62	215	iPKPc	35 44.20	3.6X
	0.6s		6.00nm		

S.D. = 1.7 on 7 of 11 obs.

MAY 17, 1990 04h 45m 32.56± 0.64s
44.375 N ± 4.3km 6.831 E ± 5.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (GEN), 2.0 (LDG).

PZZ	0.23	56	P	45 38.19	0.6
			S	45 41.98	
STV	0.38	110	P	45 40.24	-0.1
			S	45 45.36	
ENR	0.45	109	P	45 41.51	-0.2
			S	45 47.01	
RRL	0.55	357	P	45 43.42	-0.2
			S	45 50.08	
SBF	0.67	139	Pg	45 45.60	-0.4
			Sg	45 54.80	
RO8	0.75	96	P	45 47.42	0.1
			S	45 56.54	
FRF	0.83	189	Pg	45 48.00	-0.5
			Sg	45 59.20	
IMI	0.89	121	P	45 49.57	-0.2
			S	45 59.51	
LRG	0.98	200	Pg	45 51.70	0.5
			Sg	46 05.00	
LMR	1.07	193	Pg	45 52.80	0.2
			Sg	46 07.00	

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

& MAY 17, 1990 06h 02m 57.67s
59.691 N 138.993 W
DEPTH = 5.9km
4.0mb (3 obs.)
SOUTHEASTERN ALASKA (19)
<AGS-P>. ML 4.2 (PMR). Felt (IV) at Yakutat.

HON	0.25	166	iP	03 03.02	0.3
			iS	03 06.80	
YKU	0.40	250	iPd	03 05.90	0.2
BCPM	0.42	309	iP	03 06.28	0.2
PCA	0.76	303	iP	03 11.70	-1.1
HYT	1.36	32	Pc	03 24.20	1.0
YAH	1.54	297	iP	03 24.40	-1.5
			eS	03 44.04	
SIT	3.27	142	iPd	03 46.10	-4.4
VLZ	3.92	295	eP	03 57.86	-1.7
			eS	04 46.70	
VZW	4.00	293	eP	03 57.84	-3.0
			eS	04 43.25	
GLI	4.21	290	eP	04 00.55	-3.2
TOA	4.26	308	iPc	04 03.80	-0.8
DWY	4.38	357	Pc	04 05.40	-0.9
NCA	4.47	304	eP	04 06.01	-1.6
			eS	04 56.42	
PAX	4.53	319	eP	04 07.38	-1.1
SML	5.05	299	eP	04 12.86	-2.9
SEW	5.28	279	eP	04 14.13	-4.8
GHO	5.30	297	eP	04 17.38	-2.0
PMR	5.34	295	iPc	04 18.20	-1.6
PMS	5.46	291	iPd	04 19.30	-2.2
SLKM	5.68	283	eP	04 19.23	-5.4
PWA	5.70	295	iP	04 24.00	-0.9
RND	6.01	313	eP	04 28.57	-0.7
SUA	6.06	292	eP	04 26.88	-3.2
CUT	6.11	301	eP	04 29.30	-1.4
NKA	6.19	285	eP	04 30.73	-1.1
NNL	6.21	279	eP	04 27.95	-4.1
CNPM	6.22	274	eP	04 28.52	-3.7
SKT	6.54	296	eP	04 33.63	-3.2
SPU	6.64	289	eP	04 34.21	-3.9
FBA	6.64	326	eP	04 36.70	-1.5
CRP	6.70	289	eP	04 34.93	-4.2
RDT	6.76	283	eP	04 34.60	-5.3
KTH	6.88	309	eP	04 38.64	-2.9
RED	6.94	282	eP	04 37.48	-4.9
KDC	7.29	260	iPc	04 42.40	-4.9
CDD	7.54	271	eP	04 46.26	-4.5
MCNL	7.84	273	eP	04 50.40	-4.6
SVW	8.35	287	ePc	04 57.30	-4.9
TTA	8.80	299	iPc	05 04.20	-4.2
INK	8.97	13	P	05 08.00	-2.6
IMA	9.25	320	iPc	05 12.90	-1.7
YKA	12.10	66	eP	05 50.20	-3.2
	0.7s		3.60nm	4.8mb X	
SDN	12.33	259	iPc	05 52.80	-3.7
PNT	15.25	124	eP	06 40.00	5.0
EDM	15.52	103	eP	06 37.00	-1.5
MBC	17.99	15	eP	07 08.00	-1.5
	1.0s		8.00nm	3.8mb	
SES	18.39	108	eP	07 22.00	7.3
FFC	20.46	88	eP	07 36.00	-2.2
	1.0s		12.00nm	4.2mb	
LRM	21.03	119	eP	07 45.70	1.1
ALO	32.58	125	eP	09 30.00	-1.9
	1.0s		1.75nm	3.9mb	
KHC	69.26	19	eP	14 05.50	-1.6
	51 obs. associated				

---

* MAY 17, 1990 06h 09m 09.99± 1.02s
1.186 N ±15.2km 124.106 E ±11.5km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)
MINAHASSA PENINSULA (265)

MNI	0.78	71	ePd	09 24.50	0.0
			eS	09 37.00	
WB5	23.23	155	eP	14 14.80	-0.5
WRA	23.27	155	Pc	14 16.50	0.7
	0.6s		6.80nm	4.3mb	
PSI	25.21	274	ePc	14 34.50	0.0
QIS	26.41	146	eP	14 45.40	-0.2

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

MAY 17, 1990 06h 44m 24.56± 0.49s
39.831 N ± 4.5km 22.348 E ± 4.8km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.4 (ATH). ML 3.2 (THE).

LIT	0.29	22	ePg	44 30.10	-0.3
			eSg	44 36.10	
AGG	0.81	181	ePg	44 39.20	-1.5
			eSg	44 52.00	
NEO	0.86	127	ePb	44 41.20	-0.3
THE	0.93	30	ePg	44 41.50	-1.2
			eSg	44 57.40	
PAIG	1.03	84	ePb	44 45.40	0.9
			eSb	45 00.40	
GRG	1.13	2	ePb	44 45.00	-1.1
			eSb	45 03.70	
FNA	1.21	322	ePb	44 46.20	-1.4
			eSb	45 04.40	
SOH	1.25	38	ePb	44 48.60	0.3
			eSb	45 08.00	
OUR	1.35	68	ePb	44 50.90	1.0
			eSb	45 10.10	
KNT	1.39	17	ePb	44 50.40	-0.3
			eSb	45 09.70	
VAY	1.50	6	ePn	44 52.60	0.5
IGT	1.58	260	ePb	44 53.80	0.5
SRS	1.60	36	ePb	44 53.30	-0.2
			eSb	45 16.90	
OHR	1.74	318	ePn	44 55.70	0.0
	0.8s		102.00nm		
			eSg	45 22.00	
KEK	1.97	267	ePn	44 59.50	0.6
VLS	2.15	220	ePn	45 02.10	0.6
SKO	2.25	342	ePn	45 05.00	2.0
			i	45 08.30	
			eSn	45 36.00	
			iSg	45 39.00	
MLR	6.25	24	eP	46 03.00	3.3X

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

? MAY 17, 1990 07h 18m 08.37±20.01s
34.580 S ±139.km 71.974 W ±92.0km
DEPTH = 60.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNV	0.78	37	iPc	18 21.50	-2.2
			iS	18 38.00	
LCCH	1.15	17	eP	18 27.50	-1.1
			iS	18 48.00	
TACH	1.26	43	eP	18 29.00	-1.1
			iS	18 54.10	
CHCH	1.27	60	iPc	18 30.50	0.2
			iS	18 53.50	
PCH	1.54	52	iPc	18 34.50	0.4
			iS	19 01.00	
SAN	1.57	44	ePc	18 35.00	0.7
			iS	19 01.50	
IHA	1.58	10	eP	18 36.00	1.6
			iS	19 03.30	
PEL	1.79	37	iPd	18 38.10	0.6
			iS	19 08.00	
FCH	1.88	49	iPd	18 39.90	1.0
			iS	19 11.00	
RTBS	3.60	37	e(P)	19 09.00	6.1X
			(S)	20 07.00	
RTCV	3.96	48	e(P)	19 11.00	3.0X
CFA	4.31	48	eP	19 13.00	0.0

S.D. = 1.3 on 10 of 12 obs.

% MAY 17, 1990 08h 35m 31.96± 1.77s
41.401 N ±12.4km 29.297 E ±11.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.38	208	ePg	35 39.80	0.0
GBZT	0.62	170	eP	35 44.00	-0.5
HRT	0.64	154	ePg	35 45.30	0.4
CTT	0.70	249	iPg	35 46.00	0.2
YLV	0.84	176	ePg	35 48.10	-0.1
DMK	1.23	291	ePn	35 54.70	-0.1

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

% MAY 17, 1990 08h 36m 14.85± 1.88s
41.406 N ±12.9km 29.293 E ±12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

17d 08h

ISK	0.38	207	ePg	36	22.80	0.1	NKY	5.02	332	ePn	45	20.90	0.7				e	49	25.00				
HRT	0.65	154	ePg	36	27.80	-0.1				eSn	46	35.00		MDI	11.82	312	P	46	52.50	-1.8			
CTT	0.70	249	ePg	36	28.50	-0.2	BRY	5.27	329	ePn	45	23.30	-0.4	SQTA	11.92	321	iPc	46	55.90	0.1			
YLV	0.84	176	ePg	36	31.20	0.1				eSn	46	37.00			0.9s		34.60nm			5.5mb			
DMK	1.22	290	ePn	36	37.70	0.1	ATN	5.30	269	Pd	45	24.60	0.5				i(S)	49	05.00				
S.D. = 0.2 on 5 of 5 obs.							PLE	5.34	338	ePn	45	26.00	1.2	CKI	12.04	304	P	46	57.00	-0.2			
										eSn	46	41.00		KHC	12.37	333	iPd	47	01.30	-0.4			
% MAY 17, 1990 08h 36m 55.64± 1.97s							MGR	5.43	291	Pd	45	26.60	0.7		1.3s		19.00nm			5.0mb X			
41.419 N ±13.2km 29.326 E ±12.7km							DMK	5.46	50	eP	45	24.70	-1.6		Z 11s		4.00um						
DEPTH = 10.0km (geophysicist)							CTT	5.53	58	eP	45	24.00	-3.3X		N 10s		3.50um						
TURKEY (366)							SGO	5.74	294	Pd	45	31.00	0.8	VAI	12.42	311	P	47	02.00	-0.3			
							KHL	5.76	89	iP	45	31.70	0.9	DOI	12.74	303	P	47	08.00	1.2			
ISK	0.41	210	ePg	37	04.00	0.1	ITU	5.90	61	eP	45	32.00	-0.6	PRU	12.79	337	eP	47	07.50	0.3			
HRT	0.65	156	ePg	37	08.80	0.1	ISK	5.92	61	eP	45	31.80	-1.0		Z 10s		5.00um						
CTT	0.73	248	ePg	37	10.00	0.1	YLV	5.96	67	eP	45	32.80	-0.7		N 10s		5.30um						
YLV	0.85	178	iPg	37	11.90	-0.2	BSS	6.17	295	P	45	37.00	0.5				e	47	25.70				
DMK	1.24	289	ePn	37	18.70	0.0	ALT	6.23	82	eP	45	37.30	0.0	KSP	13.11	343	eP	47	11.30	-0.1			
S.D. = 0.2 on 5 of 5 obs.							HRT	6.25	65	eP	45	35.80	-1.8				e	47	26.50				
							KSL	6.33	109	ePn	45	39.00	0.4				e	52	09.00				
MAY 17, 1990 08h 44m 05.26± 0.33s							ELL	6.35	103	eP	45	42.00	2.9X	BNI	13.34	305	P	47	15.00	0.4			
38.419 N ± 2.9km 22.189 E ± 1.9km							GIB	6.44	269	P	45	39.50	-0.8	LPG	13.48	307	eP	47	16.40	-0.3			
DEPTH = 36.3 ± 3.9 km							DRA	6.44	13	eP	45	48.00	7.8X		0.8s		21.50nm			5.1mb			
4.8mb (30 obs.) 3.7Msz (1 obs.)							HVAR	6.45	319	iPn	45	38.30	-1.9	GRF	13.74	329	eP	47	22.30	2.6			
GREECE (364)										iSg	46	53.60			Z 14s		4.40um						
MD 4.8 (HLW), 4.6 (ATH).																	e	47	29.10				
							BEO	6.53	349	ePn	45	42.00	0.7										
							GPA	6.56	71	eP	45	42.00	0.0	BRG	13.75	338	eP	47	22.80	2.9X			
AGG	0.61	10	iPgc	44	15.40	-2.1	BUC1	6.59	25	eP	45	50.00	7.8X		0.8s		14.00nm			4.8mb X			
NEO	1.20	42	iPnc	44	25.40	-0.4	BUC	6.67	25	eP	45	56.00	12.7X				e	47	28.70				
JTM	1.25	190	iPbc	44	29.90	3.3X	BCK	6.71	96	iP	45	45.20	1.2				e	50	58.70				
VLS	1.28	260	iPnd	44	26.10	-0.9	DUI	6.76	301	P	45	44.50	-0.2	MOX	14.34	332	eP	47	28.00	0.4			
ATH	1.28	110	iPbc	44	27.60	0.6	FAI	6.83	263	P	45	46.00	0.3		Z 12s		3.40um						
LIT	1.70	8	ePbd	44	33.50	0.5	RFI	6.94	297	P	45	47.54	0.4		E 13s		3.10um						
			eSb	45	01.70		MTUR	7.13	17	eP	45	48.00	-1.9	CLL	14.42	336	eP	47	29.00	0.3			
VLI	1.80	160	iPnd	44	33.10	-1.4	BZS	7.21	357	ePc	45	49.00	-1.8				i	47	37.60				
IGT	1.83	308	ePbd	44	38.00	3.1X	SDI	7.21	300	P	45	51.10	0.1	TNS	15.33	325	eP	47	46.10	5.5X			
			eSb	45	07.30		DEV	7.48	4	ePd	46	00.00	5.4X	LBL	15.66	302	P	47	46.48	1.7			
PAIG	1.90	37	ePbd	44	35.90	0.0	AZI	7.59	301	Pc	45	57.70	1.5	PLDF	15.67	305	P	47	46.02	1.0			
KEK	2.27	306	iPnd	44	38.00	-3.1X	MLR	7.60	20	iPd	45	56.00	-0.5	SMF	15.80	307	eP	47	45.70	-0.9			
THE	2.29	15	ePnd	44	41.30	-0.1				e	16	56.00		LBF	15.86	308	eP	47	46.60	-0.8			
			eSn	45	16.70		AQU	7.77	303	P	45	59.97	1.1	PYM	15.99	303	P	47	50.12	1.0			
OUR	2.36	35	ePnd	44	42.40	0.0	RDP	7.99	298	P	46	02.00	0.1	AGO	16.02	305	P	47	49.97	0.5			
FNA	2.44	345	ePnd	44	45.10	1.4	RMP	8.02	298	P	46	02.00	-0.3	LOR	16.06	309	eP	47	49.20	-0.8			
			eSn	45	13.70		CFR	8.09	31	eP	46	04.00	0.8		1.2s		61.00nm			4.6mb			
GRG	2.54	4	ePnc	44	45.60	0.6	VRI	8.17	23	ePc	46	04.50	0.2	AVF	16.17	307	eP	47	50.10	-1.2			
SOH	2.56	20	ePnd	44	46.00	0.6	MNS	8.27	302	P	46	06.00	0.3	SSF	16.19	308	eP	47	50.60	-0.9			
KNT	2.79	11	ePnd	44	49.20	0.6	BBTK	8.34	77	eP	46	11.00	4.2X	BGF	16.39	306	eP	47	52.20	-2.0			
			eSn	45	13.90		ASS	8.59	306	P	46	10.50	0.2	MAF	16.45	305	eP	47	52.90	-1.9			
OHR	2.89	339	iPnc	44	52.70	2.6	ARV	8.64	309	Pd	46	08.50	-2.4		1.2s		53.55nm			4.5mb			
			i	45	34.30		ZAG	8.71	330	e(Pn)	46	08.00	-3.7X	GRC	16.55	309	P	47	56.40	0.3			
SRS	2.90	21	ePnc-	44	50.20	0.0	VBY	8.76	326	ePn	46	11.50	-0.9	TCF	16.70	304	eP	47	55.80	-2.3			
VAY	2.91	6	iPnd	44	50.80	0.5				iSn	47	49.40			1.2s		23.80nm			4.2mb			
			i	44	52.40		PTJ	8.79	330	ePn	46	10.80	-2.1	MEM	16.74	322	P	48	06.40	8.0X			
			iSn	45	16.30					eSn	47	09.40		MSL	16.78	90	ePd	48	03.00	3.9X			
			iSg	45	27.00		RIY	9.04	322	ePn	46	13.80	-2.5				eS	51	23.00				
APE	2.97	116	ePn	44	50.60	-0.6	CEY	9.31	324	ePc	46	18.40	-1.7	ENN	16.88	322	eP	48	04.00	3.8X			
VAM	3.41	151	ePn	44	56.10	-1.2				eS	48	02.50			1.0s		42.00nm			4.5mb			
EZN	3.51	65	eP	45	00.00	1.3	MAO	9.32	299	P	46	19.44	-0.7	DOU	17.13	319	P	48	04.30	1.0			
KKB	3.51	11	iPd	44	59.00	0.3	CRE	9.32	307	P	46	20.00	-0.3		1.2s		111.10nm			4.9mb			
SMG	3.74	100	ePn	45	02.00	0.0	BUD	9.35	347	eP	46	22.00	1.4				S	51	29.00				
RDO	3.75	42	ePn	45	01.10	-1.1	LJU	9.50	326	eP	46	20.00	-2.6	LSF	17.13	304	eP	48	00.60	-2.8			
RZN	3.80	30	iPd	45	03.00	0.0				eS	48	13.00			1.0s		22.00nm			4.2mb			
LCI	3.80	302	P	45	02.50	-0.4	SFI	9.53	308	P	46	24.20	1.1	WTS	17.32	327	eP	48	14.00	8.4X			
ALN	3.87	49	ePn	45	04.40	0.5	PGD	9.59	308	P	46	24.00	-0.1		1.0s		13.00nm			4.0mb			
IZM	3.99	89	iP	44	55.90	-9.7X	TRI	9.60	322	iPnc	46	21.50	-2.6	ECHE	18.03	281	e(P)	48	16.50	1.8			
PLD	4.15	27	eP	45	08.00	0.1				iSn	48	07.00		DBN	18.12	325	eP	48	19.00	3.5X			
ULC	4.20	328	iPnc	45	09.60	1.1	LFK	9.62	106	eP	46	24.50	-0.1		Z 15s		1.30um						
			eSn	46	10.00		VOY	9.78	324	ePd	46	24.50	-2.1				eS	51	52.00				
VTS	4.24	10	iP	45	10.00	0.7				eS	48	15.20		MFF	18.34	304	eP	48	15.50	-2.9			
PVY	4.50	339	ePn	45	15.10	2.2	SRO	9.81	344	iP	46	28.40	1.6		1.0s		76.00nm			4.8mb			
			eSn	46	22.50					i	46	45.70		BHD	18.70	99	ePd	48	25.00	2.2			
GRI	4.54	277	P	45	14.77	1.4	SOP	10.13	338	eP	46	32.00	0.7				eS	52	07.00				
BRT	4.56	304	P	45	14.72	1.0	PII	10.27	305	P	46	32.50	-0.8	ETOR	18.82	285	eP	48	24.50	0.1			
TTG	4.59	332	iPnc	45	14.60	0.6	MME	10.39	307	P	46	34.20	-0.9	SLY	18.82	91	eP	48	26.00	1.7			
			eSn	46	21.00		BDI	10.39	307	P	46	35.00	0.1	TAB	18.96	84	eP	48	28.00	1.9			
BDV	4.64	327	iPnc	45	15.20	0.5	ZST	10.45	341	eP	46	35.80	0.2	ECRI	19.22	290	eP	48	29.20	0.1			
			eSn	46	22.50		FVI	10.71	323	P	46	40.00	0.7	FLN	19.34	310	eP	48	26.20	-4.1X			
TDS	4.72	287	P	45	17.20	1.2	VKA	10.73	338	e(P)	46	39.00	-0.4		1.1s		58.60nm			4.8mb			
CIN	4.73	98	eP	45	16.00	-0.1				LR	51	36.00		ENIJ	19.36	273	eP	48	31.50	0.8			
ORI	4.75	292	P	45	17.40	1.0	SPC	10.86	353	eP	46	56.60	15.2X	LPF	19.40	307	eP	48	26.90	-4.1X			
IVA	4.78	339	ePn	45	19.00	2.2	SAL	11.26	313	P	46	45.30	-1.4		1.2s		59.50nm			4.7mb			
			eSn	46	32.00		KMR	11.28	331	eP	46	48.00	1.1	GRR	19.42	308	eP	48	27.50	-3.7X			
EDC	4.80	65	eP	45	20.30	3.2X	HLW	11.41	136	eP	46	49.00	0.2		1.0s		48.00nm			4.7mb			
BAI	4.91	305	Pd	45	19.00	0.4				eS	48	45.00		AFC	20.34	275	eP	48	44.50	3.2X			
HCY	4.91	326	iPnc	45	18.50	-0.1	BOB	11.45	308	P	46	49.00	-0.4	EBAN	20.37	277	eP	48	41.00	-0.5			
			eSn	46	30.00		BHG	11.51	327	eP	46	50.00	-0.2	TOL	20.38	282	iPc	48	41.50	0.0			
GMB	4.98	269	P	45	20.68	0.9	KRA	11.75	353	eP	46	57.20	4.0X		1.2s		156.25nm			5.2mb			
YER	4.99	103	eP	45	20.00	0.1				e	47	03.90					eS	52	28.00				

GUD	20.42	285	eP	48	42.00	0.0
ASMO	20.48	275	iPd	48	44.50	1.8
APHE	20.52	274	eP	48	42.50	-0.6
ATEJ	20.78	274	iPc	48	45.00	-0.8
AAPN	20.78	275	iPc	48	44.50	-1.3
ALOJ	20.81	275	iPc	48	45.50	-0.6
EHOR	21.57	277	eP	48	56.80	3.2X
UPP	21.66	354	iP	48	52.80	-1.4
			iS	52	54.00	
EPLA	21.92	283	eP	48	58.00	0.8
NUR	22.17	3	eP	48	58.00	-1.3
	0.8s	23.50nm			4.7mb	
			i	49	13.90	
HFS	22.39	349	eP	49	02.30	0.7
	0.4s	6.20nm			4.4mb	
YRH	23.47	317	eP	49	13.60	1.4
NB2	23.66	347	P	49	13.40	-0.6
	0.8s	16.10nm			4.6mb	
EKA	24.01	323	Pd	49	17.80	0.5
	1.0s	53.90nm			5.0mb	
ECP	24.15	314	eP	49	22.50	3.7X
ETA	24.28	315	eP	49	21.20	1.2
SUF	24.45	4	iP	49	21.10	-0.5
	0.5s	5.30nm			4.3mb	
AVE	24.47	267	iP	49	24.00	1.9
TIO	25.27	262	iP	49	33.00	3.1X
			i	49	55.00	
VAL	26.31	311	eP	49	39.00	-0.1
SOD	29.11	4	iP	50	08.30	3.9X
BCAO	33.99	187	iPd	50	47.70	0.0
	0.7s	21.00nm			5.2mb	
			ic	51	08.50	
KUK	38.05	218	eP	51	14.00	-8.0X
TIC	40.08	225	P	51	39.02	0.0
KIC	40.17	224	P	51	39.68	0.0
LIC	40.44	225	P	51	42.10	0.2
Z	20s	0.10um			3.7Msz	
KSH	41.33	71	P	51	50.10	0.9
WMO	48.49	62	P	52	46.00	-0.4
Z	14s	0.30um			4.4MszX	
DMN	52.94	82	P	53	18.80	-1.8
	0.7s	23.00nm			5.3mb	
PKI	53.19	82	P	53	20.50	-2.1
GUN	53.40	81	P	53	22.10	-2.0
GBA	54.55	101	P	53	31.00	-1.2
	0.9s	6.20nm			4.6mb	
FRB	56.65	328	eP	53	48.00	1.2
BUL	58.56	173	iPc	53	55.50	-5.3X
SCH	59.15	318	eP	54	04.00	-0.5
LZH	62.92	64	eP	54	30.00	-0.4
	1.5s	19.00nm			5.0mb	
MBC	63.02	350	eP	54	30.00	-0.3
SLR	64.07	174	iPc	54	40.50	2.6
	0.9s	12.60nm			5.0mb	
KSR	64.10	175	eP	54	36.50	-1.6
PRY	65.19	175	eP	54	43.50	-1.6
	0.8s	12.50nm			5.0mb	
CD2	65.46	69	eP	54	48.80	1.9
BLF	67.28	176	eP	54	58.00	-0.4
XAN	67.54	64	P	54	59.00	-1.1
BJI	69.23	55	eP	55	12.00	1.6
	1.5s	21.00nm			5.0mb	
INK	72.04	351	eP	55	27.00	0.0
CN2	72.76	48	Pc	55	30.00	-1.6
YKA	73.61	341	eP	55	35.50	-0.7
	0.9s	3.20nm			4.3mb	
FFC	75.63	330	eP	55	48.00	0.0
	1.1s	15.00nm			4.9mb	
IMA	75.80	358	iPd	55	50.30	1.4
	1.0s	7.50nm			4.6mb	
FBA	76.72	356	iPc	55	55.00	1.1
PSI	77.94	96	eP	56	01.00	-0.5
PMR	80.09	356	ePd	56	12.80	0.5
	1.0s	7.50nm			4.6mb	
PMS	80.46	356	iPc	56	15.20	0.8
SVW	80.81	359	iPc	56	18.00	1.8
EDM	80.95	335	eP	56	17.50	0.3
PNT	86.34	336	eP	56	46.00	1.3
MEO	88.82	315	eP	56	58.60	1.7
S.D. = 1.2 on 192 of 224 obs.						

? MAY 17, 1990 09h 07m 28.56± 1.10s
38.256 N ±10.5km 22.405 E ±15.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)

ITM	1.14	200	ePg	07	49.70	-0.2
NEO	1.23	31	ePb	07	52.00	0.6
VLS	1.43	267	ePb	07	55.00	0.4
LIT	1.84	2	eP	07	59.70	-0.8
KEK	2.50	306	ePb	08	14.60	4.7X
OHR	3.11	337	e(Pn)	08	26.20	7.6X
S.D. = 1.1 on 4 of 6 obs.						

---

* MAY 17, 1990 09h 40m 11.47± 0.60s
13.504 N ± 8.2km 121.026 E ±12.5km
DEPTH = 33.0km (normal)
5.1mb (4 obs.) 4.2Msz (1 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

QIZ	12.06	299	eP	43	02.30	-1.7
GYA	18.64	316	P	44	33.80	4.9X
N	12s	0.40um				
E	12s	0.50um				
			S	48	11.00	
NST	20.33	279	eP	44	53.80	6.0X
CHG	21.85	287	e(P)	45	04.10	0.9
TRT	22.66	202	ePd	45	12.80	1.6
XAN	23.21	334	eP	45	18.00	1.4
CD2	23.52	320	P	45	20.60	1.1
PSI	24.34	246	ePc	45	28.80	1.2
TIY	25.30	344	eP	45	44.40	7.7X
Z	20s	0.80um			4.2Msz	
N	19s	0.80um				
BJI	26.78	352	eP	45	50.50	0.3
			eS	50	46.00	
MBL	34.47	182	eP	46	58.10	-0.4
WB5	35.68	158	eP	47	08.00	-0.8
GUN	35.72	299	P	47	09.00	-0.6
WRA	35.73	158	Pc	47	09.40	0.1
	1.1s	26.90nm			5.1mb	
PKI	36.02	298	P	47	11.20	-1.0
	0.5s	16.00nm			5.2mb	
NANU	36.24	189	eP	47	13.30	-0.2
DMN	36.29	298	P	47	13.60	-0.8
QIS	38.46	151	eP	47	31.80	-0.5
WARB	39.82	172	eP	47	44.00	0.4
MEKA	39.95	183	eP	47	44.00	-0.6
	0.5s	55.00nm			5.6mb	
MRWA	42.75	186	eP	48	07.40	-0.1
	0.4s	5.00nm			4.6mb	
MAIO	59.25	304	eP	50	12.00	-0.4
S.D. = 1.0 on 19 of 22 obs.						

? MAY 17, 1990 09h 46m 03.15± 1.48s
33.212 S ±15.9km 179.349 W ±28.2km
DEPTH = 33.0km (normal)
4.4mb (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.78	203	P	47	16.70	2.1
			S	48	09.00	
			eTT	51	39.00	
MRW	9.30	209	P	48	16.00	-1.9
			S	49	53.00	
CTA	33.25	284	iP	52	41.00	1.5
WRA	43.15	276	Pd	54	02.10	-0.3
	0.5s	4.00nm			4.4mb	
WB5	43.15	276	eP	54	01.50	-1.0
SUF	146.36	339	iPKP	05	39.00	-1.0
	0.5s	5.30nm				
BCAO	146.86	214	ePKPd	05	41.60	-0.8
	0.5s	5.00nm				
NUR	148.51	337	ePKP	05	45.00	1.5
NB2	151.32	349	PKP	05	51.90	4.0X
	0.7s	4.50nm				
HFS	151.73	346	ePKP	05	51.70	3.3X
	0.7s	5.00nm				
LIC	152.63	168	PKP	05	55.40	4.3X
S.D. = 1.7 on 8 of 11 obs.						

---

* MAY 17, 1990 10h 17m 34.13± 2.17s
6.675 S ±11.1km 129.710 E ±17.4km
DEPTH = 124.9 ± 23.8 km
4.7mb (6 obs.)
BANDA SEA (280)

MTN	6.29	167	iPd	19	07.40	1.5
			eS	20	12.00	
KUPT	6.96	240	ePc	19	29.70	14.8X
			eS	20	41.00	
KNA	9.07	186	eP	19	43.40	0.0
	0.2s	73.00nm			6.1mb X	
			eS	21	16.00	
WB5	13.88	161	eP	20	45.20	-1.6
			eS	23	11.50	
WRA	13.94	162	Pd	20	44.80	-2.6
	0.2s	3.60nm			4.3mb X	
QIS	16.81	146	iPc	21	25.20	1.8
	0.3s	9.00nm			4.5mb	
			eS	24	18.40	
MBL	17.28	213	eP	21	28.50	-0.7
			eS	24	26.00	
WARB	19.62	188	eP	21	56.20	0.9
	0.3s	4.00nm			4.3mb	
			eS	25	27.00	
CTA	20.87	131	iPc	22	12.60	4.6X
NANU	20.89	219	iPc	22	08.80	0.7
	0.3s	28.00nm			5.1mb	
			eS	26	03.00	
MEKA	22.51	207	eP	22	25.00	1.0
	0.3s	5.00nm			4.4mb	
			eS	26	32.00	
FORR	24.10	183	eP	22	40.00	0.6
	0.4s	17.00nm			4.9mb	
COOL	25.39	197	eP	22	51.00	-0.5
MRWA	25.89	208	eP	22	55.90	-0.2
			eS	27	48.00	
BAL	26.75	206	eP	23	04.00	0.0
KLB	27.19	203	eP	23	08.00	0.1
			eS	28	20.00	
MUN	28.15	205	eP	23	16.00	-0.6
CHG	39.51	310	eP	24	55.40	1.0
GUN	54.52	311	P	26	51.60	-0.3
	0.4s	16.00nm			5.3mb	
PKI	54.70	311	P	26	52.40	-0.8
DMN	54.95	310	P	26	54.60	-0.3
S.D. = 1.2 on 19 of 21 obs.						

? MAY 17, 1990 10h 20m 13.55± 1.23s
38.060 N ±20.8km 29.005 E ±12.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.49	57	iPg	20	23.70	0.3
			iSg	20	30.70	
CIN	0.86	238	ePg	20	30.00	-0.1
			iSg	20	41.00	
ALT	1.32	41	ePn	20	37.60	-0.4
IZM	1.41	284	ePn	20	39.50	0.2
S.D. = 0.5 on 4 of 4 obs.						

MAY 17, 1990 10h 27m 13.63± 0.40s
38.350 N ± 3.9km 22.243 E ± 3.5km
DEPTH = 15.8 ± 4.2 km
4.0mb (1 obs.)
GREECE (364)
ML 3.5 (ATH), 3.4 (THE).

AGG	0.67	6	ePgc	27	24.90	-1.7
			eSg	27	35.30	
ITM	1.20	192	iPnc	27	34.00	-1.5
ATH	1.22	108	iPbc	27	37.60	1.7
NEO	1.22	38	ePn	27	36.40	0.5
VLS	1.31	263	ePn	27	35.60	-1.7
VLI	1.72	161	ePn	27	43.20	0.1
LIT	1.76	6	ePbc	27	43.30	-0.4
			eSb	28	09.80	
IGT	1.90	309	ePn	27	47.70	2.0
PAIG	1.93	35	ePb	27	45.60	-0.5
KEK	2.34	306	ePb	27	53.60	1.6
OUR	2.40	34	eP	27	52.20	-0.6
FNA	2.52	345	ePnc	27	54.80	0.2
GRG	2.61	3	ePn	27	55.30	-0.6
SOH	2.61	19	ePn	27	55.40	-0.6
KNT	2.85	10	ePn	27	59.30	0.0
APE	2.90	115	ePn	28	00.50	0.4
SRS	2.95	20	ePn	27	59.90	-0.8
OHR	2.97	338	iPnc	28	02.80	1.8
			iSg	28	37.30	
VAY	2.98	5	ePn	28	01.50	0.5
VAM	3.33	151	ePn	28	05.50	-0.6
EZN	3.50	64	eP	28	10.00	1.5
SKO	3.67	351	ePn	28	11.00	0.1
SMG	3.68	99	ePn	28	11.60	0.5
RDO	3.77	41	ePn	28	10.50	-1.9
LCI	3.87	302	P	28	12.50	-1.2
TDS	4.78	288	P	28	27.80	1.1
ORI	4.81	293	P	28	27.50	0.3
MGR	5.49	291	P	28	36.20	-0.5
SGO	5.80	295	P	28	41.00	-0.1

17d 10h

BSS	6.24	295	P	28 47.00	-0.3
DUI	6.83	301	P	28 55.40	-0.3
SDI	7.28	300	P	29 03.20	1.2
AZI	7.66	301	P	29 08.50	1.3
VRI	8.22	22	ePc	29 15.00	0.0
ASS	8.67	306	P	29 21.50	0.2
ARV	8.72	309	P	29 21.00	-1.0
VOY	9.86	324	eP	29 37.00	-0.7
			eS	31 23.80	
EKA	24.09	323	P	32 29.00	0.0
	0.8s		3.80nm	4.0mb	

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

& MAY 17, 1990 10h 31m 14.20s
40.822 N 124.300 W
DEPTH = 23.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 2.9 (BRK).

FHC	0.24	95	iPc	31 19.90	-0.3
			iS	31 24.70	
WDC	1.36	100	iPd	31 36.40	-1.5
LTCM	1.77	110	eP	31 42.20	-1.6
MIN	2.11	102	iPc	31 46.20	-2.6
ORV	2.49	120	eP	31 50.90	-3.3
GCC	4.19	154	eP	32 17.20	-1.1
KVN	5.08	108	eP	32 28.40	-2.7

7 obs. associated

MAY 17, 1990 10h 40m 17.55± 0.79s
40.453 N ± 6.9km 21.833 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3 0 (THE).

FNA	0.48	314	ePgc	40 26.80	-0.5
LIT	0.61	125	ePg	40 28.70	-1.2
GRG	0.66	41	ePg	40 29.50	-1.3
OHR	1.02	310	ePn	40 37.00	0.1
VAY	1.03	33	ePn	40 38.50	1.5
KNT	1.07	48	ePb	40 37.70	-0.1
SOH	1.21	72	ePb	40 40.80	0.6
AGG	1.48	165	ePb	40 45.30	1.0
PAIG	1.51	110	ePb	40 44.50	-0.1

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

MAY 17, 1990 11h 03m 24.75± 0.14s
18.080 S ± 3.0km 69.626 W ± 3.4km
DEPTH = 105.9km (39 depth phases)
5.6mb (61 obs.)
NORTHERN CHILE (123)
mb 5.8 (BRK). Felt (V) at Arica, (IV) at Putre and (III) at Iquique. Landslides occurred in the Arica area. Also felt (IV) at Tacna and (III) at Arequipa, Peru.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 11:03:34.9 0.3
Lat 17.90S 0.04 Lon 69.71W 0.04
Dep 126.2 1.9 Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr=-1.81 0.17 Mtt=-0.32 0.25
Mff= 2.14 0.25 Mrt= 2.29 0.14
Mrf=-3.92 0.15 Mtf=-0.48 0.28
Principal Axes:

T	Val= 5.07	Plg=33	Azm= 69
N	-0.17	9	333
P	-4.90	55	230

Best Double Couple:Mo=5.0*10**17
NP1:Strike=190 Dip=14 Slip= -52
NP2: 331 79 -99

LPB	2.12	44	iPc	04 01.10	1.0
ZOBO	2.30	39	iPc	04 07.50	4.9X
ARE	2.40	312	iPc	04 04.50	0.8
CCH	3.39	79	iPc	04 21.40	4.4X
ANT	5.65	187	iPd	04 43.50	-4.2X
			i	05 20.00	
			iS	05 41.00	
PT03	7.19	304	iP	05 05.70	-3.3X
			eS	06 05.80	
PT06	7.71	302	iP	05 12.50	-3.5X
			e(S)	06 20.60	
SIV	8.44	77	iPc	05 24.40	-1.6
PT08	9.04	311	eP	05 31.70	-2.7
			eS	06 58.80	
NNA	9.23	310	iPc	05 34.00	-2.7
	0.7s		32.88nm	5.3mb X	
			eS	07 18.00	
PT10	9.27	309	e(P)	05 37.50	0.3
			eS	07 18.00	
RTLL	13.23	176	ePc	06 23.70	-6.0X
ZON	13.44	177	eP	06 26.00	-6.3X
			eS	08 56.00	
JACH	14.57	183	iP	06 45.30	-1.7
IHA	14.99	187	eP	06 49.50	-2.7
			e(S)	09 50.00	
PEL	15.03	183	iPd	06 50.50	-2.3
	1.5s		819.44nm	5.7mb	
FCH	15.20	182	iPd	06 54.00	-1.2
SAN	15.34	183	iP	06 54.60	-2.1
LCCH	15.43	186	iPd	06 55.00	-2.8
PCH	15.50	183	iPc	06 56.90	-1.8
TACH	15.55	184	iPd	06 56.10	-3.3X
CHCH	15.82	183	eP	07 00.50	-2.2
LNV	15.89	185	iPd	07 05.50	2.0
VC1	19.36	333	P	07 46.70	1.4
QTO	19.81	333	eP	07 50.60	0.7
CAYA	19.83	335	eP	07 51.20	1.0
QUR	19.83	333	eP	07 50.10	0.0
GGP	19.86	333	eP	07 51.40	0.8
COTA	20.21	334	eP	07 55.00	0.9
PSO	20.60	338	eP	07 58.50	0.6
BOG	22.98	349	eP	08 22.00	0.7
			eS	12 22.00	
BMG	25.22	352	eP	08 40.00	-2.5
SDV	26.81	358	eP	08 55.50	-1.7
TOV	27.69	360	eP	08 58.70	-6.3X
OLLA	28.06	6	iPc	09 06.60	-1.8
GUAC	28.19	5	eP	09 08.40	-1.2
LLAV	28.51	6	iPc	09 10.80	-1.6
CAR	28.53	6	iP	09 11.00	-1.6
			iS	13 47.00	
UPA	28.61	339	iPd	09 14.00	0.8
	0.6s		33.33nm	5.2mb	
MORO	28.80	3	eP	09 16.00	1.0
CUM	28.87	11	iP	09 14.50	-1.0
FISA	29.16	1	eP	09 16.00	-2.2
AIA	47.27	177	eP	11 49.40	0.6
JSC	53.23	348	P	12 33.80	-0.5
PRM	53.27	347	P	12 33.30	-1.4
LHS	53.34	348	P	12 32.80	-2.3
TKL	55.10	346	P	12 45.80	-2.3
GBTN	55.21	346	P	12 46.80	-2.0
RSCP	55.48	344	P	12 49.20	-1.6
PWLA	55.60	342	P	12 49.30	-2.3
BLA	55.93	350	P	12 53.70	-0.3
	1.2s		140.15nm	5.9mb	
CBN	56.45	353	eP	12 56.00	-1.7
UYO	57.09	335	iPc	13 01.30	-0.9
OLY	57.17	339	P	13 01.40	-1.4
TBR	59.07	356	P	13 14.90	-1.0
MEO	59.34	332	iPd	13 16.40	-1.6
WVLY	60.81	352	P	13 26.30	-1.5
MBO	61.13	62	iPc	13 30.30	-0.1
DLA	61.62	350	P	13 30.80	-2.5
LDN	61.74	350	P	13 31.70	-2.4
ELF	61.91	350	P	13 32.80	-2.4
HBVT	62.21	357	P	13 36.00	-1.2
WNY	62.28	357	P	13 36.30	-1.4
BNH	62.38	359	P	13 37.70	-0.6
ALQ	63.28	327	ePd	13 43.80	-0.9
	1.0s		35.75nm	5.3mb	
			epP	14 10.00	105km
ANMO	63.28	327	P	13 44.00	-0.7
	0.8s		7.28nm	4.7mb	
CBM	64.72	1	P	13 52.90	-0.6
GLD	66.43	331	P	14 04.70	-0.2
	1.1s		16.39nm	4.9mb	
GOL	66.46	331	P	14 04.20	-1.0
	1.1s		60.58nm	5.4mb	
GLA	66.70	320	eP	14 07.00	0.4
			e	14 33.00	103km
BAR	67.61	318	eP	14 13.00	0.7
			e	14 39.00	103km
LIC	68.13	75	Pc	14 14.16	-1.7
	0.9s		150.00nm	5.9mb	
Z	22s		0.85um	4.9Msz	
TPC	68.17	320	eP	14 15.00	-0.7
			e	14 43.00	112km
PLM	68.17	319	eP	14 16.00	0.0
			e	14 41.00	98km
TBT	68.25	48	iP	14 15.80	-0.5
TIC	68.30	75	P	14 15.32	-1.6
	1.0s		193.00nm	6.0mb	
KIC	68.45	75	Pc	14 16.34	-1.5
	0.7s		235.00nm	6.2mb	
RVR	68.92	319	eP	14 20.00	-0.3
			e	14 46.00	102km
MSU	68.99	325	P	14 21.20	0.2
CTFE	69.31	49	iP	14 23.20	0.4
GSC	69.43	320	eP	14 24.00	0.5
			e	14 51.00	107km
MWC	69.49	319	eP	14 24.00	-0.1
			e	14 50.00	102km
PAS	69.52	318	eP	14 24.00	0.0
			e	14 50.00	102km
GGC	69.55	50	iP	14 24.00	-0.4
SBB	69.65	319	eP	14 25.00	0.1
			e	14 51.00	102km
CLC	70.25	320	eP	14 28.00	-0.5
			e	14 55.00	106km
ABL	70.63	318	P	14 31.90	0.9
			pP	14 58.30	104km
ISA	70.69	319	eP	14 32.00	0.8
			e	14 58.00	102km
BW06	70.83	330	P	14 31.70	-0.4
	1.1s		8.93nm	4.5mb X	
CFTV	70.85	50	iP	14 32.00	-0.2
SYP	70.91	318	eP	14 33.00	0.4
BCH	71.39	318	P	14 36.80	1.3
TNP	71.53	322	P	14 36.80	0.4
			pP	15 04.00	107km
RSON	71.83	344	P	14 36.00	-1.6
	1.0s		31.18nm	5.1mb	
PHAM	72.00	319	P	14 39.60	0.7
SPA	72.03	180	iPd	14 38.70	-0.2
	1.2s		77.46nm	5.4mb	
			i	15 06.10	108km
WEGH	72.25	78	eP	14 39.00	-1.8
FRI	72.31	320	eP	14 39.40	-1.3
IMW	72.34	330	P	14 41.00	-0.1
PRI	72.36	319	eP	14 41.60	0.4
			epP	15 10.00	112km
LEGH	72.41	78	eP	14 40.50	-1.2
KUK	72.43	77	iPc	14 32.50	-9.4X
KOGH	72.51	77	eP	14 40.50	-1.9
TEGH	72.57	78	eP	14 42.00	-0.7
SHGH	72.64	78	eP	14 42.50	-0.6
SCH	72.64	2	ePc	14 41.30	-1.0
	1.0s		83.00nm	5.5mb	
			pP	15 13.00	127kmX
KVN	72.69	322	P	14 43.40	0.2
			pP	15 10.50	106km
LLA	72.83	319	ePd	14 44.20	0.4
			epP	15 11.00	105km
PRS	72.92	318	ePd	14 44.80	0.5
			epP	15 11.90	106km
CMB	73.39	320	ePd	14 47.40	0.4
			epP	15 13.40	101km
ARN	73.66	319	P	14 50.20	1.6
			pP	15 16.20	101km
MHC	73.72	319	eP	14 50.00	0.9
			epP	15 17.20	106km
GCC	73.75	319	eP	14 49.70	0.6
			epP	15 16.70	105km
RUV	74.03	259	iP	14 52.80	1.6
	1.2s		85.00nm	5.4mb	
			ipP	15 52.80	256kmX
VAH	74.25	259	iP	14 54.00	1.6
	1.2s		145.00nm	5.7mb	
			ipP	15 19.80	100km
TPT	74.31	259	iP	14 54.50	1.8
	1.2s		180.00nm	5.8mb	
			ipP	15 20.30	100km
BKS	74.42	319	ePd	14 53.60	0.6
	0.7s		53.00nm	5.5mb	
			epP	15 22.30	113km
			iS	24 24.00	
BRK	74.44	319	eP	14 53.60	0.6
			epP	15 18.80	97km
LRM	74.49	330	eP	14 53.80	0.3
PMO	74.56	259	iP	14 56.00	1.8
	1.2s		125.00nm	5.6mb	
			ipP	15 21.70	99km
ORV	75.02	321	ePd	14 57.00	0.6
			epP	15 24.40	107km

EDR No. 5-90
Part 2 of 2
P. 189-374

U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

The error bars of the computed hypocentral coordinates are 90% marginal confidence intervals incorporating Baysian 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 $20° \leq \Delta \leq 160°$, 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 $\Delta \leq 5°$. 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 (°) appears as "`". Also note that certain phase codes are abbreviated because the data base and file format limit the length of the codes to five characters. Thus, PKP is occasionally abbreviated to P′ and the numbers 2 and 3 are sometimes used to represent the AB (AC for SKKS) and BC branches of core phases, respectively. In some codes, R is used to represent repetition; for example, pRPKP represents the phase pPKPPKP and RRPG represents PgPgPg.

References

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

Choy, George L. and P. G. Richards (1975), Pulse Distortion and Hilbert Transformation in Multiply Reflected and Refracted Body Waves, *Bull. Seis. Soc. Am.*, **65**, pp. 55–70.

Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1–15.

Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.

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.

PAE	75.45	256	iP	15	00.80	1.5	LFF	89.43	42	eP	16	10.80	0.0	SLE	95.48	42	ePd	16	38.30	-0.4
	1.2s	125.00nm			5.6mb		LPO	89.61	42	eP	16	11.90	0.2	LLS	95.49	43	ePd	16	39.10	0.1
MIN	75.59	322	eP	14	58.90	-0.9		0.8s	56.40nm			5.7mb		MDI	95.57	44	Pc	16	38.50	-0.5
AFR	75.66	256	iP	15	01.90	1.4	BCAO	89.61	85	iPc	16	11.70	-0.7	BDI	95.58	46	P	16	36.50	-2.8
	1.2s	125.00nm			5.6mb			0.7s	20.00nm			5.3mb		SAX	95.84	42	ePd	16	40.60	-0.1
TIO	77.21	51	iPc	15	10.00	1.0				ic	16	42.40	117kmX	SAL	96.05	44	P	16	41.00	-0.2
			i	15	38.50	111km				ic	19	40.90		OSS	96.17	43	ePd	16	42.10	0.1
FHC	77.29	321	eP	15	10.00	0.9	MFF	89.63	40	eP	16	11.10	-0.6	PGD	96.29	46	P	16	41.50	-1.1
			epP	15	37.50	107km		1.0s	54.00nm			5.6mb		TNS	96.32	39	ePd	16	43.10	0.6
SES	77.32	334	ePd	15	08.80	-0.3	LPF	89.74	39	eP	16	11.30	-0.9	MNS	96.48	48	Pd	16	43.20	-0.1
	0.9s	41.00nm			5.2mb			1.1s	73.25nm			5.7mb		ASS	96.68	47	P	16	42.50	-1.7
			pP	15	37.00	110km	REY	89.80	19	eP	16	13.50	1.4	SQTA	97.03	43	iPc	16	45.80	0.0
FFC	77.59	341	iPd	15	09.90	-0.5				i	16	45.50	123kmX		1.3s	72.40nm			6.0mb	
	0.9s	22.00nm			5.0mb		GRR	90.02	38	eP	16	12.50	-0.9				id	16	46.10	1kmX
AVE	78.30	49	iP	15	15.80	1.0		1.0s	88.00nm			5.8mb					i	17	17.00	
			i	15	44.50	112km	YRH	90.07	33	eP	16	13.40	-0.2	INK	97.51	340	eP	16	47.00	-0.3
DPW	78.72	329	P	15	17.60	0.8	RJF	90.09	42	eP	16	13.50	-0.4				pP	17	15.00	105km
SBA	79.05	190	iP	15	19.10	0.9		1.3s	129.95nm			5.9mb		DUI	97.52	49	P	16	48.00	-0.1
LON	79.80	326	P	15	23.20	0.5	CAF	90.28	42	eP	16	15.10	0.3	GRF	97.83	40	iPc	16	48.90	-0.3
IFR	80.06	50	iPc	15	25.50	1.0	FLN	90.41	38	eP	16	14.50	-0.8		1.2s	47.00nm			5.9mb	
RMW	80.26	327	P	15	25.20	0.1		1.0s	76.00nm			5.8mb		Z	23s	0.50um			4.9MszX	
BMW	80.38	326	P	15	26.90	1.1	LSF	90.51	41	eP	16	15.10	-0.7				e	17	19.10	115km
PNT	80.39	329	ePd	15	26.00	0.3		1.1s	50.05nm			5.6mb		FVI	97.86	44	Pd	16	49.50	0.2
	0.8s	83.00nm			5.6mb		LDF	90.55	38	eP	16	15.10	-0.8	MGR	97.86	50	P	16	49.90	0.4
EDM	80.39	335	iPd	15	25.10	-0.6		1.0s	84.00nm			5.9mb		TRI	98.24	45	P	16	51.00	-0.1
			pP	15	54.40	114km	TCF	90.95	41	eP	16	17.20	-0.7	BHG	98.26	43	eP	16	51.70	0.5
NKM	80.81	48	iPc	15	29.50	1.3		1.1s	31.75nm			5.4mb		MOX	98.38	39	eP	16	52.00	0.4
			i	15	31.00	5kmX	MAF	91.15	41	eP	16	18.40	-0.3	Z	21s	1.10um			5.3Msz	
			i	15	58.70			1.0s	37.00nm			5.6mb					epP	17	23.00	118kmX
GMW	80.82	327	P	15	28.60	0.6	LBL	91.16	42	P	16	19.88	1.1	VOY	98.42	44	e(P)	16	52.50	0.4
EVAL	80.96	46	eP	15	30.00	1.1	PYM	91.23	42	P	16	19.93	0.7	CEY	98.69	45	e(P)	16	53.00	-0.2
POF	80.98	118	iPc	15	30.00	0.7	BUL	91.29	112	iPd	16	13.00	-7.2X	WET	98.69	41	iPd	16	53.70	0.6
	1.0s	40.00nm			5.2mb			0.8s	17.16nm			5.3mb		MBC	98.76	349	eP	16	53.00	0.2
EJIF	81.27	47	eP	15	32.00	1.4				iPP	19	47.00			0.8s	2.00nm			4.8mb	
FRB	81.56	0	eP	15	30.00	-1.4	AGO	91.43	42	P	16	20.43	0.4	LJU	98.85	45	e(P)	16	54.00	0.1
MCW	81.57	328	P	15	33.00	1.1	BGF	91.46	41	eP	16	19.70	-0.5				epP	17	25.40	120kmX
EPRU	81.69	47	eP	15	34.60	1.8		1.2s	78.85nm			5.8mb		KHC	99.13	41	P	16	55.60	0.5
PGC	81.87	327	ePc	15	34.70	1.4	PLDF	91.71	42	P	16	21.92	0.5	VBY	99.19	45	e(P)	16	57.00	1.6
	0.9s	114.00nm			5.7mb		AVF	91.88	41	eP	16	21.40	-0.6	CLL	99.41	39	iPd	16	57.00	0.7
EHOR	82.10	46	eP	15	36.00	1.1		1.2s	31.25nm			5.5mb			1.3s	21.00nm			5.6mb	
MAL	82.14	47	iPd	15	36.80	1.7	GRC	91.91	41	P	16	21.83	-0.4				epP	17	27.00	114km
			iS	25	43.00		AKU	92.05	19	iP	16	25.10	2.7X	BRG	99.86	40	iP	16	59.00	0.7
ATEJ	82.51	47	iPc	15	37.50	0.3		1.0s	36.00nm			5.6mb			1.6s	42.00nm			5.8mb	
ALOJ	82.54	47	iPc	15	37.50	0.1	EKA	92.07	32	Pd	16	22.80	0.1				i	17	29.80	117kmX
AAPN	82.63	47	iPc	15	38.50	0.7		1.2s	54.70nm			5.7mb		PRU	99.97	41	P	16	59.50	0.6
EPLA	82.68	44	eP	15	39.50	1.6	SSF	92.09	41	eP	16	22.00	-1.0				e	17	29.50	114km
ACHM	82.73	47	iPc	15	38.80	0.5		1.2s	23.80nm			5.4mb					SKS	27	31.00	
APHE	82.76	48	iPc	15	39.00	0.5	SMF	92.12	41	eP	16	22.60	-0.6				S	28	22.00	
ASMO	82.92	47	iPc	15	40.00	0.7		1.2s	71.40nm			5.9mb		KSP	101.28	40	ePdiff	17	05.70	0.9
AFC	83.00	47	eP	15	41.00	1.2	LBF	92.35	41	eP	16	23.40	-0.9				e	17	36.50	
ERUA	83.20	41	eP	15	41.00	0.5		1.2s	26.80nm			5.4mb					e	21	09.00	
EBAN	83.28	46	eP	15	42.00	1.0	LOR	92.39	41	eP	16	23.30	-1.1	NB2	101.29	29	Pdiff	17	03.90	-0.8
EMON	83.64	40	eP	15	43.00	0.3		1.3s	25.25nm			5.4mb			1.2s	15.40nm			5.5mb	
ENIJ	83.80	48	eP	15	44.00	0.4	CALN	92.97	45	P	16	28.22	0.9	FBA	101.29	335	Pdiff	17	04.40	-0.1
TOL	83.94	45	iPc	15	45.00	0.8	MVIF	93.20	45	P	16	29.24	0.8		1.1s	7.81nm			5.3mb	
			iS	26	00.00		REVF	93.29	45	P	16	29.42	0.7	SRO	101.82	43	ePdiff	17	08.00	0.8
			iPS	26	54.00		TOUF	93.31	45	P	16	29.68	0.7	OHR	101.97	51	ePdiff	17	10.00	1.8
GUD	84.24	44	eP	15	46.80	0.9	AURF	93.31	45	P	16	29.46	0.6	VAY	103.32	51	ePdiff	17	15.30	1.2
EVIA	84.39	46	eP	15	47.60	1.0	BNI	93.32	44	Pd	16	29.50	0.6	CMP	105.84	47	ePKPc	21	34.00	-3.5X
ETOR	85.72	45	eP	15	54.60	1.4	AUTN	93.42	45	P	16	30.09	0.5	NUR	107.65	31	ePdiff	17	37.00	4.1X
ECHE	85.89	46	eP	15	55.00	1.0	DOI	93.49	44	P	16	30.50	0.8	ELL	108.08	56	ePKP	21	58.00	15.8X
ECRI	86.27	43	eP	15	56.50	0.6	LPL	93.53	43	eP	16	30.40	0.4	CTA	128.25	225	iPKPc	22	21.00	-0.1
BLF	86.28	119	iPc	15	55.60	-0.8		1.0s	48.00nm			5.8mb			0.9s	19.33nm				
	0.7s	32.00nm			5.4mb		LPG	93.54	43	eP	16	30.60	0.5				e	22	49.00	
VAL	86.69	32	iP	15	58.50	1.0		1.0s	51.00nm			5.8mb		KLB	130.11	188	ePKP	22	24.00	-0.3
EROQ	87.38	46	eP	16	02.00	0.8	EMS	93.87	43	ePd	16	31.70	0.2	MAIO	131.81	57	ePKP	22	36.00	8.5X
EBR	87.44	46	eP	16	02.00	0.6	PGF	93.97	47	P	16	31.71	-0.2				i	24	49.00	
			eS	26	24.00		DOU	93.98	38	P	16	32.00	0.4				i	25	40.00	
			ec	26	36.00					i	16	36.80	15kmX	QIS	132.08	218	iPKPd	22	27.50	-0.8
YKA	87.75	341	eP	16	02.00	-0.5				S	26	58.00					e	22	56.40	
	0.8s	51.90nm			5.6mb		VITF	94.08	41	P	16	32.01	-0.1				e	25	44.00	
MAW	87.78	164	iPc	16	03.10	0.4	UCC	94.12	38	P	16	32.00	-0.2	WRA	135.49	213	PKP	22	27.00	-7.8X
	0.8s	41.00nm			5.5mb		CKI	94.15	45	P	16	32.00	-0.6		0.9s	3.10nm				
			e	16	32.00	110km	DIX	94.18	43	ePd	16	34.10	1.1	WB5	135.53	213	ePKP	22	34.50	-0.4
KSR	87.91	116	iPd	16	03.70	-0.7	LOMF	94.28	42	P	16	33.37	0.1				e	23	05.00	
	0.8s	25.00nm			5.3mb		BSF	94.44	41	P	16	33.74	-0.2				eSKP	25	54.80	
PRY	88.05	118	iPc	16	03.30	-1.7	MMK	94.53	43	ePd	16	35.70	1.1	QUE	138.81	65	ePKP	22	42.20	1.2
	0.7s	15.00nm			5.1mb		MOF	94.66	41	P	16	34.87	-0.1	MTN	143.07	215	ePKP	22	44.00	-4.6X
BST	88.10	37	P	16	03.89	-0.6	BBS	94.75	42	P	16	35.33	0.0	KSH	143.41	47	PKP	22	47.00	-1.8
EPF	88.33	44	eP	16	06.50	0.8	ECH	94.81	41	P	16	35.78	0.2	POO	145.36	83	iPKPd	22	53.00	0.5
	1.0s	40.00nm			5.4mb		CDF	94.96	41	P	16	36.21	-0.1	OFUJ	145.72	314	PKP	22	53.30	0.8
ESEL	88.64	47	eP	16	08.00	0.8	VAI	94.99	43	Pd	16	35.90	-0.5	GUA	146.50	267	ePKP	22	55.80	1.4
ECP	88.82	33	eP	16	06.00	-1.7	WLS	95.00	41	P	16	36.44	-0.1		0.8s	197.01nm				
SLR	89.13	117	iPc	16	09.50	-0.7	BOB	95.05	45	Pd	16	37.00	0.2	GUMO	146.55	267	ePKP	22	55.70	1.2
	0.9s	42.02nm			5.6mb		FEL	95.22	41	P	16	37.56	0.0		0.8s	240.12nm				
Z	20s	2.13um			5.6Msz		ZLA	95.32	42	ePd	16	38.30	0.3	PJG	146.55	267	ePKP	22	55.70	1.2
ETA	89.18	33	eP	16	08.40	-1.0	GWF	95.38	40	P	16	38.49	0.3				pP	23	21.90	

17d 11h

KOD	147.19	99	ePKP	22	57.00	1.0
YAMJ	147.28	314	PKP	22	58.10	3.0X
NDI	147.89	65	iPKPc	22	57.30	1.0
WMQ	148.01	32	PKP	22	57.00	0.8
	4.0s		700.00nm			
	Z 20s		0.50um			5.3Msz
			sPKP	23	35.00	
			PP	26	26.00	
GBA	148.03	93	PKPc	22	56.90	0.1
	1.2s		101.70nm			
KAKJ	148.11	310	PKP	23	00.20	3.8X
NIIJ	148.45	313	PKP	23	01.10	4.1X
CHJJ	149.03	311	PKP	23	03.00	5.1X
MTMJ	149.61	313	PKP	23	03.90	5.0X
HYB	149.70	86	ePKP	23	01.50	2.0
	1.0s		70.00nm			
IIDJ	150.07	311	PKP	23	05.00	5.4X
CN2	151.38	337	PKPc	23	01.00	-0.2
	Z 20s		0.40um			5.2Msz
			pPKP	23	32.00	
			PP	26	45.00	
TSRJ	151.41	313	PKP	23	08.40	6.9X
SNY	153.78	337	PKPc	23	05.20	0.6
TRT	154.28	185	ePKPc	23	13.80	7.7X
DMN	154.90	63	PKP	23	07.60	0.7
PKI	155.17	63	PKP	23	07.40	0.0
GUN	155.46	62	PKP	23	08.20	0.4
GTA	156.85	21	PKPc	23	10.20	1.2
			pPKP	23	39.80	
HHC	157.28	358	PKP	23	11.00	1.5
BJI	157.55	348	ePKP	23	10.50	0.9
BTO	157.56	1	ePKP	23	09.30	-0.5
TIY	160.36	355	ePKP	23	14.00	1.0
	Z 20s		0.50um			
	N 12s		0.20um			
TIA	160.98	343	ePKP	23	15.60	2.1
PSI	161.03	142	ePKP	23	13.50	-0.7
LZH	161.16	17	ePKP	23	16.50	2.6X
			SKKS	34	21.00	
XAN	164.05	4	PKPc	23	18.00	1.3
NJ2	164.12	333	PKPc	23	17.50	0.8
CD2	165.88	24	PKP	23	19.80	1.4
WHN	167.08	344	ePKPc	23	20.50	1.3
CHG	169.13	84	ePKPc	23	21.80	0.9
KMI	170.03	44	ePKP	23	23.00	1.5
GYA	170.98	22	PKP	23	23.00	1.2
			pPKP	23	53.00	
			e	24	42.20	
			PP	28	33.00	

S.D. = 1.1 on 298 of 325 obs.

& MAY 17, 1990 11h 25m 55.41s
63.190 N 150.587 W
DEPTH = 132.1km
CENTRAL ALASKA (1)
<AGS-P>.

HUR	0.48	116	iP	26	14.52	-0.4
			iS	26	29.19	
CUT	0.80	169	eP	26	16.87	-0.1
MCK	0.92	53	eP	26	17.72	-0.4
			eS	26	34.30	
SKT	1.29	200	iP	26	21.05	-0.7
			iS	26	41.93	
PWA	1.58	168	iPd	26	25.10	0.2
WRH	1.70	40	iP	26	25.44	-0.8
SML	1.74	142	iP	26	26.13	-0.7
PMR	1.74	156	iPd	26	26.30	-0.5
CCB	1.91	39	iP	26	27.86	-0.9
PMS	2.01	166	iPd	26	29.80	-0.3
FBA	2.11	34	iPd	26	30.40	-0.9
GLM	2.29	36	iP	26	32.72	-0.8
TOA	2.31	116	iPd	26	34.40	0.5
PAX	2.34	93	eP	26	34.09	-0.2
SLKM	2.70	176	iP	26	38.28	-0.5
RDT	2.76	199	eP	26	38.93	-0.8
GLI	2.84	143	iP	26	39.42	-1.2
VZW	2.86	137	eP	26	40.22	-0.7
DOT	2.97	78	iP	26	41.52	-0.8
SEW	3.14	170	eP	26	43.66	-0.9
SVW	3.15	231	iPd	26	43.40	-1.4
IMA	3.18	337	iPd	26	43.30	-1.9
CNPM	3.69	185	eP	26	50.93	-0.9

23 obs. associated

---

* MAY 17, 1990 11h 52m 45.97± 0.90s
27.363 S ± 6.0km 67.843 W ±16.4km
DEPTH = 107.1 ± 9.9 km
4.4mb (2 obs.)
CATAMARCA PROVINCE, ARGENTINA (130)

RTLL	3.99	188	iPc	53	48.20	2.0
ZON	4.23	190	iPd	53	52.00	2.5
			eS	54	44.00	
ANT	4.32	327	eP	53	51.00	0.4
			eS	54	43.00	
JACH	5.81	204	iP	54	12.80	1.5
PEL	6.26	202	iPc	54	17.00	-0.4
			i	55	25.00	
FCH	6.31	199	iPd	54	19.00	0.7
			iS	55	13.00	
SAN	6.54	201	iPd	54	21.00	-0.2
PCH	6.65	200	iPc	54	22.80	0.1
			iS	55	36.50	
TACH	6.81	202	iPd	54	23.00	-1.9
			iS	55	38.50	
LCCH	6.89	207	eP	54	24.30	-1.6
CHCH	6.98	200	eP	54	26.50	-0.8
			iS	55	53.00	
LNV	7.25	204	iPc	54	28.50	-2.4
			iS	55	43.00	
LPB	10.78	359	P	55	18.00	-1.0
ZOBO	11.04	359	P	55	24.00	1.4
SIV	12.94	30	P	55	45.40	-1.7
KIC	69.54	71	P	03	43.80	-1.6
ALQ	71.93	327	eP	04	00.00	0.3
ANMO	71.93	327	e(P)	04	00.20	0.5
MAW	78.46	163	iP	04	36.00	-0.1
KVN	81.03	323	eP	04	51.00	0.6
RSON	81.16	344	eP	04	50.00	-0.6
LRM	83.34	330	eP	05	03.50	1.2
BCAO	88.80	84	ePd	05	30.70	1.2
	0.6s		2.00nm		4.4mb	
YKA	97.01	340	eP	06	05.70	-0.4
	0.8s		1.20nm		4.5mb	
WRA	128.30	207	PKPd	11	40.90	-1.1
	0.5s		2.30nm			
WB5	128.34	207	ePKP	11	41.10	-1.0
GBA	144.85	106	PKPc	12	08.60	-3.9X
	0.7s		8.70nm			
HYB	147.48	101	iPKPd	12	19.00	2.2
	1.0s		30.00nm			

S.D. = 1.4 on 27 of 28 obs.

MAY 17, 1990 13h 21m 07.48± 0.10s
38.430 N ± 2.9km 74.363 E ± 1.7km
DEPTH = 114.0km (35 depth phases)
5.5mb (77 obs.)
TAJIK-XINJIANG BORDER REGION (719)
Felt (IV) in the Korgan oreo and ot Murgob; (III) at Dzhirgatol, Fergano, Khorog, Nurek and Osh, USSR. Also felt in the Muzofforabod oreo, Kashmir ond in the Islomobod oreo, Pokistan.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 13:21:12.2 0.6
Lat 38.12N 0.05 Lon 74.58E 0.04
Dep 115.7 2.1 Half-duration 2.8
Moment Tensor; Scale 10**17 Nm
Mrr= 0.41 0.10 Mtt=-3.59 0.19
Mff= 3.18 0.17 Mrt= 1.07 0.12
Mrf= 1.66 0.13 Mtf=-2.49 0.17
Principal Axes:

	Val=	Plg=	Azm=
T	4.42	18	255
N	0.46	65	30
P	-4.87	17	159

Best Double Couple:Mo=4.7*10**17
NP1:Strike=297 Dip=65 Slip= 179
NP2: 28 89 25

KSH	1.62	50	iPd	21	36.00	-0.6
			S	21	57.00	
QUE	10.25	219	iPc+	23	30.90	-2.1
			eS	25	18.50	
WMQ	11.40	58	iPc	23	44.50	-3.6X
MAIO	12.02	264	iPc	23	51.30	-5.0X
	1.0s		125.00nm		5.5mb	
			eS	26	02.00	
DMN	14.05	137	P	24	17.40	-5.4X
GUN	14.24	134	P	24	19.20	-6.1X
PKI	14.24	136	P	24	19.40	-5.9X
LSA	16.39	117	iPd	24	49.00	-3.5X
	4.0s		1700.00nm		5.7mb X	
			S	27	46.00	
TEH	18.52	269	ePc	25	18.00	0.1
			eS	28	50.00	
GTA	19.81	79	iPc	25	31.20	-0.2
	6.0s		2700.00nm		5.8mb X	
			pP	25	49.00	93kmX
			sP	26	07.00	
			S	29	05.00	
POO	19.83	181	iPd	25	32.00	0.4
	1.0s		182.00nm		5.4mb	
			iS	29	02.00	
HYB	21.25	169	iPd	25	46.50	0.5
	1.0s		320.00nm		5.6mb	
			e	26	24.00	
			iS	29	24.00	
			e	29	38.00	
			e	30	20.00	
TAB	21.99	278	iP+	25	55.00	1.7
			i	30	01.00	
			i	30	38.00	
SLY	23.18	272	iPd	26	07.50	2.9X
			iPP	26	35.00	
			iPPP	26	59.50	
			eS	30	14.00	
			eSS	31	02.00	
			eSSS	31	15.00	
LZH	23.54	87	Pd	26	10.00	1.7
	4.0s		1080.00nm		5.6mb X	
			pP	26	37.00	132kmX
			sP	26	46.00	
DHR	23.69	246	iPc	26	10.00	0.4
BHD	24.78	267	iPd	26	21.00	1.1
			iPP	27	13.00	
			iS	30	39.00	
			iSS	31	34.00	
			iSS	32	00.00	
MSL	24.82	275	ePd	26	20.00	-0.4
			eS	30	30.50	
			eSS	31	21.50	
			eSS	31	35.50	
GBA	24.88	173	Pd	26	21.60	0.6
	0.9s		350.70nm		5.8mb	
CD2	25.24	98	P	26	25.00	0.6
	1.4s		200.00nm		5.4mb	
			PP	27	03.40	
			S	30	42.00	
RYD	27.19	248	iPc	26	41.50	-0.7
KMI	27.41	111	Pd	26	44.50	0.1
	3.0s		400.00nm		5.5mb	
	Z 10s		1.90um		5.0MszX	
	N 10s		2.70um			
	E 10s		1.30um			
			pP	27	10.00	118km
			S	31	17.00	
BTO	27.48	74	P	26	45.50	0.7
	N 13s		2.20um			
	E 12s		1.60um			
			S	31	17.50	
			SS	32	39.50	
MJMA	27.50	251	eP	26	43.30	-1.8
XAN	28.12	88	iPd	26	50.00	-0.5
	N 10s		1.70um			
			pP	27	16.00	121kmX
KOD	28.21	174	eP	26	53.00	1.2
			eS	31	32.00	
HHC	28.61	73	Pd	26	55.50	0.5
	Z 20s		1.90um		4.7Msz	
			pP	27	20.00	112km
			S	31	38.00	
QASM	28.69	254	eP	26	56.00	0.2
CHG	28.96	126	eP	26	56.80	-1.4
	1.2s		31.64nm		4.8mb	
			eS	32	02.00	
KVT	29.42	287	iP	27	03.20	1.1
GYA	29.61	104	iPd	27	03.80	-0.2
	N 16s		3.10um			
			pP	27	30.00	121kmX
			S	31	52.00	
			sS	32	38.00	
			ScS	37	30.40	
TIY	29.84	79	Pd	27	05.60	-0.3
	Z 15s		2.10um		4.9MszX	
			pP	27	31.50	119km
			sP	27	48.00	

				S	31	54.00						e	37	12.00			ZST	41.91	303	iP	28	48.10	0.2
AFIF	30.07	251	eP		27	11.00	2.9X	BSI	37.89	145	eP		28	15.00	-0.1					i	29	15.20	118km
BDT	30.17	128	eP		27	07.90	-0.9	ASW	37.91	260	iPc		28	16.00	0.8					i	29	26.00	
KAS	31.08	288	iPc		27	17.20	0.4					eS	34	04.00						e	30	21.50	
HRI	31.57	273	eP		27	21.00	-0.1	PGB	37.95	293	iPc		28	17.00	1.6		BRY	41.92	295	eP	28	48.60	0.4
MDSJ	31.77	269	Pc		27	23.80	0.9	AKSR	38.04	259	iPc		28	18.50	2.2		HCY	42.06	294	eP	28	49.50	0.3
JARJ	31.78	271	P		27	23.90	0.9	APE	38.28	284	eP		28	18.50	0.3		KSP	42.10	307	iPc	28	49.60	0.2
LOE	31.79	124	eP		27	21.50	-1.6	DEV	38.30	298	ePc		28	20.00	1.8			0.9s	60.00nm				5.4mb
BURJ	31.89	271	Pd		27	23.30	-0.7	CN2	38.36	65	P		28	19.40	0.7					id	29	16.30	116km
NST	32.06	128	eP		27	26.00	0.6					pP	28	42.00	96kmX					i	30	33.00	
SALJ	32.07	270	Pd		27	25.90	0.4					sP	28	56.00						e	37	32.50	
BBTK	32.10	286	iPc		27	26.00	0.3					PP	29	51.00			SOP	42.35	302	iPc	28	53.00	1.5
KFNJ	32.13	270	Pc		27	26.40	0.5					PcP	30	31.00			VKA	42.42	303	iPc	28	52.80	0.7
BJI	32.22	74	eP		27	27.00	0.5					S	34	06.00				3.0s	515.00nm				5.8mb
	1.0s	42.00nm				5.2mb		MMB	38.46	291	ePc		28	20.00	0.3					i	28	54.70	6kmX
	Z 12s	1.51um				4.9MszX		OUR	38.56	289	ePc		28	20.52	0.1					i	29	19.30	
			epP	27	53.00	118km		VTS	38.63	293	iPc		28	22.00	0.7					i	29	35.40	
			esP	28	04.00			SRS	38.67	290	ePc		28	21.70	0.3					e	30	36.00	
			PcP	30	14.00			ARO	38.82	235	iP+		28	24.20	1.3					i	30	55.80	
			eS	32	34.00			SSE	38.82	86	eP		28	23.70	1.0					e	32	30.00	
			esS	33	08.00				Z 16s	0.90um					4.7MszX		TRO	42.62	335	iPd	28	53.50	0.1
			eScP	33	45.00				N 11s	1.00um							LCI	43.01	291	Pc	28	54.50	-2.4
MKRJ	32.28	270	Pd		27	27.90	0.6		E 11s	0.70um							PTJ	43.08	299	eP	28	55.10	-2.5
DSI	32.48	270	ePc		27	30.00	1.1					pP	28	50.00	115km		ZAG	43.08	299	iPc	28	58.00	0.6
LISJ	32.53	269	Pc		27	30.00	0.7					sP	29	00.00			KLM	43.09	138	eP	28	59.00	1.2
AYN	33.13	265	iPc		27	35.70	1.1					PcP	30	34.00			HFS	43.24	320	eP	28	58.20	-0.4
MBH	33.61	267	iPc		27	40.00	1.2					S	34	14.00				0.5s	199.70nm				6.1mb
WHN	33.68	91	Pd		27	40.00	0.6	KKB	38.88	292	iPc		28	23.00	-0.1			Z 18s	1.23um				4.9Msz
	1.2s	100.00nm				5.5mb		PAIG	38.89	289	ePc		28	23.40	0.2					LR	46	43.00	
	E 10s	1.10um						SOH	38.91	290	ePc		28	23.80	0.3		PRU	43.31	306	Pc	29	00.00	0.7
			pP	28	06.00	117km		SNG	39.13	136	eP		28	25.40	0.1			1.3s	57.80nm				5.2mb
			S	32	56.00							e	30	06.20	581kmX			N 13s	2.40um				
GPA	33.85	287	eP		27	39.00	-1.8					eS	34	10.10				E 12s	0.90um				
TIA	33.86	80	Pd		27	41.20	0.3	KNT	39.17	291	ePc		28	25.80	0.3					e	29	26.30	114km
			pP	28	07.40	118km		SOD	39.18	333	iPKP		28	25.20	0.0					PP	30	40.00	
			eS	32	58.30			BZS	39.23	298	eP		28	27.00	1.1					S	35	20.00	
WAJH	33.98	260	ePc		27	43.70	1.7	VAY	39.37	291	iPc		28	28.00	0.8					SS	38	22.00	
ALT	34.27	285	eP		27	45.00	0.5		1.2s	127.00nm					5.6mb		HVAR	43.35	295	ePc	28	58.90	-0.7
GBZT	34.40	288	iPc		27	45.00	-0.5					i	28	54.00	114km		BRG	43.57	307	iPc	29	01.60	0.3
YLV	34.50	288	iP		27	45.60	-0.8	NEO	39.39	288	eP		28	27.50	0.1			1.3s	130.00nm				5.5mb
CFR	34.71	296	eP		27	48.00	0.0	GRG	39.58	291	ePc		28	28.70	-0.3					i	29	08.00	21kmX
PSN	34.86	294	iPd		27	50.00	0.7	QZH	39.60	97	eP		28	29.00	-0.2					i	29	25.50	
KHL	34.89	284	iP		27	50.20	0.5		0.8s	100.00nm					5.7mb					i	29	40.00	
ELL	35.01	281	eP		27	51.00	0.1					S	34	28.00			VBY	43.64	299	iPc	29	02.60	0.6
CTT	35.09	289	eP		27	58.00	6.7X					sS	35	14.00			BRN	43.84	309	ePc	29	04.50	1.0
KSL	35.45	280	eP		27	55.00	0.6	SPC	39.72	304	iPc		28	31.40	1.2					e	29	42.50	173kmX
DMK	35.46	291	eP		27	54.20	-0.2					i	28	57.30	113km		KMR	43.89	303	iP+	29	04.40	0.4
VRI	35.65	298	ePc		27	56.50	0.5					i	29	08.80						ipP	29	30.20	111km
EDC	35.67	288	eP		27	57.10	0.9	LIT	39.73	289	ePc		28	29.70	-0.5					isP	29	41.70	
PTT	35.80	300	eP		27	57.50	0.3	VAM	39.82	282	eP		28	31.00	0.0					i	31	13.00	
JMB	36.21	292	iPc		28	02.00	1.3	KRA	39.85	305	iPc		28	30.70	-0.3		LJU	44.02	300	iPc	29	05.70	0.6
MLR	36.23	297	iPc		28	02.00	0.9		0.8s	108.00nm					5.7mb					e	29	32.00	114km
BUC1	36.31	295	ePc		28	04.00	2.5					i	28	33.00	8kmX					eS	35	31.00	
QIZ	36.33	112	eP		28	02.00	0.1					i	28	57.50						e	38	25.00	
	N 12s	2.50um										e	34	13.00			CLL	44.10	308	iPc	29	05.60	0.0
			eS	33	36.00			SKO	40.05	292	iPc		28	24.50	-8.2X			1.4s	105.00nm				5.4mb
HLW	36.35	270	eP		28	03.00	1.0					i	29	13.00	231kmX					epP	29	30.00	104km
NJ2	36.61	86	Pd		28	04.00	-0.2					i	29	16.80						isP	29	43.80	
	Z 12s	0.70um				4.7MszX						i	34	32.50						eS	35	30.00	
	N 11s	1.30um										i	35	16.00			CEY	44.16	300	iPc	29	06.90	0.6
			S	33	41.00							i	37	14.00						e	29	45.10	174kmX
			ScP	34	01.40							i	38	17.00			ORI	44.19	291	P	29	05.50	-1.1
			sS	34	24.00			KEV	40.05	337	iPKP		28	32.60	0.2		TDS	44.40	291	P	29	09.00	0.8
MTUR	36.88	297	ePc		28	07.00	0.6		0.8s	58.70nm					5.4mb		VOY	44.46	300	ePc	29	08.40	-0.3
CMP	36.89	297	iPc		28	15.00	8.5X					e	29	04.00	141kmX		NB2	44.49	322	P	29	07.80	-0.9
ALN	36.91	289	ePc		28	00.70	-5.9X					e	34	32.00			WET	44.52	305	iPc	29	09.70	0.6
EZN	36.94	288	iP		28	00.00	-6.8X					e	37	24.00				1.4s	152.00nm				5.6mb
PVL	36.98	293	iPc		28	09.00	1.8	BEO	40.17	297	iP		28	34.00	0.3		TRI	44.62	300	iPc	29	10.00	0.1
SMG	37.10	284	eP		28	09.00	0.8	VLI	40.36	284	eP		28	33.50	-1.8					ipP	29	37.40	119km
KDZ	37.21	291	iPd		28	10.00	0.8	FNA	40.38	291	ePc		28	35.30	-0.2					iPP	30	54.00	
RDO	37.23	290	eP		28	10.10	0.8	OHR	40.72	291	eP		28	37.20	-1.1					eS	35	36.00	
SNY	37.37	69	Pd		28	10.40	-0.1	IVA	40.96	294	eP		28	42.10	1.8					esS	36	24.00	
	1.2s	100.00nm				5.6mb		PVY	40.97	294	eP		28	42.00	1.6					eSS	39	12.00	
	Z 20s	1.50um				4.8Msz		ITM	40.98	285	iPc		28	39.00	-1.5					esSS	39	48.00	
	E 10s	0.80um						SRO	41.16	302	iP		28	42.60	0.9		BHG	44.79	303	iPc	29	11.30	0.1
			pP	28	34.00	100km						i	29	08.60	113km			1.5s	130.00nm				5.5mb
			sP	28	48.00							i	29	21.10			MGR	44.82	292	Pc	29	11.70	0.1
PLD	37.64	292	eP		28	14.00	1.2	PLE	41.22	295	eP		28	43.60	1.2		SGO	44.88	292	Pc	29	12.70	0.8
RZN	37.72	291	iPc		28	14.00	0.4	UPP	41.26	320	iP		28	42.00	-0.3		HOF	44.96	306	iPc	29	12.90	0.4
SUF	37.77	326	iP		28	14.00	0.5					i	28	43.80	6kmX		MOX	45.07	307	iPc+	29	14.00	0.6
	0.7s	79.00nm				5.7mb						i	29	08.60				1.4s	98.00nm				5.4mb
NUR	37.89	322	iPKP		28	14.60	0.0					iS	34	44.00				Z 18s	2.30um				5.2Msz
	0.6s	45.60nm				5.5mb		IGT	41.48	289	ePc		28	47.10	2.6X					ipP	29	40.00	112km
			e	28	41.00	116km		IPM	41.52	138	ePd		28	46.30	1.3		FVI	45.09	301	P	29	13.10	-0.4
			e	33	56.00							e	29	15.20	128kmX		DUI	45.17	294	Pd	29	15.20	0.8
			e	34	44.00			TTG	41.52	294	eP		28	44.80	0.1		BSS	45.17	293	Pc	29	14.50	0.2
			e	36	12.00			KEK	41.83	290	eP		28	46.00	-1.3		GRF	45.48	306	iPc	29	17.80	1.1

17d 13h

	1.7s	263.00nm			5.7mb		ROB	49.03	299	P	29	42.56	-1.9		ETA	55.29	313	eP	30	32.00	1.1							
	Z 22s	0.60um			4.5Msz		IMI	49.13	299	P	29	45.02	-0.2		EROO	55.40	298	eP	30	31.50	-0.4							
PPI	45.51	142	ePc	29	18.00	0.9	EMS	49.14	302	ePc	29	45.00	-0.5		ECP	55.56	313	eP	30	31.70	-1.1							
	0.4s	30.10nm			5.4mb		LSD	49.17	301	P	29	42.25	-3.5X			0.7s	53.00nm				5.6mb							
ATN	45.52	289	P	29	17.00	-0.1	VITF	49.18	305	P	29	45.23	-0.2		DAV	55.65	110	eP	30	34.00	0.0							
RFI	45.62	294	P	29	18.40	0.7	ENR	49.35	299	P	29	45.33	-1.7		AKU	56.67	330	iP	30	41.90	1.3							
ARV	45.74	297	P	29	19.20	0.4	DOI	49.39	300	P	29	46.60	-0.7			0.9s	23.53nm				5.2mb							
FUR	45.75	304	iPc	29	19.70	0.9	STV	49.41	299	P	29	45.62	-1.8		ECRI	56.69	301	iPc	30	41.00	-0.2							
	1.4s	220.00nm			5.7mb		AUTN	49.42	299	P	29	47.99	0.3		ECHE	56.87	297	iPc	30	42.30	-0.2							
AZI	45.81	295	Pc	29	20.00	0.7	LPG	49.43	301	iPc	29	47.90	0.1		ETOR	57.11	299	iPc	30	42.70	-1.5							
BAG	45.94	105	eP	29	20.00	-0.8		0.8s	62.95nm			5.6mb			VAL	57.87	313	iP	30	50.90	1.7							
SQTA	46.00	302	iPc	29	20.00	-0.9	LPL	49.44	301	iPc	29	47.80	0.0		TRT	58.08	134	iPc	30	48.00	-3.1X							
	1.2s	71.40nm			5.3mb		SBF	49.46	299	iPc	29	47.80	0.0		EVIA	58.36	296	iPc	30	52.80	-0.2							
		i		29	45.50	109km	MTMJ	49.46	71	P	29	47.60	-0.3		GUD	58.63	299	iPc	30	53.90	-1.0							
		i		31	48.50		AURF	49.52	299	P	29	48.36	0.1		REY	58.76	329	e(P)	30	57.00	1.8							
ASS	46.05	296	Pd	29	22.90	1.6	TOUF	49.54	299	P	29	48.53	0.0		TOL	58.89	298	iPc	30	56.00	-0.5							
OGA	46.20	302	iPc	29	21.90	-0.7	REVF	49.54	299	P	29	48.16	-0.2			1.1s	126.58nm				5.9mb							
MNS	46.23	295	Pc	29	22.80	0.1	UCC	49.55	308	P+	29	48.00	-0.2					ePP	33	04.00								
MEU	46.28	288	P	29	23.30	0.1				pP	30	16.00	120km					ePPP	34	32.00								
PZI	46.32	288	P	29	23.40	-0.1				e	32	10.00						eS	38	52.00								
SHK	46.38	76	eP	29	24.20	0.3	DOU	49.58	307	P	29	48.60	0.1		ENIJ	58.89	295	iPd	30	56.20	-0.4							
SFI	46.38	298	Pc	29	25.00	1.2				pP	30	16.00	117km		EBAN	59.47	296	iPd	31	00.10	-0.4							
RMP	46.38	295	P	29	24.10	0.2				pPP	32	10.00			AFC	59.71	295	eP	31	01.20	-1.2							
RDP	46.39	295	P	29	23.90	-0.1				S	36	50.00			ASMO	59.80	296	eP	31	02.00	-0.9							
CRE	46.39	297	P	29	24.50	0.4				sS	37	36.00			APHE	59.95	295	iPc	31	03.00	-1.0							
PGD	46.49	298	Pc	29	26.00	1.1				Lg	41	20.00			AAPN	60.09	296	iPc	31	03.40	-1.5							
GIB	46.64	289	Pd	29	25.20	-0.9	RRL	49.58	300	P	29	48.30	-0.6		ALOJ	60.17	295	eP	31	04.00	-1.5							
BLS2	46.69	319	iPc	29	26.50	0.3	BNI	49.61	301	Pc	29	48.50	-0.5		ATEJ	60.20	295	iPc	31	04.00	-1.7							
YONJ	46.73	75	eP	29	25.20	-1.5	MVIF	49.64	299	P	29	49.09	-0.2		EPLA	60.20	299	iPc	31	04.90	-0.6							
BLS1	46.74	320	iPc	29	26.50	0.0	KKM	49.72	120	ePd	29	50.50	0.4		EHOR	60.65	297	eP	31	08.00	-0.5							
OSS	46.83	302	ePc	29	27.00	-0.6		1.3s	173.60nm			5.8mb			BCAO	60.83	251	iPc	31	08.80	-1.3							
SAL	46.85	300	Pc	29	27.50	0.0	MRRJ	49.76	63	eP	29	49.30	-0.7			1.0s	186.00nm				6.1mb							
STU	46.97	305	iPc	29	28.90	0.5	CALN	49.87	299	P	29	50.80	-0.2					ic	31	47.10	163kmX							
	1.0s	60.00nm			5.3mb		IIDJ	49.97	73	P	29	52.50	0.8					ic	32	33.30								
MME	47.11	298	Pd	29	30.90	1.0	FRF	50.09	299	iPc	29	52.10	-0.4		EPRU	61.04	296	eP	31	10.00	-1.3							
TNS	47.13	307	ePc	29	29.70	-0.1		1.2s	101.15nm			5.6mb			EJIF	61.45	295	iPd	31	12.60	-1.4							
FAI	47.16	288	P	29	31.00	1.0	NIIJ	50.10	70	P	29	51.60	-1.0		NKM	61.89	294	iPc	31	15.80	-1.1							
BDI	47.22	298	Pc	29	30.30	-0.2	LMR	50.26	298	iPc	29	53.30	-0.5		IFR	62.62	292	iPc	31	22.00	0.0							
SAX	47.23	303	ePc	29	30.10	-0.7		1.3s	65.00nm			5.4mb						i	31	51.00	119km							
KBS	47.34	347	eP	29	31.10	0.1	ASAJ	50.30	60	eP	29	53.50	-0.6		AVE	64.39	293	iP	31	33.00	-0.4							
MDI	47.36	301	Pc	29	30.00	-1.4	LRG	50.32	299	iPc	29	54.00	-0.2					i	31	58.50	102km							
PII	47.36	298	P	29	31.10	-0.4		1.3s	90.25nm			5.6mb			MBC	65.27	4	iPc	31	38.40	0.0							
BER	47.40	321	iPd	29	31.80	0.2	YAMJ	50.51	69	eP	29	54.50	-1.2			0.6s	286.00nm				6.4mb							
ASK	47.46	321	iPc	29	32.30	0.2	CHJJ	50.55	71	P	29	55.20	-0.9					pP	32	07.00	116km							
LLS	47.55	302	ePc	29	32.40	-0.9	LOR	50.82	304	iPc	29	57.10	-0.9		TIO	65.49	291	iPc	31	40.40	-0.3							
IKSJ	47.64	76	eP	29	33.40	-0.4		1.1s	51.30nm			5.4mb						i	32	08.50	113km							
SLE	47.66	304	ePc	29	33.10	-0.8	LBF	50.83	304	iPc	29	57.10	-1.0					i	32	18.90								
WIT	47.71	311	eP	29	34.00	-0.1		1.2s	50.60nm			5.3mb			IMA	69.46	19	iPc	32	04.50	-0.4							
		epP		30	01.00	116km	SMF	51.02	303	iPc	29	59.00	-0.5			1.0s	41.30nm				5.2mb							
WTS	47.79	310	ePc	29	35.00	0.3	SSF	51.11	304	iPc	29	59.50	-0.7		TTA	71.26	22	ePc	32	16.80	1.0							
	0.6s	31.00nm			5.3mb			1.2s	78.85nm			5.5mb			INK	71.55	11	ePc	32	17.40	0.1							
		epP		30	01.50	113km	AVF	51.29	304	iPc	30	01.10	-0.5			0.7s	61.00nm				5.5mb							
		esP		30	12.50		HOOJ	51.32	62	eP	30	01.80	0.0					pP	32	46.50	116km							
ZLA	47.80	303	ePc	29	34.00	-1.0	OFUJ	51.36	67	P	30	01.60	-0.6		CFTV	71.84	292	eP	32	19.80	0.0							
BOB	47.81	299	Pc	29	35.90	0.8	KAKJ	51.37	71	P	30	01.10	-1.2		FBA	71.85	18	iPc	32	18.70	-0.5							
TMA	47.83	301	ePc	29	34.30	-1.1	BGF	51.70	303	iPc	30	03.90	-0.8		NANU	71.92	140	eP	32	20.30	0.3							
GWF	47.93	305	P	29	35.87	-0.1	JNW	51.89	336	eP	30	07.00	1.2			0.3s	7.00nm				4.9mb							
FEL	47.95	304	P	29	35.51	-0.7	MAF	51.99	303	iPc	30	06.70	-0.2		BUL	72.36	225	iPd	32	14.40	-8.5X							
VAI	47.97	301	Pc	29	34.80	-1.3	KUSJ	52.06	61	eP	30	06.30	-1.1			0.9s	33.61nm				5.1mb							
WLS	48.24	305	P	29	37.86	-0.5	TCF	52.20	303	iPc	30	08.20	-0.3		SVW	72.79	23	ePc	32	26.40	1.5							
CDF	48.29	305	P	29	38.42	-0.4		1.2s	89.25nm			5.6mb			MBL	73.02	136	iPd	32	26.70	0.1							
BBS	48.38	303	P	29	38.48	-0.9	LSF	52.66	303	iPc	30	11.00	-0.8		GGC	73.13	293	iP	32	28.20	0.9							
ECH	48.42	304	P	29	39.12	-0.6		1.2s	92.25nm			5.6mb			CTFE	73.38	293	iP	32	30.10	1.4							
MMK	48.46	301	ePc	29	39.00	-1.3	CAF	52.75	302	iPc	30	12.50	0.0		MTN	73.56	122	iPc	32	29.50	-0.3							
PCP	48.49	299	P	29	39.07	-1.2		1.2s	83.30nm			5.6mb			FRB	73.99	344	eP	32	31.00	-0.7							
TSRJ	48.50	73	P	29	40.70	0.3	EKA	52.78	316	P	30	11.00	-1.5		KNA	74.14	126	eP	32	32.70	-0.5							
MOF	48.53	304	P	29	40.25	-0.4		1.0s	56.60nm			5.5mb			KUK	74.22	265	eP	32	25.00	-8.8X							
ORX	48.56	301	P	29	38.76	-2.2	LDF	52.96	307	iPc	30	13.10	-0.9		PMR	74.27	20	iPd	32	33.00	-0.3							
MEM	48.58	308	P	29	40.80	0.0		0.8s	85.95nm			5.8mb				1.0s	37.50nm				5.1mb							
ENN	48.59	308	ePc	29	40.50	-0.4	RJF	52.99	302	iPc	30	14.30	0.1		TBT	74.45	294	iP	32	36.00	1.1							
	0.7s	13.00nm			4.9mb			1.4s	113.25nm			5.7mb			TOA	74.60	18	ePc	32	35.70	0.3							
		epP		30	07.50	115km	FLN	53.13	307	iPc	30	14.00	-1.2		KDC	76.44	24	ePd	32	46.20	0.5							
CKI	48.71	299	P	29	41.40	-0.5		1.2s	53.55nm			5.4mb			MEKA	76.79	140	eP	32	48.00	0.0							
WKYJ	48.72	75	eP	29	42.60	0.4	LPO	53.42	302	iPc	30	17.10	-0.3		SLR	77.05	222	eP	32	47.50	-2.1							
DBN	48.75	310	eP+	29	40.00	-2.1		1.2s	71.40nm			5.5mb				1.0s	20.00nm				4.9mb							
		epP		30	08.00	120km	GRR	53.49	307	iPc	30	16.90	-0.9		KIC	77.55	268	Pc	32	52.66	0.2							
		esP		30	20.00			0.8s	83.30nm			5.8mb				0.7s	68.50nm				5.6mb							
		ePP		31	36.00		LFF	53.63	302	iPc	30	18.80	-0.1		TIC	77.59	269	P	32	52.84	0.1							
		epPP		32	01.00			1.0s	92.00nm			5.7mb			MRWA	77.73	144	iPc	32	53.40	0.3							
		eS		36	40.00		MFF	53.63	304	iPc	30	18.00	-0.9		LIC	77.85	268	Pc	32	54.28	0.1							
		esS		37	23.00			1.2s	53.55nm			5.4mb				0.5s	41.00nm				5.5mb							
		eSS		40	40.00		LPF	53.72	306	iPc	30	18.60	-1.0		KSR	77.89	223	eP	32	52.70	-1.6							
BSF	48.75	304	P	29	41.89	-0.5		0.8s	21.50nm			5.2mb			PRY	78.44	222	eP	32	54.00	-3.3X							
PGF	48.78	297	P	29	42.22	-0.4	ESEL	54.07	296	eP	30	22.50	0.2			1.2s	30.00nm				5.0mb							
DIX	48.82	302	ePc	29	42.40	-0.7	YRH	54.34	313	eP	30	23.10	-1.0		YKA	79.16	4	eP	33	00.20	-0.3							
FIN	48.82	299	P	29	41.22	-1.6	EPF	54.59	300	iPc	30	24.60	-1.5			0.8s	41.40nm				5.3mb							
LOMF	48.86	303	P	29	42.04	-1.1		1.4s	47.90nm			5.3mb			BAL	79.23	144	eP	33	00.00	-1.3							

```
MUN     80.15 145 eP     33 06.00   -0.2
KLB     80.54 144 eP     33 07.00   -1.2
WB5     80.78 124 iPd    33 09.00   -0.7
WARB    80.79 134 eP     33 10.00    0.3
WRA     80.80 124 Pd     33 09.30   -0.6
        0.7s    27.50nm          5.2mb
SCH     81.33 338 eP     33 09.00   -3.2X
COOL    81.59 141 eP     33 14.00    0.3
SIT     81.63  16 iPc    33 15.70    2.1
PMG     82.60 108 eP     33 19.50    0.2
OIS     84.71 121 iPd    33 29.10   -0.8
        1.1s    15.00nm          4.8mb
FORR    85.20 136 iPc    33 32.00    0.0
        0.4s    65.00nm          5.9mb
FFC     87.16 358 iPc    33 41.70    0.2
        0.9s    55.00nm          5.6mb
EDM     88.48   5 eP     33 48.50    0.6
CBM     88.63 335 eP     33 50.00    1.3
                  epP    35 19.20 383kmX
CTA     88.96 117 iPd    33 50.50    0.0
        0.9s    34.45nm          5.5mb
                  i      34 23.00 125kmX
                  i      35 03.50
RSON    90.47 352 P      33 56.80   -0.4
        1.2s    34.62nm          5.4mb
PNT     91.76   9 eP     34 04.00    0.8
        0.8s    38.00nm          5.7mb
MCW     91.94  11 P      34 05.70    1.6
HBVT    92.49 337 P      34 07.80    1.2
WNY     92.70 338 eP     34 08.00    0.3
                  epP    34 37.90 114km
RSNY    92.76 338 P      34 09.00    1.1
        1.0s    24.58nm          5.5mb
GMW     93.04  12 P      34 10.40    1.2
NEW     93.08   8 iP     34 09.80    0.4
        0.9s    23.03nm          5.5mb
                  ipP    34 39.70 113km
RMW     93.28  11 P      34 11.80    1.5
LON     93.97  11 P      34 14.00    0.5
LRM     95.91   5 eP     34 23.20    0.6
RSSD    97.82 359 P      34 31.80    0.6
IMW     97.91   4 iP     34 33.10    1.3
                  epP    35 02.10 110km
DAU    101.37   4 Pdiff  34 51.40    4.2X
ALQ    106.99   1 e(PKP) 39 16.00   -5.4X
SPA    128.24 180 iPKPc  40 01.60    0.6
        1.0s    16.50nm
SIV    135.04 287 PKP    40 13.00   -2.2
AIA    144.06 208 ePKP   40 29.30   -0.7
RTLL   148.85 272 ePKPc  40 41.20    2.2
                  e      40 43.60
RTCB   149.17 272 iPKPd  40 45.20    5.6X
FCH    151.03 269 ePKP   40 51.00    8.4X
PEL    151.27 270 ePKP   40 50.50    7.9X
TACH   151.65 269 ePKP   40 51.00    7.9X
LNV    152.12 269 ePKP   40 51.20    7.5X
     S.D. = 0.9  on 364 of 391 obs.
-------------------------------------------
&  MAY  17, 1990   13h 59m 46.20s
   39.717 N          122.727 W
   DEPTH =   4.0km
 NORTHERN CALIFORNIA                ( 36)
      <BRK>. ML 2.7 (BRK).

LTCM    0.67  43 eP     59 59.00   -0.7
WDC     0.87   9 iPd    00 01.50   -2.0
                  iS     00 14.20
ORV     0.96  99 eP     00 03.80   -1.3
                  eS     00 19.20
FHC     1.45 319 eP     00 12.70   -0.6
CMB     2.48 132 eP     00 28.50    0.4
KVN     3.65  99 eP     00 44.00   -0.8
        6 obs. associated
-------------------------------------------
   MAY  17, 1990   15h 59m 56.53± 0.14s
   25.398 S ± 4.3km  178.101 E ± 3.0km
   DEPTH = 613.5km  ( 13 depth phases)
   5.8mb ( 55 obs.)
 SOUTH OF FIJI ISLANDS              (171)
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 12S, 29C
      Centroid Locotion:
      Origin Time        16:00: 5.9 0.4
      Lat 25.40S 0.04 Lon 177.63E 0.03
      Dep 629.3 2.1 Half-duration  3.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.44 0.15   Mtt= 4.02 0.23
        Mff=-4.46 0.22   Mrt=-0.67 0.22
        Mrf=-4.72 0.21   Mtf=-5.95 0.21
      Principal Axes:
       T  Val=  7.52   Plg=15   Azm= 32
       N          2.06      61      151
       P         -9.58      24      295
    Best Double Couple:Mo=8.6*10**17
     NP1:Strike= 75 Dip=61 Slip=-173
     NP2:        342     84      -29

SVA     7.25   3 ePc    01 48.40   -1.4
VUN     7.36   3 ePc    01 48.50   -2.3
NDF     7.63 355 iPd    01 53.00   -0.2
OVA     7.70   5 ePc    01 48.40   -5.5X
SGE     7.77 359 iPc    01 54.00   -0.7
KRO     8.13   9 ePc    01 57.30   -0.7
TVI     8.61  12 ePc    02 01.60   -0.9
NDE     8.84   8 eP     02 04.20   -0.5
DZM    11.18 285 iPd    02 29.10    1.8
                  iS     04 35.00
PVC    11.87 308 iPc    02 36.00    2.1
HBZ    12.17 179 P      02 33.00   -3.7X
                  S      04 37.00
WEL    16.09 189 Pd     03 14.00   -0.6
       1.3s   843.08nm          6.0mb
                  S      05 53.00
                  ScS    13 47.00
MSZ    20.93 201 P      03 57.20   -2.2
                  S      07 14.50
BRS    22.76 259 iPc    04 17.00    0.8
       0.6s    28.00nm          5.0mb
                  i      04 25.00   29kmX
                  i      07 47.10
                  i      10 27.80
HNR    23.45 309 eP     04 20.00   -2.3
                  eS     07 54.00
COO    23.69 251 iPd    04 25.60    1.2
RIV    24.83 244 eP     04 35.30    0.9
                  eS     08 18.70
RMO    26.39 261 iPd    04 49.40    1.3
CAN    26.90 242 iPd    04 53.50    0.9
                  i      08 51.90
CMS    28.95 250 iPd    05 10.70    0.5
       0.9s    367.00nm          6.0mb
TBI    29.58  93 iP     05 15.20   -0.4
       0.7s    170.00nm          5.8mb
CTA    29.80 274 iPd-   05 18.10    0.6
       1.0s    470.00nm          6.1mb
                  i      05 30.00   45kmX
                  i      06 46.00
                  i      07 02.90
                  iS     09 33.00
                  iScP   10 48.10
                  iSS    12 32.00
                  iScS   14 46.00
TOO    30.19 238 iPd    05 22.00    1.3
       0.6s    210.00nm          5.9mb
QLP    30.42 260 iPd    05 23.20    0.5
                  e      05 46.00 102kmX
AFR    30.84  82 iP     05 25.70   -0.6
PAE    30.97  82 iP     05 26.20   -1.2
       1.1s    360.00nm          5.9mb
PPT    31.01  82 iP     05 26.60   -1.1
       1.1s    445.00nm          6.0mb
PPN    31.15  82 iP     05 27.80   -1.1
TVO    31.23  83 iP     05 28.30   -1.3
BFD    32.40 240 iPd    05 40.00    0.8
RAB    32.62 306 eP     05 40.00   -1.3
       1.0s   1720.00nm          6.6mb
PMG    33.42 293 iPd+   05 48.00    0.1
       2.0s   6235.29nm          6.9mb X
PMO    33.46  79 iP     05 47.50   -0.7
       1.1s    515.00nm          6.1mb
VAH    33.60  79 iP     05 48.50   -0.9
       1.1s    370.00nm          5.9mb
TPT    33.71  79 iP     05 49.80   -0.5
       1.1s    740.00nm          6.2mb
RUV    33.84  79 iP     05 50.60   -0.8
       1.1s    665.00nm          6.2mb
LAT    35.07 297 eP     06 02.50    0.9
ADE    35.17 245 iPd    06 03.00    0.7
       0.6s    333.33nm          6.1mb
OIS    35.68 270 iPd    06 06.30   -0.3
                  eS     11 02.60
MNDI   38.09 294 eP     06 27.50    0.9
WB5    40.60 269 iPd    06 46.10   -0.4
                  i      11 28.30
                  iS     12 12.00
WRA    40.61 269 Pd     06 46.00   -0.6
       1.0s   463.60nm          5.9mb
RKT    42.67  97 iP     07 02.40   -0.4
       0.8s    40.00nm          5.0mb
FORR   44.14 251 iPd    07 13.20   -0.9
MTN    45.80 277 eP     07 26.00   -1.6
WARB   46.09 257 iPd    07 27.60   -1.5
       0.3s    42.00nm          5.4mb
KNA    46.95 272 iPd    07 35.20   -0.5
       0.4s   237.00nm          6.0mb
DRV    47.56 199 eP     07 38.80   -0.8
COOL   50.07 250 eP     07 57.00   -1.8
GUA    50.44 316 eP     08 01.10   -0.4
       0.8s   1211.94nm          6.4mb
GUMO   50.50 316 eP     08 00.60   -1.4
       1.1s   1517.08nm          6.3mb
                  eS     14 31.00
PJG    50.50 316 eP     08 00.50   -1.5
HON    51.91  29 P      08 10.80   -1.2
OPA    52.24  28 P      08 13.40   -1.0
SBA    52.79 183 iPc    08 18.00    0.3
KLB    52.82 249 iPd    08 17.30   -1.3
       0.7s    326.00nm          5.8mb
MEKA   53.12 255 iPd    08 18.90   -1.8
       0.3s     22.00nm          5.0mb
MBL    53.34 262 iPd    08 20.80   -1.5
       0.3s     44.00nm          5.3mb
KUPT   53.71 276 ePc    08 38.10   13.1X
BAL    53.88 250 eP     08 24.00   -2.0
MUN    54.06 248 eP     08 26.00   -1.2
       0.9s    605.00nm          5.9mb
MRWA   54.76 251 iPd    08 30.80   -1.4
       0.3s     30.00nm          5.1mb
NANU   56.78 259 iPd    08 45.40   -0.7
       0.3s     67.00nm          5.4mb
DAV    60.41 295 eP     09 08.00   -2.3
       0.9s    672.27nm          5.9mb
                  eS     16 40.00
TRT    64.59 273 iPd    09 35.80   -1.4
       0.9s    498.20nm          5.9mb
SPA    64.75 180 iPc    09 38.80    1.1
       0.8s    125.83nm          5.4mb
TSM    65.20 288 ePd    09 42.10    1.2
       1.1s    598.40nm          5.9mb
KKM    67.71 289 ePd    09 56.00   -0.4
       1.2s    534.80nm          5.9mb
                  e      10 08.00   41kmX
BAG    69.73 300 ePd-   10 06.00   -2.5
       1.1s    506.33nm          5.9mb
                  eS     18 28.00
KAKJ   70.96 328 P      10 15.00    0.0
CHJJ   71.41 327 P      10 16.80   -0.8
IIDJ   71.49 326 P      10 17.50   -0.7
WKYJ   71.72 324 eP     10 18.80   -0.7
KAGJ   72.14 319 eP     10 21.40   -0.5
NIIJ   72.35 328 P      10 23.00    0.0
TKSJ   72.37 323 eP     10 22.30   -0.9
MTMJ   72.41 327 P      10 22.90   -0.6
TSRJ   72.52 325 P      10 24.40    0.4
YAMJ   72.62 329 eP     10 23.90   -0.6
OFUJ   72.63 331 P      10 24.50    0.0
KUMJ   73.14 320 eP     10 26.90   -0.7
YONJ   73.59 323 eP     10 29.10   -1.0
SHNJ   74.12 321 eP     10 32.20   -0.8
HOOJ   74.71 334 eP     10 38.10    2.0
KUSJ   74.77 335 eP     10 37.70    1.3
MRRJ   75.65 333 eP     10 42.10    0.9
MAW    75.74 201 iPd    10 41.30   -0.2
       0.7s     60.00nm          5.2mb
QZH    76.25 306 Pd     10 45.00    0.1
       1.2s    400.00nm          5.8mb
                  iS     19 41.00
ASAJ   76.43 335 eP     10 47.60    2.1
ADK    77.08   3 iPc    10 48.60   -0.2
KGM    77.15 278 ePc    10 50.90    0.8
       1.0s    909.10nm          6.2mb
SSE    78.21 313 Pd     10 55.00   -0.3
                  sP     14 02.30
                  S      20 00.00
PPI    78.70 275 eP     10 57.50   -0.7
       1.0s    152.50nm          5.4mb
QIZ    79.70 297 Pc     11 04.30    1.0
IPM    80.34 280 ePd    11 07.70    1.0
       0.9s    523.20nm          6.0mb
NJ2    80.36 312 iPd    11 06.50    0.1
```

17d 16h

	3.5s	700.00nm			5.6mb X	SHW	89.40	37	P	11	51.20	1.2	AYN	146.19	284	ePKPc	18	28.70	0.0
		S	20	24.00		GMW	89.95	36	P	11	53.00	0.6	JARJ	146.28	291	PKPc	18	31.70	2.8X
PSI	81.39	277 ePd	11	11.00	-1.1	LON	89.98	37	P	11	52.10	-0.5	BURJ	146.40	291	PKPd	18	32.00	2.9X
SNG	81.86	282 eP	11	15.50	1.1	HHC	90.27	316	P	11	55.00	0.9	HRI	146.40	292	ePKP	18	29.00	-0.1
	1.2s	353.13nm			5.8mb	PGC	90.31	34	eP	11	54.00	0.1	MASJ	146.48	290	PKPc	18	32.10	2.9X
		e	14	35.00		TTA	90.40	12	iPd	11	54.80	0.6	KAS	146.50	307	ePKP	18	33.00	4.1X
		eS	20	43.50		RMW	90.42	36	P	11	55.00	0.4	SALJ	146.50	290	PKPc	18	32.10	2.9X
WHN	82.56	309 iPc	11	19.00	1.4				pP	14	08.50	620km	LISJ	146.69	289	PKPc	18	32.80	3.5X
	1.5s	300.00nm			5.6mb	CD2	90.47	304	P	11	56.00	0.8	DSI	146.77	289	ePKP	18	29.00	-0.5
DL2	82.94	319 Pd	11	18.00	-1.3		1.3s	300.00nm			6.1mb		HQL	147.04	285	ePKP	18	30.30	0.3
	5.0s	700.00nm			5.5mb X	PMR	90.62	15	iPc	11	54.70	-0.4	BADA	147.04	284	iPKPc	18	30.30	0.3
		S	20	41.00			1.3s	61.30nm			5.4mb		MBH	147.20	286	iPKPc	18	30.00	-0.3
BLP	83.38	47 P	11	22.70	1.1	MSU	91.07	47	P	11	58.80	0.8	LFK	148.02	296	iPKP	18	35.50	4.0X
SYP	83.64	47 eP	11	24.00	0.9	BTO	91.11	315	P	11	59.00	1.0	CSS	148.23	296	ePKP	18	36.00	4.2X
SNY	83.75	322 iPd	11	23.00	-0.2	LNV	91.49	129	ePd	12	00.30	0.4	AKSR	148.23	274	iPKPd	18	36.40	4.3X
		sP	14	28.00		DUG	91.54	46	P	12	00.10	0.0	AAHD	148.49	274	iPKPd	18	34.00	1.5
PRS	83.82	45 iPc	11	24.60	0.9	TOA	91.78	16	ePc	12	00.20	-0.4	AKRL	148.52	274	iPKPd	18	38.20	5.7X
		epP	13	34.30	610km	PEL	92.43	128	iPd	12	05.00	0.6	AGMR	148.65	274	iPKPd	18	34.80	2.1
GCC	83.85	44 iPc	11	24.50	0.7	DAU	92.67	46	P	12	05.70	0.2	CFR	148.79	317	ePKP	18	37.00	4.8X
PCC	83.90	44 eP	11	24.80	0.8	PNT	92.71	35	eP	12	05.00	0.0	PPCY	149.04	296	ePKP	18	37.70	4.7X
BCH	83.96	47 P	11	25.30	0.7	LZH	92.94	309	Pd	12	07.50	0.9	VRI	149.30	319	ePKPc	18	38.00	4.9X
TIA	84.03	315 Pd	11	25.50	0.7		5.0s	630.00nm			5.9mb	X	GPA	149.33	307	ePKP	18	34.00	0.7
CN2	84.08	325 iPd	11	25.00	0.2	PV09	93.10	49	eP	12	07.30	-0.2	ALT	149.86	305	ePKP	18	34.00	-0.3
		sP	14	31.00					esP	15	16.90		YLV	149.91	308	iPKP	18	39.50	5.3X
		SKS	20	48.00		ALQ	93.23	53	iPc	12	08.00	0.0	BCK	149.93	301	iPKP	18	39.70	5.3X
		S	21	02.00			1.0s	24.50nm			5.3mb		MLR	149.97	319	iPKPc	18	40.00	5.7X
PHAM	84.14	46 P	11	25.90	0.5				epP	14	20.00	609km	EKA	150.08	1	PKP	18	39.00	5.1X
PRI	84.15	46 ePc	11	26.60	1.1	ANMO	93.24	53	P	12	08.00	0.0		1.0s	16.20nm				
BRK	84.20	43 ePc	11	26.30	0.8		1.0s	22.25nm			5.2mb		KRA	150.14	331	ePKP	18	39.40	5.2X
BKS	84.22	43 ePc	11	26.70	1.0	NEW	93.43	37	P	12	08.00	-0.4		0.6s	90.00nm				
	1.0s	317.00nm			5.9mb		0.9s	7.68nm			4.8mb					e	18	40.10	
MHC	84.26	44 iPc	11	26.80	0.8	IMA	93.69	11	iPd	12	09.60	0.2				e	18	45.80	
LLA	84.26	45 iPc	11	26.60	0.7		1.4s	23.30nm			5.1mb					i	18	49.50	
ABL	84.33	47 P	11	27.20	0.6	FBA	93.80	14	iPc	12	08.50	-1.2				e	20	56.40	
ARN	84.33	44 P	11	26.80	0.5	IMW	94.67	43	P	12	14.50	0.0	HLW	150.28	286	ePKP	18	41.00	6.0X
PAS	84.62	48 eP	11	28.00	0.3				pP	14	28.70	622km	CTT	150.36	310	ePKP	18	40.00	5.2X
MWC	84.74	48 eP	11	29.00	0.5	LRM	94.75	41	eP	12	14.60	-0.1	KHL	150.51	304	ePKP	18	35.00	-0.3
FHC	85.00	40 eP	11	30.50	1.1	BW06	94.97	45	P	12	14.90	-0.9	CMP	150.62	319	ePKPc	18	49.00	13.9X
PLM	85.06	50 eP	11	31.00	0.9		1.0s	4.90nm			4.7mb	X	ELL	150.63	300	ePKP	18	42.00	6.5X
		e	13	42.00	615km				pP	14	29.80	626kmX	MTUR	150.63	319	ePKP	18	27.00	-8.2X
RVR	85.07	49 eP	11	30.00	0.1	GOL	96.25	49	P	12	21.60	0.0	SPC	150.64	330	ePKP	18	35.00	-0.2
PEC	85.16	49 P	11	31.00	0.6		0.9s	32.20nm			5.6mb					i	18	41.50	
SBB	85.17	48 eP	11	31.00	0.6	GLD	96.37	49	P	12	22.70	0.6	KSP	151.00	336	ePKP	18	35.20	-0.3
		e	13	43.00	621km		1.2s	50.51nm			5.7mb			0.7s	131.00nm				
FRI	85.28	45 iPc	11	30.90	0.2	GTA	97.32	310	P	12	27.20	0.8				id	18	42.40	
		epP	13	42.80	620km		1.2s	100.00nm			6.0mb					ic	18	53.50	
ISA	85.30	47 eP	11	32.00	1.0	SES	97.93	38	eP	12	28.00	-0.7				e	20	59.00	
		e	13	41.00	602kmX	RSSD	99.15	45	iPd	12	33.80	-0.7				ic	21	06.50	
CMB	85.47	44 iPc	11	32.20	0.4				epP	14	47.20	617km	KSL	151.03	299	iPKPc	18	42.50	6.6X
		epP	13	42.20	608km				e	15	40.50		BCAO	151.38	227	iPKPc	18	36.80	-0.3
		esP	15	00.90					i	16	43.40			0.2s	144.00nm				
		e	15	08.30		INK	99.94	16	eP	12	36.50	-0.7				id	18	43.80	
LOE	85.60	291 iPd	11	33.10	0.4	YKA	102.46	26	ePdiff	12	47.70	-0.9				ic	18	54.50	
ORV	85.71	42 ePc	11	33.20	0.4		0.9s	1.00nm			4.4mb	X				id	20	01.90	
		epP	13	43.70	611km	GUN	103.28	295	Pdiff	12	55.80	2.3	CLL	151.72	340	ePKP	18	37.00	0.6
WDC	85.72	41 iPc	11	34.70	1.9	ZOBO	103.38	115	ePdiff	12	49.50	-5.0X	BRG	151.80	339	ePKP	18	36.80	0.2
		epP	13	44.10	604km				e	14	33.00			1.0s	70.00nm				
BSI	85.86	278 ePc	11	33.00	-1.0	PKI	103.54	294	Pdiff	12	55.00	0.3				i	18	43.80	
CLC	85.97	47 eP	11	34.00	-0.2		0.8s	17.00nm			5.8mb					i	18	56.00	
		e	13	48.00	632kmX	DMN	103.80	294	Pdiff	12	56.30	0.5				epPKP	21	04.20	
GYA	86.04	302 P	11	35.20	0.4		0.8s	25.00nm			5.9mb		WIT	151.87	349	ePKP	18	45.00	8.4X
		SKS	21	05.00		GBA	105.22	278	Pdiff	13	06.00	4.1X	ALN	152.11	311	ePKPc	18	44.30	7.0X
TPC	86.05	49 eP	11	35.00	0.4		0.8s	3.30nm			5.2mb		PRU	152.34	337	PKPc	18	45.50	8.1X
MIN	86.13	42 ePc	11	34.80	-0.2	WMQ	107.39	311	ePdiff	13	11.00	-0.1				e	18	59.00	
NST	86.15	289 iPd	11	37.50	2.2	RSON	108.17	42	PKP	17	22.00	5.0X				epPKP	21	08.00	
GSC	86.21	48 eP	11	36.00	0.6	NDI	110.72	293	ePKP	17	21.50	-1.0	RDO	152.35	311	ePKP	18	45.00	7.3X
		e	13	47.00	613km	FRB	122.78	29	ePKP	17	43.00	-1.5	BZS	152.37	323	ePKP	18	36.00	-1.5
GLA	86.31	51 eP	11	37.00	1.1	SCH	124.75	40	ePKP	17	47.00	-1.7	SRO	152.52	330	ePKP	18	37.30	-0.4
		e	13	47.00	606km				pP	19	44.00					i	18	45.20	
BJI	86.94	317 eP	11	39.00	0.4	BUL	125.88	216	iPKPd	17	44.00	-8.1X	WTS	152.63	348	ePKP	18	45.50	7.8X
		esP	14	46.00					i	20	23.50			0.8s	31.00nm				
		eSKS	21	08.00		MAIO	126.96	297	ePKP	17	54.00	0.4				e	20	53.00	
		eS	21	31.00					e	19	33.00		MOX	152.73	341	ePKP	18	47.00	9.1X
KVN	87.52	44 P	11	42.40	0.8	KEV	132.49	347	ePKP	18	03.00	0.1		1.3s	24.00nm				
		pP	14	52.00		SOD	134.49	345	iPKP	18	05.80	-1.0				epPKP	21	04.00	
TNP	87.52	46 P	11	41.90	0.2				i	18	18.40		ZST	152.77	332	ePKP	18	38.60	0.6
BDT	87.83	290 eP	11	44.90	1.7	NUR	140.44	340	iPKP	18	11.00	-6.9X				e	18	46.80	
	1.0s	93.20nm			5.5mb		0.6s	24.80nm								e	19	00.70	
TIY	87.95	314 Pd	11	44.20	0.7				i	18	20.30					e	21	03.80	
	1.2s	200.00nm			5.8mb	UPP	142.98	344	iPKPc	18	19.40	-2.9X	KHC	153.40	337	iPKPc	18	39.40	0.5
XAN	88.32	309 Pd	11	45.60	0.4	NB2	143.26	349	PKP	18	20.20	-2.7				i	18	48.10	
KMI	88.45	299 Pd	11	47.50	1.3	HFS	143.64	347	ePKP	18	21.50	-2.0				i	19	03.60	
CHG	88.60	291 iPd	11	48.00	1.2		0.3s	70.20nm					BEO	153.50	323	e(PKP)	18	47.50	8.4X
	1.0s	131.00nm			5.8mb	KVT	144.93	306	ePKP	18	27.80	1.4				i	19	03.80	
		eS	21	22.00		WAJH	145.44	280	ePKPc	18	28.00	0.4	SRS	153.67	313	ePKPc	18	47.10	7.6X
SVW	88.80	12 iPc	11	46.80	0.0	BLS1	145.48	352	iPKP	18	28.20	1.4	GRF	153.69	341	ePKP	18	40.00	0.7
BMW	89.04	36 P	11	48.90	0.6	MDSJ	146.03	289	PKPc	18	30.80	2.3				e	18	48.80	

			e	19	05.30	
OUR	153.77	311	ePKPc	18	48.00	8.4X
PAIG	154.16	310	ePKPc	18	48.10	8.0X
VAY	154.24	314	ePKP	18	40.00	-0.2
SKO	154.62	316	ePKP	18	40.00	-0.7
PTJ	155.03	330	ePKP	18	40.50	-0.8
VAM	155.44	300	ePKP	18	53.10	11.0X
OHR	155.49	315	ePKP	18	42.50	0.5
LJU	155.55	332	ePKP	18	42.00	0.1
			e	19	12.00	
VBY	155.65	330	ePKP	18	42.60	0.6
			e	19	12.80	
FVI	155.82	335	PKP	18	37.00	-5.2X
			e	19	12.00	
VOY	155.83	332	ePKP	18	41.40	-1.0
			e	19	12.60	
CEY	155.83	331	ePKP	18	42.40	0.1
			e	19	13.00	
ITM	156.56	306	ePKP	18	54.00	10.5X
VAI	157.85	340	PKP	18	43.30	-1.3
			e	19	21.60	
BNI	159.20	343	PKP	18	45.00	-1.4
			i	19	29.00	
KIC	160.88	171	PKP	18	49.40	0.6
TIC	161.11	170	PKP	18	49.70	0.6
LKO	163.85	167	PKP	18	51.94	0.2
	0.3s		18.50nm			
IFR	171.44	18	ePKP	19	13.00	16.5X
			i	19	23.00	

S.D. = 1.0 on 229 of 276 obs.

? MAY 17, 1990 16h 15m 12.88± 8.34s
16.706 N ±26.5km 60.632 W ±68.5km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.6 (FDF).

SFG	0.70	230	eP	15	26.59	0.2
SEG	0.89	250	eP	15	28.73	-0.3
MGG	1.02	220	eP	15	31.83	0.9
			S	15	41.20	
PAG	1.21	236	eP	15	33.50	-0.1
			S	15	45.20	
BPA	1.22	286	eP	15	33.80	0.1
			S	15	45.60	
BBL	1.43	215	eP	15	35.90	-0.9

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

? MAY 17, 1990 16h 42m 00.26± 1.51s
42.479 N ±38.2km 45.178 E ±22.7km
DEPTH = 33.0km (normal)
3.9mb (3 obs.)
EASTERN CAUCASUS (337)

NUR	21.95	332	iP	46	53.20	0.8
KHC	22.90	298	eP	47	03.10	1.1
SUF	23.16	338	eP	47	08.00	3.7X
CLL	23.53	303	eP	47	07.00	-1.1
			eSg	08	12.00	
HFS	26.07	324	eP	47	31.70	-0.4
	0.5s		2.10nm		4.0mb	
NB2	27.58	324	P	47	45.60	-0.4
	0.9s		3.60nm		4.0mb	
GUN	35.94	100	P	49	00.00	0.0
BCAO	44.69	219	ePd	50	25.00	13.1X
	0.8s		11.00nm			
			id	51	30.00	
YKA	74.12	350	eP	53	38.50	4.0X
	0.8s		0.50nm		3.6mb	

S.D. = 1.1 on 6 of 9 obs.

& MAY 17, 1990 17h 02m 40.70s
32.860 N 115.680 W
DEPTH = 7.0km
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.5 (PAS). Felt (IV) at Imperial and Seeley; (III) at El Centro, California.

IKP	0.42	240	iPd	02	48.90	-0.3
GLA	0.74	75	iPc	02	54.00	-1.5
HAY	0.85	2	ePc	02	56.40	-0.9
BAR	0.85	258	iPc	02	56.60	-0.9
PLM	1.11	297	eP	03	00.30	-1.6
PEC	1.61	310	eP	03	08.80	-0.9

6 obs. associated

? MAY 17, 1990 17h 06m 04.17± 1.37s
50.319 N ±24.4km 19.036 E ±10.9km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.9 (KRA).

KRA	0.64	114	iPgc	06	17.00	0.0
			iSg	06	26.50	
SPC	1.38	145	iPn	06	29.50	-0.1
			i(Sg)	06	49.80	
KSP	1.83	288	ePn	06	35.80	0.0
	0.8s		27.00nm			
			iPg	06	38.00	
			iS	07	01.90	
			i	07	04.30	
ZST	2.47	212	eP	06	35.80	-9.3X
			e	07	16.30	
			e	07	33.00	
PRU	2.91	265	Pg	06	57.80	6.5X
			eSg	07	34.50	
BRG	3.29	282	e(Pg)	07	06.00	9.2X
			e	07	50.00	
KHC	3.74	254	ePn	07	03.20	0.1
			ePg	07	08.60	
			Sg	07	57.00	
			eSg	38	37.20	

S.D. = 0.1 on 4 of 7 obs.

MAY 17, 1990 17h 37m 55.21± 0.30s
14.931 N ± 5.6km 147.423 E ± 5.6km
DEPTH = 34.9km (2 depth phases)
4.8mb (6 obs.) 4.8Msz (1 obs.)
MARIANA ISLANDS REGION (215)

GUA	2.80	241	eP	38	37.70	-1.0
			eS	39	13.60	
GUMO	2.82	242	eP	38	38.70	-0.2
PJG	2.82	242	eP	38	38.70	-0.2
IIDJ	22.17	339	P	42	50.40	0.5
CHJJ	22.34	342	P	42	50.30	-1.2
MTMJ	23.21	340	P	42	58.50	-1.6
NIIJ	23.45	343	P	43	02.10	-0.2
PMG	24.18	181	eP	43	10.00	0.4
SSE	28.91	308	eP	43	51.80	-1.4
			pP	44	00.20	29km
QIS	36.09	192	eP	44	55.50	-0.4
WB5	36.90	201	eP	45	02.50	-0.1
WRA	36.97	201	P	45	03.00	-0.2
	0.8s		13.90nm		4.9mb	
BJI	37.01	319	eP	45	05.00	1.6
TIY	38.37	313	eP	45	16.20	1.2
XAN	39.57	306	P	45	25.60	0.6
GYA	39.66	294	P	45	29.80	3.9X
BTO	41.35	316	eP	45	37.90	-1.7
CD2	42.96	299	eP	45	54.20	1.4
LZH	44.16	307	eP	46	05.50	2.8
	2.0s		28.00nm		4.7mb	
CHTO	46.45	282	eP	46	20.90	0.0
			e	46	32.40	41km
GTA	48.18	310	eP	46	35.40	0.9
	Z 20s		1.00um		4.8Msz	
LSA	53.62	296	P	47	16.40	0.2
WMQ	58.04	313	eP	47	47.00	-0.3
GUN	58.21	294	P	47	49.20	0.1
PKI	58.63	293	P	47	51.60	-0.4
	0.8s		17.00nm		5.2mb	
DMN	58.90	293	P	47	52.80	-1.0
HYB	65.87	283	eP	48	40.50	0.4
INK	72.19	23	eP	49	18.00	-0.2
MBC	76.37	14	eP	49	42.00	-0.2
	0.8s		6.00nm		4.7mb	
MAIO	79.68	305	eP	50	03.00	1.7
WDC	80.48	51	eP	50	05.60	0.3
YKA	80.53	28	eP	50	04.00	-1.1
	0.7s		4.50nm		4.6mb	
PNT	80.74	41	eP	50	06.00	-0.5
ORV	81.47	51	eP	50	10.50	0.0
PRS	82.27	55	eP	50	15.10	0.3
CMB	82.65	53	eP	50	16.90	0.1
FRI	83.42	54	eP	50	20.80	0.1
KVN	84.15	51	eP	50	25.00	0.4
TNP	85.07	52	eP	50	29.80	0.6
SES	85.81	39	ePd	50	32.50	0.0
LRM	86.32	44	eP	50	35.40	0.0
SUF	90.23	337	eP	50	52.00	-1.4
HFS	96.48	339	eP	51	20.90	-1.2
	1.6s		32.90nm		5.6mb	
KIC	145.23	306	PKP	57	31.60	-0.3
TIC	145.27	306	PKP	57	31.80	-0.2
LIC	145.54	306	PKP	57	32.60	0.2
ZOBO	145.76	97	PKP	57	35.00	1.6
LPB	145.80	98	PKP	57	33.00	-0.3
SIV	152.52	96	PKP	57	50.00	6.8X

S.D. = 0.9 on 47 of 49 obs.

? MAY 17, 1990 17h 58m 07.65± 1.06s
19.460 S ±51.5km 176.769 W ±25.5km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
FIJI ISLANDS REGION (181)

PMG	36.27	281	eP	05	10.50	0.5
WB5	45.88	261	eP	06	29.60	0.5
WRA	45.90	261	Pc	06	29.70	0.5
	0.3s		2.00nm		4.5mb	
WARB	52.25	252	eP	07	19.00	0.8
MBL	59.12	257	iPd	08	06.00	-1.7
NANU	62.79	254	iPd	08	31.40	-1.1
	0.3s		7.00nm		5.3mb	
FRI	77.74	43	eP	10	07.10	4.1X
CMB	77.92	42	eP	10	07.90	3.8X
PNT	85.15	33	eP	10	43.00	1.4
YKA	95.09	24	eP	11	25.60	-2.5
	0.5s		0.50nm		4.2mb	
CLL	147.29	349	iPKPd	17	42.60	-4.1X
	0.9s		11.00nm			
FLN	150.61	5	ePKP	17	51.70	-0.3
	0.6s		5.40nm			
LDF	150.81	5	ePKP	17	51.50	-0.8
	0.6s		3.60nm			
CDF	150.93	354	ePKP	17	52.20	-0.4
GRR	150.95	6	ePKP	17	52.70	0.2
	0.4s		2.30nm			
LPF	151.29	6	ePKP	17	53.60	0.6
	0.4s		2.30nm			
LOR	152.26	359	ePKP	17	55.50	1.0
	0.6s		2.70nm			
SSF	152.47	360	ePKP	17	56.10	1.3
	0.8s		2.70nm			

S.D. = 1.2 on 15 of 18 obs.

& MAY 17, 1990 18h 49m 48.80s
37.372 N 121.753 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.6 (BRK).
Mo=5.0*10**14 Nm (BRK). Felt at Milpitas and San Jose.

MHC	0.09	109	iPc	49	51.10	-0.1
ARN	0.18	97	iPd	49	52.30	-0.3
GCC	0.39	210	iPd	49	56.90	0.2
PCC	0.52	285	iPc	49	58.90	-0.3
BKS	0.63	323	iPc	50	01.30	-0.2
			iS	50	12.30	
BRK	0.64	321	ePc	50	01.30	-0.4
SAO	0.65	158	iPd	50	01.70	-0.2
LLA	0.99	139	iPc	50	06.70	-1.2
PRS	1.08	163	ePd	50	08.10	-1.3
CMB	1.27	58	ePd	50	11.20	-1.5
			eS	50	25.40	
NWRM	1.41	321	eP	50	12.50	-2.3
FRI	1.68	102	ePd	50	16.50	-2.2
PKEM	1.86	134	eP	50	19.50	-1.8
PHAM	1.88	144	eP	50	19.70	-2.0
ORV	2.19	5	eP	50	24.00	-2.1
BCH	2.57	148	eP	50	28.60	-3.0
ABL	3.25	140	eP	50	38.30	-3.0
KVN	3.33	59	eP	50	42.00	-0.5
TNP	3.66	77	eP	50	46.50	-0.8
PLM	5.66	134	eP	51	15.50	-0.1
GLA	7.12	125	eP	51	33.30	-2.7

21 obs. associated

• MAY 17, 1990 18h 54m 11.19± 0.72s
4.243 N ±11.0km 96.034 E ± 9.1km
DEPTH = 33.0km (normal)
4.7mb (5 obs.) 4.6Msz (1 obs.)
NORTHERN SUMATERA (706)

IPM	4.99	86	eP	55	24.10	-1.7
	0.7s		98.80nm			
			e	56	16.90	
			e	56	45.00	

17d 18h

```
SNG      5.41   57 eP     55 26.00   -5.7X
         1.3s    953.85nm          6.2mb X
KLM      5.71  101 eP     55 35.20   -0.8
PPI      6.39  137 eP     55 51.50    6.0X
                 eS     56 48.50
CHG     14.76   11 eP     57 40.90    1.4
GBA     20.58  298 Pc     58 49.50   -0.5
         1.0s     10.80nm          4.2mb
HYB     21.56  309 iP     58 59.00   -1.1
KMI     21.74   17 eP     59 05.00    2.9X
      Z  16s      1.60um          4.5MszX
      N  12s      0.60um
      E  12s      0.60um
GYA     24.32   24 P      59 28.40    1.2
LSA     25.74  350 P      59 37.50   -3.6X
CD2     27.51   14 P      59 56.80    0.0
XAN     31.98   20 P      00 37.00    0.4
LZH     32.50   12 eP     00 40.50   -0.7
GTA     35.17    5 eP     01 03.20   -1.1
TIY     36.53   22 eP     01 19.60    3.9X
      Z  18s      1.00um          4.6Msz
      N  15s      0.70um
QUE     37.68  316 eP     01 23.90   -1.7
BTO     38.32   17 eP     01 32.00    1.2
      N  14s      0.80um
      E  12s      0.50um
                 eS     07 20.00
BJI     40.01   24 eP     01 47.50    2.8X
         1.1s     21.00nm          4.8mb
      Z  16s      0.52um          4.5MszX
WB5     44.65  124 eP     02 23.90    1.0
WRA     44.66  124 Pd     02 23.60    0.7
         0.8s     2.70nm          4.2mb
CTA     54.92  118 ePc    03 41.50   -0.1
         1.5s    41.67nm          5.2mb
BCAO    77.24  274 ePd    06 06.30    1.8
         0.3s     5.00nm          5.0mb
                  id     06 13.00
      S.D. = 1.2   on  16 of  22 obs.
-------------------------------------------
&  MAY  17, 1990  19h 32m 41.20s
   32.860 N          115.680 W
   DEPTH =   7.0km
 CALIFORNIA-MEXICO BORDER REGION ( 45)
      <PAS-P>. ML 3.2 (PAS). Felt at
      Imperial, California.

IKP      0.42  240 iPd    32 49.50   -0.2
GLA      0.74   75 iPc    32 54.50   -1.5
HAY      0.85    2 eP     32 57.00   -0.8
BAR      0.85  258 iPc    32 57.20   -0.8
PLM      1.11  297 eP     33 00.80   -1.6
PEC      1.61  310 eP     33 07.50   -2.7
ABL      3.55  305 eP     33 36.00   -2.1
KVN      6.48  343 eP     34 22.50    2.9
         8 obs. associated
-------------------------------------------
?  MAY  17, 1990  19h 32m 50.22± 1.00s
   31.501 S ±31.7km   68.613 W ±22.2km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.16  275 iPd    33 05.00    0.1
RTLL     0.21   36 iPc    33 04.90   -0.1
RTCV     0.36  170 iPc    33 05.40    0.0
                 S      33 17.10
RTBS     0.73  257 ePd    33 08.10    0.0
                 S      33 22.00
      S.D. = 0.2   on   4 of   4 obs.
-------------------------------------------
?  MAY  17, 1990  19h 46m 04.37± 2.60s
   31.125 S ±44.5km   68.706 W ±23.1km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL     0.29  135 iPc    46 19.10   -0.1
RTC8     0.37  193 iPd    46 19.80    0.2
RTCV     0.75  169 ePc    46 22.50    0.0
                 S      46 35.30
RTBS     0.83  230 ePd    46 23.20   -0.1
                 (S)    46 35.50
      S.D. = 0.2   on   4 of   4 obs.
-------------------------------------------
*  MAY  17, 1990  19h 51m 18.13± 1.54s
   15.890 N ±18.1km   95.476 W ±12.0km
   DEPTH =  51.5 ± 15.5 km
   4.6mb (  2 obs.)

 NEAR COAST OF OAXACA, MEXICO     ( 66)

PSM      0.91   27 iPd    51 33.43   -1.5
OXX      1.68  315 iP     51 46.00    0.2
                 iS     52 15.00
SCX      2.85   72 P      52 03.79    1.5
                 eS     52 28.07
TPX      3.25  107 (P)    52 08.14    0.2
                 (S)    53 03.20
LVVM     3.94  347 eP     52 17.00   -0.5
IIT      4.12  319 (P)    52 30.07    9.7X
                 (S)    53 26.42
III      4.55  303 eP     52 27.00    0.7
                 (S)    53 15.00
IIJ      5.57  314 (P)    52 53.67   12.6X
                 (S)    54 17.27
SIV     46.44  131 P      59 39.40   -2.6
                 i      59 45.80
YKA     48.46  348 eP     59 57.50    0.3
         0.7s     0.90nm          3.9mb
BAO     56.38  121 e(P)   00 58.00    0.9
LKO     87.32   81 Pd     04 02.08    0.7
         0.6s    15.00nm          5.4mb
      S.D. = 1.5   on  10 of  12 obs.
-------------------------------------------
?  MAY  17, 1990  19h 58m 03.61± 1.16s
   14.811 S ±31.1km   72.679 W ±15.7km
   DEPTH = 100.0km  (geophysicist)
 PERU                             (116)

ARE      2.00  145 iPd    58 37.00    0.0
                 iS     58 59.60
PT03     3.13  285 iP     58 52.30    0.4
                 iS     59 27.70
PT06     3.67  285 e(P)   58 59.00   -0.4
                 iS     59 48.70
ZOBO     4.62  109 P      59 13.00    0.0
      S.D. = 0.5   on   4 of   4 obs.
-------------------------------------------
*  MAY  17, 1990  20h 07m 54.06± 2.12s
   17.840 S ±25.9km  178.648 W ±14.9km
   DEPTH = 585.7 ± 26.6 km
   4.5mb ( 13 obs.)
 FIJI ISLANDS REGION              (181)

DZM     14.63  251 iPc    11 01.00    2.1
CTA     33.23  260 iPd    13 45.90    0.5
         0.6s    26.00nm          5.0mb
PMG     34.23  280 eP     13 55.00    1.3
TOO     37.04  231 eP     14 17.00    0.3
QIS     39.44  259 iPd    14 35.80   -0.6
W85     44.40  260 iPd    15 15.00   -0.5
WRA     44.42  259 Pc     15 14.20   -1.5
         0.2s     4.40nm          4.6mb
MTN     48.57  268 iPd    15 46.80   -0.5
FORR    49.80  244 iPd    15 55.00   -1.1
         0.4s    30.00nm          5.2mb
KNA     50.25  264 eP     15 59.20   -0.4
WARB    51.09  250 iPd    16 04.80   -0.9
         0.4s    10.00nm          4.6mb
MBL     57.77  256 iPd    16 51.50   -1.0
         0.4s    10.00nm          4.4mb
NANU    61.53  254 iPd    17 17.10   -0.1
         0.3s    24.00nm          5.0mb
SYP     76.28   47 eP     18 45.00   -0.1
PRS     76.34   44 eP     18 45.50    0.3
BCH     76.57   46 P      18 47.00    0.4
PRI     76.71   45 eP     18 47.70    0.4
MWC     77.46   48 eP     18 51.00   -0.5
FRI     77.82   45 eP     18 53.00    0.0
PLM     77.86   49 eP     18 54.00    0.4
SBB     77.87   47 eP     18 53.00   -0.5
ISA     77.93   46 eP     18 55.00    1.2
CMB     77.95   43 eP     18 53.70   -0.1
ORV     78.09   42 eP     18 54.20   -0.3
CLC     78.62   47 eP     18 58.00    0.6
TPC     78.83   49 eP     18 58.00   -0.5
KVN     80.00   44 P      19 04.30   -0.4
TNP     80.07   45 P      19 04.50   -0.6
         0.7s     4.44nm          4.0mb
PMR     82.59   14 P      19 16.10   -1.0
         0.9s    15.83nm          4.5mb
PNT     84.81   34 eP     19 29.00    0.7
         0.7s    12.00nm          4.6mb
NEW     85.59   36 P      19 31.50   -0.6
         0.8s     7.71nm          4.4mb
ALQ     86.23   52 eP     19 35.00   -0.7
         1.0s     4.25nm          4.1mb
ANMO    86.23   52 P      19 35.30   -0.4
         0.9s     3.99nm          4.1mb
BW06    87.47   44 P      19 40.70   -0.7
SES     90.10   36 eP     19 53.00   -0.1
YKA     94.37   25 eP     20 11.30   -1.1
         0.5s     0.90nm          4.2mb
KSP    144.98  343 ePKP   26 27.80    1.4
CLL    145.35  347 iPKPd  26 28.40    1.4
         1.1s    14.00nm
BRG    145.54  346 e(PKP) 26 28.50    1.1
PRU    146.22  345 ePKP   26 31.00    2.5
KHC    147.25  345 ePKP   26 34.00    3.8X
FLN    149.12    2 ePKP   26 37.60    4.5X
         0.8s     8.05nm
CDF    149.13  352 ePKP   26 38.20    5.0X
         0.6s     3.60nm
LDF    149.30    2 ePKP   26 38.20    4.8X
         0.8s     6.70nm
GRR    149.48    3 ePKP   26 38.70    5.1X
         0.8s    10.75nm
HAU    149.64  353 ePKP   26 39.40    5.5X
BSF    149.76  353 ePKP   26 39.50    5.3X
         0.6s     3.60nm
LPF    149.83    3 ePKP   26 39.60    5.5X
         0.8s    10.75nm
LOR    150.58  357 ePKP   26 41.40    6.0X
         0.8s     5.35nm
SSF    150.81  357 ePKP   26 42.10    6.4X
         0.8s     5.35nm
LBF    150.86  356 ePKP   26 42.00    6.2X
         0.8s     4.05nm
MFF    151.29    2 ePKP   26 42.80    6.4X
         0.6s     3.60nm
BGF    151.34  358 ePKP   26 43.10    6.6X
         0.8s     6.05nm
TCF    151.62  359 ePKP   26 43.60    6.7X
         0.6s     1.80nm
      S.D. = 0.9   on  40 of  54 obs.
-------------------------------------------
?  MAY  17, 1990  20h 17m 43.82± 1.46s
   37.733 N ±13.1km   14.871 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 SICILY                           (398)

MNO      0.24  325 P      17 49.30    0.2
                 eSg    17 55.00
ATN      0.63   47 P      17 56.50    0.0
                 eSg    18 06.40
GIB      0.72  291 P      17 57.70   -0.3
                 eSg    18 09.00
FAI      1.05  245 Pd     18 03.80    0.1
                 eSg    18 18.80
      S.D. = 0.4   on   4 of   4 obs.
-------------------------------------------
%  MAY  17, 1990  22h 21m 07.80± 0.73s
   37.723 N ± 6.5km   14.845 E ± 7.1km
   DEPTH =  18.5 ± 12.2 km
 SICILY                           (398)

MNO      0.24  330 P      21 13.30   -0.3
MEU      0.62  174 P      21 19.50   -0.5
ATN      0.66   48 P      21 21.00    0.6
GIB      0.70  293 P      21 21.00   -0.2
FAI      1.03  245 P      21 27.50    0.7
MGR      2.47   13 P      21 48.00    0.1
ORI      2.65   28 P      21 50.00   -0.4
                 eSn    22 22.00
      S.D. = 0.7   on   7 of   7 obs.
-------------------------------------------
%  MAY  17, 1990  22h 21m 26.34± 1.21s
   37.796 N ±14.1km   14.864 E ± 7.5km
   DEPTH =  29.8 ±  7.8 km
 SICILY                           (398)

ATN      0.60   52 Pc     21 37.50   -0.8
                 eSg    21 47.30
MSI      0.68   53 P      21 39.80    0.1
                 eSg    21 52.40
GIB      0.69  286 P      21 39.60   -0.3
                 eSg    21 50.00
MCT      0.99  261 P      21 43.80   -0.5
FAI      1.08  242 Pd     21 44.90   -0.5
                 eSn    22 00.00
CVT      1.65  267 P      21 54.50    0.9
ERC      1.82  278 P      21 56.70    0.6
                 eSn    22 21.40
```

```
TDS      2.19  31 P      22 01.70   0.3
                eSn     22 29.50
MGR      2.40  13 Pc     22 03.00  -1.4
ORI      2.58  28 P      22 07.50   0.5
                eSn     22 38.00
SGO      2.78   7 P      22 09.50  -0.2
                eSn     22 41.50
BSS      2.99 359 P      22 13.00   0.2
LCI      3.49  43 P      22 21.00   1.1
SDI      3.99 349 P      22 27.00   0.0
     S.D. = 0.8  on  14 of  14 obs.
-----------------------------------------
&  MAY 17, 1990  22h 35m 32.21s
   58.776 N          153.872 W
   DEPTH = 119.0km
 KODIAK ISLAND REGION              ( 13)
      <AGS-P>.

RDT      1.95  22 iP     36 04.48  -1.1
SLKM     2.54  45 eP     36 13.12   0.0
                eS     36 42.67
SPU      2.58  20 iP     36 12.05  -1.6
CRP      2.64  18 iP     36 13.23  -1.4
NCG      2.77  17 eP     36 14.55  -1.7
PMS      3.29  39 eP     36 21.64  -1.4
SML      4.10  40 eP     36 31.80  -2.3
         7 obs. associated
-----------------------------------------
%  MAY 17, 1990  22h 41m 07.89± 1.06s
   37.916 N ±14.6km   14.771 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 SICILY                            (398)

GIB      0.59 277 P      41 20.50   0.6
                eSg     41 30.00
ATN      0.60  66 P      41 20.20   0.2
                eSg     41 29.50
FAI      1.08 234 P      41 27.80  -0.4
                eSg     41 42.80
TDS      2.13  35 P      41 44.50   0.6
MGR      2.30  15 P      41 45.50  -0.9
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
%  MAY 17, 1990  23h 02m 22.53± 0.74s
   37.736 N ± 7.3km   14.841 E ± 7.2km
   DEPTH =  18.5 ± 11.6 km
 SICILY                            (398)

MNO      0.23 329 P      02 27.90  -0.3
                eSg     02 33.30
MEU      0.64 174 Pd     02 34.00  -0.9
                eSg     02 45.50
ATN      0.65  49 P      02 35.40   0.3
                eSg     02 44.40
GIB      0.69 292 P      02 35.70  -0.1
                eSg     02 46.40
MSI      0.73  50 P      02 38.20   1.8
                eSn     02 47.40
FAI      1.03 244 P      02 42.80   1.2
                eSn     02 57.00
TDS      2.25  31 P      02 58.60  -0.8
                eSn     03 25.60
MGR      2.46  13 P      03 01.90  -0.5
                eSn     03 30.50
ORI      2.64  28 P      03 04.50  -0.5
     S.D. = 1.2  on   9 of   9 obs.
-----------------------------------------
*  MAY 17, 1990  23h 25m 50.88± 0.48s
   39.508 N ± 9.5km  143.267 E ±10.6km
   DEPTH =  33.0km  (normal)
   4.8mb ( 18 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

BJI     20.81 280 eP     30 29.00  -2.7
        1.1s     21.00nm          4.4mb
LZH     31.17 276 eP     32 09.50   0.4
        1.5s     38.00nm          5.0mb
                 pP     32 24.00  59kmX
MBC     53.74  17 eP     35 11.00  -0.5
        0.7s      2.00nm          4.2mb
WB5     59.66 190 eP     35 53.80  -0.4
WRA     59.73 190 Pc     35 54.00  -0.7
        0.3s      1.70nm          4.7mb
HYB     59.74 268 eP     35 54.50  -0.5
YKA     60.94  31 eP     36 00.40  -2.1
        0.8s      0.70nm          3.8mb
QUE     61.61 287 eP     36 08.00   0.2
GBA     62.87 265 Pc     36 15.20  -0.8
        0.9s      8.70nm          4.9mb
SOD     63.25 337 iP     36 17.00  -1.0
PNT     65.39  46 eP     36 41.00   8.8X
SUF     66.43 333 iP     36 37.90  -0.6
        0.5s      5.00nm          4.9mb
WARB    67.17 196 eP     36 44.00   0.4
NUR     68.45 332 iP     36 51.00  -0.3
FFC     70.84  34 eP     37 05.00  -1.0
        0.9s      9.00nm          4.8mb
LRM     71.37  46 eP     37 09.60  -0.1
HFS     72.43 336 eP     37 14.50  -0.9
        0.5s      8.20nm          5.0mb
NB2     72.46 338 P      37 15.00  -0.7
        0.8s      9.60nm          4.8mb
FRB     74.03  14 eP     37 23.50  -1.1
KRA     77.85 327 eP     37 59.00  12.6X
KSP     78.76 329 eP     37 51.70   0.3
BRG     79.65 330 eP     37 56.20  -0.1
CLL     79.66 331 iP     37 56.50   0.2
        0.9s     10.00nm          4.8mb
PRU     80.12 329 eP     38 00.00   1.2
KHC     81.19 329 eP     38 05.50   1.0
HRI     81.33 306 iPd    38 07.00   1.4
GRF     81.64 331 iPc    38 08.10   1.3
        1.1s     17.00nm          5.0mb
SKO     83.23 320 iP     38 16.70   1.5
CDF     84.16 332 eP     38 20.50   0.6
OHR     84.19 320 eP     38 19.80  -0.3
MBH     84.21 304 ePc    38 21.00   0.7
VAI     85.73 330 Pc     38 27.50  -0.1
LOR     86.34 334 eP     38 31.00   0.3
        0.8s      6.70nm          4.9mb
LBF     86.54 333 eP     38 32.00   0.3
        0.8s      4.70nm          4.8mb
SSF     86.64 334 eP     38 32.50   0.4
        0.8s      6.05nm          4.9mb
LPL     86.80 331 eP     38 33.90   0.6
        0.8s      4.05nm          4.7mb
LPG     86.81 331 eP     38 34.20   0.8
        0.8s      4.05nm          4.7mb
AVF     86.92 334 eP     38 34.10   0.6
        0.8s      9.40nm          5.1mb
SIV    148.37  49 PKP    45 34.20   2.0
     S.D. = 1.0  on  37 of  39 obs.
-----------------------------------------
   MAY 17, 1990  23h 28m 00.12± 0.12s
   26.619 N ± 2.6km  127.846 E ± 2.5km
   DEPTH =  32.6km  (geophysicist)
   6.0mb ( 88 obs.)  5.7Msz ( 18 obs.)
 RYUKYU ISLANDS                    (238)
      Ms 5.3 (BRK). Felt (III JMA) at
      Noha; (I JMA) at Naze and on
      Miyako-jima and Kume-jima. Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 55 Dip=64 Slip=  90
       NP2:       235     26        90
       Principal Axes:
        T                 Plg=71  Azm=325
        P                   19        145
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:   5  Focal mech.  C
       Energy        6.0±2.2*10**12 Nm
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 11S, 26C
      Centroid Location:
      Origin Time        23:28: 3.3 0.4
      Lat 26.31N 0.05 Lon 127.42E 0.07
      Dep  48.6 4.1 Half-duration  3.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 4.74 0.28  Mtt=-2.25 0.38
        Mff=-2.49 0.52  Mrt= 2.07 0.44
        Mrf= 2.96 0.42  Mtf=-3.13 0.30
       Principal Axes:
        T  Val=  5.92  Plg=72  Azm=295
        N        0.71       5       41
        P       -6.63      17      133
      Best Double Couple:Mo=6.3*10**17
       NP1:Strike=231 Dip=28 Slip= 101
       NP2:        38     63        84
NAH      0.43 200 P      28 12.90   3.3X
                S      28 20.30
KAGJ     5.27  30 P      29 19.70   1.0
ANP      5.88 257 eP     29 30.00   2.7
                eS     29 44.00
KUMJ     6.44  23 P      29 36.20   1.0
SSE      7.35 309 P      29 49.20   1.4
         1.0s   830.00nm          6.7mb
      Z  20s    24.10um
      N  10s    16.60um
      E  10s    15.00um
SHNJ     7.99  20 eP     29 57.40   0.5
QZH      8.51 261 Pc     30 04.00   0.0
         8.0s  7300.00nm          6.9mb X
      Z  24s    14.20um          5.3MszX
                S      31 38.00
SHK      8.92  27 eP     30 09.10  -0.6
TKSJ     9.09  35 P      30 08.40  -3.6X
                eS     31 46.80
NJ2      9.53 307 Pc     30 20.00   1.9
      Z  12s    13.50um
      E  10s    19.50um
                sP     30 37.00
BAG     12.20 215 eP     30 56.00   1.3
WHN     12.49 291 Pc     31 01.00   2.7
         1.4s   500.00nm          6.4mb
      Z  18s     6.10um          4.1MszX
                sP     31 14.00
TIA     13.23 319 Pc     31 11.40   3.2X
      Z  18s    14.40um
      N  12s     5.20um
      E  12s     2.40um
                pP     31 21.40
MAJO    13.25  39 iPc    31 18.38   9.9X
DL2     13.32 338 iPc    31 13.00   3.7X
         3.0s  1500.00nm          6.4mb
      Z  20s    10.00um          4.2Msz
      N  12s     3.40um
      E  14s    10.10um
SNY     15.57 348 iPc    31 40.00   1.2
         7.0s  3700.00nm          5.7mb X
      Z  20s    16.70um          5.0Msz
      N  16s     7.90um
      E  11s     3.60um
                pP     31 50.00
                sP     31 55.00
BJI     16.54 327 ePc    31 53.11   2.0
         9.0s  8840.00nm          5.9mb X
      Z  15s    18.40um          4.6MszX
      E  13s     4.68um
TIY     17.08 314 iPc    32 01.00   2.9
         8.0s  3700.00nm          5.6mb X
      N  12s    17.30um
                PP     32 17.00
CN2     17.25 354 iPc    32 01.00   0.9
         5.0s  3000.00nm          5.7mb X
      Z  18s     9.00um          4.1Msz
      N  12s     6.00um
      E  12s     1.40um
                pP     32 11.00
                sP     32 17.00
                S      35 12.00
                sS     35 26.00
                PcP    36 40.00
XAN     17.92 299 iPd    32 10.00   1.5
         5.0s  2600.00nm          5.6mb X
      N  11s     6.00um
      E  10s     2.20um
                sP     32 25.00
QIZ     18.22 249 P      32 13.00   0.8
      E  15s     7.80um
GYA     18.95 274 iPc    32 22.80   1.5
         5.0s  2400.00nm          5.7mb X
      Z  16s    11.10um          5.0MszX
      N  12s     5.90um
      E  12s     8.60um
                sP     32 36.00
DAV     19.54 187 eP     32 27.20  -0.9
HHC     19.57 321 iPc    32 28.50   0.2
         1.0s   330.00nm          5.6mb
      Z  18s    17.90um          4.8Msz
BTO     20.31 318 iPc    32 36.00  -0.2
      N  15s     8.40um
      E  15s     7.30um
                pP     32 51.50  74kmX
```

17d 23h

				SS	36	49.00			CTA	49.74	157	iPd	36	51.80	0.3		MASJ	78.18	300	Pc	39	57.90	-0.3
GUMO	20.55	126	eP	32	34.50	-4.1X				1.4s	116.28nm			5.7mb			HFS	78.32	332	eP	39	57.50	-0.8
	1.2s	1000.00nm			6.1mb							i	37	02.30	36kmX			1.0s	162.40nm			6.0mb	
			eS	36	24.00							iS	43	59.00			Z	18s	5.44um			5.9Msz	
			eTT	53	16.60			CTAO	49.74	157	ePd	36	51	60	0.1					LR	15	06.00	
PJG	20.55	126	eP	32	34.50	-4.1X						epPd	37	01	70	34kmX		YKA	78.32	25	eP	39	57.30	-1.0
			pP	32	38.70	16kmX		KOD	50.17	261	iPc	36	55	90	0.6			1.4s	133.90nm			5.8mb	
GUA	20.61	126	eP	32	34.70	-4.6X			0.9s	126.05nm				5.9mb			LFK	78.40	304	iP	39	58.70	-0.6
	1.0s	984.00nm			6.1mb			POO	50.20	273	iPc	36	55	00	-0.2		DSI	78.50	300	eP	40	01.00	1.1
			pP	33	39.40			WARB	52.51	181	eP	37	11	80	-0.6		LISJ	78.56	299	Pc	40	00.40	0.3
CD2	21.53	287	iPc	32	47.00	-1.6		QUE	53.13	289	iPc+	37	16	70	-0.6		VRI	78.57	316	iPd	40	05.00	5.0X
	1.0s	400.00nm			5.8mb				1.0s	3130.00nm				7.2mb	X		PSN	78.60	313	iPd	40	00.00	-0.2
	Z 18s	10.50um			5.3Msz						e	38	38	50	399kmX		GPA	78.63	309	eP	40	00.00	-0.5
	E 13s	8.00um									eS	44	47	30			CSS	78.68	303	eP	40	00.05	-0.8
			pP	33	04.00	78kmX		RMO	56.51	157	eP	37	40	00	-1.6		N82	78.81	334	P	40	00.10	-1.0
			PP	33	09.00						i	37	52	50	44kmX		HRT	78.84	310	eP	40	01.00	-0.6
			S	36	40.00			COOL	57.54	187	eP	37	47	00	-1.8		AYN	79.12	297	iPc	40	03.70	0.4
LZH	22.52	301	iPc	32	58.82	0.3		BAL	57.89	191	eP	37	50	00	-1.3		ISK	79.15	310	eP	40	02.00	-1.2
	7.0s	2380.00nm			5.8mb	X		MAIO	58.03	298	iPc+	37	52	50	0.1		YLV	79.15	310	iP	40	02.60	-0.8
	Z 24s	12.60um			5.3MszX				1.1s	124.26nm				5.9mb			ITU	79.16	311	iPc	40	12.00	8.7X
	E 17s	7.80um									eS	45	55	00			MLR	79.23	316	iPc	40	03.00	-0.8
			pP	33	14.00	66kmX		KLB	58.68	190	eP	37	54	00	-2.8		ALT	79.29	308	iP	40	04.00	-0.2
			S	37	05.00			MUN	59.32	191	eP	38	03	00	1.8		PPCY	79.45	304	eP	40	04.30	-0.7
KMI	22.63	272	Pd	33	01.50	1.7		TTA	60.37	31	iPc	38	08	30	0.1		CTT	79.54	311	iP	40	04.60	-0.8
	1.5s	220.00nm			5.4mb			SVW	60.61	33	iPc	38	10	30	0.5		BUC	79.62	314	iP	40	06.00	0.3
	Z 16s	16.40um			5.6MszX			DZM	61.15	139	iPd	38	13	50	-0.5		BCK	79.64	307	eP	40	04.00	-2.1
	E 11s	4.50um						IMA	61.33	27	iPc	38	14	80	0.0		MBH	79.64	298	iPc	40	06.00	-0.1
			S	37	00.00				1.3s	200.50nm				6.1mb			BUC1	79.69	314	ePc	40	06.00	-0.1
KKM	23.27	210	ePc	33	07.00	1.0		ADE	62.11	170	eP	38	20	00	-0.2		HQL	79.71	298	iPc	40	06.90	0.4
HIA	23.47	347	iPc	33	05.73	-1.8		KDC	62.46	37	iPc	38	21	70	-0.6		WAJH	79.78	294	iPc	40	08.10	1.2
TSM	24.15	204	ePc	33	15.60	1.2		PWA	63.32	32	iPc	38	27	00	-0.9		CMP	79.90	316	ePc	40	07.00	-0.2
LOE	25.85	255	iPd	33	31.00	0.5		PMS	63.52	32	iPc	38	28	50	-0.8		MTUR	79.90	316	eP	40	06.00	-1.3
GTA	26.63	306	iPc	33	36.80	-0.9		PMR	63.68	32	iPc	38	29	20	-1.0		KHL	80.02	308	iP	40	07.70	-0.4
	1.0s	400.00nm			6.0mb				1.5s	416.70nm				6.3mb			BADA	80.06	297	iPc	40	09.00	0.7
	Z 18s	12.70um			5.5Msz			BWA	63.77	161	eP	38	32	10	1.0		EDC	80.28	310	iP	40	09.30	-0.1
	E 11s	3.40um						COL	63.86	28	iPc	38	30	82	-0.6		ELL	80.43	306	eP	40	09.00	-1.4
			sP	33	50.00						esPc	38	45	38			ARO	80.50	278	iP+	40	12.60	1.6
CHG	27.72	260	iPc	33	48.20	0.5		FBA	63.86	28	iPc	38	31	20	-0.2		KRA	80.60	322	iPc	40	11.00	0.2
	1.0s	203.75nm			5.8mb			CAN	64.77	161	eP	38	38	80	1.1			1.3s	337.00nm			6.2mb	
			eS	38	32.00			TOA	64.99	31	iPc	38	39	20	0.3					i	40	13.50	8kmX
CHTO	27.72	260	iPc	33	47.91	0.2		TOO	65.97	165	eP	38	46	00	0.7					i	40	26.40	
NST	27.99	253	eP	34	07.40	17.4X					e	38	57	00	36kmX					e	46	51.00	
BDT	28.28	257	eP	33	53.20	0.5		TAB	67.80	303	eP	38	57	00	-0.3		PVL	80.66	314	iPc	40	12.00	0.7
	0.9s	84.80nm			5.4mb						e	39	14	00	63kmX		DRA	80.67	315	eP	40	13.00	1.7
SNG	32.31	238	eP	34	29.40	0.9		DHR	68.44	289	iPc	39	00	50	-0.7		SPC	80.87	321	eP	40	12.10	-0.4
			eS	39	43.30			KBS	68.81	349	iP	39	02	00	-0.7		DEV	80.93	317	ePd	40	03.00	-9.6X
LSA	32.41	284	P	34	28.20	-1.6		KEV	68.95	339	iPc	39	02	32	-1.4		KSL	80.95	306	eP	40	11.60	-1.3
	Z 16s	4.20um			5.2MszX				1.0s	272.00nm				6.3mb			DIM	81.07	313	iPc	40	14.00	0.5
	E 14s	1.40um									epPd	39	11	76	30kmX		ALN	81.27	311	ePc	40	14.30	-0.2
IPM	33.72	234	ePc	34	42.90	2.1					esPd	39	17	88			KDZ	81.34	312	iPc	40	16.00	1.1
	1.2s	269.90nm			6.0mb			SLY	69.18	300	iPd	39	05	50	-0.2		YER	81.43	307	iP	40	15.40	-0.1
KGM	33.95	228	ePc	34	44.00	1.3					eS	47	32	00			ASK	81.49	335	iPc	40	15.10	-0.1
WMO	36.60	308	iPc	35	04.42	-0.8		MBC	69.53	14	iPc	39	06	50	-0.7		RDO	81.49	312	iPc	40	15.50	-0.1
	Z 20s	7.90um			5.5Msz				1.0s	173.00nm				6.1mb			BER	81.50	335	iPc	40	15.20	-0.1
			esPd	35	19.32			SOD	69.91	336	iPc	39	08	40	-1.2		BLS1	81.56	334	eP	40	15.80	0.0
			ePP	36	32.56			MSL	70.73	302	eP	39	14	50	-0.7		EZN	81.57	310	iP	40	15.90	-0.2
			eS	40	43.50						eS	48	24	50			IZM	81.58	309	iP	40	15.60	-0.7
			PcS	41	16.00			BHD	70.81	298	iPd	39	15	50	-0.1		RZN	81.78	313	iPc	40	18.00	0.6
TRT	37.17	205	iPc	35	09.00	-1.0					iPcP	39	32	00			BZS	81.85	317	eP	40	17.50	0.1
	1.0s	83.10nm			5.6mb						iS	48	26	00			KSP	82.18	323	iPc	40	19.60	0.6
BSI	37.48	242	ePd	35	13.00	0.3		TRO	71.59	340	iPc	39	18	20	-1.5			1.0s	210.00nm			6.1mb	
PPI	37.73	229	ePd	35	16.60	1.8		SIT	71.63	35	iPc	39	20	70	0.6					ec	43	26.40	
	1.0s	138.70nm			5.8mb			SUF	71.83	332	iP	39	20	30	-0.9		SMG	82.19	308	eP	40	19.40	0.0
MTN	39.36	175	iPd	35	27.40	-0.9			0.9s	279.00nm				6.3mb			VTS	82.33	314	iPc	40	21.00	0.8
PMG	40.42	150	eP	35	45.00	7.9X		RYD	71.98	289	iPc	39	22	00	-0.9		HLW	82.38	299	eP	40	21.00	0.5
KNA	42.12	179	eP	35	50.60	-0.4		MJMA	72.68	291	iPc	39	26	30	-0.7		BUD	82.44	320	iPc	40	21.00	0.5
NDI	44.62	285	iPc	36	11.00	-0.4		NUR	73.37	330	iPc	39	29	40	-0.9			1.5s	181.70nm			5.9mb	
	1.0s	415.00nm			6.3mb				1.0s	418.00nm				6.4mb			MMB	82.48	313	iP	40	21.00	0.1
			ePP	38	10.00			QASM	74.06	291	iPc	39	34	60	-0.4		SRO	82.68	320	iPc	40	22.20	0.5
			eS	43	10.00			KVT	74.31	308	iP	39	36	80	0.6		GMW	82.72	40	P	40	23.10	1.1
KSH	44.76	300	P	36	14.00	1.4		AFIF	75.11	290	iPc	39	43	30	2.1		KKB	82.77	313	iPc	40	23.00	0.7
	5.0s	1200.00nm			6.0mb	X		KMSA	75.44	286	iPc	39	42	00	-1.0		SRS	82.80	312	ePc	40	22.20	-0.3
	Z 16s	3.60um			5.4MszX			RUWJ	75.46	299	Pc	39	45	60	2.5		BRN	82.90	326	iPc	40	24.20	1.5
	E 13s	3.40um						KAS	75.79	309	iPc	39	45	60	0.8		OUR	82.92	312	ePc	40	23.00	-0.1
			sP	36	31.00			UPP	76.79	331	iPc	39	49	20	-0.6		BMW	83.03	41	P	40	24.50	0.9
HYB	46.37	269	iPc	36	26.00	0.6		BBTK	77.10	308	iPc	39	52	00	-0.2		SOH	83.10	312	ePc	40	26.50	2.4
	1.0s	310.00nm			6.2mb			HRI	77.54	301	iP	39	55	00	0.3		ZST	83.16	321	iPc	40	25.10	0.9
			e	36	39.50	50kmX		HLBJ	77.58	300	Pc	39	54	40	-0.5		KNT	83.23	313	ePc	40	24.60	-0.1
			eS	43	08.00			CSTJ	77.68	299	Pd	39	55	30	-0.1		RMW	83.33	40	P	40	26.30	1.1
WB5	46.65	172	eP	36	26.80	-0.6		SHMJ	77.74	300	P	39	55	90	0.2		VAY	83.37	313	iPc	40	25.40	0.0
			i	36	37.20	35kmX		JARJ	77.79	300	Pc	39	55	80	-0.3			1.4s	582.00nm			6.5mb	
			eS	43	10.30			MDSJ	77.80	299	Pc	39	55	90	-0.3					i	40	41.30	56kmX
HNR	47.49	135	eP	36	34.00	-0.2		BURJ	77.90	300	Pd	39	56	40	-0.3		BRG	83.40	324	iPc	40	25.50	0.2
QIS	48.26	165	iPd	36	39.30	-0.8		JNW	77.90	347	eP	39	56	20	0.4			1.5s	240.00nm			6.1mb	
			iS	43	36.00			CFR	77.97	315	eP	39	56	00	-0.6					i	40	39.00	46kmX
GBA	48.79	265	Pc	36	44.20	-0.1		SALJ	78.09	300	Pd	39	57	30	-0.4					i	41	07.40	
	1.0s	215.60nm			6.1mb			KFNJ	78.15	300	Pc	39	57	80	-0.1					i	43	37.00	

17d 23h

THE 83.45 312 ePc 40 24.20 -1.6
PNT 83.54 37 iPc 40 27.00 0.8
1.0s 207.00nm 6.2mb
VKA 83.57 321 iPc 40 27.40 1.1
2.5s 802.00nm 6.4mb
Z 20s 2.20um 5.5Msz
LR 20 47.00 30kmX
i 40 36.90
PRU 83.58 323 iPc 40 27.00 0.7
1.7s 240.30nm 6.1mb
Z 19s 5.70um 6.0Msz
N 18s 2.10um
E 20s 4.60um
e 40 42.80 55kmX
ePP 43 40.00
eS 50 47.00
PPS 52 00.00
CLL 83.64 325 iPc 40 27.00 0.5
1.5s 390.00nm 6.3mb
Z 18s 7.00um 6.1Msz
i 40 43.10 57kmX
PKKP 58 56.00
GRG 83.66 313 ePc 40 26.60 -0.3
LON 83.71 40 P 40 27.20 0.1
SOP 83.75 321 iPc 40 28.90 1.7
SHW 83.76 41 P 40 28.50 1.0
AKSR 83.76 293 iPc 40 30.00 2.3
SKO 83.78 314 iPc 40 28.10 0.6
1.6s 691.00nm 6.6mb
i 40 41.10 44kmX
i 43 40.00
i 50 48.00
i 51 04.00
NEO 83.93 311 eP 40 27.20 -1.1
AAHD 83.94 293 iPc 40 29.50 1.0
AKRL 84.01 293 iPc 40 30.00 1.1
LIT 84.03 312 ePc 40 28.30 -0.5
AGMR 84.20 293 iPc 40 30.90 1.0
ASKD 84.28 293 iPc 40 31.10 0.8
IVA 84.30 315 iPc 40 31.00 0.8
AKU 84.35 347 iPc 40 31.20 1.4
1.1s 237.97nm 6.3mb
PLE 84.38 316 iPc 40 31.10 0.5
PVY 84.40 315 eP 40 31.00 0.3
FNA 84.42 313 ePc 40 30.00 -0.8
EDM 84.45 32 iPc 40 31.50 0.8
KHC 84.59 323 iPc 40 32.10 0.6
1.1s 92.00nm 5.9mb
Z 19s 4.60um 5.9Msz
N 18s 2.50um
E 18s 3.10um
e 40 48.80 59kmX
S 51 00.00
OHR 84.63 313 iPc 40 31.50 -0.3
1.2s 182.00nm 6.1mb
i 40 47.50 56kmX
i 41 04.70
AGG 84.67 311 ePc 40 38.80 6.7X
MOX 84.74 325 iPc+ 40 33.00 0.9
1.6s 302.00nm 6.2mb
Z 18s 7.20um 6.1Msz
N 22s 2.70um
E 20s 3.70um
HOF 84.80 325 iPc 40 33.10 0.6
1.3s 318.00nm 6.4mb
Z 19s 6.00um 6.0Msz
NKY 84.90 316 iPc 40 33.50 0.3
KMR 84.90 322 iP+ 40 32.70 -0.3
ipP 40 48.40 55kmX
TTG 84.93 315 eP 40 33.30 0.1
WET 84.95 323 iPc 40 34.00 0.7
2.0s 600.00nm 6.4mb
VGB 84.98 41 P 40 34.50 1.0
PTJ 85.07 319 iPc 40 34.10 0.1
ZAG 85.10 319 iPc 40 34.80 0.8
BRY 85.13 316 iPc 40 34.50 0.1
VAM 85.15 307 eP 40 34.50 0.0
ULC 85.18 315 iPc 40 34.50 -0.1
BDV 85.28 315 eP 40 35.00 0.0
VLI 85.40 309 eP 40 33.60 -2.1
HCY 85.40 316 eP 40 35.90 0.3
NEW 85.50 37 P 40 36.50 0.4
GRF 85.51 324 iPc 40 36.80 0.8
1.3s 517.00nm 6.6mb
Z 20s 5.90um 6.0Msz
FHC 85.52 46 ePc 40 37.80 1.5
VBY 85.70 319 iPc 40 38.00 1.0

BHG 85.78 322 iPc 40 38.20 0.8
1.1s 367.00nm 6.5mb
LJU 85.81 320 iPc 40 48.00 10.4X
e(S) 51 11.00
WIT 85.82 329 ePc 40 38.50 1.1
e 40 51.50 43kmX
ITM 85.87 310 iPc 40 37.10 -1.0
KEK 86.00 313 iPc 40 38.00 -0.7
CEY 86.05 320 iPc 40 38.90 0.1
VOY 86.19 320 iPc 40 39.20 -0.4
VLS 86.27 311 eP 40 39.00 -1.0
HVAR 86.28 317 ePc 40 39.10 -0.8
WTS 86.28 328 ePc 40 39.50 -0.2
1.2s 139.00nm 6.1mb
e 40 53.00 45kmX
FUR 86.39 323 iPc 40 41.10 0.7
1.4s 758.00nm 6.7mb
Z 18s 6.00um 6.0Msz
TRI 86.45 320 iPc 40 40.30 -0.4
eSSS 02 06.00
ipP 40 56.00 55kmX
ePP 44 12.00
ePPP 45 58.00
eS 51 20.00
eSPP 52 58.00
eSS 58 20.00
REY 86.48 347 eP 40 42.10 1.6
FVI 86.49 321 Pc 40 40.00 -0.9
WDC 86.57 46 iPc 40 42.20 0.8
TNS 86.60 326 ePc 40 41.30 -0.2
LCI 86.88 314 Pc 40 41.50 -1.4
DBN 86.98 329 eP 40 44.00 0.9
Z 20s 1.70um 5.4Msz
eSSS 01 50.00
eSKS 51 20.00
eSS 58 00.00
SQTA 86.99 322 iPc 40 43.10 -0.4
1.4s 195.00nm 6.1mb
i 40 53.10 31kmX
i 41 23.60
e 43 52.00
i 44 08.00
STU 87.12 324 eP 40 43.00 -1.0
1.0s 150.00nm 6.2mb
Z 20s 4.26um 5.8Msz
MIN 87.29 46 ePc 40 45.20 0.0
OGA 87.30 322 iPc 40 45.10 0.0
1.3s 362.00nm 6.5mb
SES 87.34 33 iPc 40 45.50 0.4
1.0s 221.00nm 6.4mb
pP 40 57.00 37kmX
ENN 87.50 327 ePc 40 45.50 -0.2
1.0s 76.00nm 5.9mb
MEM 87.56 327 P 40 45.80 -0.2
ORV 87.79 46 ePc 40 47.60 0.2
GWF 87.80 325 P 40 47.58 0.3
OSS 87.90 322 ePc 40 48.10 0.2
STR 87.98 325 P 40 48.72 0.7
SAX 87.98 323 ePc 40 48.20 -0.3
ORI 87.99 314 Pd 40 48.50 0.2
SLE 88.11 324 ePc 40 47.90 -0.9
BRK 88.20 48 eP 40 50.20 0.9
ARV 88.20 319 Pc 40 49.50 0.2
BKS 88.22 48 ePc 40 50.40 1.0
1.0s 187.00nm 6.3mb
Z 20s 1.00um 5.2Msz
N 20s 0.90um
E 20s 0.70um
UCC 88.23 328 P 40 46.00 -3.2X
EKA 88.28 334 P 40 45.00 -4.4X
TDS 88.29 314 Pc 40 50.00 0.3
FEL 88.30 324 P 40 49.24 -0.6
PCC 88.32 48 eP 40 50.30 0.4
CDF 88.34 325 P 40 49.50 -0.4
SAL 88.34 321 P 40 49.50 -0.3
DUI 88.35 317 Pd 40 50.00 -0.1
VDL 88.39 323 ePc 40 50.00 -0.3
FFC 88.40 26 iPc 40 50.50 0.5
0.9s 312.00nm 6.6mb
LLS 88.41 323 ePc 40 49.90 -0.5
SGO 88.44 315 Pc 40 50.00 -0.4
MGR 88.52 315 Pc 40 49.50 -1.3
DOU 88.58 327 P 40 50.60 -0.3
1.0s 111.10nm 6.1mb
e 41 07.00 57kmX
S 51 32.00
SFI 88.60 319 Pd 40 52.30 1.2

ASS 88.62 318 Pd 40 51.00 -0.4
BSS 88.63 316 P 40 50.00 -1.3
MDI 88.69 322 P 40 50.00 -1.5
PGD 88.70 319 Pc 40 53.00 1.2
CRE 88.71 319 Pd 40 52.50 0.7
SDI 88.72 317 Pc 40 51.20 -0.6
MOF 88.77 325 P 40 51.70 -0.3
AZI 88.79 317 Pc 40 52.30 0.3
GCC 88.83 49 eP 40 52.90 0.5
MHC 88.90 48 ePc 40 53.70 0.8
TMA 88.95 322 ePc 40 52.10 -0.9
BSF 88.96 325 eP 40 52.10 -0.8
0.8s 26.85nm 5.6mb
ARN 88.97 48 P 40 53.80 0.7
MNS 89.01 318 Pc 40 53.00 -0.2
FRB 89.02 7 ePc 40 51.70 -1.0
0.9s 120.00nm 6.2mb
HAU 89.08 325 eP 40 52.60 -0.8
1.2s 74.40nm 5.9mb
VAI 89.15 322 Pc 40 52.50 -1.2
BDI 89.24 320 Pc 40 54.00 -0.3
CMB 89.35 47 iPc 40 55.22 0.3
esPd 41 07.64
RDP 89.36 317 P 40 54.50 -0.4
BOB 89.46 321 P 40 55.00 -0.3
MMK 89.47 323 ePc 40 55.30 -0.3
PII 89.48 320 P 40 55.00 -0.3
LRM 89.52 37 iPc 40 56.90 1.1
ATN 89.69 313 P 40 55.00 -1.4
ORX 89.73 323 P 40 55.23 -1.4
DIX 89.75 323 ePc 40 56.60 -0.3
EMS 90.02 323 ePc 40 57.50 -0.6
PCP 90.10 321 P 40 57.28 -1.0
PRI 90.22 49 eP 41 00.30 1.2
KVN 90.26 45 iPc 41 00.00 0.7
e(pP) 41 11.50 37kmX
isP 41 18.00
LSD 90.29 323 P 40 59.33 -0.1
CKI 90.32 321 P 40 58.50 -0.7
FRI 90.38 48 ePc 41 00.30 0.7
RSP 90.43 322 P 40 57.89 -2.0
LPL 90.48 323 eP 40 59.90 -0.3
0.9s 29.50nm 5.6mb
LPG 90.48 323 eP 41 00.10 -0.2
FIN 90.50 321 P 40 58.82 -1.3
ROB 90.63 322 P 40 59.64 -1.1
YRH 90.72 333 eP 41 00.00 -0.9
BNI 90.81 323 P 41 00.00 -1.6
LOR 90.83 326 eP 41 00.50 -1.0
1.0s 21.00nm 5.4mb
RRL 90.83 323 P 41 01.38 -0.5
IMI 90.87 321 P 41 01.07 -0.8
ENR 90.93 322 P 40 59.64 -2.5
LBF 90.96 325 eP 41 01.00 -1.2
1.1s 26.85nm 5.5mb
STV 90.97 322 P 41 00.05 -2.3
AUTN 91.07 322 P 41 02.41 -0.6
PGF 91.08 320 P 41 03.04 0.1
BCH 91.14 49 P 41 04.30 1.0
pP 41 16.60 40kmX
SSF 91.15 326 eP 41 02.20 -0.8
1.2s 17.85nm 5.3mb
SBF 91.15 321 eP 41 02.50 -0.6
0.8s 75.20nm 6.1mb
TOUF 91.16 322 P 41 02.52 -0.8
AURF 91.19 321 P 41 02.69 -0.7
SMF 91.26 325 eP 41 02.60 -0.9
1.0s 24.00nm 5.5mb
REVF 91.27 321 P 41 02.97 -0.7
MVIF 91.29 322 P 41 03.04 -0.8
TNP 91.38 46 iPc 41 05.70 1.2
1.0s 64.25nm 6.0mb
ipP 41 17.50 38kmX
isP 51 23.80
AVF 91.41 325 eP 41 03.30 -0.9
1.1s 31.75nm 5.6mb
PTI 91.42 40 P 41 06.20 1.6
ETA 91.45 334 eP 41 03.10 -1.1
CALN 91.52 322 P 41 04.12 -0.9
IMW 91.57 38 P 41 07.00 1.6
SYP 91.58 50 eP 41 06.00 0.6
PMO 91.61 106 iP 41 20.40 15.0X
1.3s 130.00nm
FRF 91.78 322 eP 41 05.30 -0.7
0.9s 49.15nm 5.9mb
BGF 91.82 326 eP 41 06.40 0.3
1.0s 10.00nm 5.2mb

17d 23h

TPT 91.84 106 iP 41 21.20 14.7X
1.3s 70.00nm
LDF 91.86 328 eP 41 05.70 -0.5
1.0s 36.00nm 5.7mb
FLN 91.90 329 eP 41 05.60 -0.8
1.0s 24.00nm 5.6mb
ECP 91.91 334 eP 41 05.90 -0.4
1.3s 144.00nm 6.2mb
ABL 91.91 49 P 41 07.30 0.3
pP 41 20.00 42kmX
VAH 91.94 106 iP 41 21.60 14.6X
1.3s 70.00nm
ISA 91.96 48 eP 41 06.00 -1.0
LMR 92.01 321 eP 41 06.70 -0.3
1.0s 88.00nm 6.1mb
LRG 92.01 322 eP 41 06.80 -0.2
1.0s 88.00nm 6.1mb
RUV 92.13 106 iP 41 22.40 14.6X
1.3s 75.00nm
MAF 92.19 325 eP 41 07.40 -0.4
0.8s 13.45nm 5.4mb
TCF 92.33 326 eP 41 08.00 -0.5
1.2s 13.40nm 5.2mb
GRR 92.35 329 eP 41 08.00 -0.4
1.0s 34.00nm 5.7mb
CLC 92.45 48 eP 41 10.00 0.7
LPF 92.69 328 eP 41 09.80 -0.2
1.0s 64.00nm 6.0mb
LSF 92.70 326 eP 41 09.00 -1.1
1.1s 24.40nm 5.5mb
DUG 92.84 42 P 41 12.10 1.0
1.2s 57.77nm 5.9mb
SBB 92.95 49 eP 41 12.00 0.4
PAS 93.02 49 iPc 41 12.43 0.6
esPd 41 24.51
MWC 93.06 49 eP 41 13.00 0.7
BW06 93.07 38 P 41 12.50 0.3
1.0s 34.25nm 5.7mb
GSC 93.28 48 eP 41 14.00 0.9
MFF 93.28 327 eP 41 12.30 -0.5
1.0s 24.00nm 5.6mb
CAF 93.34 325 eP 41 13.20 0.0
1.1s 31.75nm 5.7mb
RJF 93.36 325 eP 41 12.90 -0.3
1.0s 24.00nm 5.6mb
VAL 93.58 336 eP 41 14.00 0.0
DAU 93.63 41 P 41 16.00 1.1
RVR 93.65 49 eP 41 14.00 -0.8
PEC 93.86 49 P 41 16.20 0.4
pP 41 28.30 39kmX
LPO 93.96 325 eP 41 15.60 -0.4
1.2s 17.85nm 5.4mb
LFF 94.01 325 eP 41 16.10 -0.1
1.1s 24.40nm 5.5mb
MSU 94.28 43 P 41 19.00 1.1
PLM 94.37 49 eP 41 19.00 0.7
e 45 03.00
TPC 94.48 48 eP 41 19.00 0.4
RSON 94.58 25 P 41 17.70 -1.0
pP 41 29.80 39kmX
BAR 94.90 50 eP 41 21.00 0.5
RSSD 95.10 35 iPc 41 21.60 0.1
iPP 45 16.00
GLA 95.93 49 eP 41 27.00 1.7
PV09 96.11 41 eP 41 26.90 0.5
EBR 97.01 323 eP 41 30.00 0.1
ePP 45 24.00
SCH 97.93 8 eP 41 33.00 -0.9
ALQ 100.08 43 ePdiff 41 44.00 -0.2
1.0s 11.25nm 5.4mb
Z 22s 0.52um 5.0Msz
TOL 100.10 324 iPdiff 41 43.50 -0.4
1.1s 113.92nm 6.3mb
eS 52 42.00
BUL 106.71 256 ePKP 46 21.80 -2.7
UYO 107.45 36 e(PKP) 46 24.00 -1.3
TIO 108.49 320 iPKP 46 45.30 17.7X
SLR 109.06 250 iPdiff 42 24.00 -0.3
Z 22s 2.96um 5.8Msz
i 47 04.50
KSR 110.28 251 ePdiff 42 25.00 -4.7X
SPA 116.46 180 iPKPc 46 40.90 -0.7
0.8s 14.17nm
LKO 122.25 302 PKPc 46 53.12 -0.9
0.8s 37.00nm
KIC 123.58 299 PKPc 46 55.88 -0.8
0.8s 43.50nm

TIC 123.62 299 PKP 46 56.06 -0.7
LIC 123.89 299 PKP 46 56.54 -0.7
0.9s 54.50nm
Z 20s 0.55um 5.2Msz
PT10 152.55 63 e(PKP) 47 50.00 1.8
NNA 152.60 63 iPKPd 47 48.70 0.4
1.0s 28.00nm
i 47 54.50
ARE 159.39 65 ePKP 47 59.00 1.7
ZOBO 161.93 58 iPKPc 48 01.43 1.2
1.5s 88.71nm
LR 44 08.00
LPB 162.11 59 PKPc 47 58.00 -2.2
LR 46 44.00
CCH 164.11 57 PKP 48 03.50 1.5
i 48 56.00
SIV 166.56 40 PKP 48 04.40 0.7
i 49 05.20
BAO 168.40 340 ePKP 48 06.00 0.8
S.D. = 0.9 on 389 of 412 obs.

---

* MAY 17, 1990 23h 33m 18.87± 1.03s
40.670 N ±11.6km 21.574 E ± 6.3km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 2.1 (SKO), 1.9 (THE).

FNA 0.19 307 iPgc 33 23.20 0.4
eSg 33 26.30
GRG 0.69 65 ePg 33 32.40 -0.3
eSg 33 42.70
OHR 0.73 307 iPg 33 33.10 -0.5
iSg 33 45.10
LIT 0.90 129 ePg 33 36.60 0.0
eSg 33 51.00
KNT 1.12 63 ePb 33 40.60 0.3
S.D. = 0.5 on 5 of 5 obs.

MAY 18, 1990 00h 23m 55.21± 1.11s
40.971 N ± 8.8km 12.671 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TYRRHENIAN SEA (389)

RDP 0.79 3 P 24 10.50 -0.1
eSn 24 20.50
RMP 0.84 2 P 24 12.00 0.6
eSn 24 23.50
SDI 1.13 49 P 24 15.60 -0.8
eSg 24 32.00
AZI 1.17 29 P 24 17.00 0.0
eSg 24 33.00
MNS 1.41 0 P 24 22.00 1.0
eSg 24 38.70
BSS 1.63 96 P 24 25.00 1.0
eSg 24 45.00
ASS 2.10 360 P 24 31.00 0.1
eSn 24 54.50
MGR 2.35 110 P 24 34.00 -0.5
ARV 2.53 4 P 24 36.00 -1.0
PGF 3.17 301 Pn 24 45.80 -0.3
Sn 25 22.00
S.D. = 0.8 on 10 of 10 obs.

? MAY 18, 1990 00h 29m 24.69± 2.08s
31.217 S ±39.2km 68.484 W ±25.3km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.11 174 iPc 29 39.20 0.0
RTCB 0.38 225 iPd 29 40.00 0.0
RTCV 0.64 184 ePc 29 41.90 0.0
S 29 54.40
RTBS 0.94 242 eP 29 44.70 0.0
S 29 59.00
S.D. = 0.0 on 4 of 4 obs.

% MAY 18, 1990 00h 40m 02.40± 0.74s
40.275 N ± 5.4km 23.309 E ± 6.5km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 1.8 (THE).

THE 0.44 324 ePg 40 10.80 -0.5
eSg 40 17.40
PAIG 0.45 141 ePg 40 11.30 -0.1
SOH 0.55 4 ePgc 40 13.00 -0.4
eSg 40 22.20

LIT 0.65 255 ePg 40 15.40 0.0
SRS 0.87 14 ePg 40 20.10 0.5
eSg 40 32.80
KNT 0.94 341 ePg 40 20.60 -0.2
eSg 40 34.00
GRG 0.97 315 ePg 40 22.00 0.7
eSg 40 36.60
S.D. = 0.5 on 7 of 7 obs.

? MAY 18, 1990 00h 48m 08.94± 0.86s
31.531 S ±29.4km 68.579 W ±21.1km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.09 260 iPd 48 23.50 0.1
eS 48 33.00
RTCB 0.19 283 iPd 48 23.80 0.1
RTLL 0.22 25 iPc 48 23.60 -0.1
RTCV 0.33 174 iPc 48 23.90 0.0
S 48 34.20
RTBS 0.76 260 eP 48 27.00 -0.1
(S) 48 39.60
S.D. = 0.2 on 5 of 5 obs.

---

* MAY 18, 1990 01h 44m 21.00± 0.35s
15.196 S ± 9.1km 168.018 E ±10.9km
DEPTH = 33.0km (normal)
5.0mb (4 obs.)
VANUATU ISLANDS (186)

PVC 2.55 174 iPc 45 03.60 2.7
iS 45 41.00
DZM 7.00 192 iPc 46 01.00 -2.9
iS 47 18.00
PMG 21.17 283 eP 49 07.00 1.1
RMQ 21.19 235 eP 49 07.00 0.9
WB5 32.39 257 eP 50 48.70 -1.4
WRA 32.42 257 Pd 50 49.20 -1.1
0.8s 13.60nm 4.9mb
FORR 39.67 240 iPd 51 52.20 0.4
0.4s 15.00nm 5.1mb
WARB 40.06 247 eP 51 55.00 -0.2
KKM 55.49 288 ePc 53 55.50 -0.1
MDJ 69.03 332 Pd 55 25.20 -0.2
TIY 74.09 317 eP 55 55.40 -0.5
SPA 74.90 180 iPc 55 59.90 -0.4
1.3s 22.50nm 5.0mb
KMI 75.16 302 eP 56 03.50 0.9
CHG 75.93 294 eP 56 07.00 0.3
HHC 76.41 319 eP 56 10.00 0.9
GTA 83.51 314 eP 56 48.00 0.8
CMB 85.36 49 eP 56 55.80 -0.6
FRI 85.45 50 e(P) 56 50.30 -6.5X
KVN 87.41 48 P 57 06.50 -0.1
TNP 87.69 50 P 57 07.90 -0.1
e 57 17.90
WMQ 93.57 314 eP 57 35.00 -0.1
YKA 97.63 27 eP 57 51.20 -1.8
0.9s 0.60nm 4.1mb
ARV 144.67 328 PKP 03 54.00 -2.1
VAI 144.80 335 PKPc 03 54.00 -2.2
SFI 144.91 329 PKPc 03 56.50 0.1
ORI 144.94 320 PKPd 03 55.60 -1.1
PGD 145.01 330 PKP 03 56.00 -0.9
DUI 145.11 324 PKP 03 56.00 -1.0
ASS 145.12 328 PKP 03 55.00 -2.0
TDS 145.25 320 PKP 03 57.50 0.3
LDF 145.29 346 ePKP 03 55.80 -1.2
0.8s 8.05nm
SGO 145.33 322 PKP 03 56.00 -1.3
BOB 145.39 333 PKP 03 56.50 -0.9
LOR 145.41 341 ePKP 03 56.80 -0.5
1.3s 25.25nm
SDI 145.44 325 PKP 03 56.50 -1.1
MGR 145.44 321 PKP 03 55.60 -1.9
AZI 145.46 326 PKP 03 57.00 -0.4
BSS 145.48 323 PKP 03 49.00 -8.6X
MNS 145.59 327 PKP 03 52.00 -5.8X
LBF 145.63 341 ePKP 03 57.50 -0.2
1.1s 22.00nm
GRR 145.65 347 ePKP 03 57.40 -0.2
0.8s 13.45nm
LPL 145.91 336 ePKP 03 59.20 0.7
1.0s 14.00nm
LPG 145.92 336 ePKP 03 59.30 0.7
1.0s 17.00nm
SMF 145.97 340 ePKP 03 58.80 0.6

```
        1.2s     20.85nm
LPF   146.03 347 ePKP  03 58.80   0.6
        1.0s     28.00nm
CKI   146.17 334 PKP   03 58.00  -0.6
BNI   146.32 336 PKP   04 00.00   1.0
BGF   146.36 341 ePKP  03 59.70   0.8
        0.8s      7.40nm
MAF   146.75 341 ePKP  04 01.00   1.5
        1.0s      8.00nm
TCF   146.80 342 ePKP  04 01.10   1.5
        1.0s     10.00nm
LSF   147.03 343 ePKP  04 01.50   1.5
        1.0s     14.00nm
MFF   147.16 345 ePKP  04 01.90   1.8
        1.0s     16.00nm
PGF   147.31 331 ePKP  04 02.30   1.6
        1.2s     23.80nm
FRF   147.56 334 ePKP  04 02.80   1.9
        1.0s     12.00nm
LMR   147.80 334 ePKP  04 03.60   2.4
        0.8s      5.35nm
RJF   147.90 342 ePKP  04 04.43   3.1X
        1.0s     12.00nm
CAF   148.07 341 ePKP  04 05.10   3.4X
        1.0s      6.00nm
BCAO  148.13 254 iPKPc 04 05.00   2.3
        0.7s     30.00nm
                   id  04 09.00
LFF   148.46 343 ePKP  04 05.90   3.7X
        0.8s     10.75nm
LPO   148.56 342 ePKP  04 06.30   3.9X
        0.8s      8.05nm
      S.D. = 1.3  on  53 of  60 obs.
-------------------------------------
%  MAY  18, 1990  02h 21m 51.53± 2.75s
   45.154 N ± 6.3km    6.524 E ±21.0km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                          (538)

BNI     0.15 133 Pc    21 54.60   0.0
                iSg    21 57.00
RRL     0.30 142 P     21 57.64   0.0
                S      22 02.25
LPG     0.38  25 Pg    21 59.20   0.0
                Sg     22 05.00
RSP     0.52  90 P     22 01.95   0.0
                S      22 08.92
                S      22 11.58
LSD     0.54  56 P     22 02.36   0.0
                S      22 09.53
      S.D. = 0.0  on   5 of   5 obs.
-------------------------------------
*  MAY  18, 1990  02h 38m 50.51± 1.02s
   14.903 S ±18.1km   71.809 W ±13.1km
   DEPTH =  33.0km  (normal)
 PERU                            (116)

ARE     1.58 169 iPd   39 16.50  -0.3
ZOBO    3.80 111 P     39 49.00   0.3
PT03    3.97 283 ePc   39 51.00   0.4
                iS     40 35.80
PT06    4.51 283 iP    39 58.50   0.2
                e(S)   40 46.50
PT02    4.90 293 eP    40 05.30   1.5
                e(S)   40 55.70
NNA     5.69 300 eP    40 15.00   0.0
        0.4s     12.71nm      4.8mb X
                eS     41 17.50
PT10    5.75 299 e(P)  40 14.00  -1.9
                e(S)   41 19.00
      S.D. = 1.2  on   7 of   7 obs.
-------------------------------------
*  MAY  18, 1990  02h 52m 10.38± 0.96s
   40.119 N ±16.2km   19.631 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                         (391)

OHR     1.33  42 iPn   52 35.00   0.0
                iSg    52 57.10
LIT     2.19  90 eP    52 48.10   0.7
SKO     2.30  36 ePn   52 48.90   0.0
BAI     2.33 296 P     52 57.00   7.7X
ORI     2.44 270 P     52 50.00  -0.9
VAY     2.54  61 ePn   52 51.50  -0.7
MGR     3.12 272 P     53 00.00  -0.6
SGO     3.33 279 P     53 04.50   0.9
DUI     4.21 293 P     53 30.00  13.9X
SDI     4.68 292 P     53 23.50   0.7
      S.D. = 0.8  on   8 of  10 obs.
-------------------------------------
&  MAY  18, 1990  03h 01m 06.80s
   36.638 N          121.312 W
   DEPTH =   6.0km
 CENTRAL CALIFORNIA              ( 39)
      <BRK>. ML 3.1 (BRK).

SAO     0.17 320 iP    01 10.00  -0.3
LLA     0.30  94 iPc   01 12.70  -0.1
GCC     0.67 306 iPc   01 19.20  -1.1
PRI     0.72 133 eP    01 20.50  -0.7
ARN     0.73 346 iPc   01 21.00  -0.4
MHC     0.75 340 iPd   01 21.40  -0.5
PHAM    1.09 137 ePc   01 27.00  -0.7
PKEM    1.13 120 iPc   01 28.90   0.6
PCC     1.21 315 ePd   01 27.90  -1.8
FRI     1.33  74 ePc   01 30.10  -1.7
                iS     01 47.20
BRK     1.45 329 ePc   01 31.40  -2.1
CMB     1.58  28 iPc   01 34.20  -1.2
                iS     01 53.30
BCH     1.76 145 eP    01 36.00  -2.1
KVN     3.50  46 eP    02 06.00   2.9
      14 obs. associated
-------------------------------------
&  MAY  18, 1990  03h 02m 39.40s
   36.635 N          121.307 W
   DEPTH =   7.0km
 CENTRAL CALIFORNIA              ( 39)
      <BRK>. ML 2.9 (BRK).

SAO     0.17 320 eP    02 42.40  -0.7
LLA     0.29  93 iPc   02 45.30  -0.1
GCC     0.68 306 eP    02 51.50  -1.5
PRI     0.71 133 eP    02 54.20   0.5
ARN     0.74 346 iPc   02 53.50  -0.6
MHC     0.75 339 e(P)  02 54.00  -0.5
PHAM    1.08 137 eP    03 00.30   0.2
PKEM    1.12 120 eP    03 01.20   0.5
PCC     1.22 315 eP    03 00.40  -1.9
FRI     1.33  74 iPd   03 02.90  -1.3
                eS     03 20.10
CMB     1.58  27 eP    03 06.70  -1.2
BCH     1.75 145 eP    03 09.30  -1.2
      12 obs. associated
-------------------------------------
   MAY  18, 1990  03h 30m 43.53± 1.21s
   4.157 S ± 7.3km  102.475 E ± 6.8km
   DEPTH =  77.7 ±  9.7 km
   5.2mb ( 21 obs.)
 SOUTHERN SUMATERA               (274)

PPI     4.22 330 eP    31 46.00  -0.8
                eS     32 38.00
KGM     6.19   8 ePc   32 15.60   1.3
                e      33 29.00
PSI     7.68 332 eP    32 32.00  -2.8
IPM     8.80 351 ePc   32 52.20   2.0
        0.6s     19.40nm      5.1mb
TRT    10.70 110 ePc   33 17.10   1.0
SNG    11.41 351 eP    33 25.40  -0.2
KKM    17.06  54 ePd   34 41.00   2.4
TSM    17.67  62 ePd   34 48.00   1.9
LOE    21.44 358 eP    35 25.50  -1.6
BDT    21.54 351 eP    35 27.00  -1.1
NANU   22.24 147 eP    35 35.30   0.3
OIZ    24.15  17 P     35 56.50   2.8
KMI    29.11   0 Pd    36 40.00   0.6
MTN    29.60 109 eP    36 40.00  -3.6X
GBA    30.48 306 P     36 53.00   1.6
        1.2s     16.90nm      4.6mb
GYA    30.70   7 P     36 53.20  -0.2
WARB   31.87 136 eP    37 02.00  -1.6
WB5    34.78 119 iPc   37 26.80  -2.0
                eS     42 51.30
CD2    34.89   2 P     37 28.20  -1.4
LSA    35.37 343 P     37 33.00  -1.2
POO    36.11 310 iPd   37 39.30  -0.8
OIS    39.62 117 iPc   38 08.00  -1.4
        0.4s     15.00nm      5.3mb
LZH    40.05   2 eP    38 12.50  -0.4
        1.3s     35.00nm      5.1mb
NDI    40.69 325 iPc   38 18.00  -0.1
        1.0s    150.00nm      5.8mb
TIY    42.67  12 iPd   38 34.30   0.0
        0.8s     40.00nm           5.3mb
     Z  20s      0.60um           4.5Msz
GTA    43.42 357 iPd   38 40.20  -0.2
        0.8s     30.00nm           5.2mb
BTO    45.07   8 eP    38 53.00  -0.6
CTA    45.46 114 iPc   38 55.50  -1.4
        1.0s     72.00nm           5.5mb
                   epP  39 06.00  36kmX
HHC    45.55  10 Pd    38 58.20   0.7
BJI    45.75  15 eP    38 58.00  -0.8
        0.8s     29.00nm           5.2mb
     Z  20s      0.30um           4.2Msz
QUE    48.18 318 eP    39 17.80  -0.6
WMO    49.58 346 iPc   39 28.00  -0.8
KSH    49.79 333 eP    39 31.00   0.5
CN2    52.03  21 Pc    39 45.00  -2.3
        1.0s    100.00nm           5.8mb
                   PcP  40 57.00
MAT    52.46  36 eP    39 48.00  -2.6
        1.0s     15.00nm           5.0mb
BRS    53.17 121 iP    39 56.00  -0.1
MDJ    54.29  24 eP    40 02.70  -1.3
MAIO   56.84 319 eP    40 21.00  -1.6
MBH    72.84 303 iPc   42 06.50   0.4
PRNI   72.90 303 iP    42 07.00   0.5
DSI    72.91 305 eP    42 07.00   0.5
BUL    73.43 250 iPc   42 01.90  -8.0X
        1.0s      6.50nm           4.5mb
YLV    79.97 312 iP    42 45.40  -0.6
MLR    83.56 316 ePc   43 05.00   0.4
BCAO   84.29 275 ePc   43 08.70  -0.1
        0.7s      4.00nm           4.5mb
VAY    85.16 312 eP    43 12.00  -0.6
DEV    85.72 316 ePc   43 17.00   1.7
OHR    86.45 311 eP    43 18.50  -0.5
SUF    87.43 333 iP    43 23.70   0.5
        0.6s     11.80nm           5.2mb
NUR    87.62 331 iP    43 24.00  -0.1
        0.7s     24.00nm           5.4mb
SPC    88.04 319 eP    43 26.80   0.1
KRA    88.37 320 eP    43 28.10   0.1
SOD    88.40 338 iP    43 27.80   0.0
LCI    88.49 310 P     43 28.00  -0.7
KEV    88.88 340 eP    43 30.20   0.2
        0.8s     23.50nm           5.4mb
SRO    89.13 318 iP    43 32.20   0.6
ORI    89.61 310 Pd    43 35.60   1.5
TDS    89.65 310 P     43 35.00   0.7
ZST    89.98 318 eP    43 35.80   0.2
                e      43 54.60  67kmX
MGR    90.30 310 P     43 36.80  -0.5
SGO    90.52 310 P     43 39.00   0.8
PTJ    90.53 316 e(P)  43 39.00   0.7
KSP    90.78 321 eP    43 40.00   0.8
UPP    90.97 330 iP    43 40.00   0.1
VBY    90.98 315 e(P)  43 40.50   0.2
LJU    91.53 316 ePd   43 44.00   1.2
VOY    91.97 316 eP    43 45.00   0.0
BRG    92.26 321 iP    43 47.00   0.9
        0.6s     10.00nm           5.4mb
HFS    92.96 330 eP    43 48.80  -0.3
        0.8s     15.60nm           5.5mb
GRF    93.95 319 iPc   43 54.20   0.3
        0.9s      5.00nm           4.9mb
NB2    94.22 331 P     43 54.00  -0.9
        0.8s      4.70nm           5.0mb
IMA    99.39  24 P     44 17.90  -0.6
        0.8s      2.59nm           4.9mb
YKA   115.67  18 ePKP  49 15.70  -2.4
        0.8s      0.80nm
PNT   122.60  31 ePKP  49 32.00   0.3
NEW   124.55  31 PKP   49 36.50   0.9
FFC   125.83  17 ePKP  49 37.00  -0.9
        0.7s      6.00nm
MSU   133.50  38 PKP   49 53.80   0.5
RSSD  133.85  26 PKP   49 45.60  -8.2X
MEO   143.81  30 iPKPd  50 08.40  -3.5X
BAO   144.77 235 ePKP  50 14.70   0.5
OLY   146.25  21 PKP   50 15.60  -0.4
CVL   146.32   1 PKP   50 16.10   0.1
NAV   146.86   5 PKP   50 17.30   0.3
BLA   147.00   4 PKP   50 17.50   0.3
RSCP  147.84  12 PKP   50 19.90   1.3
GBTN  148.04  10 PKP   50 20.70   1.8
TKL   148.13  10 PKP   50 21.20   2.2
LHS   149.68   5 PKP   50 25.30   3.9X
JSC   149.83   6 PKP   50 25.80   4.2X
```

18d 03h

PRM	149.89	8	PKP	50	25.80	4.0X
SGS	150.98	5	PKP	50	28.90	5.5X
SIV	154.20	219	PKP	50	28.40	-0.1
LPB	157.43	204	PKP	50	41.00	7.8X
			e	51	15.00	
ZOBO	157.68	204	PKP	50	34.00	0.3
	1.0s		7.50nm			
			i	51	23.00	

S.D. = 1.1 on 85 of 94 obs.

% MAY 18, 1990 03h 44m 34.27± 1.04s
37.988 N ±13.1km 14.769 E ±10.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.57	72	Pd	44	47.00	1.1
			eSg	44	56.50	
GIB	0.59	270	P	44	47.20	1.0
			eSg	44	56.00	
FAI	1.12	231	P	44	54.50	-0.8
			eSg	45	09.30	
TDS	2.07	36	P	45	08.00	-1.5
MGR	2.23	16	P	45	12.00	0.2
SGO	2.60	9	P	45	17.00	0.0

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

% MAY 18, 1990 04h 04m 25.52± 1.32s
37.854 N ± 8.6km 15.228 E ±11.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.43	281	P	04	35.10	0.8
			eSg	04	40.40	
MEU	0.79	198	Pd	04	41.20	0.3
			eSg	04	49.00	
GIB	0.96	278	P	04	43.30	-0.6
			eSg	04	53.50	
FAI	1.36	245	P	04	50.00	-0.5
			eSg	05	04.50	
MGR	2.29	6	P	05	04.00	0.0

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

% MAY 18, 1990 05h 07m 23.87± 0.80s
37.726 N ± 6.9km 14.896 E ± 7.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.26	322	Pc	07	30.00	0.6
			eSg	07	34.00	
ATN	0.62	46	P	07	37.20	0.8
			eSg	07	47.00	
MEU	0.62	178	Pd	07	36.20	-0.3
			eSg	07	44.90	
GIB	0.74	291	P	07	38.00	-0.4
			eSg	07	48.50	
FAI	1.07	246	P	07	44.50	0.5
			eSg	08	01.00	
TDS	2.24	30	P	08	02.00	0.5
			eSn	08	28.00	
MGR	2.46	12	P	08	03.00	-1.7
			eSn	08	33.00	

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

MAY 18, 1990 06h 21m 13.35± 0.47s
40.660 N ± 5.0km 15.712 E ± 4.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.32	252	Pc	21	20.40	0.3
			eSg	21	24.80	
MGR	0.54	193	Pd	21	23.60	-0.6
			eSg	21	31.00	
BSS	0.70	281	P	21	27.10	-0.1
			eSg	21	37.00	
ORI	0.82	136	P	21	29.60	0.4
BAI	0.99	62	P	21	31.30	-0.8
			eSg	21	46.00	
TDS	1.11	154	P	21	34.50	0.3
			eSn	21	49.00	
BRT	1.15	79	Pd	21	34.00	-0.9
			eSg	21	51.00	
DUI	1.38	317	P	21	39.00	0.4
LCI	1.74	100	P	21	45.50	1.7
SDI	1.77	307	P	21	44.10	-0.2
			eSn	22	07.00	
ATN	2.50	185	P	21	54.00	-0.8
HVAR	2.58	12	ePn	22	01.30	5.5X
MNS	2.86	308	P	22	00.00	0.2

S.D. = 0.8 on 12 of 13 obs.

% MAY 18, 1990 06h 23m 04.69± 0.77s
37.342 N ± 7.2km 2.568 W ± 6.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD).

ENIJ	0.46	143	iPgd	23	14.00	-0.1
			eSg	23	19.60	
AFC	0.78	264	ePg	23	20.20	0.1
			eSg	23	32.00	
EALH	1.05	60	ePg	23	24.70	0.3
			eSg	23	38.00	
EBAN	1.27	311	ePn	23	28.20	0.0
			eSn	23	46.00	
EVIA	1.29	2	ePn	23	28.50	-0.2
			eSn	23	44.00	

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

? MAY 18, 1990 06h 32m 11.58± 3.32s
13.546 N ±44.9km 90.435 W ±34.4km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
NEAR COAST OF GUATEMALA (71)

UYO	20.85	351	e(P)	36	53.30	0.2
MEO	22.39	342	e(P)	37	08.70	0.1
ALQ	25.76	329	eP	37	41.00	-0.3
	0.9s		2.52nm		3.8mb	
ANMO	25.76	329	P	37	41.20	-0.1
KVN	35.24	321	P	39	05.30	0.0
PNT	42.98	332	eP	40	10.00	0.7
	0.7s		9.00nm		4.6mb	
YKA	51.82	346	eP	41	17.40	-0.9
	0.7s		1.20nm		4.0mb	
INK	61.31	343	eP	42	26.00	0.1
MBC	64.55	353	eP	42	47.50	0.3

S.D. = 0.5 on 9 of 9 obs.

MAY 18, 1990 08h 30m 04.04± 0.91s
29.948 N ± 7.9km 138.824 E ± 6.3km
DEPTH = 421.6 ± 9.1 km
4.5mb (17 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	6.60	356	iPc	31	44.70	0.1
	0.7s		82.88nm		5.0mb	
			eS	33	04.00	
YAMJ	8.27	7	P	32	03.00	-0.2
			S	33	36.60	
OFUJ	9.41	14	P	32	16.30	0.1
			eS	34	00.50	
SSE	15.25	279	P	33	16.00	-4.1X
	0.7s		15.00nm		4.6mb	
BJI	21.06	305	eP	34	17.50	0.0
	1.0s		48.00nm		4.9mb	
CHG	37.80	262	iPd	36	45.10	1.3
	0.9s		43.28nm		4.8mb	
BDT	38.43	260	eP	36	50.20	1.4
SNG	42.41	246	eP	37	21.90	0.7
GUN	46.04	281	Pd	37	50.80	0.7
PSI	46.50	242	eP	37	52.40	-0.8
	0.8s		25.10nm		4.6mb	
PKI	46.54	281	Pd	37	54.00	0.2
DMN	46.78	281	Pd	37	56.00	0.3
GKN	47.07	282	Pd	37	58.20	0.4
SDN	49.42	41	eP	38	13.50	-1.5
W85	49.72	186	iPd	38	17.00	-0.6
			i	39	32.00	
WRA	49.79	186	Pc	38	17.80	-0.3
	0.8s		12.70nm		4.3mb	
SVW	52.51	34	eP	38	38.50	0.7
NDI	53.15	285	iPd	38	42.50	-0.2
	1.0s		45.00nm		4.8mb	
IMA	53.91	28	eP	38	47.90	-0.1
	1.1s		10.90nm		4.1mb	
PMR	55.66	33	eP	38	59.10	-1.0
	1.0s		20.00nm		4.4mb	
FBA	56.28	29	eP	39	04.90	0.4
WARB	57.02	193	eP	39	10.00	0.0
TOA	57.05	33	eP	39	10.10	0.2
GBA	58.65	268	Pc	39	18.80	-2.6
	0.9s		21.00nm		4.6mb	
POO	59.65	275	iPd	39	27.20	-1.0
	0.8s		34.33nm		4.8mb	
KOD	60.19	265	eP	39	32.00	-0.1
QUE	61.17	290	iPd	39	48.10	9.9X
INK	61.69	25	iPc	39	40.40	-0.5
MBC	63.91	15	eP	39	55.00	-0.2
	0.6s		3.00nm		4.1mb	
KEV	69.31	340	eP	40	44.00	15.3X
SOD	70.66	338	iP	40	47.80	11.0X
YKA	71.04	28	eP	40	37.90	-1.1
	0.7s		3.50nm		4.1mb	
SUF	73.34	334	iP	40	52.40	0.0
	0.5s		5.30nm		4.4mb	
NUR	75.18	332	eP	40	55.00	-7.7X
ORV	78.33	51	eP	41	20.40	0.0
BKS	78.64	53	iPd	41	22.30	0.2
SES	79.02	38	ePc	41	24.30	0.4
HFS	79.63	335	eP	41	26.20	-0.6
	0.6s		7.30nm		4.5mb	
CMB	79.84	52	eP	41	29.30	0.9
FRI	80.83	53	eP	41	34.20	0.7
FFC	80.85	31	eP	41	33.00	-0.3
	1.0s		15.00nm		4.6mb	
KVN	80.87	50	eP	41	35.00	1.1
TNP	81.96	51	eP	41	40.20	0.6
ALQ	90.86	48	eP	42	23.00	0.5
	1.0s		3.25nm		4.2mb	

S.D. = 0.8 on 39 of 44 obs.

• MAY 18, 1990 08h 59m 34.86± 1.32s
36.319 N ±12.6km 22.385 E ± 7.8km
DEPTH = 5.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.3 (ATH).

VLI	0.60	48	iPgc	59	45.60	-1.2
ITM	0.93	337	ePg	59	53.00	-0.2
VAM	1.73	121	ePn	00	06.90	1.1
ATH	1.96	32	ePg	00	11.10	2.0
VLS	2.34	323	ePn	00	16.00	1.3
APE	2.64	73	ePn	00	17.10	-1.7
AGG	2.70	359	eP	00	19.30	-0.4
NEO	3.06	12	ePn	00	26.20	1.5
PAIG	3.74	15	eP	00	32.30	-2.2
LIT	3.78	1	ePc	00	37.10	2.1
KEK	3.96	330	ePn	00	37.50	0.0
SOH	4.56	9	eP	00	47.80	1.7
OHR	4.94	346	ePn	01	02.50	10.9X
VAY	5.00	2	ePn	00	50.40	-1.9
SKO	5.69	353	ePn	01	18.00	15.9X
ATN	5.82	290	P	01	03.00	-0.9
TDS	5.82	307	P	01	06.00	2.0
MGR	6.59	307	P	01	14.00	-0.8
SGO	6.98	309	P	01	18.00	-2.3
			eSn	02	39.00	
DUI	8.16	313	P	01	33.00	-3.8X

S.D. = 1.7 on 17 of 20 obs.

• MAY 18, 1990 10h 57m 25.90± 1.10s
40.410 N ±12.0km 27.061 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KGT	0.19	77	iPg	57	29.60	-0.5
EDC	0.62	96	iPg	57	37.40	-0.9
			eSg	57	46.40	
EZN	0.81	224	iPg	57	41.40	-0.2
			iSg	57	52.90	
KCT	1.00	99	iPn	57	44.10	-0.8
CTT	1.27	54	ePn	57	48.60	-0.9
DMK	1.50	20	iPn	57	52.90	0.0
ITU	1.64	64	iPnc	57	56.00	1.2
			iSg	58	23.00	
ISK	1.65	66	ePn	57	53.00	-2.0
YLV	1.77	84	iPn	57	58.60	1.8
GBZT	1.85	77	ePn	57	59.50	1.5
			iSg	58	24.00	
HRT	2.03	77	ePn	58	01.50	1.0
ALT	2.71	119	ePn	58	14.00	3.6X
VAY	3.53	286	eP	58	36.40	14.6X

S.D. = 1.4 on 11 of 13 obs.

• MAY 18, 1990 11h 04m 56.02± 0.59s
45.824 N ±12.6km 149.616 E ±11.6km
DEPTH = 33.0km (normal)
4.8mb (22 obs.)
KURIL ISLANDS (221)

FBA	38.38	38	P	12	17.90	2.5

INK	43.72	32	eP	13	01.00	1.8	KMI	36.76	252	Pd	29	47.00	1.0	ZST	76.14	325	i(P)	34	23.70	0.8
MBC	46.28	19	eP	13	20.00	0.4	WMQ	38.33	289	iPd	29	59.50	0.7	BZS	76.20	321	eP	34	23.50	0.2
	0.5s	1.00nm			4.0mb					eS	35	42.00		MOX	76.28	330	iPd	34	24.00	0.3
GUN	52.65	273	P	14	10.60	1.0	IMA	40.74	34	eP	30	17.40	-1.0		1.0s	22.00nm			4.8mb	
	0.6s	17.00nm			5.2mb			0.6s	18.30nm			4.8mb		GLA	76.47	57	P	34	26.00	0.9
YKA	53.10	35	eP	14	11.60	-0.4	KDC	42.06	47	e(P)	30	30.30	1.3	EKA	76.70	340	Pd	34	25.70	-0.2
	0.6s	1.90nm			4.2mb		LSA	42.24	268	P	30	30.70	-0.8		0.5s	8.40nm			4.7mb	
PKI	53.19	273	P	14	14.50	1.0	LOE	42.76	245	eP	30	35.00	-0.2	SOP	76.77	325	iPd	34	29.10	2.7
DMN	53.37	274	P	14	16.20	1.4	PMR	43.10	41	eP	30	37.50	0.1	KHC	76.78	328	iPd	34	27.30	0.7
	0.6s	15.00nm			5.2mb			0.6s	9.80nm			4.5mb			1.0s	30.00nm			5.0mb	
GKN	53.46	274	P	14	16.50	1.2	FBA	43.26	36	eP	30	38.80	0.1	WTS	76.80	333	eP	34	26.50	0.0
	0.5s	19.00nm			5.3mb					pP	31	29.80	242kmX		0.8s	34.00nm			5.1mb	
SOD	59.21	338	eP	15	04.00	8.2X	CHG	43.61	249	iPd	30	43.00	1.0	ALT	76.87	312	eP	34	27.00	-0.3
FFC	62.99	38	eP	15	21.00	-0.4		1.0s	27.25nm			4.7mb		WET	77.04	328	iPd	34	28.50	0.6
	0.6s	6.00nm			4.9mb		TOA	44.39	40	eP	30	48.70	0.8		0.9s	36.00nm			5.1mb	
NUR	64.98	333	eP	15	38.00	3.7X	GUN	47.06	269	P	31	09.40	-0.3	GRF	77.21	330	iPd	34	29.60	0.8
TNP	65.88	60	(P)	15	40.60	-0.2	PKI	47.60	269	P	31	13.40	-0.4		0.8s	53.00nm			5.3mb	
WB5	66.84	196	eP	15	46.30	-0.3	NNT	47.61	242	eP	31	11.00	-2.5	LFK	77.68	307	iP	34	31.90	0.2
WRA	66.91	196	Pc	15	46.20	-0.9	DMN	47.80	270	P	31	15.10	-0.1	KHL	77.72	312	eP	34	32.20	0.2
	0.6s	1.20nm			4.2mb			0.7s	42.00nm			5.0mb		ENN	78.14	333	iPd	34	34.00	0.1
NB2	68.29	340	P	15	53.00	-2.4	GKN	47.91	270	P	31	15.60	-0.4		0.7s	32.00nm			5.2mb	
	0.8s	4.20nm			4.6mb		KSH	48.11	289	P	31	18.00	0.7	BHG	78.20	327	eP	34	35.00	0.6
HFS	68.44	338	eP	15	53.20	-3.1X	INK	48.21	30	ePd	31	16.80	-0.7		0.7s	40.00nm			5.3mb	
	0.5s	5.00nm			4.9mb			0.6s	30.00nm			4.9mb		MEM	78.25	333	P	34	34.70	0.3
LDF	82.32	340	eP	17	14.50	-0.9	MBC	49.86	18	eP	31	29.00	-1.1	ELL	78.66	310	eP	34	36.00	-1.2
	0.8s	7.40nm			4.8mb			0.4s	6.00nm			4.5mb		SCH	78.67	16	eP	34	36.00	-0.8
LOR	82.54	337	eP	17	15.70	-0.9	SNG	51.24	237	eP	31	42.00	0.8	SNF	78.89	334	iP	34	38.04	0.1
	0.8s	5.35nm			4.7mb		NDI	52.87	276	iPd	31	52.80	-0.3	VAY	79.04	318	eP	34	39.60	0.6
GRR	82.69	341	eP	17	16.70	-0.6		0.7s	34.25nm			5.1mb		SKO	79.08	319	iP	34	40.00	0.8
	0.6s	5.40nm			4.8mb		KEV	57.09	338	iP	32	21.00	-2.0		0.6s	45.00nm			5.4mb	
LBF	82.77	337	eP	17	16.80	-1.0		0.6s	11.70nm			4.8mb		DOU	79.15	333	P	34	39.70	0.3
SSF	82.83	337	eP	17	17.20	-0.8	YKA	57.79	32	eP	32	26.70	-1.2	FVI	79.17	327	P	34	39.00	-0.5
	0.8s	4.05nm			4.6mb			0.5s	4.80nm			4.5mb		DSI	79.22	303	iP	34	41.00	1.0
LPF	83.06	341	eP	17	18.90	-0.3	SOD	58.71	336	iP	32	32.80	-1.5	SQTA	79.26	328	iPd	34	40.70	0.5
	0.6s	5.40nm			4.8mb		HYB	58.85	264	eP	32	35.00	-0.9		0.5s	14.10nm			5.0mb	
AVF	83.12	337	eP	17	19.00	-0.5				e	33	22.30	207km				i	34	42.10	4kmX
	0.8s	4.05nm			4.6mb		QUE	59.30	284	eP	32	38.30	-0.7	YRH	79.33	340	eP	34	40.50	0.2
SMF	83.12	337	eP	17	18.80	-0.8	MAIO	60.87	294	iPd	32	49.40	-0.1	OGA	79.62	328	iPd	34	42.90	0.7
	0.8s	7.40nm			4.8mb		POO	61.51	269	iPc	32	53.30	-0.7		1.2s	38.00nm			5.0mb	
LPG	83.34	335	eP	17	20.90	-0.1	SUF	61.95	332	iP	32	54.80	-1.4	CDF	79.69	331	iPd	34	42.40	0.0
	0.9s	4.90nm			4.6mb			0.7s	60.30nm			5.5mb			0.7s	15.45nm			4.8mb	
BGF	83.47	338	eP	17	21.20	-0.1	GBA	62.18	262	Pd	32	56.90	-1.4	SLE	79.81	330	ePd	34	42.80	-0.2
	0.8s	8.05nm			4.9mb			1.0s	15.70nm			4.8mb		ETA	79.84	341	eP	34	44.40	1.4
MAF	83.85	338	eP	17	23.30	0.0	PNT	63.16	46	eP	33	04.00	-0.4	SAX	79.93	329	ePd	34	43.90	-0.1
TCF	83.89	338	eP	17	23.80	0.3	WB5	63.87	188	eP	33	08.50	-0.6	ANMO	80.01	51	P	34	45.40	0.9
	0.8s	4.05nm			4.6mb		WRA	63.93	188	Pc	33	09.10	-0.5		0.8s	4.43nm			4.2mb	
LSF	84.10	338	eP	17	24.40	-0.1		0.4s	2.20nm			4.3mb		ALQ	80.01	51	eP	34	45.00	0.5
MFF	84.19	340	eP	17	24.70	-0.3	NUR	63.99	331	iP	33	08.00	-1.5		0.9s	4.83nm			4.2mb	
	0.6s	6.30nm			5.0mb			0.5s	64.60nm			5.7mb		OHR	80.05	319	eP	34	44.50	0.1
LFF	85.52	338	eP	17	32.30	0.6	NEW	65.11	46	P	33	16.90	-0.1		0.7s	57.00nm			5.4mb	
	0.8s	9.40nm			5.1mb			0.7s	5.50nm			4.5mb		CTI	80.06	327	P	34	43.00	-1.5
LPO	85.65	338	eP	17	33.10	0.8	SES	66.79	42	ePd	33	27.20	-0.4	OSS	80.11	328	ePd	34	44.90	0.1
	0.8s	5.35nm			4.8mb		UPP	66.87	333	iP	33	26.60	-1.3	PRNI	80.31	303	iP	34	47.00	1.0
S.D. = 1.0 on 29 of 32 obs.							FFC	67.82	34	iPd	33	33.60	-0.3	BSF	80.36	331	iPd	34	45.50	-0.5
----------								0.6s	12.00nm			4.8mb			0.7s	6.60nm			4.5mb	
MAY 18, 1990 11h 22m 56.05± 0.22s							HFS	67.90	335	eP	33	32.60	-1.7	ECP	80.36	341	iPc	34	46.30	0.6
43.949 N ± 4.7km 141.693 E ± 3.5km								0.6s	47.90nm			5.4mb		HAU	80.36	331	iPd	34	45.70	-0.2
DEPTH = 200.6km (2 depth phases)							NB2	67.92	336	P	33	33.30	-1.2		0.7s	11.00nm			4.7mb	
4.9mb (73 obs.)								0.9s	50.00nm			5.2mb		LLS	80.38	329	ePd	34	46.30	0.0
HOKKAIDO, JAPAN REGION						(224)	LRM	69.12	46	eP	33	42.60	0.2	MBH	80.79	303	eP	34	49.00	0.6
							AKU	69.58	351	iP	33	46.00	1.5	SAL	80.86	328	P	34	49.00	0.5
MAT	7.86	201	iPd	24	47.50	-1.1		1.0s	28.00nm			4.9mb		MDI	81.03	328	P	34	49.00	-0.3
	0.6s	30.67nm			4.7mb		FRB	70.01	14	eP	33	46.00	-1.1	TMA	81.07	329	ePd	34	49.50	-0.3
		eS		26	11.00		HPI	70.20	48	P	33	50.00	1.0	MMK	81.46	329	ePd	34	52.20	0.3
CN2	11.73	275	iPc	25	37.80	-0.6	KVN	70.47	54	eP	33	51.00	0.4	DIX	81.63	330	ePd	34	53.20	0.3
	1.0s	100.00nm			5.2mb					e	34	37.20	194km	ARV	81.64	325	P	34	53.00	0.4
SNY	13.45	267	iPd	26	00.80	0.7	TNP	71.63	55	P	33	58.20	0.7	SFI	81.74	326	P	34	54.80	1.7
	0.8s	100.00nm			5.3mb		BW06	72.72	47	P	34	03.90	0.0	PGD	81.83	326	P	34	55.50	1.7
DL2	15.86	258	eP	26	30.00	0.2		0.7s	5.85nm			4.4mb		LOR	81.85	332	iPd	34	53.60	0.0
	1.0s	100.00nm			5.2mb		DUG	72.73	51	P	34	04.70	0.8		0.7s	19.85nm			5.0mb	
BJI	19.34	267	eP	27	09.00	1.0	KAS	73.26	312	eP	33	59.50	-7.3X	FLN	81.89	336	iPd	34	53.50	-0.3
	1.0s	30.00nm			4.8mb		VRI	73.64	319	ePc	34	09.50	0.7		0.5s	8.75nm			4.7mb	
		eS		30	40.00		RSON	74.04	33	P	34	09.80	-1.2	LDF	81.94	336	iPd	34	53.90	-0.2
TIA	20.28	256	Pc	27	16.70	-0.8		0.7s	14.71nm			4.8mb			0.5s	8.75nm			4.7mb	
SSE	20.65	238	eP	27	23.50	2.3	MSU	74.25	52	P	34	13.70	0.9	CRE	81.94	326	P	34	54.50	0.2
NJ2	21.49	244	Pc	27	29.10	-0.3	MLR	74.29	319	eP	34	13.00	0.3	BOB	81.98	328	P	34	55.00	0.5
HHC	22.41	273	P	27	40.00	1.6	KSP	74.36	328	iPd	34	13.00	0.1	LCI	82.00	320	P	34	54.00	-0.5
BTO	23.60	273	P	27	51.00	1.1		0.9s	27.00nm			5.0mb		LBF	82.06	332	iPd	34	54.60	-0.2
		eS		31	53.00		PEC	74.47	58	P	34	14.20	0.3		0.7s	14.35nm			4.8mb	
WHN	25.41	247	eP	28	06.00	-0.7	RSSD	74.58	43	P	34	13.90	-0.7	ASS	82.11	325	P	34	55.00	-0.1
LZH	29.83	268	P	28	47.00	0.6	CLL	75.23	330	iPd	34	17.40	-0.4	BDI	82.13	327	P	34	54.00	-1.2
	1.0s	36.00nm			5.1mb			0.9s	53.00nm			5.3mb		SSF	82.15	333	iPd	34	55.20	0.0
GTA	31.36	276	Pd	28	59.60	-0.1	BRG	75.23	329	iPd	34	17.40	-0.4		0.7s	11.00nm			4.7mb	
CD2	32.53	259	P	29	09.40	-0.5		1.0s	20.00nm			4.8mb		LSD	82.26	330	P	34	56.67	0.6
GYA	33.21	250	P	29	16.40	0.5	PRU	75.72	328	Pd	34	21.00	0.4	GRR	82.34	336	iPd	34	56.20	0.1
		S		34	18.20			1.1s	30.60nm			4.9mb			0.5s	8.75nm			4.7mb	
		ScP		35	24.60					e	34	31.80	35kmX	LPL	82.36	330	iPd	34	57.00	0.4

18d 11h

	0.7s	14.35nm		4.8mb		
LPG	82.37	330 iPd	34	57.20	0.5	
	0.7s	19.30nm		4.9mb		
SMF	82.40	332 iPd	34	56.20	-0.3	
	0.8s	27.55nm		5.0mb		
AVF	82.43	333 iPd	34	56.70	0.1	
	0.8s	34.90nm		5.1mb		
RSP	82.48	329 P	34	56.67	-0.4	
DUI	82.50	323 P	34	58.00	0.8	
PCP	82.52	328 P	34	56.47	-0.7	
MNS	82.67	325 P	34	58.00	0.0	
AZI	82.67	324 P	34	58.00	0.1	
LPF	82.71	336 iPd	34	58.50	0.4	
	0.5s	10.20nm		4.8mb		
CKI	82.72	328 P	34	58.00	-0.2	
SDI	82.74	323 P	34	58.50	0.1	
BNI	82.78	330 P	34	59.00	0.4	
BGF	82.81	333 iPd	34	58.60	0.0	
	0.7s	7.70nm		4.5mb		
RRL	82.85	330 P	34	59.13	0.0	
ORI	82.91	321 P	35	00.00	0.8	
FIN	82.93	328 P	34	57.80	-1.5	
ROB	82.98	329 P	34	58.52	-1.1	
SGO	83.02	322 P	35	00.00	0.3	
MAF	83.19	333 iPd	35	01.30	0.7	
	0.7s	37.50nm		5.2mb		
ENR	83.21	329 P	34	58.83	-2.0	
STV	83.23	329 P	34	58.62	-2.3	
MGR	83.25	321 P	35	00.00	-0.9	
TCF	83.25	333 iPd	35	01.30	0.4	
	0.7s	7.70nm		4.5mb		
TDS	83.28	321 P	35	00.00	-1.1	
AUTN	83.41	329 P	35	01.91	0.0	
TOUF	83.46	329 P	35	01.95	-0.2	
LSF	83.51	333 iPd	35	02.40	0.3	
	0.7s	29.75nm		5.1mb		
SBF	83.52	329 iPd	35	02.00	-0.3	
	0.6s	14.45nm		4.9mb		
AURF	83.54	329 P	35	02.11	-0.3	
MVIF	83.59	329 P	35	02.41	-0.4	
REVF	83.65	329 P	35	02.69	-0.2	
MFF	83.72	335 iPd	35	03.80	0.6	
	0.6s	18.05nm		5.0mb		
CALN	83.82	329 P	35	03.54	-0.4	
PGF	84.03	327 P	35	04.72	-0.2	
FRF	84.07	329 iPd	35	04.70	-0.3	
	0.6s	7.20nm		4.6mb		
LRG	84.27	329 iPd	35	06.10	0.2	
	0.6s	21.65nm		5.1mb		
LMR	84.32	329 iPd	35	06.10	-0.1	
	0.6s	19.85nm		5.0mb		
RJF	84.35	333 eP	35	06.90	0.5	
	0.6s	5.40nm		4.5mb		
CAF	84.50	332 iPd	35	08.20	1.0	
	0.6s	8.55nm		4.7mb		
LFF	84.93	333 eP	35	10.20	1.0	
	0.9s	19.65nm		4.8mb		
LPO	85.01	333 iPd	35	10.60	0.9	
	0.6s	9.00nm		4.7mb		
EPF	86.76	333 iPd	35	18.60	0.3	
	0.6s	10.80nm		4.9mb		
OLY	87.33	41 P	35	21.40	0.2	
RSCP	89.92	37 P	35	33.50	0.0	
	0.8s	39.06nm		5.4mb		
GBTN	90.45	36 P	35	36.20	0.4	
TIC	121.35	320 PKP	41	26.00	-0.9	
KIC	121.47	320 PKP	41	26.00	-1.1	
SIV	146.09	42 PKP	42	13.00	0.2	
	S.D. = 0.8	on 183 of 184 obs.				

---

* MAY 18, 1990 12h 05m 22.50± 1.53s
13.744 N ± 8.0km 60.940 W ±33.5km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.4 (TRN). ML 2.9 (FDF).

SVV	0.50	212 eP	05	32.99	-0.2	
		eS	05	41.65		
SVB	0.56	213 eP	05	34.10	0.1	
		eS	05	43.25		
FCV	0.65	207 eP	05	35.28	0.0	
		eS	05	44.63		
BIM	0.78	351 eP	05	36.91	-0.2	
		S	05	47.00		
MVM	0.81	3 iPc	05	37.39	-0.1	
		S	05	47.00		
CRM	1.00	1 iPc	05	40.40	0.1	
		S	05	53.30		
FDF	1.00	348 eP	05	40.37	0.0	
	0.1s	1.30nm				
		S	05	53.40		
PML	1.06	347 iPc	05	37.39	-3.7X	
		eS	05	47.95		
CXM	1.08	348 eP	05	41.58	0.0	
PCM	1.10	346 eP	05	41.81	0.2	
SVN	1.11	349 eP	05	41.65	-0.2	
	S.D. = 0.2	on 10 of 11 obs.				

MAY 18, 1990 12h 37m 35.72± 0.54s
42.496 N ± 5.9km 24.218 E ± 5.9km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
ML 2.9 (THE).

SRS	1.46	199 ePb	38	02.90	0.8	
		eSb	38	24.30		
KNT	1.66	217 ePb	38	05.20	0.2	
VAY	1.70	227 ePn	38	05.50	-0.1	
SOH	1.79	201 ePb	38	06.80	-0.2	
GRG	2.05	222 ePn	38	09.90	-0.8	
ALN	2.10	139 ePn	38	11.80	0.4	
SKO	2.13	257 ePn	38	10.00	-1.8	
		eSn	38	40.00		
PAIG	2.60	189 ePn	38	17.60	-0.9	
DMK	2.72	103 eP	38	20.50	0.3	
FNA	2.73	232 ePn	38	20.10	-0.4	
OHR	2.91	243 ePn	38	25.80	2.9	
MLR	3.24	22 eP	38	28.00	0.2	
CTT	3.42	112 eP	38	29.50	-0.7	
BZS	3.64	330 ePc	38	33.00	-0.2	
VRI	3.82	27 ePc	38	36.00	0.1	
	S.D. = 1.1	on 15 of 15 obs.				

% MAY 18, 1990 13h 07m 06.72± 0.70s
40.830 N ± 6.8km 29.469 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GBZT	0.05	204 iPgc	07	08.00	-0.8	
HRT	0.15	93 ePg	07	10.30	0.0	
YLV	0.27	196 iPg	07	12.90	0.4	
ISK	0.39	307 ePg	07	14.40	-0.3	
GPA	0.84	130 ePg	07	23.00	0.1	
CTT	0.85	292 iPg	07	23.40	0.3	
EDC	1.31	249 ePn	07	31.30	0.3	
	S.D. = 0.5	on 7 of 7 obs.				

% MAY 18, 1990 13h 21m 55.48± 2.98s
42.876 N ±20.8km 0.725 W ± 7.8km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.7 (STR).

LHE	0.08	64 Pg	21	57.48	0.0	
		Sg	21	58.93		
ISSF	0.16	341 Pg	21	58.86	0.0	
		Sg	22	01.36		
ATE	0.21	4 Pg	21	59.80	0.0	
		Sg	22	03.05		
ESCF	0.23	29 Pg	22	00.16	0.0	
		Sg	22	03.50		
JAU	0.31	58 Pg	22	01.77	0.1	
		Sg	22	06.25		
BOH	0.31	317 Pg	22	01.75	0.0	
		Sg	22	06.84		
	S.D. = 0.0	on 6 of 6 obs.				

& MAY 18, 1990 14h 36m 31.10s
36.643 N 121.315 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.1 (BRK).

SAO	0.16	319 eP	36	34.20	-0.3	
LLA	0.30	95 iPc	36	37.10	-0.1	
GCC	0.67	305 eP	36	43.20	-1.3	
		eS	36	54.30		
PRI	0.72	133 eP	36	44.90	-0.7	
ARN	0.73	346 iPc	36	45.20	-0.4	
MHC	0.74	340 ePd	36	45.60	-0.4	
		eS	36	58.50		
PHAM	1.09	137 eP	36	51.20	-0.8	
PKEM	1.13	120 eP	36	52.80	0.1	
PCC	1.21	315 eP	36	52.10	-1.9	
FRI	1.34	74 eP	36	54.30	-1.8	
		eS	37	11.70		
BKS	1.43	329 eP	36	58.30	0.6	
BRK	1.44	329 e(P)	36	58.20	0.5	
CMB	1.57	28 eP	36	58.10	-1.6	
		eS	37	18.00		
BCH	1.76	145 eP	37	00.00	-2.5	
KVN	3.50	46 eP	37	29.00	1.6	
	15 obs. associated					

---

* MAY 18, 1990 15h 11m 19.26± 2.68s
51.248 N ±21.2km 15.918 E ±14.1km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.47	149 iPd	11	28.80	0.0	
	0.3s	58.00nm				
		iS	11	37.80		
		eLR	11	44.00		
BRG	1.30	254 iPg	11	43.30	0.0	
		iSg	12	02.20		
PRU	1.54	215 Pn	11	46.80	0.1	
		Pg	11	48.30		
		Sn	12	05.60		
		Sg	12	12.60		
CLL	1.83	273 (Pg)	11	51.00	0.0	
		eSg	12	17.00		
KHC	2.60	216 ePg	12	02.00	-0.1	
		e	12	08.40		
		eSn	12	34.50		
		Sg	12	46.00		
MOX	2.79	259 ePg	12	10.00	5.3X	
		iSg	12	50.00		
WET	2.87	224 iPnc	12	05.90	0.0	
	S.D. = 0.1	on 6 of 7 obs.				

% MAY 18, 1990 16h 06m 01.54± 0.82s
37.700 N ± 6.7km 14.827 E ± 7.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.25	336 Pc	06	07.00	0.0	
		eSg	06	10.50		
MEU	0.60	172 P	06	13.20	-0.6	
		eSg	06	24.90		
ATN	0.68	47 P	06	16.00	0.9	
		eSg	06	26.50		
GIB	0.70	295 P	06	15.00	-0.4	
		eSg	06	26.00		
FAI	1.01	246 P	06	21.50	0.9	
		eSg	06	35.00		
MGR	2.50	13 P	06	42.00	-0.9	
		eSn	07	11.00		
	S.D. = 1.0	on 6 of 6 obs.				

? MAY 18, 1990 16h 43m 00.41± 8.93s
2.500 N ±41.3km 79.563 W ±97.3km
DEPTH = 32.1 ± 11.1 km
SOUTH OF PANAMA (83)

COTA	2.48	150 eP	43	39.30	-0.6	
GGP	2.83	160 iP+	43	44.20	-0.7	
		S	44	16.50		
QUR	2.85	159 iP+	43	44.50	-0.5	
		eS	44	19.00		
CAYA	2.88	147 eP	43	46.00	0.5	
QTO	2.88	159 eP	43	45.40	0.0	
		S	44	20.30		
VC1	3.33	160 eP	43	52.70	0.7	
ZOBO	21.81	149 P	47	53.00	0.5	
SIV	25.92	136 P	48	31.20	-0.5	
	S.D. = 0.8	on 8 of 8 obs.				

% MAY 18, 1990 17h 14m 59.68± 0.98s
37.699 N ± 7.7km 14.864 E ± 8.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.27	330 Pc	15	04.80	-0.6	
		eSg	15	10.10		
MEU	0.60	175 P	15	11.00	-0.8	
		eSg	15	21.80		
ATN	0.66	46 P	15	13.50	0.7	
		eSg	15	22.70		
GIB	0.72	294 P	15	13.50	-0.5	
		eSg	15	23.50		
FAI	1.04	246 P	15	20.50	1.3	

eSg 15 34.00
S.D. = 1.3 on 5 of 5 obs.

MAY 18, 1990 18h 25m 41.11± 0.67s
37.652 N ± 5.8km 22.753 E ± 8.8km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
ML 2.8 (ATH), 2.8 (THE).

ITM	0.81	235	iPbc	25 55.90	-0.2
ATH	0.83	67	ePb	25 58.00	1.7
VLI	0.94	171	Pnd	25 57.10	-0.9
AGG	1.41	346	ePg	26 04.50	-0.2
NEO	1.69	12	ePn	26 08.50	-0.3
VLS	1.79	288	ePn	26 12.00	1.8
PAIG	2.38	17	ePb	26 17.80	-0.9
LIT	2.45	355	ePb	26 18.80	-0.9
			eSb	26 47.00	
VAM	2.53	152	Pn	26 20.50	-0.2
OUR	2.84	19	ePn	26 25.50	0.4
SOH	3.20	8	ePn	26 29.50	-0.8
FNA	3.31	342	ePn	26 32.60	0.8
GRG	3.31	355	ePn	26 33.40	1.5
KNT	3.51	2	ePn	26 35.20	0.6
SRS	3.52	10	ePn	26 33.60	-1.2
VAY	3.67	358	eP	26 34.00	-2.8
ALN	4.13	37	ePn	26 44.90	1.5

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

% MAY 18, 1990 18h 27m 47.22± 2.50s
44.883 N ±19.9km 3.028 E ±15.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

CAF	0.69	274	Pg	27 59.60	-1.2
			Sg	28 08.00	
RJF	1.15	292	Pg	28 08.60	-0.1
			Sg	28 21.50	
LPO	1.33	262	Pg	28 12.20	0.5
			Sg	28 29.00	
MAF	1.38	347	Pg	28 12.00	-0.5
			Sg	28 29.00	
TCF	1.52	338	Pg	28 14.40	-0.1
			Sg	28 31.80	
LFF	1.63	273	Pg	28 16.60	0.6
			Sg	28 37.00	
BGF	1.68	356	Pg	28 17.20	0.4
			Sg	28 37.00	
LSF	1.73	323	Pg	28 18.00	0.6
			Sg	28 40.00	
SMF	1.85	18	Pg	28 20.00	0.7
			Sg	28 43.20	
AVF	1.92	7	Pg	28 21.20	0.9
			Sg	28 44.90	
LBF	2.20	17	Pn	28 22.60	-1.8
			Sg	28 54.00	

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

---

* MAY 18, 1990 18h 27m 51.27± 2.17s
31.713 N ±20.1km 24.796 E ±15.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF LIBYA (401)
MD 4.3 (HLW).

VAM	3.72	352	eP	28 51.10	1.1
VLI	5.22	343	eP	29 12.80	1.5
HLW	5.93	106	eP	29 23.50	2.3
			eS	30 32.00	
ITM	5.95	337	eP	29 21.00	-0.5
ELL	6.57	39	ePn	29 30.00	-0.4
VLS	7.31	333	eP	29 38.80	-1.9
BCK	7.46	38	ePn	29 43.50	0.7
LFK	8.12	62	iPn	29 53.10	1.1
ZNT	8.71	84	eP	29 58.80	-1.4
MBH	8.89	100	eP	30 02.70	0.0
DSI	9.02	88	eP	30 03.50	-1.0
HRI	9.37	78	iP	30 08.00	-1.5

S.D. = 1.5 on 12 of 12 obs.

& MAY 18, 1990 19h 06m 11.06s
46.442 N 122.338 W
DEPTH = 18.9km
WASHINGTON (29)
<SEA>. CL 2.9 (SEA).

KOSW	0.10	79	P	06 14.23	-0.8
CZM	0.12	267	P	06 14.95	-0.2
TDL	0.12	137	P	06 15.12	-0.2
			S	06 18.22	
ERK	0.14	181	P	06 15.03	-0.4
			S	06 17.87	
STD	0.22	159	P	06 16.16	-0.4
LMW	0.23	8	P	06 16.70	0.0
FL2	0.25	182	P	06 16.39	-0.6
SOSW	0.25	146	P	06 16.42	-0.6
YEL	0.25	156	P	06 16.84	-0.3
			S	06 20.97	
SHW	0.26	164	P	06 16.82	-0.4
REMW	0.27	156	P	06 17.09	-0.3
ESD	0.28	152	P	06 17.18	-0.3
HSR	0.29	158	P	06 17.44	-0.3
APW	0.30	315	P	06 17.56	-0.2
JLK	0.32	156	P	06 17.73	-0.4
LVP	0.38	187	P	06 18.47	-0.6
CDFW	0.38	148	P	06 18.65	-0.5
RVW	0.41	224	P	06 18.68	-0.8
MTMW	0.43	168	P	06 19.30	-0.6
LON	0.48	50	eP	06 20.00	-0.7
GLK	0.52	76	P	06 20.80	-0.7
RVC	0.56	27	P	06 21.61	-0.5
ASR	0.59	119	P	06 22.09	-0.6
GHW	0.60	4	P	06 21.97	-0.8
WPW	0.60	65	P	06 22.13	-0.8
BMW	0.62	273	P	06 22.23	-0.8
FMW	0.67	43	P	06 23.43	-0.7
GULW	0.73	135	P	06 24.31	-0.7
CPW	0.76	314	P	06 24.89	-0.7
APM	0.84	147	P	06 26.12	-0.8
GSM	0.85	26	P	06 26.26	-0.8
NLO	0.85	246	P	06 26.50	-0.5
PGO	0.98	185	P	06 28.29	-0.9
ONR	1.08	294	P	06 30.16	-0.7
VLL	1.08	155	P	06 30.60	-0.4
RMW	1.08	20	P	06 30.00	-1.0
NAC	1.08	74	P	06 31.27	0.3
SPW	1.11	3	P	06 31.02	-0.4
SMW	1.12	322	P	06 30.68	-0.9
KMOR	1.14	225	P	06 30.45	-1.5
GMW	1.15	345	P	06 30.83	-1.2
GL2	1.16	114	P	06 31.79	-0.5
TDH	1.21	161	P	06 32.28	-0.9
HDW	1.30	338	P	06 33.31	-1.0
OBH	1.37	311	P	06 34.84	-0.4
PGW	1.39	353	P	06 35.26	-0.2
HTW	1.42	16	P	06 35.37	-0.6
VGB	1.43	130	eP	06 36.00	-0.1
VBEM	1.48	159	P	06 37.14	0.2
BRVW	1.62	88	P	06 38.90	0.0
BLN	1.62	345	P	06 38.26	-0.6
OSD	1.66	326	P	06 40.01	0.3
CROR	1.74	147	P	06 41.76	1.1
VTHM	1.77	135	P	06 41.54	0.5
JCW	1.77	9	P	06 41.20	0.1
MDW	1.79	84	P	06 41.16	-0.1
ETW	1.80	49	P	06 42.64	1.1
MCW	2.26	352	eP	06 49.00	0.8
BW06	9.82	107	eP	08 32.00	-2.6

59 obs. associated

& MAY 18, 1990 20h 00m 09.06s
48.826 N 122.130 W
DEPTH = 1.8km
WASHINGTON (29)
<SEA>. CL 2.5 (SEA). Felt (III) ot Deming.

MBW	0.16	105	Pd	00 12.99	0.7
CMW	0.40	179	Pd	00 16.49	-0.6
RPW	0.56	133	P	00 19.32	-0.9
OHW	0.57	208	P	00 20.16	-0.3
JCW	0.65	168	Pd	00 21.02	-1.0
BLN	0.99	215	P	00 27.08	-1.6
HTW	1.05	167	P	00 28.58	-1.1
STW	1.23	237	P	00 30.34	-2.3
HDW	1.33	208	Pd	00 32.52	-1.9
RMW	1.38	171	P	00 34.12	-1.3
NLW	1.41	121	P	00 35.01	-0.8
OSD	1.45	227	Pd	00 34.69	-1.9
GSM	1.64	172	P	00 38.64	-0.5
DHW2	1.78	117	P	00 42.69	1.5
WTV	1.84	127	P	00 42.41	0.4
RVC	1.89	177	P	00 42.37	-0.4
FMW	1.92	171	P	00 42.52	-0.8
TBM	1.95	148	P	00 45.01	1.4
LMW	2.16	183	P	00 46.70	0.0
NAC	2.27	157	P	00 48.72	0.5
ASR	2.70	172	P	00 57.74	3.3
CDFW	2.71	179	P	00 55.61	1.1

22 obs. associated

& MAY 18, 1990 20h 40m 32.19s
59.805 N 152.900 W
DEPTH = 95.1km
SOUTHERN ALASKA (2)
<AGS-P>.

AUL	0.50	213	eP	40 47.10	-0.6
AUE	0.51	208	iP	40 47.01	-0.7
			iS	40 57.61	
RED	0.62	6	iP	40 47.96	-0.8
			iS	41 00.19	
PDB	0.65	269	iP	40 48.16	-0.8
XLV	0.69	120	iP	40 48.68	-0.7
RDT	0.81	18	iP	40 49.78	-0.8
			iS	41 03.34	
NNL	0.84	73	iP	40 51.22	0.4
CNPM	0.89	108	iP	40 50.67	-0.7
CDD	0.96	204	eP	40 50.96	-1.1
MCNL	0.96	230	iP	40 51.11	-1.0
NKA	1.25	41	eP	40 56.53	1.1
SPU	1.44	16	iP	40 57.21	-0.7
SLKM	1.51	61	eP	40 58.14	-0.7
NCG	1.65	13	eP	41 00.19	-0.4
SEW	1.76	79	eP	41 00.94	-1.0
SUA	1.97	32	eP	41 04.56	-0.3
PMS	2.19	47	eP	41 07.05	-0.7
PLRM	2.58	44	eP	41 11.69	-1.1

18 obs. associated

? MAY 18, 1990 21h 58m 44.91±17.88s
41.635 N ±120.km 12.710 E ±107.km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RDP	0.12	2	Pd	58 47.70	-0.3
			eSg	58 54.00	
RMP	0.18	358	P	58 48.50	-0.4
			eSg	58 55.00	
MNS	0.75	358	P	59 00.00	0.4
			eSg	59 11.50	
SDI	0.83	85	P	59 01.00	0.0
			eSn	59 14.00	

S.D. = 0.6 on 4 of 4 obs.

% MAY 18, 1990 22h 03m 50.40± 1.42s
40.216 N ±12.5km 29.277 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.36	12	iPg	03 58.70	0.9
HRT	0.67	26	ePg	04 02.90	-0.9
GPA	0.79	84	ePn	04 06.00	0.2
EDC	1.09	277	ePn	04 11.00	0.1
CTT	1.13	326	ePn	04 11.30	-0.3

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

MAY 18, 1990 23h 00m 26.22± 0.51s
43.954 N ± 5.2km 18.307 E ± 5.0km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (TTG).

PLE	1.01	128	ePg	00 44.50	-1.3
			eSg	00 59.50	
BRY	1.07	171	ePg	00 44.90	-2.0
			eSg	01 01.00	
NKY	1.25	156	ePg	00 49.00	-0.9
			eSg	01 07.60	
HCY	1.51	175	ePg	00 53.30	-0.7
			eSg	01 15.50	
HVAR	1.56	241	ePn	00 53.40	-1.2
			iSn	01 16.00	
TTG	1.68	155	ePn	00 56.60	0.3
			eSn	01 20.00	
BDV	1.71	167	ePn	00 57.50	0.6
			eSn	01 21.20	
BEO	1.77	60	ePn	00 59.60	2.0
			eSg	01 23.50	
ULC	2.11	160	ePn	01 05.00	2.4
			eSn	01 33.00	

18d 23h

PTJ	2.56	320	e(Pn)	01 09.10	-0.1
VBY	2.67	307	eP	01 16.90	6.3X
			e(Sn)	01 58.40	
BZS	2.88	54	ePc	01 12.00	-1.7
SKO	3.03	130	ePn	01 16.00	0.2
BRT	3.18	195	P	01 28.50	10.6X
OHR	3.39	146	ePn	01 21.00	0.1
LJU	3.40	309	eP	01 20.80	-0.2
			e(Sg)	02 22.00	
LCI	3.63	184	P	01 32.00	7.8X
TRI	3.68	300	P	01 32.00	7.1X
VOY	3.76	305	eP	01 25.70	-0.5
			eS	02 42.30	
ARV	3.92	265	P	01 30.00	1.7
SDI	3.99	237	P	01 29.50	0.0
SGO	4.06	214	P	01 31.50	1.2
ORI	4.13	200	P	01 32.50	1.2
ASS	4.20	260	P	01 31.00	-1.4
MGR	4.33	209	P	01 34.00	-0.2
			eSn	02 20.00	
CRE	4.61	268	P	01 38.00	-0.3
FVI	4.71	306	P	01 40.00	0.4

S.D. = 1.2 on 23 of 27 obs.

? MAY 18, 1990 23h 40m 28.77± 3.43s
42.896 N ±17.3km 8.810 W ±24.3km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.8 (MDD).

STS	0.19	93	iPgc	40 33.10	0.1
			eSg	40 35.50	
EZAM	0.75	173	iPgd	40 43.50	0.0
			eSg	40 53.20	
EMON	1.21	63	iPgd	40 51.30	0.0
			eSg	41 06.00	
ERUA	1.33	112	ePn	40 53.20	-0.1
			eSn	41 09.20	

S.D. = 0.1 on 4 of 4 obs.

MAY 18, 1990 23h 45m 01.65± 0.63s
39.330 N ± 5.5km 21.660 E ± 7.8km
DEPTH = 33.0km (normal)
GREECE (364)
ML 3.2 (ATH), 2.9 (THE).

AGG	0.60	120	ePg	45 11.50	-2.3
			eSg	45 23.00	
LIT	1.00	39	ePb	45 19.50	0.1
			eSb	45 36.40	
NEO	1.21	91	ePn	45 22.50	0.1
VLS	1.42	216	ePn	45 22.70	-2.7
FNA	1.47	352	ePb	45 26.00	-0.1
			eSb	45 46.40	
KEK	1.49	285	ePn	45 26.10	-0.3
THE	1.64	37	ePb	45 28.20	-0.4
GRG	1.72	19	ePn	45 29.30	-0.5
OHR	1.90	340	iPn	45 34.70	2.4
			iSg	46 00.10	
			Lg	46 02.00	
SOH	1.98	41	ePn	45 33.70	0.2
KNT	2.06	27	ePn	45 34.80	0.2
ATH	2.10	129	ePn	45 36.00	0.8
VAY	2.11	19	ePn	45 35.00	-0.3
ITM	2.16	174	ePb	45 38.00	2.0
SRS	2.32	39	ePn	45 37.60	-0.7
SKO	2.64	356	ePn	45 42.70	-0.2
VLI	2.80	158	ePb	45 46.70	1.7

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

MAY 19, 1990 00h 17m 47.80± 0.78s
40.225 N ± 5.7km 23.916 E ± 6.1km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 2.3 (THE).

OUR	0.12	25	iPgc	17 50.50	0.2
PAIG	0.35	211	ePg	17 54.90	0.1
			eSg	17 59.50	
SOH	0.73	324	ePgc	18 01.90	-0.6
			eSg	18 12.00	
THE	0.83	300	ePg	18 03.40	-0.9
			eSg	18 14.80	
SRS	0.92	345	ePg	18 06.90	1.0
			eSg	18 18.40	
LIT	1.10	264	ePb	18 09.40	0.5
			eSb	18 24.10	
KNT	1.21	321	ePb	18 10.90	0.0
			eSb	18 28.10	
VAY	1.50	317	ePn	18 15.60	0.3
ALN	1.76	67	ePb	18 18.60	-0.5

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

---

* MAY 19, 1990 00h 36m 54.44± 1.63s
5.604 S ±19.0km 145.853 E ±10.1km
DEPTH = 111.3 ± 11.6 km
3.8mb (1 obs.)
EAST PAPUA NEW GUINEA REGION (207)

LAT	1.54	132	iPc	37 22.90	0.7
MNDI	2.25	256	eP	37 31.00	-0.5
PMG	3.99	161	iPd	37 53.90	-0.8
	0.9s		151.26nm		
			eS	38 42.00	
CTA	14.40	178	iPc	40 20.00	5.7X
			e	43 11.00	
QIS	16.06	202	eP	40 35.10	0.0
MTN	16.21	243	eP	40 37.50	0.4
WB5	18.06	217	eP	41 01.00	1.2
WRA	18.13	217	Pd	40 59.80	-0.8
	0.7s		4.30nm	3.8mb	
RMQ	20.95	173	eP	41 35.00	4.8X
NAI	108.82	267	iPKPd	55 20.00	6.5X
SIV	145.78	129	PKP	56 22.20	-0.3

S.D. = 1.0 on 8 of 11 obs.

? MAY 19, 1990 01h 30m 20.24± 0.77s
31.548 S ±34.1km 68.870 W ±20.5km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.09	44	iPd	30 36.00	0.0
ZON	0.16	89	iPd	30 35.70	-0.4
			eS	30 48.00	
RTLL	0.41	58	iPc	30 37.00	0.2
RTCV	0.42	138	iPc	30 37.00	0.1
RTBS	0.51	257	iPd	30 37.40	0.1

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

% MAY 19, 1990 01h 43m 10.59± 2.01s
39.686 N ±17.5km 16.816 E ± 8.9km
DEPTH = 5.0km (geophysicist)
SOUTHERN ITALY (390)

TDS	0.37	266	Pd	43 16.90	-1.1
			eSg	43 23.20	
ORI	0.47	323	P	43 19.90	-0.1
MGR	1.07	295	P	43 32.10	0.9
LCI	1.09	53	P	43 32.00	0.5
			eSn	43 49.00	
BRT	1.23	14	P	43 32.60	-1.3
			eSn	43 50.00	
SGO	1.45	307	P	43 38.50	1.1

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

& MAY 19, 1990 02h 11m 30.28s
61.731 N 149.588 W
DEPTH = 36.9km
SOUTHERN ALASKA (2)
<AGS-P>. ML 3.3 (PMR). Felt (II) at Palmer.

PWA	0.16	240	iPc	11 37.20	0.3
PLRM	0.26	122	eP	11 37.35	-0.5
			eS	11 43.53	
PMR	0.26	122	iPc	11 37.40	-0.4
GHO	0.32	82	iP	11 38.10	-0.5
			eS	11 44.86	
PMS	0.49	178	iPd	11 40.40	-0.4
SML	0.60	82	iP	11 41.29	-1.1
			eS	11 50.20	
SUA	0.61	245	eP	11 42.05	-0.6
			eS	11 51.52	
CUT	0.75	335	iP	11 43.65	-0.7
			iS	11 53.64	
SKT	0.95	286	iP	11 46.55	-0.8
			iS	12 00.16	
HUR	1.25	359	eP	11 51.28	-0.3
			eS	12 07.42	
SLKM	1.27	194	eP	11 51.08	-0.7
NCG	1.27	256	eP	11 51.92	-0.1
NKA	1.27	220	eP	11 53.58	1.7
SPU	1.31	246	iP	11 52.43	0.0
			eS	12 09.34	
CRP	1.32	250	eP	11 52.95	0.3
			eS	12 10.71	
NCA	1.34	77	iP	11 52.57	-0.3
GLI	1.48	124	iP	11 54.42	-0.4
			iS	12 15.12	
SEW	1.63	178	eP	11 56.15	-0.9
TOA	1.66	75	iPc	11 58.00	0.5
VLZ	1.68	110	iP	11 57.13	-0.6
			iS	12 19.48	
RND	1.72	11	iP	11 58.00	-0.4
			eS	12 20.53	
RDT	1.79	231	iP	11 59.20	-0.3
NNL	1.89	207	eP	12 01.41	0.7
KTH	1.93	342	eP	12 01.24	-0.1
			eS	12 25.48	
MCK	2.03	8	eP	12 02.85	0.1
RED	2.03	231	iP	12 02.62	-0.2
			eS	12 29.39	
SDG	2.06	65	eP	12 03.60	0.4
			eS	12 30.25	
PAX	2.29	55	eP	12 06.98	0.5
CNPM	2.36	201	eP	12 08.07	0.6
DDM	2.68	38	eP	12 12.28	0.2
WRH	2.83	13	eP	12 13.21	-1.0
HDA	2.94	23	eP	12 14.61	-1.1
PDB	2.98	231	eP	12 15.40	-0.9
CCB	3.04	15	eP	12 15.81	-1.2
DOT	3.19	51	eP	12 21.03	1.7
TTA	3.23	295	eP	12 18.70	-1.2
FBA	3.28	13	iPd	12 19.40	-1.1
TGL	3.41	104	eP	12 21.24	-1.2
GLM	3.42	16	eP	12 21.07	-1.4
CDD	3.46	217	eP	12 23.71	0.7
IMA	4.71	339	eP	12 39.40	-1.6
INK	9.44	39	eP	13 47.00	0.2

42 obs. associated

---

* MAY 19, 1990 02h 18m 55.70± 0.88s
25.517 N ±15.6km 91.063 E ± 7.5km
DEPTH = 33.0km (normal)
INDIA-BANGLADESH BORDER REGION (315)

SHL	0.74	86	iP	19 09.90	0.0
			iS	19 20.40	
GUN	5.21	298	P	20 14.00	0.2
PKI	5.46	293	P	20 17.20	0.0
	0.4s		19.00nm	5.0mb	
DMN	5.73	293	P	20 21.40	0.5
	0.4s		27.00nm	5.2mb	
GKN	6.25	295	P	20 27.60	-0.7
HYB	14.15	238	eP	22 16.00	0.0

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

& MAY 19, 1990 02h 29m 51.21s
60.067 N 151.987 W
DEPTH = 72.1km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

NNL	0.35	94	iP	30 04.15	1.0
RED	0.53	312	iP	30 04.05	-0.7
			eS	30 13.91	
RDT	0.55	338	iP	30 04.14	-0.8
CNPM	0.66	145	eP	30 04.49	-1.6
			eS	30 18.52	
NKA	0.77	28	iP	30 08.56	1.3
SLKM	0.98	63	eP	30 09.48	-0.4
SPU	1.12	358	eP	30 10.93	-0.7
			eS	30 26.17	
PDB	1.15	257	eP	30 11.22	-0.7
			eS	30 26.76	
CRP	1.21	356	eP	30 12.41	-0.5
			eS	30 29.15	
SEW	1.27	87	eP	30 13.05	-0.5
NCG	1.34	357	eP	30 14.03	-0.6
			eS	30 32.13	
SUA	1.53	23	iP	30 17.02	-0.1
PMS	1.68	44	iP	30 19.10	0.0

13 obs. associated

& MAY 19, 1990 03h 10m 44.58s
61.717 N 148.072 W
DEPTH = 34.3km
SOUTHERN ALASKA (2)
<AGS-P>.

SML	0.15	307	iP	10 50.48	-0.5

```
                    iS    10 55.77
GHO     0.41 278    iP    10 53.13   -0.8
                    eS    11 00.30
PLRM    0.52 257    iP    10 54.39   -1.0
                    eS    11 02.04
NCA     0.65  64    eP    10 56.61   -0.8
                    eS    11 06.23
PMS     0.86 237    iP    10 59.88   -0.4
                    eS    11 11.40
PWA     0.86 266    eP    10 59.37   -0.9
GLI     0.96 150    iP    11 01.12   -0.7
                    eS    11 14.69
TOA     0.98  66    eP    11 02.12    0.0
VZW     0.98 131    eP    11 01.05   -1.1
                    eS    11 14.48
VLZ     1.02 124    iP    11 01.24   -1.3
CUT     1.24 305    iP    11 05.41   -0.4
SUA     1.30 260    eP    11 06.31   -0.5
HUR     1.46 331    eP    11 08.76   -0.2
                    eS    11 27.73
HIN     1.53 149    eP    11 10.17    0.2
SLKM    1.60 222    eP    11 11.10    0.1
CVA     1.63 135    eP    11 11.91    0.6
SKT     1.66 281    iP    11 11.92    0.0
PAX     1.75  43    eP    11 13.16    0.0
SEW     1.75 203    eP    11 13.21    0.1
SGAM    1.85 130    eP    11 15.23    0.7
NCG     1.98 263    eP    11 16.73    0.3
SPU     1.99 256    eP    11 16.57    0.1
CRP     2.01 259    eP    11 17.61    0.7
RAGM    2.12 127    eP    11 20.20    1.7
KTH     2.26 326    eP    11 20.45   -0.1
RDT     2.39 243    eP    11 21.65   -0.7
TGL     2.71 109    eP    11 25.04   -1.8
GLM     3.30   5    eP    11 35.07   -0.1
      28 obs. associated
-----------------------------------------
*  MAY  19, 1990  04h 36m 06.26± 1.38s
   33.746 N ±13.3km   89.755 E ±16.3km
   DEPTH =  33.0km  (normal)
   4.1mb (  1 obs.)
 TIBET                                (306)

GUN     6.70 211 P      37 44.00   -1.3
      0.6s     15.00nm            5.0mb X
GKN     7.22 219 P      37 53.00    0.7
DMN     7.31 214 P      37 54.20    0.5
      0.6s     8.00nm             4.9mb X
CHTO   16.99 149 (P)    40 03.10    0.1
NB2    55.70 325 P      45 41.40   -0.1
      0.8s     1.50nm             4.1mb
     S.D. =  1.1  on   5 of   5 obs.
-----------------------------------------
&  MAY  19, 1990  05h 29m 21.13s
   61.612 N          149.804 W
   DEPTH =  50.1km
 SOUTHERN ALASKA                    (  2)
      <AGS-P>.

PWA     0.05 318    iP    29 28.47    1.3
PLRM    0.32  93    iP    29 29.77   -0.7
                    iS    29 37.51
PMS     0.39 162    iP    29 30.92   -0.3
                    iS    29 38.74
GHO     0.45  69    iP    29 31.19   -0.8
                    eS    29 40.04
SUA     0.47 252    iP    29 31.91   -0.4
                    iS    29 41.32
SML     0.73  74    iP    29 34.49   -0.9
                    eS    29 44.94
CUT     0.83 345    iP    29 36.23   -0.4
SKT     0.90 295    iP    29 36.85   -0.9
SLKM    1.13 191    eP    29 39.90   -1.0
NCG     1.15 261    iP    29 40.86   -0.4
SPU     1.17 249    iP    29 40.83   -0.6
                    eS    29 56.52
CRP     1.18 254    eP    29 41.48   -0.3
                    eS    29 57.02
NCA     1.47  74    eP    29 44.90   -0.7
GLI     1.50 118    eP    29 44.61   -1.5
                    iS    30 03.41
SEW     1.52 173    eP    29 46.12   -0.2
RDT     1.64 232    eP    29 46.81   -1.2
VZW     1.66 108    eP    29 47.21   -1.2
VLZ     1.74 105    eP    29 47.82   -1.6
TOA     1.79  72    eP    29 50.16   -0.1
RED     1.88 232    eP    29 50.39   -1.1

       20 obs. associated
-----------------------------------------
*  MAY  19, 1990  05h 29m 45.20± 1.11s
   34.176 N ±12.4km   26.786 E ± 9.8km
   DEPTH =  33.0km  (normal)
 CRETE                              (370)

VAM     2.46 301    eP    30 23.10   -0.7
KSL     3.00  49    eP    30 31.00   -0.5
APE     3.06 341    eP    30 33.50    1.1
ELL     3.62  44    ePn   30 40.30   -0.1
DSI     7.68 107    eP    31 37.00   -0.5
                    eS    33 00.00
MBH     8.16 120    eP    31 45.00    0.8
     S.D. =  1.0  on   6 of   6 obs.
-----------------------------------------
*  MAY  19, 1990  05h 30m 48.43± 1.41s
   36.979 N ±14.5km   21.570 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN GREECE                    (368)
      ML 3.3 (ATH).

ITM     0.35  55    ePg   30 55.00   -0.6
VLI     1.13 103    ePb   31 10.00    0.5
VLS     1.43 327    ePb   31 14.00   -0.4
ATH     1.97  59    ePg   31 27.00    4.8X
NEO     2.66  29    ePn   31 32.10   -0.1
KEK     3.06 334    ePb   31 40.50    2.7
VAY     4.41  10    ePn   31 56.40   -0.4
SKO     4.99 359    ePn   32 05.00   -0.1
ORI     5.06 309    P     32 06.00   -0.1
MGR     5.67 306    P     32 13.50   -1.3
                    eSn   33 16.50
SGO     6.06 308    P     32 20.00   -0.2
                    eSn   33 25.00
     S.D. =  1.2  on  10 of  11 obs.
-----------------------------------------
?  MAY  19, 1990  06h 04m 05.87± 2.80s
   37.834 N ±24.1km   20.726 E ±31.9km
   DEPTH =   5.0km  (geophysicist)
 IONIAN SEA                         (399)
      ML 3.4 (ATH).

VLS     0.36 343    ePg   04 13.00   -0.1
ITM     1.16 124    ePb   04 27.00   -1.0
KEK     2.01 339    ePg   04 46.00    5.2X
VLI     2.09 122    Pn    04 42.90    1.0
ATH     2.37  86    ePn   04 46.10    0.1
OHR     3.27   1    e(Pn) 05 03.00    4.1X
     S.D. =  1.4  on   4 of   6 obs.
-----------------------------------------
   MAY  19, 1990  06h 46m 35.81± 0.24s
   40.213 N ± 4.6km  143.253 E ± 4.0km
   DEPTH =  26.5km  (  7 depth phases)
   5.4mb ( 70 obs.)  4.8Msz ( 11 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.:  9S, 15C
      Centroid Location:
      Origin Time          06:46:38.6 0.7
      Lat 39.99N 0.10 Lon 142.96E 0.14
      Dep  15.0 FIX Half-duration  1.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.28 0.04  Mtt= 0.06 0.04
        Mff=-0.35 0.06  Mrt= 0.01 0.10
        Mrf= 1.11 0.12  Mtf=-0.07 0.05
       Principal Axes:
        T  Val=  1.12  Plg=53  Azm=267
        N         0.06       3       1
        P        -1.19      37      94
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=204 Dip= 9 Slip= 113
       NP2:          1      82      87

OFUJ    1.67 228    iP+   47 04.90    1.3
                    eS    47 26.70
HOOJ    2.17   1    P     47 10.70   -0.1
                    S     47 36.50
AOMJ    2.23 280    P     47 14.00    2.3
SAP     3.19 334    eP    47 25.00   -0.3
                    eS    48 10.00
YAMJ    3.22 232    P     47 26.80    0.9
MAT     5.40 229    iPc   47 57.80    1.1
      1.0s   565.00nm           6.1mb
                    eS    49 02.00
SHK    10.14 239    eP    49 04.50    1.7

MDJ    11.01 298 Pc     49 15.10    0.4
     Z  25s     4.12um
     N  14s     4.15um
     E  16s     7.94um
CN2    13.72 291 Pc     49 50.00   -0.8
      1.0s   100.00nm           5.6mb
     Z  17s     5.00um           5.7MszX
     N  15s     3.00um
     E  15s     1.70um
                pP    49 59.00
                eS    52 16.00
SNY    14.94 283 Pc     50 06.00   -0.9
      1.0s    30.00nm           4.6mb
     Z  17s     6.20um           5.3Msz
     N  13s     2.10um
     E  15s     4.10um
                sP    50 17.40
                PP    50 19.00
DL2    16.73 272 P      50 28.00   -1.8
      3.0s  1100.00nm           5.5mb
     Z  20s     1.50um           3.8Msz
     N  14s     1.80um
                eS    53 35.50
SSE    20.07 250 P      51 06.50   -3.3X
      1.2s    50.00nm           4.7mb
     Z  16s     1.80um           4.5MszX
     N  13s     1.00um
     E  13s     0.80um
                pP    51 13.00   25km
                sS    55 06.00
                eSS   55 21.00
BJI    20.68 278 eP     51 12.50   -3.7X
      4.0s   400.00nm           5.2mb X
     Z  16s     3.50um           4.8MszX
     N  14s     1.29um
TIA    20.89 267 P      51 15.20   -3.2X
     Z  15s     4.20um           4.9MszX
     E  14s     3.20um
                eS    55 02.00
NJ2    21.28 255 Pc     51 19.50   -2.8
      1.2s   100.00nm           5.1mb
     Z  18s     1.40um           4.4Msz
     N  13s     1.40um
     E  15s     1.80um
HHC    24.03 282 P      51 48.00   -1.5
     Z  16s     6.00um           5.2MszX
     N  13s     0.90um
     E  17s     3.50um
TIY    24.04 274 eP     51 46.00   -3.6X
     Z  20s     2.20um           4.6Msz
     N  17s     1.80um
     E  16s     1.40um
                pP    51 53.00   25km
                sP    52 03.00
BTO    25.23 282 P      52 00.00   -1.1
     N  15s     1.70um
     E  16s     3.80um
                PP    52 39.00
                S     56 26.50
WHN    25.37 257 Pc     52 02.00   -0.3
      1.0s   100.00nm           5.4mb
     Z  16s     3.00um           4.9MszX
     N  13s     1.00um
     E  15s     4.00um
                pP    52 10.00   28km
                eS    56 24.00
QZH    25.65 241 eP     52 08.80    3.9X
     Z  16s     1.80um           4.7MszX
     E  16s     1.80um
GUMO   26.56 176 eP     52 09.00   -4.4X
     Z  21s     0.64um           4.1Msz
                eS    56 51.00
XAN    27.94 268 P      52 23.50   -2.5
     N  14s     1.70um
     E  13s     1.20um
GZH    30.46 245 P      52 48.80    0.3
     Z  15s     2.10um           4.9MszX
     N  13s     1.80um
     E  14s     2.20um
                S     57 52.00
LZH    31.09 275 eP     52 53.50   -0.7
      2.0s    70.00nm           5.1mb
     Z  18s     1.90um           4.8Msz
     N  15s     0.90um
     E  14s     1.10um
                pP    53 02.50   31km
                sP    53 06.50
```

19d 06h

			PP	53 53.50			CMB		70.88	56 eP	57 52.00	-0.5		KKB	81.94	319 iPc	58 55.00	0.6
			eS	58 00.00			LRM		70.89	46 eP	57 52.10	-0.5		BHG	81.99	329 iPc	58 55.30	0.8
GTA	33.13	283 iPc	53 11.50	-0.5			KVN		71.71	54 P	57 56.70	-0.9			1.3s	73.00nm		5.5mb
	1.0s	100.00nm		5.7mb			HFS		71.78	336 eP	57 55.70	-1.7		ELL	81.99	312 eP	58 55.00	0.1
	Z 18s	5.70um		5.3Msz					1.2s	66.00nm		5.6mb		ENN	82.00	334 eP	58 54.00	-0.5
	E 16s	3.00um						Z	18s	0.61um		4.9Msz			1.0s	31.00nm		5.3mb
		S	58 30.00							LR	28 37.00			MEM	82.10	334 P	58 53.00	-2.0
CD2	33.21	266 P	53 10.80	-1.9			NB2		71.81	338 P	57 56.80	-0.8		FUR	82.25	330 eP	58 56.50	0.6
	Z 15s	1.80um		4.9MszX					1.1s	40.80nm		5.4mb			1.0s	37.00nm		5.4mb
	N 14s	2.80um					TNP		72.85	55 P	58 04.20	-0.2		DSI	82.27	305 eP	58 57.00	0.8
GYA	33.26	257 iPc	53 12.00	-1.2					1.2s	14.92nm		4.9mb		VAY	82.61	319 iP	58 58.80	1.0
	1.2s	200.00nm		5.9mb			FRB		73.35	14 eP	58 06.00	-0.5		SKO	82.68	320 iPc	58 59.00	0.8
	Z 18s	1.80um		4.8Msz			AKU		73.44	352 eP	58 08.70	1.7			1.2s	66.00nm		5.6mb
	N 15s	2.60um							1.3s	38.46nm		5.3mb		SNF	82.75	335 iP	58 58.28	-0.1
	E 15s	2.10um					ISA		73.53	57 eP	58 02.00	-6.2X		VBY	82.78	326 e(P)	58 59.30	0.6
		S	58 30.60				CLC		74.00	57 eP	58 10.00	-0.9		GWF	82.93	332 P	58 59.56	0.1
QIZ	35.59	244 P	53 35.10	1.9			BW06		74.42	47 P	58 12.00	-1.5		FVI	82.94	328 P	59 01.00	1.6
	N 17s	2.40um							1.4s	21.20nm		5.0mb		CEY	82.95	327 e(P)	58 59.10	-0.5
KMI	36.94	258 Pc	53 44.00	-0.7			SBB		74.55	58 eP	58 19.00	4.9X		DOU	83.01	335 P	59 00.40	0.6
	1.5s	240.00nm		5.8mb			GSC		74.82	57 eP	58 21.00	5.3X		SQTA	83.05	329 eP	59 00.00	-0.2
	Z 16s	5.10um		5.4MszX			RVR		75.27	58 eP	58 13.00	-5.2X			1.2s	38.60nm		5.4mb
	N 15s	2.40um					KVT		75.54	312 iP	58 20.20	0.5		TRI	83.25	327 P	59 01.00	0.0
	E 15s	1.40um					PLM		76.00	58 eP	58 28.00	5.4X		OGA	83.41	329 eP	59 02.50	0.3
		pP	53 52.00	27km			TPC		76.06	57 eP	58 28.00	5.3X			1.3s	51.00nm		5.5mb
WMO	40.78	294 iPc	54 16.40	0.1			RSSD		76.51	43 P	58 24.30	-1.1		WLS	83.50	332 P	59 02.42	0.0
	Z 20s	1.80um		4.9Msz			RSON		76.54	33 P	58 29.00	3.9X		CDF	83.53	332 P	59 02.62	0.0
	E 13s	1.00um							1.3s	27.03nm		5.1mb		SLE	83.63	331 ePc	59 02.80	-0.2
		pP	54 25.00	29km			VRI		77.23	320 ePd	58 30.00	1.0		OHR	83.64	320 iP	59 03.50	0.3
		eS	00 25.00				KRA		77.26	326 eP	58 29.20	0.2			1.1s	65.00nm		5.7mb
		sS	00 32.00						1.2s	100.00nm		5.7mb				i	59 22.40	69kmX
KKM	41.79	223 ePc	54 27.00	2.2				Z	18s	1.70um		5.4Msz		FEL	83.72	332 P	59 03.32	-0.3
SVW	42.12	39 eP	54 28.00	1.0				E	18s	2.30um				ECH	83.74	332 P	59 03.47	-0.1
LOE	42.39	250 eP	54 49.20	19.5X						e	58 40.80	38kmX		SAX	83.74	330 ePc	59 03.90	0.0
IMA	43.23	32 eP	54 37.50	1.4			PV09		77.48	50 P	58 35.50	4.6X		MBH	83.81	304 iPc	59 04.50	0.3
	1.2s	11.70nm		4.5mb			GLA		77.51	57 eP	58 37.00	6.2X		CTI	83.84	328 P	59 03.00	-1.2
LSA	43.43	273 P	54 38.50	-0.1			SPC		77.78	326 eP	58 32.80	0.6		OSS	83.91	330 ePc	59 04.40	-0.2
CHG	43.51	254 ePc	54 39.10	0.3			MLR		77.88	320 eP	58 33.00	0.3		ZLA	83.91	331 ePc	59 04.30	-0.2
	1.0s	25.00nm		4.9mb			KSP		78.15	329 iPc	58 34.50	0.6		MOF	84.06	332 P	59 05.10	-0.2
BDT	44.47	252 eP	54 44.70	-1.8					1.1s	36.00nm		5.3mb		VITF	84.15	333 P	59 05.61	0.0
NST	44.68	249 eP	54 49.00	0.8						i	58 53.20	69kmX		BSF	84.19	332 iPc	59 05.80	-0.2
PMS	45.05	39 eP	54 49.90	-0.9			BBTK		78.23	313 eP	58 35.00	0.2			1.1s	9.75nm		4.9mb
PMR	45.23	39 P	54 49.80	-2.4			GLD		78.87	47 P	58 43.50	5.1X		LLS	84.19	330 ePc	59 06.20	0.1
FBA	45.66	34 P	54 56.70	1.2					1.3s	52.87nm		5.4mb		HAU	84.20	333 iPc	59 06.00	0.1
NNT	47.05	247 eP	55 07.70	0.7			BRG		79.04	330 iPc	58 38.70	-0.1			1.1s	14.65nm		5.1mb
GUN	48.33	274 P	55 17.00	-0.5					1.1s	25.00nm		5.2mb		BBS	84.25	332 P	59 06.42	0.3
PKI	48.86	274 P	55 21.00	-0.5						i	58 55.40	60kmX		LOMF	84.59	332 P	59 08.10	0.2
DMN	49.07	274 P	55 22.80	-0.3			CLL		79.04	331 iPc	58 38.30	-0.5		SAL	84.65	329 P	59 05.00	-3.1X
SNG	50.30	241 eP	55 32.60	0.4					1.1s	41.00nm		5.4mb		MDI	84.83	329 P	59 06.50	-2.5
KSH	50.50	292 P	55 34.00	0.3						e	58 56.00	64kmX		TMA	84.88	330 ePc	59 09.20	-0.3
	Z 16s	2.90um		5.4MszX			PRU		79.51	329 Pc	58 41.60	0.2		MMK	85.27	331 ePc	59 11.70	0.1
	N 15s	2.70um							1.2s	34.70nm		5.3mb		ARV	85.38	326 P	59 12.00	0.1
INK	50.91	28 eP	55 36.00	-0.2				Z	15s	1.20um		5.4MszX		DIX	85.45	331 ePc	59 12.60	0.1
IPM	51.96	238 ePd	55 45.40	0.6				N	15s	1.00um				SFI	85.49	327 P	59 13.50	1.1
	1.2s	63.40nm		5.4mb				E	14s	0.50um				BRT	85.55	322 P	59 13.00	0.2
KGM	52.46	234 eP	55 49.50	0.9						e	58 48.10	21km		PGD	85.59	327 P	59 18.80	5.7X
MBC	53.07	17 eP	55 52.00	-0.4			BUD		79.61	325 eP	58 42.80	0.9		LCI	85.62	321 P	59 13.00	-0.1
	1.3s	22.00nm		4.9mb			SRO		79.66	326 iP	58 43.50	1.3		EMS	85.64	331 ePc	59 13.50	0.2
MTN	53.97	195 eP	55 58.00	-1.6			JMB		79.73	318 iPc	58 44.00	1.3		CRE	85.69	327 P	59 14.00	0.5
NDI	54.52	280 iPc	56 02.60	-1.1			ZST		79.88	327 iP	58 40.20	-3.2X		LOR	85.70	334 iPc	59 13.80	0.4
	0.7s	30.82nm		5.4mb			WIT		80.01	335 eP	58 45.50	1.5			1.1s	44.00nm		5.6mb
HYB	59.75	268 iPc	56 40.10	-0.8			MOX		80.10	331 eP	58 44.00	-0.5		BOB	85.77	329 P	59 19.00	5.1X
	1.0s	50.00nm		5.6mb					1.2s	32.00nm		5.2mb		FLN	85.78	337 iPc	59 13.90	0.2
CTA	60.05	177 e(P)	56 48.00	5.3X				Z	17s	0.90um		5.2MszX			1.1s	29.30nm		5.4mb
WB5	60.35	190 eP	56 42.50	-2.3			ALT		80.26	313 eP	58 45.00	-0.7		LDF	85.82	337 iPc	59 14.20	0.2
QIS	60.55	184 eP	56 45.20	-0.9			SOP		80.51	327 iPc	58 49.00	2.2			1.1s	24.40nm		5.3mb
KEV	60.99	339 eP	56 47.00	-1.6			KHC		80.57	329 iPc	58 47.50	0.4		ASS	85.85	326 P	59 15.00	0.7
	1.0s	34.00nm		5.4mb					1.0s	27.00nm		5.2mb		BDI	85.89	328 P	59 33.00	18.5X
QUE	61.40	287 eP	56 51.40	-0.8						e	59 06.90	71kmX		LBF	85.91	333 iPc	59 14.60	0.1
SOD	62.60	337 iP	56 58.70	-0.8			EKA		80.60	341 Pd	58 47.70	0.6			1.0s	36.00nm		5.6mb
POO	62.69	272 iPc	56 58.50	-2.3					1.2s	15.60nm		4.9mb		SSF	86.00	334 iPc	59 15.10	0.2
GBA	62.91	265 Pd	57 01.40	-0.8			WTS		80.66	334 eP	58 47.50	0.1			1.0s	28.00nm		5.4mb
	0.7s	18.00nm		5.3mb					1.0s	31.00nm		5.3mb		LSD	86.07	331 P	59 16.40	0.8
MAIO	63.49	296 iPc	57 05.50	-0.5			LFK		80.89	309 iP	58 49.70	0.6		LPG	86.19	331 iPc	59 16.80	0.6
		eS	05 44.00				PGB		80.90	319 iPc	58 50.00	1.0			1.1s	41.50nm		5.6mb
PNT	64.91	46 eP	57 14.00	-0.9			HRI		80.91	306 ePc	58 49.00	-0.3		DUI	86.20	324 P	59 15.50	-0.5
KOD	65.00	262 eP	57 16.00	-0.2			KDZ		80.92	318 iPc	58 50.00	0.9		SMF	86.25	333 iPc	59 16.30	0.2
SUF	65.80	333 iP	57 19.60	-0.7			GRF		81.02	331 iPc	58 50.20	0.7			1.1s	53.70nm		5.7mb
	0.5s	10.20nm		5.2mb					1.2s	77.00nm		5.6mb		AVF	86.29	334 iPc	59 16.60	0.3
NEW	66.87	46 P	57 25.50	-2.0				Z	18s	0.60um		5.0Msz			1.1s	87.90nm		5.9mb
	1.5s	40.09nm		5.3mb			KHL		81.10	313 eP	58 50.00	-0.2		RSP	86.29	330 P	59 17.80	1.3
NUR	67.82	332 iP	57 32.40	-0.8			RZN		81.25	318 iPc	58 51.00	0.0		PCP	86.31	329 P	59 16.00	-0.5
	0.9s	33.80nm		5.5mb			VTS		81.34	320 iP	58 52.00	0.5		AZI	86.39	325 P	59 17.00	0.2
WDC	68.04	55 eP	57 34.50	-0.5			ANMO		81.46	51 P	58 54.50	2.3		MNS	86.39	326 P	59 11.80	-5.2X
SES	68.81	41 eP	57 39.00	-0.6			ALQ		81.46	51 eP	58 53.00	0.7		SDI	86.45	325 P	59 17.00	-0.2
ORV	69.28	55 eP	57 41.60	-1.0					1.3s	19.23nm		5.0mb		ORI	86.55	322 P	59 18.00	0.3
FFC	70.26	34 eP	57 48.00	-0.3			EZN		81.77	316 eP	58 54.00	0.5		BNI	86.60	331 P	59 18.50	0.5
	0.7s	5.00nm		4.7mb			MMB		81.83	319 ePc	58 55.00	1.2		LPF	86.60	337 iPc	59 18.50	0.7

1.1s 53.70nm 5.7mb
BGF 86.66 334 iPc 59 18.50 0.3
1.1s 19.55nm 5.2mb
RRL 86.67 331 P 59 16.90 -1.6
SGO 86.69 323 P 59 17.50 -0.8
FIN 86.72 329 P 59 16.91 -1.6
ROB 86.78 330 P 59 17.52 -1.3
MGR 86.91 323 P 59 18.00 -1.5
TDS 86.92 322 P 59 19.50 0.0
MAF 87.05 334 iPc 59 21.00 0.9
1.1s 63.50nm 5.8mb
TCF 87.11 334 iPc 59 21.00 0.6
1.0s 26.00nm 5.4mb
SBF 87.32 330 eP 59 22.40 1.0
LSF 87.37 335 iPc 59 22.20 0.6
1.1s 70.80nm 5.8mb
MFF 87.60 336 iPc 59 23.50 0.8
1.1s 39.05nm 5.6mb
LMR 88.12 330 eP 59 24.60 -0.6
1.4s 21.80nm 5.3mb
RJF 88.21 334 iPc 59 26.40 0.8
1.0s 28.00nm 5.5mb
CAF 88.36 334 iPc 59 27.50 1.1
1.3s 54.15nm 5.7mb
LFF 88.79 334 iPc 59 29.50 1.1
1.1s 53.70nm 5.8mb
LPO 88.87 334 iPc 59 29.70 0.9
1.1s 29.30nm 5.5mb
EPF 90.61 334 iPc 59 37.20 0.1
0.8s 4.05nm 4.8mb
SLR 124.70 264 ePKP 05 52.00 17.1X
BLF 128.03 262 ePKP 05 47.50 6.3X
ZOBO 143.80 58 ePKP 06 14.00 2.7
Z 22s 0.11um 4.6Msz
i 06 21.00
LR 55 10.00
LPB 144.01 58 PKP 06 19.00 7.6X
SIV 147.91 48 PKP 06 19.40 2.0
S.D. = 1.0 on 191 of 218 obs.

% MAY 19, 1990 07h 05m 49.58± 0.74s
40.198 N ± 6.2km 29.290 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.37 10 iPg 05 57.90 0.6
GBZT 0.60 11 ePn 05 59.20 -2.5
HRT 0.69 25 ePg 06 03.40 0.2
KCT 0.72 274 iPg 06 02.90 -0.8
GPA 0.79 83 ePg 06 06.00 1.1
eSg 06 19.00
ISK 0.88 349 ePn 06 07.00 0.5
EDC 1.10 278 iPn 06 10.60 0.3
CTT 1.15 326 iPn 06 11.90 0.8
ALT 1.31 151 iPn 06 12.10 -1.7
KGT 1.54 280 iPn 06 20.40 3.3X
KHL 1.88 174 ePn 06 23.20 1.1
S.D. = 1.4 on 10 of 11 obs.

? MAY 19, 1990 08h 27m 53.96± 7.33s
43.194 N ±39.7km 2.531 E ±57.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG).

EPF 1.61 265 Pg 28 22.60 0.0
Sg 28 42.00
CAF 1.76 349 Pg 28 24.40 -0.4
Sg 28 45.00
LPO 1.78 327 Pg 28 24.20 -0.7
Sg 28 45.40
LFF 2.17 324 Pg 28 31.00 0.4
Sg 28 56.80
RJF 2.23 341 Pg 28 32.20 0.7
Sg 28 59.00
MAF 3.03 0 Pg 28 48.60 5.8X
Sg 29 26.20
TCF 3.10 356 Pg 28 49.50 5.7X
Sg 29 26.60
LSF 3.14 347 Pg 28 49.60 5.3X
Sg 29 26.80
S.D. = 0.8 on 5 of 8 obs.

MAY 19, 1990 09h 28m 02.88± 0.29s
1.356 N ± 5.1km 124.137 E ± 6.9km
DEPTH = 31.0km (3 depth phases)
5.0mb (12 obs.) 4.3Msz (3 obs.)

MINAHASSA PENINSULA (265)

DAV 5.87 14 eP 29 30.00 -0.1
1.0s 800.00nm 6.3mb X
TSM 6.69 295 eP 29 39.50 -2.1
MKS 8.02 215 iPc 30 00.00 -0.3
iS 31 30.40
KKM 9.17 301 ePd 30 17.00 0.7
BAG 15.36 347 eP 31 40.00 0.6
MTN 15.72 154 eP 31 42.60 -1.3
i 31 47.50
KNA 17.60 165 eP 32 06.50 -1.1
0.6s 46.00nm 4.8mb
KGM 20.82 272 eP 32 50.50 6.0X
QIZ 22.47 322 eP 33 00.00 -1.0
E 13s 1.60um
IPM 23.30 278 ePc 33 10.10 0.9
1.2s 45.40nm 4.9mb
WB5 23.37 155 eP 33 08.20 -1.6
WRA 23.41 155 Pd 33 09.60 -0.7
0.8s 85.50nm 5.3mb
GUMO 23.84 58 eP 33 13.80 -0.7
Z 18s 0.40um 3.9Msz
eS 37 39.00
GZH 24.01 335 P 33 17.20 1.2
eS 37 24.00
SNG 24.15 285 eP 33 19.00 1.6
NANU 25.21 199 eP 33 24.20 -3.4X
0.5s 17.00nm 4.9mb
PMG 25.30 115 eP 33 29.50 1.0
QIS 26.53 146 iPc 33 39.20 -0.7
1.0s 119.00nm 5.5mb
NNT 26.63 296 eP 33 37.00 -3.9X
LOE 27.20 307 eP 33 53.20 7.2X
BDT 29.33 304 eP 34 05.00 -0.3
GYA 30.09 328 eP 34 13.00 0.9
N 15s 1.00um
E 15s 0.80um
pP 34 26.40 53kmX
CHG 30.18 307 ePc 34 15.90 3.0X
CHTO 30.18 307 eP 34 15.80 2.9X
pP 34 25.70 35km
CTA 30.40 136 iPc 34 14.80 0.0
1.1s 16.46nm 4.8mb
e 34 27.00 47kmX
iS 39 32.00
WHN 30.48 343 eP 34 15.00 -0.3
eS 39 12.00
NJ2 30.94 351 eP 34 16.80 -2.5
KMI 31.38 321 Pc 34 25.00 1.3
4.0s 400.00nm 5.6mb X
CD2 35.17 329 P 34 56.00 -0.2
S 40 28.20
XAN 35.50 338 P 34 58.50 -0.4
S 40 34.00
MAT 37.36 19 (P) 35 14.00 -0.5
eS 41 00.00
TIY 37.75 345 P 35 18.00 0.1
Z 20s 1.00um 4.6Msz
N 22s 1.30um
sS 41 18.00
CMS 38.61 150 eP 35 25.00 -0.1
ADE 38.63 161 iPc 35 25.20 -0.1
1.1s 118.99nm 5.6mb
BJI 39.18 350 eP 35 30.50 0.8
1.5s 18.00nm 4.6mb
Z 28s 0.41um 4.1MszX
N 18s 1.68um
E 18s 0.97um
eS 41 26.00
LZH 39.35 334 P 35 33.00 1.6
2.0s 70.00nm 5.1mb
Z 20s 0.50um 4.3Msz
pP 35 42.50 32km
eS 41 32.00
SS 44 20.00
BRS 39.70 138 iPc 35 34.20 -0.1
SNY 40.29 359 eP 35 36.80 -2.1
Z 14s 0.60um 4.6MszX
N 14s 0.50um
LSA 42.17 315 eP 35 52.80 -2.3
BWA 42.26 150 eP 35 57.30 2.1
CAN 43.26 150 eP 36 04.20 0.8
CNB 43.44 150 eP 36 06.00 1.1
TOO 43.48 155 eP 36 06.00 0.8
GTA 43.89 333 iPd 36 09.40 0.8
GUN 45.12 309 P 36 17.40 -1.5

0.8s 47.00nm 5.4mb
PKI 45.32 309 P 36 21.60 1.1
0.9s 37.00nm 5.3mb
HYB 47.55 292 eP 36 37.00 -0.9
GBA 47.77 287 Pc 36 35.30 -4.2X
0.9s 8.00nm 4.7mb
POO 52.16 292 eP 37 08.50 -4.7X
NDI 52.32 306 eP 37 15.00 0.7
WMQ 53.25 328 P 37 21.00 0.0
Z 24s 0.40um 4.4MszX
pP 37 29.00 26km
MAIO 68.92 309 eP 39 14.00 6.7X
MAW 80.65 200 iP 40 12.90 -1.0
BUL 95.65 250 iPd 41 16.40 -11.1X
0.9s 16.81nm
ALQ 120.53 47 ePKP 46 53.70 -0.2
1.0s 2.50nm
SAN 145.18 158 ePKP 47 39.00 -0.7
PEL 145.45 158 iPKPd 47 40.00 -0.2
0.7s 17.12nm
LPB 160.70 142 ePKP 48 05.00 2.8
ZOBO 160.88 141 PKP 48 04.00 1.5
Z 20s 0.09um
LR 10 47.40
S.D. = 1.2 on 49 of 59 obs.

---

* MAY 19, 1990 12h 57m 31.60± 0.86s
36.169 N ±12.1km 99.913 E ± 9.9km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
QINGHAI PROVINCE, CHINA (325)
ML 4.3 (BJI).

LZH 3.18 90 Pn 58 22.00 1.3
Pg 58 28.50
Sg 59 06.00
GTA 3.24 359 Pn 58 26.00 4.6X
Pg 58 31.80
Sg 59 13.60
XAN 7.68 103 Pn 59 20.60 -3.4X
Pg 59 49.50
Sn 00 47.50
Sg 01 28.50
BTO 9.08 58 eP 59 48.00 4.5X
TIY 10.14 78 eP 59 55.90 -2.2
Z 10s 0.60um
N 10s 0.20um
HHC 10.25 59 Pd 00 00.40 0.8
N 10s 0.30um
E 20s 1.30um
WMQ 12.08 313 eP 00 24.00 -0.4
CHG 17.31 183 eP 01 36.90 4.5X
CHTO 17.31 183 eP 01 32.30 -0.1
NB2 58.52 325 P 07 27.40 0.6
0.5s 0.70nm 4.0mb
WB5 64.58 144 eP 08 07.80 -0.1
S.D. = 1.4 on 7 of 11 obs.

MAY 19, 1990 13h 27m 41.08± 0.34s
13.081 N ± 3.0km 143.841 E ± 3.2km
DEPTH = 140.7 ± 3.0 km
5.4mb (37 obs.)
SOUTH OF MARIANA ISLANDS (210)
Felt (III) on Guom.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Locotion:
Origin Time 13:27:46.2 0.5
Lot 12.52N 0.05 Lon 143.27E 0.07
Dep 124.1 3.3 Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 0.92 0.11 Mtt=-1.42 0.12
Mff= 0.50 0.15 Mrt= 1.47 0.10
Mrf= 0.74 0.11 Mtf=-0.27 0.15
Principal Axes:
T Val= 1.87 Plg=58 Azm=312
N 0.38 15 69
P -2.25 27 167
Best Double Couple:Mo=2.1*10**17
NP1:Strike=290 Dip=23 Slip= 133
NP2: 64 74 74

GUMO 1.12 63 iPc 28 05.80 -0.5
PJG 1.12 63 iPc 28 05.80 -0.5
GUA 1.14 66 iPc 28 05.80 -0.7
eS 28 21.50

19d 13h

DAV		18.94	253	eP	31	44.00	-9.8X					ePP	35	56.00						S	46	36.00							
RAB		19.05	154	iPd-	31	55.50	0.5	TIY		37.20	317	iPc	34	41.00	0.6	KOD		64.91	275	eP	38	08.80	0.4
		1.5s	2222.22nm			6.3mb				4.0s	1100.00nm			6.0mb X		IMA		67.11	23	P	38	22.70	1.4
				eS	35	36.00			Z	18s	1.00um			4.7Msz				0.7s	2.98nm			4.2mb X	
KAGJ		21.61	329	iP+	32	22.10	1.3					sP	35	25.00		POO		67.21	285	iPc	38	20.00	-2.6
QCP		22.16	277	eP	32	31.00	4.8X	GYA		37.29	297	iPc	34	42.80	1.5	PMR		67.71	28	P	38	23.20	-1.7
WKYJ		22.34	342	eP	32	28.80	0.8			3.0s	1100.00nm			6.1mb				0.9s	26.67nm			5.1mb	
PMG		22.58	171	eP	32	30.00	-0.4					sP	35	27.00		FBA		69.11	25	P	38	33.50	0.0
TKSJ		22.64	338	eP	32	31.40	0.6					PP	36	12.00				0.6s	13.55nm			5.0mb	
BAG		22.73	281	ePc+	32	32.00	-0.1					PcP	36	58.60		QUE		72.31	298	eP	38	53.30	-0.4
				eS	36	42.00						S	40	20.00				1.0s	445.00nm			6.2mb	
KUMJ		22.74	331	iP+	32	33.20	1.4					ScP	40	32.40		INK		75.22	22	eP	39	08.00	-1.5
IIDJ		22.94	348	eP	32	32.90	-0.8					sS	41	12.00				0.7s	20.00nm			5.0mb	
KAKJ		23.26	352	eP	32	36.20	-0.6	XAN		37.93	309	Pc	34	46.50	-0.1	MAIO		77.87	305	iPc+	39	26.00	1.0
CHJJ		23.28	350	eP	32	36.40	-0.7		N	11s	0.50um							1.0s	17.50nm			4.8mb	
TSRJ		23.46	344	eP	32	38.60	-0.1					sP	35	31.00						eS	49	12.00	
SHK		23.64	337	eP	32	40.00	-0.5					S	40	28.00		MBC		79.00	14	eP	39	29.00	-1.3
MAT		23.90	349	iPc+	32	41.70	-1.4	HHC		39.51	320	Pd	35	00.40	0.7			0.5s	66.00nm			5.6mb	
		1.0s	435.00nm			5.9mb			N	10s	0.34um					PGC		82.08	42	eP	39	47.00	0.0
	Z	20s	1.42um			4.4Msz		RMQ		39.62	173	eP	35	06.00	5.5X	MCW		82.48	42	P	39	49.30	0.2
				eS	37	00.00		BTO		40.35	319	iPc	35	07.50	1.0	BMW		82.64	44	P	39	49.50	-0.6
YONJ		23.93	339	eP	32	43.00	-0.3		N	11s	0.30um					GMW		82.73	43	P	39	50.40	0.0
SHNJ		23.93	333	iP+	32	43.00	-0.3		E	11s	0.20um					FHC		83.20	50	eP	39	54.00	1.0
MTMJ		24.02	348	eP	32	43.10	-1.2					sP	35	51.00		SHW		83.37	44	P	39	55.00	1.1
NIIJ		24.44	351	eP	32	47.00	-1.1					eS	41	10.00		RMW		83.40	43	P	39	53.40	-0.5
YAMJ		25.22	353	P	32	55.00	-0.4	KMI		40.49	293	Pc	35	09.50	1.5	LON		83.54	44	P	39	54.40	-0.2
OFUJ		25.97	356	P	33	04.20	2.0			2.0s	140.00nm			5.3mb		WDC		84.33	50	iPc	39	59.10	0.5
QZH		26.57	300	Pd	33	07.00	-0.9		Z	12s	0.70um			4.7MszX		PNT		84.41	41	ePc	39	59.00	0.1
		0.5s	100.00nm			5.7mb						S	41	09.00		NWRM		84.51	52	P	40	00.00	0.5
				eS	37	36.00		LOE		40.80	282	iPc	35	11.00	0.7	LTCM		84.72	50	P	40	00.90	0.3
HNR		27.50	144	eP	33	16.00	-0.3					e	37	09.20		MIN		85.07	50	ePc	40	02.20	-0.4
SSE		27.51	314	P	33	14.50	-1.8	CD2		40.91	302	iPc	35	11.60	0.4	PCC		85.11	53	eP	40	02.50	-0.1
		1.1s	60.00nm			5.2mb						sP	35	53.30		BRK		85.12	52	ePc	40	03.00	0.4
	Z	20s	0.90um			4.3Msz						S	41	13.00		BKS		85.14	52	ePc	40	03.40	0.7
	E	12s	0.20um									sS	41	58.40				0.7s	169.00nm			6.0mb	
				sP	33	58.00		BRS		41.15	168	iP	35	13.30	0.2					e(S)	50	16.40	
KKM		28.11	258	ePd	33	22.50	0.6	DZM		41.37	147	iPd	35	15.50	0.5	ORV		85.33	51	ePc	40	03.60	-0.1
MTN		28.68	207	eP	33	26.00	-0.9	KGM		41.58	258	ePc	35	17.80	1.1	GCC		85.51	53	ePc	40	04.80	0.2
				e	35	23.00		LZH		42.56	310	iPc	35	26.20	1.4	DPW		85.67	42	P	40	05.30	0.0
				i	36	34.60				2.4s	360.00nm			5.6mb		MHC		85.72	53	eP	40	06.20	0.4
HOOJ		29.20	359	eP	33	32.80	1.5		Z	45s	1.10um			4.4MszX		ARN		85.80	53	P	40	06.60	0.5
MRRJ		29.34	356	eP	33	31.60	-0.9					PP	37	10.00		SAO		86.00	53	eP	40	07.20	0.1
NJ2		29.69	314	Pc	33	35.00	-0.8					eS	41	38.00		NEW		86.27	41	P	40	08.20	0.0
		5.0s	500.00nm			5.5mb X						sS	42	22.00				1.0s	270.00nm			6.1mb	
	Z	18s	0.50um			4.2Msz						SS	44	48.00		LLA		86.43	53	eP	40	09.80	0.6
KUSJ		29.92	1	eP	33	36.50	-1.1	SNG		42.91	266	eP	35	29.40	1.8	CMB		86.53	52	iPc	40	10.00	0.3
ASAJ		30.95	358	eP	33	47.40	0.7			1.0s	266.00nm			5.9mb		KEV		86.69	342	eP	40	12.00	2.3
WHN		32.28	307	iPc	33	59.50	1.0	NNT		42.97	274	iPc	35	29.00	0.9	PRI		86.76	54	ePc	40	11.80	0.9
		1.0s	100.00nm			5.6mb		IPM		43.09	263	ePc	35	31.00	1.9	PHAM		87.04	54	P	40	12.80	0.7
DL2		32.38	327	P	33	59.00	-0.2			1.1s	101.10nm			5.4mb		EDM		87.15	36	iP	40	11.80	-0.5
		3.0s	1100.00nm			6.1mb						e	37	18.50		PKEM		87.22	54	P	40	14.30	1.4
	Z	18s	0.70um			4.4Msz		BDT		43.40	281	eP	35	33.00	1.4	FRI		87.30	53	iPc	40	13.70	0.4
	N	11s	0.30um							1.0s	34.50nm			5.0mb		BCH		87.45	55	P	40	15.20	1.0
				sP	34	41.00		CHG		43.46	284	ePc	35	32.40	0.4	SYP		87.69	55	eP	40	16.00	0.6
CTA		33.05	176	iPd	34	04.80	-0.4			0.9s	13.45nm			4.6mb		SOD		88.00	340	iP	40	15.60	-0.5
		1.3s	157.69nm			5.6mb						e	37	18.30		KVN		88.01	50	P	40	17.60	0.7
				iS	39	15.00		CMS		44.35	178	eP	35	38.00	-0.9	ABL		88.22	55	P	40	18.70	0.6
QIZ		33.16	285	P	34	06.80	0.5	NANU		45.00	218	eP	35	44.70	0.5	ISA		88.60	54	eP	40	20.80	1.1
TIA		33.26	318	Pc	34	06.60	-0.4			0.3s	22.00nm			5.3mb		TNP		88.93	51	P	40	24.00	2.6
	E	14s	0.60um					GTA		46.77	312	iPc	35	58.80	0.6	PAS		89.23	55	eP	40	23.00	0.4
				sP	34	49.50				4.0s	600.00nm			5.6mb X						e	42	38.00	
SNY		33.64	332	iPc	34	09.00	-1.1		Z	20s	1.20um			4.9Msz		CLC		89.25	53	eP	40	23.00	0.3
		6.0s	700.00nm			5.6mb X		BWA		47.44	175	eP	36	04.10	0.8					e	42	48.00	
	Z	17s	0.50um			4.3MszX		CAN		48.38	174	eP	36	10.80	0.2	MWC		89.31	55	eP	40	23.00	-0.2
	N	19s	0.50um					CNB		48.41	174	eP	36	11.00	0.1					e	42	37.00	
				PP	35	30.00		COOL		48.85	206	eP	36	18.00	3.7X	SBB		89.37	55	eP	40	24.00	0.7
				S	39	28.00		MRWA		49.91	212	iPc	36	22.10	-0.3					e	42	40.00	
				PcS	40	34.00		BFD		50.00	181	eP	36	22.00	-0.9	SES		89.42	38	ePc	40	22.60	-0.6
MDJ		33.71	342	Pc	34	10.00	-0.7	TOO		50.40	178	ePd	36	26.70	0.7			0.6s	32.00nm			5.5mb	
		1.0s	50.00nm			5.2mb		BAL		50.68	211	eP	36	27.00	-1.1	RVR		89.91	55	eP	40	25.00	-0.8
				sP	34	55.00		KLB		50.98	209	eP	36	30.00	-0.4					e	42	30.00	
WB5		34.05	196	iPd	34	13.20	-0.7	LSA		51.34	298	Pc	36	33.60	-0.3	GSC		90.01	54	eP	40	26.00	-0.3
				ePcP	36	48.90		MUN		52.04	210	eP	36	38.00	-0.4					e	42	37.00	
				eS	39	28.10		GUN		55.80	295	P	37	06.00	-0.4	LRM		90.04	43	iPc	40	26.30	-0.1
				eScP	40	19.90		PKI		56.20	294	P	37	08.20	-1.1	PEC		90.11	55	P	40	26.90	0.2
WRA		34.12	196	Pd	34	13.70	-0.8	DMN		56.47	294	P	37	10.40	-0.7			1.2s	79.04nm			5.6mb	
		0.6s	69.20nm			5.6mb		WMQ		56.77	314	iPc	37	12.50	-0.3	PLM		90.50	56	eP	40	28.00	-0.7
CN2		34.45	336	Pc	34	16.00	-1.1			4.0s	700.00nm			6.0mb X						e	42	26.00	
		5.0s	500.00nm			5.5mb X			Z	18s	0.70um			4.8Msz		SUF		90.52	336	iP	40	27.10	-0.8
				PP	35	37.00						pP	37	44.50	135kmX			0.5s	8.80nm			5.1mb	
				PcP	36	48.00						sS	45	51.00		BAR		90.84	56	eP	40	30.00	-0.1
				eS	39	36.00		MSZ		61.50	161	P	37	44.20	-0.8					e	42	17.00	
BJI		36.23	323	iPc	34	32.00	-0.1	HYB		62.88	283	iPc	37	54.50	-0.3	BAR		90.84	56	eP	40	31.60	1.5
		4.0s	400.00nm			5.5mb X				0.7s	85.70nm			5.8mb		TPC		90.94	55	eP	40	30.00	-0.6
	Z	20s	0.90um			4.5Msz		GBA		64.42	279	Pc	38	03.30	-1.5					e	42	23.00	
	N	16s	0.60um							0.7s	19.40nm			5.1mb		GLA		92.22	55	eP	40	37.00	0.6
				esP	35	12.00		KSH		64.75	308	P	38	08.00	1.3					e	42	08.00	

NUR	92.28	334	iP	40	36.00	-0.1	GLA	19.90	324	P	42	08.60	0.0	NB2	85.34	27	P	50	12.10	0.2
	0.6s		9.10nm			5.1mb	PWLA	21.14	31	P	42	19.10	-2.2		0.9s		3.20nm			4.5mb
FFC	92.77	32	iPc	40	37.90	-0.6	PLM	21.29	322	P	42	24.40	1.3	ATEJ	85.35	53	iPd	50	14.00	1.4
	1.0s		42.00nm			5.6mb				pP	42	33.20	32km	ASMO	85.41	52	iPd	50	14.40	1.5
BW06	93.03	45	P	40	40.00	-0.2	PEC	21.85	322	P	42	28.40	-0.1	ACHM	85.43	53	iPd	50	14.60	1.7
RSSD	96.22	42	P	40	54.00	-0.8		1.8s		80.65nm			4.8mb	APHE	85.58	53	iPd	50	15.50	1.8
HFS	96.88	337	eP	40	54.90	-2.3	GLD	22.62	352	P	42	36.70	0.3	LFF	86.11	44	eP	50	16.40	0.4
	0.5s		1.80nm			4.8mb		1.3s		52.87nm			4.9mb		1.1s		26.85nm			5.4mb
NB2	97.16	339	P	40	55.70	-2.8				pP	42	44.30	27km	LSF	86.16	43	eP	50	16.60	0.4
	0.6s		2.00nm			4.8mb	FVM	22.66	23	P	42	33.80	-2.7		1.0s		10.00nm			5.0mb
ANMO	98.14	51	P	41	04.30	0.7		1.1s		48.78nm			4.9mb	RJF	86.49	44	eP	50	18.00	0.1
	1.1s		13.61nm			5.4mb	RSCP	22.91	34	P	42	36.40	-2.6		1.1s		14.65nm			5.1mb
ALQ	98.14	51	eP	41	03.40	-0.2		0.9s		62.73nm			5.1mb	LPO	86.49	44	eP	50	18.40	0.5
	0.9s		10.50nm			5.4mb	MSU	23.20	338	P	42	42.60	0.6		1.1s		9.75nm			4.9mb
RSON	99.06	33	P	41	05.80	-1.4	GBTN	23.71	36	P	42	44.10	-2.6	EPF	86.50	46	eP	50	18.60	0.6
	1.1s		14.29nm			5.4mb	ABL	23.74	321	P	42	48.50	1.2		1.1s		20.75nm			5.3mb
MEO	104.10	49	iPdiff	41	31.70	1.7				pP	43	57.60		TCF	86.59	43	eP	50	18.20	-0.2
UYO	107.39	48	iPdiff	41	43.00	-1.6	PRM	23.74	42	P	42	45.40	-1.7		1.0s		12.00nm			5.1mb
SCH	107.57	18	ePKP	45	55.00	2.4	SGS	24.42	46	P	42	53.70	0.0	APO	86.75	27	eP	50	18.50	-0.3
BSF	108.32	331	ePKP	45	54.20	-0.2	BCH	24.49	320	P	42	56.30	1.9		0.9s		10.60nm			5.1mb
	0.9s		4.90nm							pP	43	04.50	29km	MAF	86.84	42	eP	50	19.60	0.0
LPG	110.00	329	ePKP	45	56.90	-1.0	JSC	24.57	43	P	42	54.10	-1.0	BGF	86.90	42	eP	50	19.50	-0.3
	0.7s		2.75nm				DUG	24.91	339	P	42	59.20	0.6		1.0s		14.00nm			5.1mb
SBF	110.80	328	ePKP	45	58.80	-0.3		1.0s		16.25nm			4.6mb	AIA	86.96	165	eP	50	19.50	0.0
PGF	110.87	326	ePKP	45	59.00	-0.3	LHS	24.99	43	P	42	58.70	-0.4	SSF	87.13	41	eP	50	20.60	-0.3
	0.6s		5.40nm				TNP	25.00	329	P	43	00.20	0.7		1.0s		14.00nm			5.2mb
TCF	111.58	332	ePKP	46	00.50	0.1		1.1s		41.88nm			5.0mb	AVF	87.13	42	eP	50	20.00	-0.9
	0.6s		1.80nm							pP	43	08.30	29km		0.9s		7.35nm			4.9mb
LPF	111.61	335	ePKP	46	00.70	0.3	FRI	25.51	324	eP	43	13.30	9.3X	LOR	87.27	41	eP	50	21.30	-0.3
	0.6s		8.10nm				KVN	26.19	329	P	43	11.60	1.0		1.0s		14.00nm			5.2mb
MFF	112.37	334	ePKP	46	01.20	-0.7				pP	43	21.90	38km	LBF	87.45	41	eP	50	21.90	-0.7
RJF	112.64	332	ePKP	46	03.60	1.1	BW06	26.35	346	P	43	11.10	-1.0		1.0s		12.00nm			5.1mb
LPO	113.27	332	ePKP	46	04.10	0.4		1.2s		94.18nm			5.3mb	SMF	87.50	42	eP	50	21.60	-1.1
	0.5s		2.90nm							pP	43	20.20	32km		0.9s		4.10nm			4.7mb
BUL	117.85	254	iPKPd	46	04.60	-8.8X	CMB	26.63	325	eP	43	14.20	-0.2	NUR	91.13	24	eP	50	37.00	-2.5
	0.8s		23.13nm				RSSD	26.82	355	P	43	16.30	-0.1	KHC	92.29	37	eP	50	45.20	0.1
ASMO	121.30	330	iPKPc	46	19.50	0.1	BLA	26.98	39	P	43	15.70	-1.9	PRU	92.40	36	eP	50	46.00	0.4
AAPN	121.53	330	iPKPc	46	19.50	-0.4		0.8s		15.10nm			4.7mb	WB5	127.47	258	ePKP	56	47.70	6.7X
APHE	121.60	330	iPKPc	46	20.00	0.0	BKS	27.57	322	ePc	43	15.30	-7.7X	WRA	127.50	258	PKPd	56	40.50	-0.6
ALOJ	121.68	330	iPKPc	46	19.50	-0.7				eLR	52	21.60			0.5s		0.40nm			
ATEJ	121.79	330	iPKPc	46	19.80	-0.6	IMW	27.74	345	P	43	24.20	-0.6	HYB	145.48	0	iPKPc	57	12.70	-1.5
BCAO	122.97	284	iPKPc	46	22.90	-0.3	LRM	29.93	344	ePc	43	43.80	-0.6		1.0s		70.00nm			
	0.6s		34.00nm				FHC	30.55	325	P	43	50.80	1.1				e	57	20.50	
LEGH	139.71	295	ePKP	46	53.00	-1.9		0.9s		16.92nm			4.9mb	GBA	149.24	3	PKPd	57	23.70	3.5X
WEGH	139.86	295	ePKP	46	48.00	-7.2X	NEW	33.49	341	P	44	14.00	-1.4		0.9s		9.30nm			
LKO	142.23	305	PKP	46	53.58	-5.9X		1.0s		10.00nm			4.7mb		S.D. = 1.2		on 80 of 88 obs.			
KIC	143.30	300	PKP	46	57.98	-3.3X	SES	33.93	349	eP	44	19.00	-0.1							
TIC	143.38	301	PKP	46	58.18	-3.2X	LON	33.94	334	P	44	19.00	-0.2							
LIC	143.61	300	PKP	46	59.02	-2.7				pP	44	26.40	25km							
ZON	144.94	127	ePKP	47	04.00	0.4	RSON	33.99	9	P	44	16.30	-3.3X							
ARE	145.70	100	ePKP	47	07.00	1.4		0.9s		9.99nm			4.7mb							
LPB	148.95	100	PKP	47	09.00	-2.0	BMW	34.33	333	P	44	22.60	0.0							
			eLR	02	38.00					pP	44	32.60	34km							
CCH	150.77	102	PKP	47	20.00	6.5X	GMW	34.98	334	P	44	27.30	-0.8							
BAO	168.26	104	ePKP	47	34.00	1.4				pP	44	34.80	26km							
	S.D. = 1.0		on 176 of 186 obs.				PNT	35.23	339	ePd	44	30.00	-0.3							
								0.7s		32.00nm			5.4mb							
MAY 19, 1990 13h 37m 36.58± 0.45s							MCW	35.90	335	P	44	35.70	-0.2							
17.321 N ± 6.9km 101.203 W ± 5.6km							FFC	37.34	359	eP	44	46.00	-1.9							
DEPTH = 30.3km (9 depth phases)								0.9s		12.00nm			4.7mb							
5.0mb (39 obs.) 4.3Msz (1 obs.)							ZOBO	46.66	134	P	46	05.00	-0.1							
NEAR COAST OF GUERRERO, MEXICO (58)								1.0s		55.00nm			5.5mb							
Felt in Guerrero, Michoacan and (III) at Mexico City.							Z	18s		0.28um			4.3Msz							
										i	47	12.00	326kmX							
										LR	02	08.00								
ACX	1.36	109	iP	38	00.30	0.6	SIV	51.58	128	P	46	41.00	-1.5							
			iS	38	18.00		INK	54.91	346	eP	47	06.00	-0.5							
III	1.96	57	iP	38	10.30	1.8		1.1s		69.00nm			5.6mb							
			(S)	39	06.50		FBA	56.80	338	P	47	19.00	-1.1							
MRX	2.37	0	iP	38	15.30	1.1		1.1s		18.75nm			5.0mb							
			(S)	39	10.50					pP	47	25.40	21kmX							
CRX	2.53	35	iP	38	18.80	2.0	IMA	59.50	338	P	47	40.70	1.5							
UNM	2.77	43	eP	38	21.80	1.7		1.0s		3.25nm			4.4mb							
			iS	38	57.50		MBC	59.70	355	ePc	47	39.50	-0.7							
IIJ	2.78	30	iP	38	21.30	0.9		1.0s		68.00nm			5.7mb							
			iS	38	56.00		AKU	71.53	26	iP	48	57.30	1.1							
IIT	3.23	58	iP	38	30.80	4.2X		1.1s		30.38nm			5.3mb							
			(S)	38	58.00		EKA	80.42	35	Pd	49	47.30	0.7							
OXX	4.29	93	iP	38	42.80	1.2		1.0s		9.80nm			4.8mb							
			(S)	39	30.00		FLN	84.01	41	eP	50	06.30	0.9							
LVVM	5.11	61	(P)	38	58.20	5.1X		0.9s		18.00nm			5.3mb							
PSM	5.93	95	(P)	39	12.00	7.3X	LDF	84.30	41	eP	50	06.60	-0.3							
			(S)	40	00.50			0.9s		16.40nm			5.2mb							
ALQ	18.17	346	ePc	41	48.90	0.4	MFF	84.95	43	eP	50	10.70	0.5							
	1.0s		24.50nm			4.3mb		0.9s		11.45nm			5.1mb							
ANMO	18.17	346	P	41	49.30	0.8	AAPN	85.14	53	iPd	50	12.60	1.1							
	1.1s		28.48nm			4.3mb	ALOJ	85.22	53	iPd	50	13.80	1.9							

MAY 19, 1990 14h 17m 54.51± 0.90s
36.484 N ± 6.7km 70.838 E ± 5.8km
DEPTH = 194.1 ± 11.1 km
4.3mb (20 obs.)

HINDU KUSH REGION (718)

Felt (II) at Khorog, USSR.

KSH	5.03	52	Pd	19	11.40	1.5
			S	20	07.00	
QUE	7.07	208	eP	19	38.00	1.4
			eS	20	56.50	
MAIO	9.15	272	eP	20	02.00	-1.7
	0.8s		9.15nm			4.2mb
			eS	21	41.00	
NDI	9.45	144	iPd	20	06.50	-1.1
	0.5s		105.63nm			5.5mb X
			iS	21	44.60	
WMO	14.81	55	Pc	21	14.90	-0.9
			sP	22	12.70	
DMN	14.98	122	P	21	17.40	-0.7
PKI	15.21	122	P	21	20.00	-1.0
GUN	15.32	120	P	21	21.40	-1.0
LSA	18.30	106	P	21	57.40	0.5
BRF	20.15	245	iPn	22	16.70	1.5
BBU	20.16	245	ePn	22	16.00	0.7
HYB	20.18	158	eP	22	17.50	1.8
			eS	25	51.00	
BEE	20.22	245	iPn	22	16.20	0.2
GBA	23.54	164	Pc	22	49.60	1.2
	0.5s		8.40nm			4.6mb
NUR	37.76	324	eP	24	54.00	1.1
SUF	37.87	328	iP	24	55.00	1.3
	0.4s		7.10nm			4.7mb
KRA	38.72	307	eP	25	02.80	1.9
SOD	39.70	335	iP	25	10.10	1.4
KEV	40.77	338	eP	25	16.00	-1.5
UPP	41.00	322	iP	25	20.10	0.6
BRG	42.53	308	iP	25	33.70	1.6
	1.0s		12.00nm			4.4mb
HFS	43.00	322	P	25	36.20	0.4

19d 14h

	0.6s	25.50nm		4.9mb		
CLL	43.10	309 eP	25 38.00	1.3		
NB2	44.31	323 P	25 46.50	0.1		
	0.6s	16.70nm		4.7mb		
PGF	47.16	297 eP	26 07.20	-2.0		
	0.5s	2.90nm		4.0mb		
BSF	47.54	305 eP	26 10.50	-1.5		
	0.4s	2.85nm		4.1mb		
HAU	47.80	305 eP	26 13.00	-0.9		
	0.3s	2.55nm		4.2mb		
LPG	48.05	302 eP	26 16.80	0.6		
	0.6s	4.50nm		4.1mb		
FRF	48.58	299 eP	26 19.80	-0.1		
LRG	48.81	299 eP	26 21.60	0.0		
	0.5s	2.90nm		4.0mb		
LBF	49.58	304 eP	26 25.40	-2.2		
	0.4s	3.45nm		4.2mb		
LOR	49.60	305 eP	26 26.70	-1.0		
SMF	49.75	304 eP	26 27.20	-1.7		
	0.5s	3.65nm		4.2mb		
AVF	50.05	304 eP	26 29.40	-1.6		
	0.6s	4.05nm		4.2mb		
MAF	50.71	304 eP	26 36.70	0.5		
TCF	50.93	304 eP	26 38.00	0.1		
	0.4s	2.85nm		4.2mb		
LSF	51.40	304 eP	26 41.10	-0.2		
	0.4s	2.85nm		4.2mb		
EKA	52.21	316 Pd	26 47.00	-0.2		
	1.0s	7.30nm		4.3mb		
BCAO	57.53	249 iPd	27 25.20	-0.8		
	0.4s	8.00nm		4.8mb		
BUL	69.02	223 iPd	28 32.90	-8.2X		
	0.9s	8.40nm		4.5mb		
INK	73.94	9 eP	29 11.00	1.6		
FBA	74.52	16 eP	29 13.80	0.9		
KIC	74.65	267 P	29 13.80	-0.6		
WB5	82.07	122 eP	29 53.70	-0.7		
WRA	82.09	122 Pd	29 54.20	-0.4		
	0.6s	3.60nm		4.3mb		
	S.D. = 1.2	on 44 of 45 obs.				

---

* MAY 19, 1990 14h 34m 47.46± 1.00s
9.629 S ±11.0km 120.499 E ±13.3km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
SUMBA ISLAND REGION (287)

MKS	4.50	347 i(P)c	35 55.00	-0.1		
KNA	10.10	128 eP	37 14.20	0.8		
	0.2s	31.00nm		6.2mb X		
		eS	39 04.00			
MTN	10.91	108 eP	37 23.00	-1.4		
		eS	39 19.00			
NANU	13.71	200 eP	38 01.50	-0.5		
	0.3s	5.00nm		4.8mb X		
		eS	40 22.00			
WRA	16.85	129 Pd	38 41.70	-0.8		
	0.8s	11.60nm		4.1mb		
QIS	21.38	123 eP	39 35.20	0.7		
		eS	43 26.80			
BRS	35.18	125 iP	41 42.00	1.3		
GBA	48.57	298 P	43 24.00	-6.0X		
	0.2s	0.40nm		4.1mb		
	S.D. = 1.2	on 7 of 8 obs.				

? MAY 19, 1990 15h 22m 38.57± 2.00s
31.309 S ±27.1km 68.445 W ±14.5km
DEPTH = 71.7 ± 9.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.03	226 iPc	22 49.20	-0.2		
ZON	0.31	220 iPd	22 50.20	0.0		
		eS	23 02.00			
CFA	0.34	149 iPd	22 50.50	0.0		
		S	23 02.90			
RTCB	0.35	240 iPd	22 51.00	0.4		
RTCV	0.56	188 eP	22 52.20	-0.1		
		S	23 05.80			
RTBS	0.93	248 eP	22 56.30	-0.2		
AIA	34.06	177 eP	29 17.60	0.0		
	S.D. = 0.3	on 7 of 7 obs.				

MAY 19, 1990 15h 48m 08.23± 0.91s
27.273 N ± 5.6km 140.301 E ± 6.3km
DEPTH = 339.6 ± 9.1 km
4.6mb (15 obs.)
BONIN ISLANDS REGION (212)

MAT	9.41	350 iPd	50 18.30	-1.6		
	0.8s	44.78nm		4.7mb X		
		(S)	51 29.00			
SHK	9.76	320 eP	50 26.40	2.3		
YAMJ	10.87	359 P	50 36.20	-1.4		
		eS	52 36.70			
OFUJ	11.83	5 P	50 49.60	0.4		
		eS	52 56.00			
AOMJ	13.25	0 P	51 07.10	0.8		
SAP	15.77	3 eP	51 34.00	0.0		
NJ2	19.23	289 eP	52 09.20	-0.1		
MDJ	19.33	336 P	52 10.00	-0.2		
		pP	52 13.00	11kmX		
QZH	19.63	268 eP	52 15.50	2.2		
SNY	19.96	321 iPd	52 16.00	-0.4		
	0.8s	100.00nm		5.2mb		
		S	55 39.00			
CN2	20.39	328 Pd	52 20.00	-0.6		
	1.0s	20.00nm		4.4mb		
TIA	21.59	300 Pd	52 32.60	0.3		
WHN	22.93	284 P	52 47.50	2.5		
BJI	23.69	309 eP	52 50.00	-1.9		
	1.5s	26.00nm		4.4mb		
TIY	25.62	301 Pc	53 09.60	0.0		
HHC	27.25	307 eP	53 24.00	-0.3		
XAN	27.75	292 Pd	53 27.20	-1.5		
BTO	28.27	306 eP	53 33.00	-0.2		
CD2	32.05	285 iPd	54 05.80	-0.4		
	0.6s	100.00nm		5.4mb		
LZH	32.10	295 P	54 06.50	-0.2		
	1.0s	33.00nm		4.7mb		
PMG	37.06	169 eP	54 47.50	-0.9		
CHG	38.84	266 ePc	55 04.00	0.9		
	0.9s	10.50nm		4.1mb		
MTN	40.86	194 eP	55 19.00	-0.6		
WMO	45.11	306 P	55 53.50	0.0		
WB5	47.22	188 iPc	56 09.00	-0.9		
		eScP	00 55.00			
CTA	47.43	172 iPd	56 11.70	0.2		
	1.1s	32.91nm		4.5mb		
QIS	47.55	181 eP	56 11.50	-0.9		
	0.4s	14.00nm		4.6mb		
GUN	47.89	284 P	56 16.00	0.5		
	0.4s	18.00nm		4.7mb		
PKI	48.37	284 P	56 19.60	0.4		
DMN	48.63	284 P	56 20.80	-0.2		
	0.6s	10.00nm		4.3mb		
NANU	55.03	208 eP	57 07.50	-0.3		
DZM	55.19	150 iPc	57 09.00	0.0		
FBA	57.98	29 eP	57 28.50	0.5		
INK	63.57	24 eP	58 05.00	0.0		
KEV	72.26	340 eP	58 58.00	-0.3		
SOD	73.62	338 iP	59 06.00	-0.2		
PNT	75.96	42 eP	59 21.00	1.3		
SUF	76.31	334 iP	59 21.40	0.1		
	0.4s	10.40nm		4.9mb		
NUR	78.15	333 eP	59 31.00	-0.4		
UPP	81.32	335 iP	59 47.10	-1.0		
KVN	81.57	50 eP	59 51.20	1.1		
HFS	82.59	336 eP	59 53.40	-1.3		
	0.4s	10.70nm		5.0mb		
TNP	82.64	51 eP	59 56.90	1.2		
NB2	82.82	338 P	59 55.10	-0.8		
	0.6s	9.60nm		4.8mb		
PRU	89.29	328 eP	00 27.00	-0.4		
KHC	90.34	328 P	00 32.00	-0.3		
ALQ	91.64	49 eP	00 40.20	1.4		
	0.7s	2.57nm		4.3mb		
EKA	91.98	340 P	00 39.00	-0.7		
	0.9s	3.40nm		4.4mb		
LKO	130.68	313 PKP	06 41.78	0.4		
	0.5s	10.50nm				
TIC	132.43	310 PKP	06 45.10	0.4		
KIC	132.45	309 PKP	06 45.20	0.5		
LIC	132.74	310 PKP	06 45.80	0.6		
ZOBO	151.49	73 PKP	07 26.00	7.8X		
		LR	09 34.00			
	S.D. = 1.0	on 52 of 53 obs.				

% MAY 19, 1990 16h 12m 20.24± 1.11s
40.378 N ±13.4km 30.615 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GPA	0.25	249 iPg	12 26.00	0.4		
		eSg	12 34.00			
HRT	0.85	302 ePn	12 46.00	9.4X		
YLV	0.97	282 iPn	12 39.40	0.7		
ALT	1.38	197 ePn	12 45.00	-0.6		
BBTK	1.73	107 ePg	12 51.00	0.4		
		eSg	13 14.00			
CTT	1.83	296 ePn	12 51.00	-1.0		
	S.D. = 1.0	on 5 of 6 obs.				

---

* MAY 19, 1990 16h 32m 29.62± 0.72s
24.516 S ± 6.1km 69.631 W ±14.8km
DEPTH = 33.0km (normal)
NORTHERN CHILE (123)

ANT	1.08	318 iPc	32 47.80	-0.6		
		iS	32 59.50			
RTLL	6.87	172 iPc	34 10.00	-0.6		
RTCB	6.98	174 eP	34 12.90	0.6		
RTBS	7.12	179 e(P)	34 14.00	-0.1		
RTCV	7.38	173 e(P)	34 18.20	0.4		
LPB	8.07	11 P	34 43.00	15.1X		
ZOBO	8.33	10 P	34 33.00	1.4		
	Z 24s	0.13um				
		LR	56 26.00			
SIV	11.68	45 P	35 16.00	-1.0		
	S.D. = 1.1	on 7 of 8 obs.				

? MAY 19, 1990 17h 09m 23.68± 3.30s
37.822 S ±40.2km 146.320 E ±11.2km
DEPTH = 5.0km (geophysicist)
NEAR S.E. COAST OF AUSTRALIA (603)
ML 3.5 (BFD), 3.2 (CNB).

TOO	0.70	291 iPd	09 37.50	-0.3		
		eS	09 46.30			
BFD	3.07	281 iPc	10 14.00	0.2		
		eS	10 59.00			
CAN	3.30	42 eP	10 16.80	-0.3		
CNB	3.50	45 e(P)	10 19.80	-0.2		
		eS	11 09.70			
BWA	3.79	27 iPd	10 24.60	0.5		
		eS	11 10.00			
	S.D. = 0.5	on 5 of 5 obs.				

MAY 19, 1990 17h 44m 02.53± 0.47s
13.793 N ± 2.7km 60.985 W ± 8.3km
DEPTH = 16.5 ± 3.8 km
4.6mb (6 obs.)
WINDWARD ISLANDS (95)
MD 4.6 (TRN). ML 4.5 (FDF). Felt on St. Lucio. Also felt (II) on Mortinique.

SLB	0.06	300 iPc	44 05.41	-0.4		
		eS	44 07.61			
SVV	0.52	205 iPc	44 13.02	0.1		
SVB	0.58	207 iPc	44 14.10	0.2		
FCV	0.68	202 iPc	44 15.27	-0.3		
BIM	0.72	353 iPd	44 16.77	0.4		
MVM	0.76	6 P	44 17.36	0.4		
FDF	0.95	350 iPd	44 20.26	0.1		
	0.1s	1.85nm				
		S	44 33.50			
CRM	0.96	4 iPc	44 20.38	0.1		
SVN	1.06	350 P	44 22.03	0.0		
DPMT	1.51	345 eP	44 28.50	-0.3		
		eS	44 50.00			
BBL	1.78	345 eP	44 32.09	-0.8		
		S	44 57.70			
MGG	2.14	351 eP	44 37.97	0.0		
		S	45 05.50			
PAG	2.32	343 eP	44 40.65	0.0		
		S	45 12.00			
TAG	2.33	344 eP	44 40.72	-0.1		
SFG	2.45	355 eP	44 42.23	-0.2		
SEG	2.64	349 eP	44 45.38	0.2		
MGH	3.14	338 eP	44 52.42	0.1		
TRN	3.15	188 eP	44 53.07	0.7		
		eS	45 30.09			
TCE	3.17	194 eP	44 53.26	0.6		
		eS	45 32.00			
BPA	3.34	346 eP	44 55.20	0.1		
TPP	3.49	188 eP	45 00.64	3.5X		
NEV	3.66	335 eP	45 01.30	1.6		
SKI	3.90	335 eP	45 02.92	-0.2		
		eS	45 50.37			
CPB	3.91	348 eP	45 03.40	0.3		
CUM	4.54	224 iPc	45 12.00	-0.2		
SIV	29.59	180 P	50 09.20	0.1		

ZOBO 30.69 194 P 50 18.30 -1.2
Z 24s 0.20um 3.7MszX
LR 01 22.00
ANMO 45.99 305 P 52 30.90 3.8X
FRB 50.17 356 eP 53 01.00 2.1
FFC 51.80 331 eP 53 10.00 -1.5
0.7s 6.00nm 4.6mb
LKO 54.32 88 P 53 30.80 -0.1
LSF 61.20 45 eP 54 26.40 7.6X
AVF 62.53 44 eP 54 26.50 -1.3
SMF 62.84 44 eP 54 28.50 -1.3
LOR 62.95 44 eP 54 25.90 -4.6X
LPG 64.70 46 eP 54 43.20 0.8
0.8s 2.70nm 4.5mb
BSF 65.00 43 eP 54 43.00 -1.1
0.7s 4.40nm 4.7mb
MBC 69.39 347 eP 55 11.00 -0.1
0.6s 9.00nm 5.1mb
NB2 69.42 30 P 55 12.40 0.8
0.9s 2.80nm 4.4mb
INK 70.83 338 eP 55 19.00 -1.0
FBA 76.27 334 P 55 53.20 1.4
SOD 76.46 23 eP 55 49.00 -3.8X
BCAO 78.79 88 ePd 56 07.70 1.0
0.5s 2.00nm 4.4mb
S.D. = 0.8 on 38 of 43 obs.

& MAY 19, 1990 17h 55m 59.30s
36.297 N 120.358 W
DEPTH = 12.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.7 (BRK), 3.2 (PAS).

PRI 0.29 238 iPd 56 05.00 -0.6
PKEM 0.31 139 iPc 56 05.70 -0.2
PHAM 0.46 184 iPd 56 07.70 -1.1
LLA 0.57 304 iPc 56 09.50 -1.2
FRI 0.87 37 iPd 56 13.70 -2.1
SAO 0.99 298 ePc 56 16.20 -1.7
BCH 1.13 169 iPc 56 18.30 -2.1
ARN 1.41 318 eP 56 22.50 -2.3
MHC 1.47 316 ePc 56 23.00 -2.6
GCC 1.51 300 ePc 56 23.00 -3.1
ISA 1.65 112 iPc 56 26.10 -2.2
ABL 1.72 147 eP 56 26.00 -3.3
CMB 1.73 359 iPd 56 27.60 -1.9
iS 56 50.10
PCC 2.02 307 ePc 56 30.00 -3.5
BKS 2.18 317 ePd 56 33.50 -2.3
BRK 2.19 317 ePc 56 33.40 -2.6
ZSP 2.24 318 ePc 56 34.30 -2.4
TNP 3.08 54 eP 56 47.20 -1.6
KVN 3.28 32 eP 56 50.00 -1.7
ORV 3.38 345 eP 56 51.40 -1.5
MIN 4.16 347 eP 57 10.30 6.2
21 obs. associated

% MAY 19, 1990 19h 27m 44.68± 0.86s
44.411 N ± 6.2km 7.312 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

DOI 0.10 333 P 27 49.00 1.5
eSg 27 51.50
STV 0.17 177 P 27 48.40 -0.2
S 27 50.55
ENR 0.20 157 P 27 49.19 0.1
S 27 51.79
ROB 0.42 106 P 27 53.83 0.6
S 28 00.40
IMI 0.65 140 P 27 57.16 -0.6
FIN 0.67 107 P 27 57.94 -0.2
S 28 07.16
RSP 0.74 357 P 27 57.72 -1.6
PCP 0.89 81 P 28 02.14 0.3
S.D. = 1.0 on 8 of 8 obs.

% MAY 19, 1990 19h 41m 12.36± 0.76s
43.847 N ±14.9km 11.169 E ± 4.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PGD 0.40 86 P 41 20.30 -0.3
eSg 41 26.70
BDI 0.47 298 P 41 22.00 0.1
eSg 41 29.50
PII 0.48 255 P 41 22.00 -0.2
eSg 41 29.00
SFI 0.50 81 P 41 22.50 0.0
iSg 41 29.50
CRE 0.61 111 P 41 25.00 0.3
eSg 41 33.50
S.D. = 0.3 on 5 of 5 obs.

? MAY 19, 1990 19h 48m 14.45± 1.02s
43.420 N ± 9.7km 12.160 E ±11.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE 0.26 324 P 48 20.00 0.1
ASS 0.51 134 P 48 25.00 0.3
eSg 48 32.00
ARV 0.57 82 P 48 26.00 -0.1
eSg 48 34.00
MNS 1.10 160 P 48 35.00 -0.2
eSg 48 50.00
S.D. = 0.4 on 4 of 4 obs.

? MAY 19, 1990 19h 54m 01.91± 1.85s
51.580 N ±13.4km 7.690 E ±16.8km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.5 (UCC).

WTS 0.69 308 ePgc 54 15.50 0.0
ENN 1.38 235 iPn 54 27.10 0.0
iPg 54 28.90
iSn 54 46.00
eSg 54 49.50
MEM 1.44 228 iP 54 28.00 0.0
iS 54 48.00
TNS 1.44 160 ePnc 54 28.10 0.0
eSn 54 47.40
DOU 2.46 234 P 54 49.20 6.5X
iS 55 18.90
S.D. = 0.0 on 4 of 5 obs.

& MAY 19, 1990 20h 48m 57.00s
36.687 N 121.467 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK).
Mo=1.4*10**14 Nm (BRK). Some readings obscured by o small event 1.6 seconds earlier (BRK).

SAO 0.08 13 iPd 48 57.10 -1.9
LLA 0.43 99 ePd 49 06.40 0.8
GCC 0.55 309 eP 49 08.20 0.3
ARN 0.66 355 iPc 49 09.90 -0.4
MHC 0.67 348 iPd 49 10.40 0.0
PRI 0.85 130 eP 49 14.80 1.0
iS 49 30.00
PCC 1.09 318 eP 49 17.30 -0.6
PHAM 1.21 134 eP 49 20.00 0.1
PKEM 1.26 119 eP 49 22.00 1.2
BKS 1.34 333 iP 49 20.60 -1.4
eS 49 40.40
BRK 1.34 332 eP 49 21.20 -0.9
ZSP 1.40 334 ePc 49 21.90 -1.2
FRI 1.44 77 eP 49 22.00 -1.7
iS 49 39.90
CMB 1.60 32 iPd 49 24.30 -1.6
BCH 1.87 143 eP 49 29.40 -0.6
ORV 2.86 359 ePc 49 43.00 -1.1
i 49 53.10
KVN 3.56 47 eP 49 52.00 -2.1
17 obs. associated

? MAY 19, 1990 22h 27m 07.50± 5.67s
34.351 N ±55.4km 25.216 E ±14.9km
DEPTH = 10.0km (geophysicist)
CRETE (370)

VAM 1.34 322 ePb 27 33.40 1.1
APE 2.72 5 ePn 27 52.10 0.0
VLI 3.01 322 ePn 27 54.90 -1.1
ITM 3.89 317 ePg 28 16.00 7.4X
ELL 4.51 57 ePn 28 18.00 0.5
BCK 5.35 53 ePn 28 29.00 -0.4
S.D. = 1.2 on 5 of 6 obs.

& MAY 19, 1990 22h 41m 42.53s
58.872 N 152.263 W
DEPTH = 59.5km
KODIAK ISLAND REGION (13)
<AGS-P>.

XLV 0.65 25 eP 41 55.09 -1.1
eS 42 05.38
CDD 0.72 275 iP 41 56.30 -0.8
iS 42 07.30
AUE 0.75 311 eP 41 56.90 -0.6
eS 42 07.56
CNPM 0.84 38 eP 41 57.98 -0.7
iS 42 10.38
MCNL 1.12 287 eP 42 01.45 -0.8
eS 42 15.27
KDC 1.13 186 eP 42 02.43 0.0
NNL 1.27 22 eP 42 04.18 -0.2
PDB 1.35 314 eP 42 04.26 -1.2
eS 42 21.26
RED 1.57 351 eP 42 07.41 -1.2
eS 42 27.63
RDT 1.71 358 eP 42 09.27 -1.2
eS 42 30.90
SLKM 1.94 31 eP 42 13.13 -0.6
NKA 1.95 15 eP 42 14.42 0.7
SPU 2.32 2 eP 42 17.46 -1.6
CRP 2.40 1 eP 42 19.74 -0.6
SUA 2.71 16 eP 42 23.54 -1.1
PMS 2.74 28 eP 42 23.13 -1.8
16 obs. associated

---

* MAY 19, 1990 23h 33m 04.28± 0.98s
36.570 N ±10.9km 71.526 E ±12.9km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE 7.43 212 eP 34 53.00 -0.3
eS 36 33.60
NDI 9.21 147 eP 35 18.00 0.2
0.5s 10.56nm 5.3mb X
eS 36 51.00
MAIO 9.70 272 eP 35 25.00 0.3
HFS 43.27 322 eP 41 03.90 -0.1
0.7s 1.90nm 4.0mb
NB2 44.58 323 P 41 14.60 -0.1
0.8s 1.70nm 4.0mb
S.D. = 0.3 on 5 of 5 obs.

---

* MAY 20, 1990 01h 25m 14.07± 0.82s
16.343 N ± 8.9km 145.829 E ±25.2km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
MARIANA ISLANDS (216)

PJG 2.89 199 eP 25 58.50 -0.4
eS 26 34.00
GUMO 2.89 199 eP 25 59.30 0.4
MAT 21.23 343 eP 30 13.00 13.6X
0.7s 5.48nm
SSE 26.83 308 eP 30 53.50 0.1
Lg 32 50.50
WRA 37.79 198 Pc 32 20.90 -8.3X
0.6s 1.20nm 3.9mb
MBC 75.39 14 eP 36 56.00 0.2
0.8s 2.00nm 4.2mb
KIC 143.16 305 PKP 44 47.00 -0.5
TIC 143.21 306 PKP 44 47.50 0.0
LIC 143.47 306 PKP 44 48.10 0.1
S.D. = 0.4 on 7 of 9 obs.

% MAY 20, 1990 01h 31m 29.47± 0.77s
40.646 N ± 7.7km 15.855 E ± 5.4km
DEPTH = 5.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.43 258 Pc 31 37.60 -0.4
iSg 31 45.70
MGR 0.56 204 Pc 31 39.80 -0.8
eSg 31 49.00
ORI 0.74 142 P 31 44.00 -0.2
iSg 31 54.50
BSS 0.81 281 P 31 46.40 0.7
eSg 31 57.20
BAI 0.90 58 P 31 47.00 -0.2
BRT 1.05 77 Pd 31 48.30 -1.4
eSg 32 04.50

20d 01h

TDS	1.05	159	P	31	50.50	0.7
			eSg	32	03.50	
LCI	1.63	100	P	32	00.50	1.6
			eSg	32	22.30	

S.D. = 1.2 on 8 of 8 obs.

& MAY 20, 1990 02h 02m 32.46s
59.100 N 153.730 W
DEPTH = 97.2km
SOUTHERN ALASKA (2)
<AGS-P>.

CDD	0.18	165	iP	02	45.61	0.7
AUE	0.32	35	iP	02	46.54	-0.4
AUL	0.32	28	iP	02	46.46	-0.6
MCNL	0.32	286	iP	02	46.18	-0.9
			iS	02	56.22	
PDB	0.73	341	iP	02	49.04	-1.1
			iS	03	02.28	
XLV	1.09	70	eP	02	53.04	-0.9
			iS	03	09.17	
CNPM	1.35	70	iP	02	55.96	-1.1
			iS	03	13.98	
RED	1.41	20	iP	02	56.97	-0.9
			iS	03	15.78	
KDC	1.50	154	iP	02	57.73	-1.2
			iS	03	17.53	
NNL	1.56	52	eP	02	59.55	-0.1
RDT	1.62	24	iP	02	59.38	-1.2
			iS	03	20.48	
NKA	2.07	36	eP	03	06.61	0.3
SVW	2.23	336	iP	03	07.06	-1.4
			eS	03	29.58	
SPU	2.25	21	iP	03	07.58	-1.2
			iS	03	35.05	
SLKM	2.27	50	eP	03	07.85	-1.2
CRP	2.31	19	eP	03	08.73	-1.0
SEW	2.40	63	eP	03	09.37	-1.3
SUA	2.80	31	eP	03	15.40	-0.9
PMS	2.99	42	eP	03	17.61	-1.3
SKT	3.09	20	eP	03	18.71	-1.4
PLRM	3.39	40	eP	03	22.39	-1.8
GHO	3.59	40	eP	03	24.95	-2.1
CUT	3.73	26	eP	03	27.58	-1.3
GLI	3.78	59	eP	03	25.76	-3.9
SML	3.81	42	eP	03	27.84	-2.2
VZW	4.10	58	eP	03	30.92	-3.1

26 obs. ossociated

MAY 20, 1990 02h 22m 01.62± 0.16s
5.121 N ± 2.7km 32.145 E ± 2.6km
DEPTH = 14.9km (geophysicist)
6.7mb (72 obs.) 7.1Msz (23 obs.)
SUDAN (557)

Ms 7.4 (BRK), 7.2 (PAS).
Mo=1.6•10••20 Nm (PPT). Some buildings damaged in the Juba oreo. Also some damage in the Moyo oreo, Ugonda. Felt in the Nokuru area, Kenya and in Ugando. Believed to be the largest earthquoke ever recorded in Sudan. Depth from broadband displocement seismagroms.
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=250 Dip=80 Slip= 176
NP2: 341 86 10
Principal Axes:
T Plg=10 Azm=206
P 4 115
Comment: The focal mechonism is moderotely well controlled and corresponds to strike-slip foulting. The preferred fault plone is not determined.
RADIATED ENERGY
No. of sto: 5 Focal mech. F
Energy 1.4±0.2•10••15 Nm
MOMENT TENSOR SOLUTION
Dep 12 No. of sto: 12
Moment Tensar; Scale 10••19 Nm
Mrr= 0.39 Mtt= 6.25
Mff=-6.64 Mrt=-1.16
Mrf= 0.03 Mtf=-3.37
Principal axes:

T	Vol= 7.26	Plg= 9	Azm=194
N	0.21	80	25
P	-7.47	2	284

Best Double Couple:Mo=7.4•10••19
NP1:Strike=329 Dip=82 Slip= 5
NP2: 238 85 172
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 14S, 40C M.W.: 11S, 29C
Centroid Locotion:
Origin Time 02:22: 7.5 0.2
Lot 5.32N 0.01 Lon 32.29E 0.02
Dep 15.0 FIX Holf-durotion 20.0
Moment Tensor; Scole 10••19 Nm
Mrr=-1.50 0.06 Mtt= 5.50 0.05
Mff=-4.00 0.05 Mrt=-2.73 0.36
Mrf= 0.49 0.34 Mtf=-0.17 0.05
Principal Axes:

T	Val= 6.44	Plg=19	Azm=182
N	-2.34	66	324
P	-4.11	13	87

Best Double Couple:Mo=5.3•10••19
NP1:Strike=224 Dip=67 Slip= 176
NP2: 315 86 23

NAI	7.87	144	iPc	23	56.50	-2.1
	1.2s	640.63nm			6.7mb	
			iS	25	03.00	
LWI	8.04	205	iPc	23	56.90	-4.0X
GBR	11.84	59	ePd	24	53.36	0.4
KSU	12.01	57	ePd	24	55.62	0.4
DAF	12.12	57	ePd	24	56.89	0.1
SGH	12.13	58	ePd	24	57.55	0.7
ARO	12.35	58	ePd	25	00.61	0.7
TDD	12.54	57	ePd	25	02.54	0.2
ATA	12.62	59	ePd	25	04.67	1.2
TAIF	17.94	26	iPc	26	14.00	1.6
AWAL	18.16	1	iPc	26	15.30	0.4
ANAL	18.19	2	iPc	26	15.80	0.5
AWKL	18.20	1	iPc	26	15.10	-0.3
AGAL	18.21	2	iPc	26	16.00	0.4
AGMR	18.31	1	iPc	26	17.60	0.8
AGRW	18.43	2	iPc	26	18.60	0.4
AKSR	18.43	3	iPc	26	18.60	0.4
ASKD	18.43	1	iPc	26	18.80	0.5
AKRL	18.44	2	eP	26	19.00	0.6
ANMR	18.45	1	iPc	26	19.10	0.6
AAHD	18.53	2	iPc	26	19.60	0.2
AKUR	18.67	2	iPc	26	21.60	0.4
AMAN	18.72	2	iPc	26	22.00	0.2
ASW	18.86	2	iPc	26	23.00	-0.6
			eS	31	16.00	
KMSA	19.34	37	iPc	26	30.00	0.5
WAJH	21.36	11	iPc	26	50.00	-0.6
AFIF	21.65	28	iPc	26	50.00	-3.7X
BADA	23.43	6	iPc	27	12.00	0.9
QASM	23.53	26	iPc	27	13.30	1.2
AYN	23.90	8	iPc	27	15.30	-0.3
RYD	23.93	34	iPc	27	18.00	1.9
MJMA	24.15	30	iPc	27	20.00	1.8
HQL	24.18	6	iPc	27	20.00	1.7
HLW	24.62	358	iPc	27	23.00	0.4
MBH	24.65	6	iPc	27	24.70	1.8
KOT	24.68	359	iPc	27	23.90	0.7
PRNI	25.23	6	iPc	27	29.80	1.2
BUL	25.34	188	iPd	27	19.70	-10.1X
DHLJ	25.62	357	Pc	27	33.00	0.9
LISJ	26.17	6	Pc	27	37.30	0.1
DSI	26.49	6	iPc	27	41.10	1.0
MKRJ	26.50	7	Pd	27	39.80	-0.6
MDSJ	26.65	8	Pc	27	41.80	0.0
KFNJ	26.81	7	Pc	27	42.00	-1.1
SALJ	26.95	7	Pd	27	43.20	-1.3
ZNT	27.11	5	iPc	27	47.00	1.1
DHR	27.20	37	iPc	27	47.10	0.4
BURJ	27.20	7	Pd	27	46.30	-0.5
JARJ	27.21	7	Pc	27	46.30	-0.6
BRF	27.30	38	iP	27	48.50	0.9
	1.1s	715.00nm			6.3mb	
BBU	27.32	38	iP	27	48.00	0.1
	1.1s	610.00nm			6.2mb	
SHMJ	27.67	7	Pc	27	51.30	0.3
ATZ	27.71	6	iPc	27	52.40	1.0
HRI	28.21	6	iPc	27	56.50	0.6
PPCY	29.62	0	eP	28	08.00	-0.5
CSS	29.71	2	eP	28	08.50	-0.9
FAM	29.78	3	eP	28	09.00	-0.9
LFK	30.04	2	iP	28	03.10	-9.2X
BHD	30.24	21	iPd	28	15.00	0.9

			ipP	29	22.00	356kmX
			iPPP	29	48.00	
			iPcP	30	12.00	
			iS	33	29.50	
			iSS	35	39.50	
			iSSS	36	08.00	
			iLQ	39	35.00	
SLR	30.90	187	iPc	28	18.20	-1.9
KSL	30.94	356	eP	28	20.00	-0.1
VAM	31.02	347	eP	28	21.00	0.1
ELL	31.54	357	eP	28	25.60	0.0
YER	32.06	354	iP	28	31.50	1.4
PRY	32.18	188	iPd	28	30.00	-1.4
	1.0s	150.00nm			5.9mb	
LEGH	32.19	272	eP	28	28.50	-2.9X
BCK	32.22	358	iP	28	32.40	0.9
GAZ	32.23	8	iP	28	34.00	2.5
BFS	32.25	189	iPc	28	15.00	-16.9X
WEGH	32.33	272	eP	28	30.00	-2.7
APE	32.37	350	eP	28	32.00	-0.8
KUK	32.37	273	eP	28	32.00	-1.0
VLI	32.56	346	eP	28	34.00	-0.4
MSL	32.71	17	ePd	28	35.50	-0.2
			eS	34	03.00	
			e	34	53.00	
			eLQ	37	27.00	
			eLR	40	27.00	
SLY	32.74	20	iPd	28	35.50	-0.4
			i	28	43.00	26kmX
			iPP	29	52.50	
			iPcP	31	00.00	
			i	33	09.50	
			iS	34	02.50	
			iScP	34	43.00	
			iSS	36	11.00	
			iSSS	36	41.50	
SMG	32.79	352	eP	28	36.10	-0.3
KHL	33.13	356	iP	28	40.20	0.7
ITM	33.25	345	eP	28	40.00	-0.4
IZM	33.42	353	iP	28	42.50	0.6
ATH	33.59	348	iPd	28	43.80	0.5
ALT	33.83	357	eP	28	45.50	0.0
BLF	34.51	189	iPc	28	50.00	-1.6
	1.0s	320.00nm			6.2mb	
VLS	34.54	344	eP	28	51.80	0.2
BBTK	34.57	1	eP	28	52.00	0.1
EZN	34.95	352	iP	28	55.90	0.9
NEO	34.98	348	eP	28	54.00	-1.3
GPA	35.05	358	eP	28	56.00	0.1
IZI	35.14	356	eP	28	57.40	0.6
LPD	35.21	332	eP	28	57.00	-0.3
TAB	35.25	20	iP+	28	58.00	0.2
TEH	35.25	28	eP	29	00.00	2.2
EDC	35.28	354	iP	28	59.00	1.1
YLV	35.38	356	iP	28	57.90	-0.9
KGT	35.44	354	iP	29	04.00	4.8X
MEU	35.52	336	P	29	00.90	0.9
ISK	35.89	356	eP	29	03.60	0.6
LIT	35.89	347	ePc	29	02.70	-0.4
ITU	35.94	356	iPc	29	04.00	0.6
KVT	35.97	5	iP	29	03.90	0.1
CTT	36.02	355	iP	29	03.40	-0.7
HVD	36.09	190	iPc	29	20.50	15.5X
FAI	36.19	335	P	29	07.00	1.4
KEK	36.20	344	eP	29	06.00	0.4
ATN	36.22	337	ePc	29	06.00	0.1
			ePP	30	28.00	
THE	36.30	348	eP	29	05.50	-1.0
MNO	36.33	336	P	29	09.10	2.1
RDO	36.35	352	eP	29	07.00	0.1
MCT	36.50	335	iPc	29	10.50	2.1
PTS	36.55	332	P	29	10.00	1.4
GIB	36.65	336	P	29	10.80	1.3
SRS	36.65	349	eP	29	09.40	0.0
KIC	36.72	274	Pd	29	09.38	-1.0
			S	34	50.00	
DMK	36.75	355	iP	29	10.10	-0.2
KDZ	36.86	352	iPd	29	11.00	-0.2
CVT	36.91	334	P	29	13.00	1.4
TIC	36.99	274	P	29	12.26	-0.4
LIC	37.00	274	Pd	29	12.14	-0.6
RZN	37.01	351	iPd	29	13.00	0.3
VAY	37.05	348	iPc	29	13.70	1.0
			i	29	34.00	84kmX
MMB	37.08	350	iPc	29	12.00	-1.1
TDS	37.23	340	P	29	16.00	1.7
DIM	37.24	352	iP	29	14.00	-0.3

OHR	37.25	346	iPd	29	14.60	0.1	BDI	43.17	337	P	30	02.00	-1.5	KMR	45.47	343	iP-	30	21.70	-0.2
	2.6s	5073.00nm			6.8mb		CEY	43.30	342	ePd	30	04.50	0.0	ECHE	45.50	324	iPc	30	23.90	1.6
			i	29	18.80	14kmX	ESEL	43.42	327	eP	30	05.70	0.2	EROQ	45.52	326	iPc	30	23.20	0.8
			i	30	49.20		TRI	43.48	341	iPd	30	05.60	-0.3	TMA	45.55	337	ePc	30	21.20	-1.5
ERC	37.29	334	P	29	15.80	0.9				iPP	31	49.00		BHG	45.55	342	eP	30	21.60	-0.9
LCI	37.31	342	P	29	15.00	0.1				iPPP	32	29.90		APHE	45.58	319	iPd	30	24.03	1.0
LVI	37.36	334	P	29	16.00	0.6				iS	36	36.60		WATA	45.63	340	iPd	30	22.40	-0.9
PLD	37.42	351	iP	29	16.00	0.2				eSS	40	04.00			2.0s	3678.00nm			7.0mb	
KKB	37.47	349	iPd	29	16.00	-0.3	TAF	43.50	317	iPd	30	09.00	2.7X				ic	30	23.40	3kmX
JMB	37.51	353	iP	29	17.00	0.4				i	44	46.00					i	30	26.50	
ORI	37.55	340	P	29	18.00	1.0				i	45	20.00					i	32	10.00	
USI	37.61	335	P	29	19.00	1.6	LJU	43.54	342	ePd	30	06.00	-0.4				iPP	32	14.00	
LKO	37.67	279	Pd	29	17.60	-0.7				eS	36	20.00		SQTA	45.65	340	iPd	30	22.80	-0.7
	1.0s	771.50nm			6.5mb		BUD	43.69	347	ePd	30	08.50	1.0		2.2s	3532.00nm			6.9mb	
BKR	37.84	14	iPc	29	20.00	0.4	VOY	43.73	342	ePd	30	07.70	-0.3				ic	30	23.80	3kmX
			iS	35	24.00		PSZ	43.92	348	iP	30	11.00	1.5				i	30	26.80	
SKO	37.92	347	ePd	29	20.00	0.0	IMI	44.14	335	Pc	30	11.47	0.1				i	30	31.20	
	1.6s	2876.00nm			6.8mb		EMEL	44.15	318	iPc	30	13.10	1.7				i	31	05.80	
E	17s	980.00um					SRO	44.16	347	eP	30	11.60	0.3				i	31	35.70	
			ic	29	21.00	3kmX				i	31	30.20	400kmX				i	32	00.70	
			i	29	24.00					i	31	51.50					iPP	32	13.40	
			i	29	27.70					i	37	25.80					i	33	52.40	
			i	29	49.00		UZH	44.16	351	iPd	30	12.00	0.7	CRT	45.65	319	eP	30	25.36	1.8
			iPPd	30	59.00					iS	36	11.00		AFC	45.66	319	eP	30	24.90	1.2
			iS	35	16.00		BOB	44.21	337	P	30	10.00	-1.9	LSD	45.70	335	Pc	30	23.98	-0.1
MGR	37.93	339	Pd	29	20.00	-0.2	REVF	44.23	334	P	30	12.25	0.2	ACHM	45.76	319	iPd	30	25.36	1.0
PGB	37.94	350	iP	29	20.00	-0.3	FIN	44.25	335	Pc	30	12.09	-0.1	ATEJ	45.77	319	iPd	30	24.37	-0.2
BRT	38.04	342	P	29	21.40	0.3	LMR	44.28	333	eP	30	11.60	-0.8	EVIA	45.82	322	iPc	30	24.40	-0.5
VTS	38.15	349	iPc	29	22.00	-0.2		1.6s	2137.75nm			6.8mb		ASMO	45.85	319	iPd	30	25.63	0.5
BAI	38.37	341	Pc	29	24.30	0.5	SBF	44.30	334	eP	30	11.80	-0.8	MMK	45.86	337	ePc	30	23.80	-1.5
SGO	38.39	339	P	29	24.40	0.4		1.6s	1457.55nm			6.6mb		NKM	45.90	316	iPd	30	26.00	0.6
PVL	38.41	352	iPd	29	25.00	0.8	AURF	44.36	334	P	30	13.31	0.1	LPG	45.90	335	eP	30	24.10	-1.6
ULC	38.45	344	eP	29	26.00	1.5	PCP	44.38	336	Pc	30	12.50	-0.8		1.4s	1769.85nm			6.8mb	
PSN	38.56	355	iPc	29	26.00	0.6	CKI	44.40	336	P	30	12.00	-1.3	MAL	45.92	318	iP-	30	25.00	-0.6
BSS	38.77	339	P	29	27.70	0.4	FRF	44.40	333	eP	30	12.40	-1.0				iPP	32	18.00	
PVY	38.85	346	iPc	29	29.30	1.2		1.8s	3034.55nm			6.9mb		ALOJ	45.94	319	iPd	30	26.42	0.5
BDV	38.86	344	eP	29	28.50	0.5	AUTN	44.41	334	P	30	13.89	0.2	KRA	45.95	349	eP	30	24.30	-1.3
TTG	38.88	345	iPc	29	29.30	1.2	MVIF	44.45	334	P	30	14.46	0.5		1.2s	1120.00nm			6.7mb	
			eS	35	23.20		CALN	44.45	334	P	30	14.37	0.4	Z	12s	53.30um			6.7MszX	
HCY	39.10	344	eP	29	31.50	1.5	LRG	44.45	333	eP	30	13.00	-0.7	E	24s	242.10um				
NKY	39.30	345	eP	29	33.20	1.4		1.8s	3843.75nm			7.0mb					i	30	25.60	4kmX
BUC1	39.43	353	iPd	29	32.00	-0.7	ROB	44.46	335	Pc	30	14.03	0.1				i	30	28.60	
BUC	39.49	353	iPd	29	32.00	-1.2	SOP	44.47	345	iPd	30	15.80	1.9				i	30	33.10	
BRY	39.51	344	iPc	29	34.50	1.0	ACU	44.47	323	iPc	30	14.40	0.3				i	32	17.00	
DUI	39.66	339	P	29	35.20	0.4	CTI	44.48	340	P	30	19.00	4.8X				iS	37	11.00	
PLE	39.69	345	eP	29	36.20	1.2	TOUF	44.50	334	P	30	14.93	0.5	AAPN	46.06	319	iPd	30	26.73	-0.1
SIM	39.71	2	iPc	29	36.00	1.0	SAL	44.51	338	P	30	14.00	-0.2	DIX	46.10	336	ePc	30	25.70	-1.5
			iS	35	40.00		FVI	44.58	341	P	30	15.00	0.2	LLS	46.14	338	ePc	30	26.10	-1.3
MAIO	39.92	35	iPc+	29	36.80	-0.2	ENR	44.60	335	Pc	30	14.44	-0.6	AVE	46.24	312	iPd	30	29.00	0.8
			eS	35	56.00		ENIJ	44.63	320	iPc	30	16.10	0.7				i	46	44.00	
SDI	39.94	338	P	29	36.90	-0.1	STV	44.65	335	Pc	30	15.78	0.3	SAX	46.33	339	ePc	30	27.90	-1.2
DRA	40.00	351	eP	29	39.00	1.6	IFR	44.69	314	iPd	30	16.00	-0.1	OJEN	46.34	317	eP	30	32.00	3.0X
AZI	40.32	338	P	29	41.10	1.1				i	30	18.00	7kmX	EBAN	46.34	320	eP	30	28.60	-0.4
HVAR	40.37	342	iPc	29	40.90	0.5	ZST	44.81	346	eP	30	16.20	-0.4	FUR	46.45	341	eP	30	28.40	-1.3
			i	31	23.60	591kmX				i	30	17.20	3kmX				i	30	32.40	13kmX
RDP	40.39	337	P	29	41.90	1.2				i	32	06.50					i	32	25.00	
RMP	40.44	337	P	29	42.30	1.2				i	33	28.60		EJIF	46.48	317	iPc	30	29.90	-0.1
CMP	40.47	352	iPc	29	42.00	0.7	KBA	44.83	342	iPd	30	16.80	-0.3	PLAT	46.50	317	eP	30	36.00	5.8X
BRD	40.48	354	ePc	29	44.00	2.6X		1.5s	1624.00nm			6.7mb		KHC	46.60	343	iP	30	29.50	-1.4
MLR	40.57	353	iP	29	43.50	1.2				ic	30	18.00	4kmX		1.0s	378.00nm			6.4mb	
AQU	40.65	339	P	29	43.60	0.8				i	30	20.80		Z	16s	114.00um			6.9MszX	
BEO	40.85	347	iP	29	45.00	0.7				i	32	01.60		N	17s	132.00um				
VRI	40.86	354	ePd	29	45.00	0.5				iPP	32	04.60		E	19s	105.00um				
MNS	40.94	338	P	29	45.00	-0.2	DOI	44.89	335	P	30	16.00	-1.5				e	32	30.00	724kmX
TNR	40.95	352	ePc	29	46.00	0.8	MDI	44.95	338	P	30	16.00	-1.8				S	37	25.00	
PPE	41.12	355	eP	29	48.00	1.4	TIO	45.03	310	iPd	30	18.50	-0.4	EPRU	46.60	318	eP	30	31.20	0.2
BZS	41.37	349	eP	29	45.00	-3.6X	SPC	45.06	349	eP	30	17.80	-1.0	WET	46.82	343	iPd	30	31.60	-1.0
DEV	41.39	350	iPd	29	49.00	0.2				i(PP)	32	04.50					iS	37	20.00	
CLI	41.48	355	iPc	29	50.00	0.4	VKA	45.07	345	iPd	30	18.50	-0.2	CNIL	46.83	317	eP	30	31.00	-1.8
ASS	41.54	338	P	29	49.50	-0.7		4.3s	*******	nm		7.3mb X		ETOR	46.92	324	eP	30	33.80	0.2
TIM	41.56	348	eP	29	53.00	2.8X	Z	13s	117.00um			7.0MszX		HYB	46.99	71	iPd	30	33.40	-1.0
ARV	41.81	339	P	29	50.60	-1.7				ic	30	19.50	3kmX		1.2s	421.40nm			6.4mb	
BOM	41.94	67	iP	29	55.00	1.4				i	30	26.90					iS	37	28.00	
			eS	36	08.50					i	30	34.00		DSH	47.02	40	eP	30	34.00	-0.4
PTT	41.95	354	eP	29	55.00	1.6				i	30	43.00					eS	37	28.00	
IAS	42.10	355	eP	29	50.00	-4.6X				iPP	32	06.00		EPF	47.08	328	eP	30	33.90	-0.8
CRE	42.29	338	P	29	56.00	-0.3				i	32	10.00			1.6s	1263.20nm			6.7mb	
RSM	42.36	339	P	29	59.50	2.8X				iS	36	53.00		SLE	47.08	338	ePc	30	33.10	-1.5
PGF	42.56	335	eP	29	58.00	-0.6				i	36	59.00		EHOR	47.09	319	iPc	30	34.40	-0.4
	1.6s	1554.70nm			6.5mb					LR	57	27.00		PRU	47.11	345	Pd	30	33.20	-1.6
SFI	42.57	338	P	29	57.50	-1.0	ETER	45.26	329	iPc	30	20.40	0.1	Z	16s	224.50um			7.2MszX	
PGD	42.58	338	P	29	57.00	-1.8	GBA	45.41	76	P	30	21.00	-0.8				iPP	32	28.10	
POO	42.81	68	iP	30	03.00	2.1		1.9s	444.70nm			6.1mb					S	37	15.00	
VBY	42.84	343	ePd	30	01.40	0.8	OGA	45.41	340	eP	30	21.60	-0.1	BBS	47.20	337	P	30	35.25	-0.4
ZAG	42.91	343	iPd	30	01.70	0.5	RSP	45.41	335	Pc	30	20.60	-1.0	LBL	47.24	332	P	30	36.39	0.6
PII	42.91	337	P	30	00.00	-1.2	RRL	45.42	335	Pc	30	22.85	1.0	FEL	47.35	338	P	30	36.53	-0.4
PTJ	42.99	343	iP	30	03.10	1.1	EBR	45.47	326	iPd	30	23.00	1.0	LOMF	47.37	337	P	30	36.71	-0.3

20d 02h

JAU		47.46	328	P	30	38.69	0.8					i	30	54.10	30kmX	EKA		57.50	337	P	31	51.00	-1.4
KSP		47.46	346	ePd	30	36.00	-1.6					iPcP	32	12.40				2.3s	875.00nm			6.4mb	
		2.0s	3449.00nm			7.1mb						eS	37	48.00		BLS1		57.53	345	iP	31	53.00	0.3
				ic	30	37.10	4kmX					P'P'	01	38.00		SUF		57.64	357	iP	31	51.50	-1.8
				iPP	32	31.50		LSF		48.80	332	eP	30	47.30	-0.7			0.6s	155.50nm			6.2mb	
				iS	37	10.00				1.5s	1958.70nm			6.9mb		ESY		57.73	338	ePd	31	53.70	-0.3
LHE		47.51	327	P	30	38.60	0.4	EPLA		48.90	321	iPd	30	48.10	-0.9	EBL		57.78	337	ePd	31	53.70	-0.7
TOL		47.53	322	iPd	30	38.59	0.3	MBO		49.17	285	iPd	30	52.30	1.0			1.6s	811.00nm			6.5mb	
				e	30	41.24	9kmX					iPP	32	47.30		NB2		57.98	348	P	31	53.20	-2.5
				isPc	30	45.04						iS	36	49.30		ODD1		58.03	345	eP	32	03.00	6.9X
				iPcP	31	55.00		BRN		49.68	345	ePd	30	53.80	-0.8	EBH		58.31	338	ePd	31	57.40	-0.7
				iPP	32	36.20						ePP	32	51.00		VAL		58.33	331	iP	31	58.60	0.4
				iPcS	35	50.00						eS	38	02.00						S	39	58.00	
				iS	37	29.00		MFF		49.85	331	eP	30	55.00	-1.1	EDU		58.34	338	ePd	31	57.20	-1.1
CAF		47.57	331	eP	30	37.90	-0.7			1.7s	1723.20nm			6.8mb		ELO		58.55	338	ePd	31	58.70	-1.1
		1.4s	1055.10nm			6.7mb		OBN		49.96	3	iPc	30	56.20	-0.6			1.6s	828.00nm			6.6mb	
ESCF		47.60	328	P	30	38.75	0.0		Z	18s	150.00um			7.0Msz		EAB		58.58	337	ePd	31	59.10	-0.9
OGE		47.60	328	P	30	39.47	0.7					iS	38	08.00				2.2s	1920.00nm			6.8mb	
PLDF		47.63	333	P	30	38.37	-0.7	LIS		50.16	318	iPd	30	58.20	-0.4	BER		58.77	345	iP	32	01.00	-0.2
MOF		47.66	337	P	30	39.03	-0.3	MEM		50.35	339	Pd	30	58.70	-1.1	ASK		58.89	345	eP	32	03.00	1.0
ATE		47.67	327	P	30	39.32	0.0	PLH		50.39	339	ePd	30	59.90	-0.2	HYA		59.22	346	iP	32	06.00	1.7
STU		47.68	340	iPd-	30	37.50	-1.8	DOU		50.46	337	P	30	59.00	-1.7	SUE		59.49	345	eP	32	08.00	1.8
		3.0s	********	nm		7.4mb						e	33	08.00	778kmX	MOL		60.13	347	eP	32	09.59	-1.0
ISSF		47.68	327	P	30	40.01	0.5					S	37	58.00		LSA		60.66	59	P	32	13.50	-1.8
PYM		47.74	333	P	30	39.53	-0.4	ENN		50.51	339	ePd	31	00.00	-1.1			4.0s	2200.00nm			6.6mb	X
MADF		47.77	327	P	30	39.81	-0.4			1.7s	2000.00nm			6.8mb			Z	14s	35.60um			6.7MszX	
BSF		47.78	337	P	30	39.99	-0.3					ePP	33	00.00			N	16s	118.00um				
GRF		47.81	342	iPd	30	39.00	-1.3	JCK		50.55	339	ePd	31	00.20	-1.1		E	15s	31.30um				
	Z	16s	203.00um			7.2MszX		GGC		50.75	302	iPd	31	04.90	1.6					S	40	30.00	
				e	30	43.30	14kmX	ERUA		50.90	323	iPc	31	04.00	-0.2	PDA		61.66	310	iPd	32	22.00	0.6
				ePP	32	38.00		SNF		50.91	337	P	31	03.60	-0.5	WMQ		62.03	43	ePd	32	22.98	-0.9
				eS	37	37.00		UCC		51.12	338	P-	31	05.50	-0.2			5.0s	300.00nm			5.7mb	X
LPO		47.82	330	eP	30	39.70	-0.8					e	33	08.00	705kmX		E	20s	153.00um				
		1.5s	1591.45nm			6.9mb						SP	38	25.00						epPc	32	27.61	15kmX
BOH		47.85	327	P	30	41.29	0.4	WTS		51.22	340	ePd	31	05.50	-0.9					esPc	32	29.76	
ELYF		47.88	327	P	30	40.94	-0.1			1.6s	2000.00nm			6.8mb						PP	34	40.00	
AGO		47.91	333	P	30	40.74	-0.5					ePP	33	06.00						iS	40	48.00	
EVAL		47.95	318	iPc	30	42.10	0.5	LDF		51.28	333	eP	31	05.50	-1.5	SOD		62.26	358	iP	32	22.70	-2.2
ECH		47.95	338	P	30	41.12	-0.4			1.4s	1225.25nm			6.6mb						i	32	27.00	14kmX
STR		48.03	338	P	30	42.02	0.0	LPF		51.30	332	eP	31	06.00	-1.1	APA		62.33	1	iPc	32	24.40	-0.9
WLS		48.04	338	P	30	41.78	-0.5			1.6s	2040.55nm			6.8mb						iS	40	51.40	
SMF		48.05	334	eP	30	41.00	-1.3	CTFE		51.38	303	iPc	31	09.80	1.7	KTK1		64.07	356	iP	32	34.69	-2.1
		1.4s	1429.50nm			6.8mb		FLN		51.57	333	eP	31	07.40	-1.8	LOF		64.16	352	iPd	32	38.08	0.7
GUD		48.06	323	eP	30	42.60	0.0			1.6s	1894.80nm			6.8mb		KEV		64.63	358	eP	32	38.76	-1.6
CDF		48.07	338	P	30	41.45	-1.1	EMON		51.62	324	eP	31	07.90	-1.8			1.4s	600.50nm			6.6mb	
BRG		48.08	345	iPd	30	40.50	-1.9	EZAM		51.71	322	iPc	31	10.10	-0.3					e	32	41.58	9kmX
		3.0s	5800.00nm			7.1mb		DBN		51.87	339	iP-	31	11.00	-0.4					esPc	32	44.72	
				i	30	43.50	10kmX		Z	20s	170.00um			7.1Msz						ePP	35	07.07	
				i	30	49.20						iPP	33	16.00						e	35	12.00	
				iS	37	47.00						eS	38	42.00						e	36	36.00	
HAU		48.09	337	eP	30	41.00	-1.6					eSS	42	40.00						e	41	16.00	
		1.6s	1311.80nm			6.8mb		WIT		51.95	341	ePd	31	11.50	-0.5					e	42	28.00	
RJF		48.11	331	eP	30	42.00	-0.8	STS		52.03	323	iPc	31	12.60	-0.2	TRO		65.00	355	iP	32	42.84	0.0
		1.4s	1123.15nm			6.7mb		KSH		52.24	43	iPc	31	14.00	-0.6	BDT		66.41	74	eP	32	50.80	-1.9
HOF		48.16	343	eP	30	41.50	-1.6		E	18s	768.00um							1.1s	249.70nm			6.3mb	
LFF		48.22	330	eP	30	43.00	-0.6	TBT		52.83	302	iPc	31	20.00	1.0	CHG		66.41	72	iPd	32	51.10	-1.7
		1.6s	2040.55nm			6.9mb		BST		52.94	330	P	31	18.53	-0.9			1.1s	91.77nm			5.9mb	
LBF		48.25	334	eP	30	42.30	-1.6	FRU		53.09	38	iP	31	20.40	-0.4					eS	41	44.00	
		1.7s	1378.55nm			6.7mb		PUL		54.53	359	iPd	31	30.00	-0.9	CHTO		66.41	72	iPd	32	50.76	-2.0
MAF		48.30	333	eP	30	43.60	-0.6					iS	39	08.00						epPc	32	55.06	14kmX
		1.4s	1905.95nm			7.0mb		DMN		55.02	60	P	31	33.00	-2.5	NNT		67.05	79	eP	32	52.00	-4.9X
ECRI		48.34	326	iPc	30	44.70	0.0	PKI		55.27	60	P	31	34.40	-3.0X	NST		67.45	75	iPd	32	59.00	-0.4
AVF		48.38	334	eP	30	43.50	-1.3	NUR		55.55	356	iP	31	37.00	-1.3	SNG		68.06	84	eP	33	00.20	-3.1X
		1.6s	1749.05nm			6.9mb				1.8s	1375.20nm			6.7mb						eS	42	00.60	
VITF		48.41	337	P	30	44.52	-0.4					i	31	40.20	10kmX	IPM		68.60	87	ePc	33	06.10	-0.6
GWF		48.41	339	P	30	44.94	-0.1					e	33	44.00				1.2s	177.50nm			6.1mb	
BGF		48.43	333	eP	30	44.20	-1.0					e	34	48.00		LOE		69.02	73	eP	33	07.00	-2.1
		1.4s	816.85nm			6.6mb						e	39	20.00		GTA		69.56	50	iPd	33	11.40	-0.9
TCF		48.51	332	eP	30	45.30	-0.6	UPP		55.72	351	iPd	31	37.60	-2.0		Z	20s	174.00um			7.3Msz	
		1.4s	2178.25nm			7.0mb						i	31	41.70	13kmX		N	16s	169.00um				
SSF		48.52	334	eP	30	44.20	-1.7					iS	39	18.00						sP	33	21.00	
		1.5s	734.50nm			6.5mb		GUN		55.76	60	P	31	38.30	-2.6					PP	35	50.00	
LOR		48.53	334	eP	30	44.40	-1.6	YRH		56.32	334	iPc	31	43.70	-0.4					S	42	18.00	
		1.4s	987.00nm			6.7mb				1.8s	1395.00nm			6.7mb		AKU		69.85	340	iP	33	15.40	2.0
MOX		48.53	343	ePd-	30	44.00	-1.9	ECP		56.65	333	iPc	31	45.40	-1.0			2.9s	5000.00nm			7.1mb	
		2.0s	2475.00nm			6.9mb				1.8s	1323.00nm			6.7mb			Z	18s	137.46um			7.2Msz	
	Z	15s	208.30um			7.2MszX		HFS		56.66	349	eP	31	43.50	-2.9	KMI		70.28	65	iP-	33	16.00	-1.1
	N	14s	195.70um							2.2s	2556.30nm			6.9mb				2.5s	1.20nm			3.6mb	X
				e	30	48.00	13kmX		Z	17s	97.28um			7.0MszX			Z	26s	87.80um			6.9MszX	
				e	30	53.00						LR	53	09.00			N	16s	67.50um				
NDI		48.67	56	iPd	30	47.00	-0.3	ETA		56.92	333	iPc	31	47.90	-0.5		E	16s	13.60um				
		1.2s	203.13nm			6.0mb				1.9s	1418.00nm			6.7mb						pP	33	35.00	71kmX
				ePP	32	47.00		KONO		57.07	347	ePd	31	46.30	-3.1X					sP	33	47.00	
				iS	37	50.00						e	31	49.61	11kmX					PP	35	51.00	
CLL		48.73	344	iPd	30	45.00	-2.4					isPc	31	53.09						PPP	37	42.00	
		2.5s	2600.00nm			6.8mb						ePP	34	00.21						iS	42	28.00	
	Z	20s	250.00um			7.2Msz		BLS2		57.42	345	iPd	31	52.30	0.4					sS	43	05.00	

REY 70.36 338 iP 33 21.10 4.6X
JNW 70.66 347 iPc 33 21.90 3.7X
KGM 71.08 90 ePc 33 20.80 -1.1
e 34 08.20 199kmX
CD2 71.62 59 P 33 22.40 -2.5
Z 22s 112.00um 7.1Msz
N 23s 310.00um
S 42 39.00
LZH 72.22 54 iPd 33 28.10 -0.4
4.0s 6400.00nm 7.0mb X
N 18s 299.00um
E 19s 119.00um
epP 33 32.40 14kmX
esP 33 34.88
S 42 52.00
GYA 73.88 64 iPd 33 37.00 -1.3
4.0s 2700.00nm 6.6mb X
Z 28s 63.80um 6.8MszX
N 20s 292.00um
E 20s 114.00um
PcP 33 56.00
S 43 07.00
KBS 74.46 356 iP 33 41.00 0.4
IRK 75.08 37 eP 33 43.00 -1.7
eS 43 10.00
MAW 75.75 168 iPc+ 33 49.00 0.9
1.1s 231.00nm 6.2mb
Z 17s 100.00um 7.2MszX
XAN 76.20 56 P 33 50.00 -1.4
7.0s 2800.00nm 6.4mb X
N 18s 117.00um
E 18s 81.70um
QIZ 76.73 72 Pd 33 54.00 -0.6
N 18s 42.80um
E 18s 91.80um
S 43 42.00
BTO 77.48 50 iPd 33 59.00 0.5
N 15s 96.00um
E 15s 98.00um
sP 34 08.00
PP 36 56.00
iS 43 49.00
sS 44 00.00
HHC 78.67 50 iPd 34 06.00 1.0
6.0s 7900.00nm 6.9mb X
N 18s 38.30um
E 26s 198.00um
PP 37 10.00
S 44 06.00
SKS 44 10.00
TIY 79.21 53 iPd 34 07.50 -0.5
Z 20s 113.00um 7.2Msz
E 19s 210.00um
pP 34 16.00 27kmX
S 44 05.30
SKS 44 14.00
GZH 79.93 68 P 34 13.20 1.2
Z 21s 73.20um 7.0Msz
N 19s 134.00um
E 20s 127.00um
S 44 18.00
MCO 80.15 69 eP 34 17.40 4.2X
HKC 80.71 68 iP 34 17.10 0.9
WHN 80.71 60 eP 34 16.00 -0.1
Z 20s 76.50um 7.0Msz
E 16s 102.00um
pP 34 21.00 16kmX
PP 37 26.00
S 44 22.00
TRT 81.30 99 ePd 34 17.20 -2.2
0.9s 288.00nm 6.3mb
BAO 81.92 253 iPc 34 23.70 1.0
BJI 82.16 50 ePd 34 24.13 0.7
6.0s 840.00nm 6.0mb X
Z 16s 94.60um 7.3MszX
ipPc 34 28.77 15kmX
isPc 34 31.75
eS 44 41.00
TIA 82.95 54 Pd 34 27.60 -0.1
9.0s 5200.00nm 6.7mb X
N 17s 294.00um
E 17s 110.00um
pP 34 33.00 17kmX
S 44 48.00
NJ2 84.53 58 iPd 34 35.00 -0.7
5.0s 3600.00nm 6.9mb X
Z 18s 45.20um 6.9Msz

E 18s 159.00um
S 45 02.00
SS 50 35.00
HIA 84.59 41 iPd 34 35.98 0.3
ipPc 34 40.95 16kmX
isPc 34 43.26
ePP 37 55.68
QZH 84.65 66 Pd 34 37.00 0.6
4.0s 3600.00nm 7.0mb X
Z 20s 58.60um 7.0Msz
N 20s 135.00um
E 20s 112.00um
S 45 04.00
NANU 85.86 113 eP 34 42.20 -0.3
0.6s 39.00nm 5.8mb
DL2 86.42 51 Pd 34 45.00 0.0
5.0s 2300.00nm 6.6mb X
Z 30s 67.70um 6.9MszX
N 22s 227.00um
E 20s 48.50um
pP 34 52.00 22kmX
SSE 86.57 59 P 34 45.00 -0.9
6.0s 2330.00nm 6.6mb X
N 16s 173.00um
E 18s 168.00um
pP 34 50.00 16kmX
SKS 45 08.00
S 45 24.00
sS 45 30.00
BAG 87.08 74 ePd- 34 48.00 -0.8
2.0s 1317.65nm 6.8mb
eS 45 31.00
MRWA 87.12 120 eP 34 48.00 -0.6
0.7s 37.00nm 5.7mb
ANP 87.28 65 iP 34 52.00 2.5
eS 45 32.00
TIK 87.30 18 iPd 34 48.00 -0.6
eS 45 34.00
MUN 87.66 122 eP 34 51.00 -0.1
1.5s 4.00nm 4.5mb X
Z 20s 61.00um 7.0Msz
SNY 87.69 48 iPd 34 50.00 -1.1
7.0s 2700.00nm 6.7mb X
N 18s 314.00um
E 20s 171.00um
pP 34 57.50 23kmX
PP 38 23.00
isS 45 35.00
QCP 87.69 76 eP 34 42.00 -9.5X
MKS 87.81 95 iPd 34 53.00 0.9
BAL 87.91 121 eP 34 51.50 -0.9
CN2 88.88 46 Pd 34 55.00 -1.7
6.0s 3100.00nm 6.8mb X
N 17s 98.00um
E 17s 116.00um
pP 35 05.00 31kmX
PP 38 22.00
KLB 88.92 122 eP 34 57.50 0.3
SCH 90.98 325 eP 35 07.00 0.6
MDJ 91.73 45 iPd 35 09.70 -0.3
E 20s 175.00um
S 46 05.00
COOL 91.74 121 eP 35 09.70 -0.6
FDF 91.89 285 eP 35 13.00 1.7
PAG 92.27 286 eP 35 10.00 -3.0X
KUPT 92.32 100 eP 35 28.00 14.8X
1.5s 804.50nm
DAV 92.77 83 eP 35 14.00 -1.3
CBM 93.27 318 ePc 35 18.00 1.0
SIV 94.48 254 P 35 23.20 0.1
SPA 95.09 180 eP 35 27.10 2.0
0.9s 100.91nm 6.3mb
Z 20s 38.29um 6.9Msz
SHK 95.76 55 eP 35 28.00 -0.7
HRV 96.59 314 ePd 35 34.92 2.6
epPc 35 39.89 16kmX
MBC 97.09 353 eP 35 34.00 0.1
1.4s 58.00nm 6.0mb
TSRJ 98.22 53 P 35 41.80 2.0
PNJ 98.86 313 eP 35 45.30 2.8X
PP 39 49.40
S 45 11.90
LR 18 37.20
CCH 99.41 253 P 35 52.10 6.3X
MTMJ 99.43 52 eP 35 48.20 2.8X
MAT 99.75 52 P 35 50.00 3.2X
MAT 99.75 52 (P) 35 46.00 -0.8

1.2s 31.25nm 5.7mb
eS 47 19.00
YSS 100.07 41 ePdiff35 46.00 -1.9
iSKS 46 30.00
CHJJ 100.49 52 ePdiff35 49.80 -0.3
LPB 101.24 254 Pdiff 35 49.00 -5.4X
LR 03 31.00
ZOBO 101.26 254 Pdiff 35 55.00 0.3
WRA 103.18 109 Pdiffd36 04.80 2.3
1.3s 24.10nm 5.8mb
WB5 103.20 109 ePdiff36 02.00 -0.6
e 37 32.30
ePP 39 16.00
e 52 56.00
ARE 104.50 254 ePdiff36 10.00 1.3
FUQ 105.25 277 ePKP 40 30.00 3.3X
BOG 105.67 276 ePdiff36 14.00 -0.1
iPP 40 37.00
INK 106.05 355 ePdiff36 14.00 0.0
RSON 107.52 327 PKP 40 22.40 -7.1X
IMA 108.86 3 ePKP 40 35.20 3.5X
FFC 109.27 334 ePdiff36 28.00 -0.7
NNA 109.60 259 ePdiff36 38.00 6.9X
1.3s 28.85nm
Z 22s 22.22um 6.7Msz
e 41 00.00
FBA 110.16 360 PKP 40 33.90 -0.1
UPA 110.47 282 iPdiff36 36.00 1.0
Z 20s 33.69um 6.9Msz
i 41 07.00
GUMO 110.70 73 Pdiff 36 37.00 1.1
GUA 110.75 74 ePdiff36 37.50 1.3
Z 21s 46.61um 7.0Msz
SLM 111.26 315 PKP 40 48.00 11.1X
Z 19s 109.29um 7.5Msz
CCM 112.23 315 ePdiff36 43.88 1.6
ePP 41 16.51
PMR 113.48 1 e(PKP)40 42.20 1.8
Z 20s 51.00um 7.1Msz
SMY 114.00 24 PKP 40 52.00 10.3X
Z 18s 57.14um 7.2Msz
CTA 114.37 110 iPKPc 40 44.00 0.5
1.1s 46.84nm
e 41 27.00
iPP 41 44.00
iSKS 47 36.00
iSKKKS49 21.00
iPKKP 51 20.00
e 51 33.00
e 53 22.00
e 57 30.00
EDM 115.01 338 ePKP 40 45.00 1.3
RMQ 116.05 117 ePKP 40 51.00 4.5X
SES 116.25 335 ePKP 40 47.00 0.8
2.5s 1298.00nm
pP 41 49.00
UYO 116.29 312 e(PKP)40 47.20 0.5
SIT 117.19 352 PKP 40 59.00 11.3X
Z 19s 117.65um 7.5Msz
COO 118.11 122 e(PKP)40 51.00 0.6
SDN 118.85 8 PKP 41 02.00 11.2X
Z 18s 121.43um 7.6Msz
MEO 118.99 315 e(PKP)40 57.80 5.9X
BRS 119.46 119 ePKP 40 54.00 1.0
LRM 120.29 332 ePKP 40 54.80 0.5
NEW 120.41 337 ePKPc 40 53.00 -1.2
PNT 120.48 339 ePKP 40 55.00 0.8
1.2s 42.00nm
GLD 120.56 323 ePKPc 40 55.30 0.4
GMW 123.09 340 PKP 41 00.30 1.0
LON 123.43 339 PKP 41 00.60 0.6
DAU 123.60 327 PKP 41 01.60 0.7
ANMO 124.28 319 ePKP 41 03.17 0.9
0.9s 11.87nm
ePP 42 42.77
ALQ 124.28 319 ePKP 41 00.80 -1.5
Z 20s 141.84um 7.6Msz
MSZ 124.85 143 PKP 41 06.00 3.3X
OXX 124.89 295 ePKP 41 07.50 3.6X
MSU 125.43 326 PKP 41 05.50 1.1
IIJ 126.63 299 iPKP 41 10.20 2.6
CRX 126.70 299 (PKP) 41 08.70 1.2
III 126.90 297 ePKP 41 09.50 1.7
MRX 127.90 300 ePKP 41 11.50 2.2
KVN 128.15 331 iPKPc 41 09.80 0.2
TNP 128.45 329 ePKPc 41 11.00 0.8
MIN 128.73 334 ePKPc 41 10.80 0.2

20d 02h

			ePP	43	19.10	
WDC	128.93	335	iPKPc	41	11.10	0.4
			ePP	43	21.50	
FHC	129.33	337	ePKP	41	14.80	3.2X
ORV	129.33	334	iPKPc	41	12.20	0.7
CMB	130.05	332	ePKP	41	13.25	0.2
			ePP	43	20.25	
			e	43	34.60	
			eSKP	44	43.57	
GSC	130.31	326	ePKP	41	15.00	1.3
			e	43	23.00	
CLC	130.36	327	ePKP	41	15.00	1.3
			e	43	26.00	
FRI	130.55	330	ePKPc	41	15.00	1.1
			ePP	43	26.70	
TPC	130.76	325	ePKP	41	17.00	2.5
			e	43	09.00	
GLA	130.79	323	ePKP	41	15.00	0.4
			e	43	09.00	
MRW	130.90	143	ePKP	41	15.00	0.6
			SKP	44	40.00	
			SP	53	45.00	
			SS	01	03.00	
			SSS	01	05.00	
ISA	130.94	328	ePKP	41	18.00	3.2X
			e	43	32.00	
BKS	131.03	333	ePKP	41	14.80	0.0
			ePP	43	22.00	
			ePKS	44	40.40	
			ePPS	55	30.40	
			eSS	01	14.80	
			i	01	56.00	
			eSSS	05	52.00	
			e	09	41.20	
			eLQ	15	35.20	
BRK	131.05	333	ePKP	41	16.30	1.5
ARN	131.14	332	PKP	41	17.00	1.9
MHC	131.20	332	ePKP	41	16.50	1.2
Z	20s		40.00um			7.1Msz
N	20s		34.00um			
E	20s		30.00um			
			ePP	43	34.00	
			ePKS	44	50.00	
			eSKSP	53	45.00	
			ePPS	55	36.00	
			e	56	38.00	
			eSS	01	10.00	
			ePSPS	01	55.00	
			e(SSS)	06	11.00	
			eLQ	16	36.00	
			eLR	25	14.00	
SBB	131.33	327	ePKP	41	17.00	1.4
			e	43	10.00	
LLA	131.45	331	ePKP	41	17.70	2.0
SAO	131.57	331	ePKPc	41	24.00	8.1X
Z	37s		20.00um			6.6MszX
N	21s		20.00um			
E	31s		20.00um			
			e	42	16.00	
			ePP	43	29.00	
			ePKS	44	47.00	
			eSKSP	53	52.00	
			ePPS	55	36.00	
			ePPP	56	27.00	
			e	59	11.00	
			eSS	01	08.00	
			e	03	32.00	
			e(SSS)	06	13.00	
			e	07	00.00	
			e	09	43.00	
RVR	131.60	326	ePKP	41	17.00	1.0
			e	43	13.00	
GCC	131.62	332	ePKP	41	17.40	1.5
PRI	131.69	330	ePKP	41	18.30	2.0
PLM	131.77	325	ePKP	41	20.00	3.4X
			e	43	11.00	
MWC	131.80	326	ePKP	41	20.00	3.3X
			e	43	10.00	
PAS	131.92	326	ePKPd	41	17.74	1.1
			ePP	43	34.62	
			iSKP	44	47.19	
BAR	132.14	324	ePKP	41	19.00	1.9
			e	43	37.00	
HON	151.90	20	PKP	42	01.00	9.4X
HVO	154.53	17	ePKP	41	48.00	-7.5X
S.D. = 1.1			on 494 of 546 obs.			

MAY 20, 1990 02h 44m 03.17± 0.62s
29.436 N ± 8.1km 128.167 E ± 6.2km
DEPTH = 33.0km (normal)
5.0mb (5 obs.)
EAST CHINA SEA (234)

KAGJ	2.93	53	P	44	48.00	-0.5
KUMJ	3.84	36	P	45	01.40	0.0
SHNJ	5.30	27	eP	45	21.90	-0.2
SSE	6.26	287	P	45	33.50	-2.1
N	16s		30.20um			
E	16s		11.30um			
			pP	45	38.00	
TKSJ	6.76	46	eP	45	42.70	0.1
YONJ	7.28	37	eP	45	50.60	0.7
NJ2	8.43	290	Pd	46	08.00	2.1
			S	47	42.00	
QZH	9.63	245	P	46	24.00	1.5
DL2	10.88	332	eP	46	40.50	0.8
MAT	11.01	47	eP	46	42.00	0.6
	1.2s		32.81nm			5.4mb X
SNY	12.91	344	iPd	47	06.40	-0.5
BJI	14.44	320	eP	47	26.00	-1.1
	1.8s		190.00nm			5.3mb
BAG	14.72	210	eP	47	39.50	8.5X
QCP	16.12	205	eP	47	48.00	-0.9
QIZ	19.63	242	eP	48	36.20	4.2X
KEV	66.45	338	eP	54	51.00	0.0
			e	55	07.00	
SOD	67.46	336	iP	54	57.20	-0.2
			i	55	11.30	
SUF	69.50	331	eP	55	10.00	-0.1
NUR	71.09	329	iP	55	20.00	0.2
	0.7s		14.70nm			5.2mb
			i	55	32.40	
UPP	74.48	331	iP	55	39.70	0.0
HFS	75.97	332	eP	55	48.00	-0.2
	1.1s		12.60nm			4.8mb
NB2	76.43	333	P	55	50.60	-0.3
	0.8s		6.80nm			4.7mb
FFC	85.76	27	eP	56	47.00	6.9X
	0.8s		8.00nm			5.0mb
S.D. = 1.0			on 20 of 23 obs.			

? MAY 20, 1990 04h 54m 43.97± 1.20s
48.629 N ±46.5km 8.569 E ±24.3km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 3.0 (LDG).

CDF	0.89	256	Pn	55	01.40	0.4
			Sg	55	16.00	
BSF	1.43	237	Pn	55	10.40	0.3
			Pg	55	14.20	
			Sg	55	37.00	
HAU	1.61	248	Pn	55	11.80	-0.7
			Pg	55	16.00	
			Sg	55	39.60	
GRF	2.04	58	ePg	55	18.80	0.0
			eSg	55	41.40	
LOR	3.45	248	Pg	55	49.50	10.7X
			Sg	56	34.60	
LBF	3.50	244	Pg	55	51.60	12.0X
			Sg	56	38.00	
SSF	3.75	247	Pg	55	55.60	12.5X
			Sg	56	44.00	
SMF	3.76	240	Pg	55	56.40	13.1X
			Sg	56	46.60	
AVF	3.97	244	Pg	55	59.60	13.4X
			Sg	56	52.00	
BGF	4.39	244	Pg	56	08.00	15.8X
			Sg	57	06.00	
S.D. = 0.9			on 4 of 10 obs.			

---

* MAY 20, 1990 05h 19m 49.04± 2.53s
37.566 N ±21.1km 20.971 E ±24.9km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
ML 3.6 (ATH).

VLS	0.68	334	ePg	20	02.40	-0.1
ITM	0.85	117	ePg	20	05.50	0.0
VLI	1.78	118	ePg	20	23.70	3.6X
KEK	2.33	337	ePb	20	32.50	4.5X
OHR	3.54	358	ePn	20	45.00	-0.2
VAY	3.95	18	ePn	20	50.40	-0.5
SKO	4.42	5	ePn	20	58.50	0.9

S.D. = 0.8 on 5 of 7 obs.

? MAY 20, 1990 05h 27m 17.70±10.38s
44.279 N ±90.5km 10.883 E ±17.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BDI	0.30	224	Pd	27	24.00	0.0
			eSg	27	30.30	
PII	0.61	205	P	27	30.00	-0.1
			eSg	27	40.00	
PGD	0.73	123	P	27	32.00	-0.1
			eSg	27	45.00	
CRE	1.01	130	P	27	37.00	0.1
S.D. = 0.2			on 4 of 4 obs.			

MAY 20, 1990 05h 38m 32.45± 0.57s
15.458 N ± 6.5km 147.739 E ±10.9km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.34	235	eP	39	24.20	0.6
			eS	40	02.70	
GUMO	3.35	237	eP	39	23.30	-0.4
PJG	3.35	237	eP	39	23.50	-0.2
KAKJ	21.74	343	eP	43	23.40	0.5
IIDJ	21.80	338	eP	43	24.20	0.6
CHJJ	21.94	341	P	43	25.10	0.1
TSRJ	22.60	334	eP	43	33.70	2.3
MAT	22.65	340	eP	43	31.00	-1.0
	0.8s		8.21nm			4.3mb
MTMJ	22.83	339	P	43	33.20	-0.6
NIIJ	23.04	342	eP	43	36.20	0.4
WB5	37.50	201	eP	45	45.80	0.7
WRA	37.57	201	Pc	45	46.00	0.3
	0.6s		2.00nm			4.2mb
GUN	58.28	293	P	48	26.90	-0.1
PKI	58.70	293	P	48	29.40	-0.6
DMN	58.97	293	P	48	31.40	-0.4
	0.4s		6.00nm			5.1mb
INK	71.59	23	eP	49	52.00	-0.1
MBC	75.79	14	eP	50	17.00	0.6
	1.0s		2.00nm			4.1mb
SUF	89.87	337	iP	51	28.50	-0.7
APO	95.73	339	eP	51	54.80	-1.4
	0.7s		3.20nm			4.9mb
NB2	96.27	340	P	51	57.80	-0.9
	0.7s		1.00nm			4.4mb
KIC	145.17	306	PKP	58	09.30	0.0
TIC	145.21	307	PKP	58	09.30	0.0
LIC	145.48	307	PKP	58	10.10	0.3
S.D. = 0.8			on 23 of 23 obs.			

MAY 20, 1990 05h 47m 04.99± 0.27s
36.058 N ± 5.5km 100.130 E ± 3.9km
DEPTH = 15.0km (2 depth phases)
4.8mb (30 obs.)
QINGHAI PROVINCE, CHINA (325)
ML 4.5 (BJI).

LZH	3.01	88	Pn	47	55.50	2.4
			Pg	48	00.00	
			Sg	48	40.00	
GTA	3.36	356	iPnd	48	02.00	4.0X
			Pg	48	08.00	
			Sg	48	51.40	
CD2	5.96	148	Pn	48	37.40	2.6
XAN	7.49	103	Pn	48	53.50	-2.8
			Sg	51	00.00	
BTO	8.99	57	eP	49	17.00	-0.3
N	14s		1.40um			
E	14s		1.30um			
HHC	10.16	58	P	49	32.00	-1.4
GYA	11.08	148	P	49	46.40	0.4
WMQ	12.29	313	P	50	00.00	-2.2
BJI	13.26	68	eP	50	13.50	-1.5
TIA	13.74	84	eP	50	19.90	-1.6
GUN	14.56	240	P	50	31.10	-1.5
PKI	15.09	240	P	50	37.40	-2.2
DMN	15.28	241	P	50	39.50	-2.5
CHG	17.21	184	iPc	51	10.00	3.6X
	0.9s		31.09nm			4.4mb
QIZ	19.00	151	eP	51	30.00	1.4
SNY	19.10	65	Pc	51	28.80	-0.8
NDI	20.67	256	iPd	51	47.20	0.4
CN2	20.85	60	eP	51	48.60	0.1

AFIF	50.07	273	iPc	56 13.30	11.9X
SOD	50.99	331	eP	56 08.00	0.3
SUF	51.45	326	iP	56 11.50	0.3
NUR	52.43	323	eP	56 19.00	0.4
	0.5s	8.40nm		4.9mb	
UPP	55.99	323	iP	56 44.50	-0.2
HFS	57.82	324	eP	56 57.10	-0.6
	0.9s	12.10nm		4.9mb	
NB2	58.71	325	P	57 03.20	-0.8
	0.7s	4.50nm		4.7mb	
CLL	61.20	314	iP	57 21.40	0.2
			e	00 58.00	
GRF	62.89	313	iPc	57 33.60	1.1
	1.0s	16.00nm		5.1mb	
IMA	63.71	26	eP	57 37.70	-0.2
SQTA	63.95	311	iPc	57 39.70	0.0
	0.7s	7.20nm		5.0mb	
			e	57 44.00	14km
WB5	64.38	144	eP	57 41.60	-1.0
WRA	64.42	144	Pd	57 42.40	-0.4
	0.7s	4.80nm		4.8mb	
MBC	65.21	10	eP	57 47.00	-0.3
	0.7s	1.00nm		4.1mb	
CDF	65.79	313	eP	57 51.60	0.1
	0.7s	4.40nm		4.7mb	
BSF	66.34	313	eP	57 55.00	-0.1
	0.7s	4.40nm		4.7mb	
FBA	66.41	26	P	57 55.40	0.3
			pP	58 00.50	16km
HAU	66.53	313	eP	57 56.40	0.2
	0.7s	3.30nm		4.6mb	
PGF	67.48	307	iPc	58 03.00	0.6
	0.6s	10.80nm		5.2mb	
LPG	67.48	311	iPc	58 03.50	0.9
	0.7s	11.00nm		5.1mb	
LPL	67.48	311	iPc	58 03.40	0.9
	0.7s	8.25nm		5.0mb	
PMR	67.83	29	eP	58 03.50	-0.6
	0.7s	10.00nm		5.1mb	
SBF	67.85	309	iPc	58 04.80	0.2
	0.6s	12.65nm		5.3mb	
EKA	68.01	323	P	58 05.00	-0.3
	0.6s	2.00nm		4.5mb	
LOR	68.36	313	eP	58 07.40	-0.3
TOA	68.66	28	eP	58 10.00	0.6
SSF	68.67	313	eP	58 09.60	0.0
	0.7s	2.20nm		4.4mb	
SMF	68.68	313	iPc	58 09.50	-0.2
	0.7s	16.55nm		5.3mb	
LMR	68.69	309	eP	58 10.10	0.3
	0.6s	3.60nm		4.7mb	
AVF	68.90	313	iPc	58 11.00	0.0
	0.7s	11.00nm		5.1mb	
BGF	69.31	313	eP	58 13.60	0.0
	0.7s	4.40nm		4.7mb	
MAF	69.65	313	iPc	58 16.40	0.7
	0.8s	8.05nm		4.9mb	
TCF	69.83	313	iPc	58 17.30	0.5
	0.7s	5.50nm		4.8mb	
LDF	69.97	316	eP	58 17.60	0.1
LSF	70.25	313	eP	58 20.10	0.8
	0.8s	2.70nm		4.4mb	
RJF	70.76	312	eP	58 23.40	1.0
	0.7s	4.40nm		4.7mb	
MFF	71.05	314	iPc	58 24.60	0.5
	0.6s	7.20nm		5.0mb	
LPO	71.29	312	eP	58 26.40	0.8
LFF	71.42	312	eP	58 27.40	1.0
	0.5s	5.85nm		4.9mb	
EPF	72.70	311	eP	58 34.00	-0.1
TOL	77.20	310	eP	59 01.50	1.6
YKA	77.89	16	eP	59 02.70	-0.5
	0.6s	2.10nm		4.4mb	
PNT	87.97	25	eP	59 57.00	1.6
	0.6s	3.00nm		4.8mb	
BAO	145.07	297	ePKP	06 43.90	0.0

S.D. = 1.1 on 59 of 62 obs.

MAY 20, 1990 05h 57m 22.78± 0.42s
37.751 N ± 4.5km 20.849 E ± 3.3km
DEPTH = 10.0km (geophysicist)
4.5mb (6 obs.)

IONIAN SEA (399)

ML 4.1 (TTG), 4.0 (ATH).

VLS	0.47	334	eP	57 33.00	0.6
ITM	1.03	123	ePb	57 43.50	1.3
VLI	1.96	121	ePg	58 01.00	4.6X
KEK	2.12	338	ePn	58 00.00	1.2
ATH	2.28	84	ePb	58 02.80	1.8
NEO	2.42	49	ePn	58 03.00	-0.1
LIT	2.67	28	eP	58 07.90	1.3
FNA	3.06	8	eP	58 11.60	-0.4
PAIG	3.10	45	ePc	58 13.20	0.6
THE	3.31	29	eP	58 16.00	0.3
OHR	3.36	359	iPn	58 17.00	0.6
			iSg	59 03.20	
			Lg	59 07.00	
LCI	3.43	320	P	58 20.00	2.8
VAM	3.57	130	ePn	58 21.00	1.7
APE	3.79	99	ePb	58 28.00	5.5X
VAY	3.81	20	iPn	58 23.50	0.8
SRS	3.98	31	eP	58 26.10	1.0
TDS	4.01	300	P	58 27.00	1.4
			eSn	59 12.00	
ORI	4.14	305	P	58 29.70	2.3
			eSn	59 14.50	
BRT	4.21	319	P	58 29.80	1.4
SKO	4.24	6	iPn	58 29.70	0.9
ATN	4.28	277	Pc	58 29.40	0.0
			eSn	59 17.50	
ULC	4.38	344	ePn	58 31.00	0.1
			eSn	59 20.00	
BAI	4.56	319	P	58 34.50	1.1
SMG	4.75	89	ePn	58 36.00	-0.1
MEU	4.76	264	Pc	58 34.90	-1.4
MGR	4.77	302	P	58 36.80	0.4
			eSn	59 31.00	
BDV	4.79	342	ePn	58 36.00	-0.6
			eSn	59 28.20	
TTG	4.83	346	ePn	58 36.80	-0.4
			eSn	59 29.20	
MNO	4.88	274	P	58 37.70	-0.4
PVY	4.88	352	ePn	58 39.50	1.4
			eSn	59 34.00	
RDO	4.97	45	ePn	58 38.00	-1.1
HCY	5.03	340	ePn	58 39.00	-0.9
			eSn	59 34.00	
IZM	5.10	81	eP	58 41.60	0.5
SGO	5.14	305	P	58 42.00	0.4
			eSn	59 40.00	
NKY	5.25	345	ePn	58 43.00	-0.3
			eSn	59 42.00	
GIB	5.40	275	P	58 45.00	-0.5
BRY	5.44	342	ePn	58 44.50	-1.4
			eSn	59 45.00	
BSS	5.59	305	P	58 49.70	1.8
FAI	5.72	267	P	58 49.50	-0.4
DUI	6.29	310	P	59 01.00	3.1X
HVAR	6.37	330	iPn	58 57.90	-1.1
SDI	6.71	308	P	59 04.00	0.2
BEO	7.07	358	eP	59 07.00	-1.7
AZI	7.10	309	P	59 10.00	0.8
KSL	7.18	100	ePn	59 10.00	-0.4
ELL	7.29	95	eP	59 15.00	2.9X
MNS	7.79	309	P	59 20.00	1.1
BZS	7.88	4	ePc	59 18.00	-2.1
ASS	8.20	313	P	59 27.50	2.9X
ARV	8.31	316	P	59 26.60	0.4
MLR	8.62	25	eP	59 31.00	0.4
VBY	8.80	333	ePn	59 33.00	0.1
			eSn	01 06.90	
PTJ	8.92	337	e(P)	59 31.50	-3.2X
CRE	8.95	314	P	59 36.00	0.9
SFI	9.19	315	P	59 38.30	0.1
CEY	9.31	331	eP	59 38.40	-1.6
			eS	01 21.00	
LJU	9.53	332	eP	59 41.50	-1.4
			eS	01 26.00	
TRI	9.55	329	eP	59 39.10	-4.1X
			i	00 24.40	
VOY	9.76	330	eP	59 44.70	-1.5
			eS	01 28.80	
FVI	10.67	328	P	59 59.00	0.5
CTI	10.75	323	P	59 59.50	-0.4
SQTA	11.83	326	eP	00 15.00	0.4
			i(S)	02 18.00	
			i	02 23.50	
KHC	12.53	337	eP	00 23.40	-0.5
			e	00 38.60	
GRF	13.80	333	eP	00 49.10	B.4X
			e	00 50.40	
DOU	16.97	322	P	01 35.20	13.6X
UPP	22.22	356	iP	02 18.80	-1.9
HFS	22.86	351	eP	02 24.60	-2.5
	0.4s	8.80nm		4.6mb	
NUR	22.91	5	iP	02 27.20	-0.3
	0.6s	9.10nm		4.5mb	
EKA	23.93	325	Pc	02 36.50	-0.9
	0.8s	10.50nm		4.5mb	
NB2	24.09	348	P	02 38.70	-0.3
	0.7s	7.00nm		4.4mb	
SUF	25.21	6	iP	02 49.00	-0.7
	0.6s	6.30nm		4.5mb	
KIC	38.95	223	P	04 49.60	-1.1
LIC	39.22	223	P	04 51.90	-1.1
DMN	54.09	81	P	06 46.50	-3.7X
	0.5s	11.00nm		5.1mb	
PKI	54.34	81	P	06 48.60	-3.6X
GUN	54.55	80	P	06 49.80	-4.0X
CHTO	69.49	82	P	08 30.90	-2.8

S.D. = 1.2 on 65 of 77 obs.

? MAY 20, 1990 06h 04m 00.49± 4.58s
19.188 S ±22.0km 177.904 W ±29.2km
DEPTH = 596.3 ± 50.7 km
4.5mb (4 obs.)

FIJI ISLANDS REGION (181)

DZM	14.93	256	iPd	07 08.00	0.0
BRS	28.09	248	iP	09 08.10	0.4
CTA	33.73	262	iPd	09 56.00	0.5
	0.9s	58.82nm		5.2mb	
PMG	35.16	281	eP	10 08.00	0.7
QIS	39.90	261	eP	10 45.30	-0.7
WB5	44.87	261	iPd	11 24.20	-0.7
WRA	44.88	261	Pd	11 24.20	-0.8
	0.4s	6.50nm		4.5mb	
MTN	49.25	269	iPc	11 57.30	-0.7
MAT	69.21	323	eP	14 10.00	-0.3
	0.7s	6.85nm		4.3mb	
SPA	70.93	180	iPc	14 20.60	0.5
	0.9s	15.00nm		4.5mb	
FBA	86.95	12	P	15 43.90	0.2
CHTO	89.88	290	P	16 00.40	2.2
NB2	137.69	353	PKP	22 10.30	-8.5X
	0.6s	0.50nm			
EKA	143.70	5	PKPd	22 28.10	-1.4
	0.6s	3.70nm			
KSP	146.47	344	iPKP	22 38.10	3.9X
CLL	146.81	347	iPKP	22 38.30	3.6X
	0.9s	10.00nm			
PRU	147.70	345	ePKP	22 41.00	4.8X
KHC	148.73	345	PKP	22 44.00	6.1X
FLN	150.42	3	ePKP	22 46.70	6.3X
	0.6s	6.30nm			
CDF	150.55	353	ePKP	22 47.40	6.7X
	0.5s	2.20nm			
LDF	150.61	3	ePKP	22 47.10	6.4X
	0.4s	1.70nm			
HAU	151.05	354	ePKP	22 48.50	7.1X
	0.5s	2.90nm			
LPF	151.12	4	ePKP	22 48.60	7.2X
	0.4s	6.85nm			
BSF	151.17	353	ePKP	22 48.60	6.9X
	0.5s	2.20nm			
LDR	151.96	357	ePKP	22 50.60	7.9X
	0.6s	2.70nm			
SSF	152.18	358	ePKP	22 51.20	8.2X
	0.7s	2.75nm			
LBF	152.23	357	ePKP	22 51.20	8.0X
AVF	152.45	358	ePKP	22 52.10	8.7X
MFF	152.60	3	ePKP	22 51.70	8.1X
TCF	152.97	360	ePKP	22 52.60	8.4X
LSF	153.01	1	ePKP	22 52.40	8.2X
	0.7s	2.20nm			

S.D. = 1.1 on 13 of 31 obs.

---

* MAY 20, 1990 06h 41m 23.48± 0.75s
4.541 N ± 9.6km 32.179 E ±11.7km
DEPTH = 10.0km (geophysicist)
4.6mb (15 obs.)

SUDAN (557)

LWI	7.53	207	iPc	43 15.50	-0.8
AAE	7.91	55	eP	43 23.00	1.3
LKO	37.79	280	P	48 44.70	2.6
MLR	41.15	353	eP	49 10.00	0.3
ZST	45.37	346	eP	49 43.30	-0.5
SPC	45.63	349	eP	49 45.20	-0.8
LPG	46.44	335	eP	49 52.30	-0.3

20d 06h

0.7s 3.30nm 4.5mb
KHC 47.16 343 iP 49 57.70 -0.3
1.0s 10.50nm 4.9mb
CAF 48.09 331 eP 50 05.90 0.6
LPO 48.34 331 eP 50 07.80 0.6
GRF 48.36 342 eP 50 06.50 -0.8
0.8s 6.00nm 4.7mb
SMF 48.58 334 eP 50 08.80 -0.3
0.8s 6.70nm 4.7mb
RJF 48.63 331 eP 50 10.00 0.6
LBF 48.79 335 eP 50 10.30 -0.4
0.9s 4.90nm 4.5mb
MAF 48.83 333 eP 50 11.70 0.8
1.0s 12.00nm 4.9mb
AVF 48.91 334 eP 50 11.40 -0.1
0.8s 5.35nm 4.6mb
BGF 48.96 333 eP 50 11.40 -0.5
0.7s 3.30nm 4.5mb
TCF 49.04 333 eP 50 13.20 0.6
0.9s 9.85nm 4.8mb
SSF 49.05 334 eP 50 12.30 -0.3
0.8s 2.70nm 4.3mb
LOR 49.06 335 eP 50 12.60 -0.1
0.8s 5.35nm 4.6mb
LSF 49.32 332 eP 50 15.10 0.3
0.8s 5.35nm 4.6mb
HFS 57.23 349 eP 51 12.10 -1.0
0.8s 3.40nm 4.4mb
EKA 58.05 337 P 51 19.00 0.1
1.0s 3.70nm 4.4mb
NB2 58.55 348 P 51 20.90 -1.5
0.8s 3.10nm 4.4mb
S.D. = 0.9 on 24 of 24 obs.

MAY 20, 1990 06h 43m 45.38± 0.16s
43.874 N ± 3.7km 147.623 E ± 2.8km
DEPTH = 17.9km (7 depth phases)
5.7mb (82 obs.) 4.8Msz (5 obs.)
KURIL ISLANDS (221)
Felt (V) on Shikotan and (III)
ot Goryochiy Klyuchi, Kurilsk
and Yuzhno-Kurilsk.

MAT 10.26 228 iPc 46 14.70 -0.1
0.9s 137.82nm 6.3mb
eS 47 58.00
MDJ 12.95 280 iPc 46 53.50 2.3
Z 30s 7.54um
N 11s 1.87um
pP 47 03.40
S 49 15.00
SHK 14.86 236 eP 47 17.00 0.8
CN2 16.00 277 Pd 47 30.00 -1.0
1.0s 100.00nm 4.9mb
Z 24s 4.30um
N 11s 1.60um
E 11s 1.50um
pP 47 37.00
SNY 17.74 272 Pc 47 52.60 -0.3
1.0s 100.00nm 4.9mb
Z 28s 4.10um
S 51 10.00
sS 51 18.00
SMY 19.62 54 e(P) 48 18.30 2.7
DL2 20.09 265 Pd 48 21.80 1.2
3.0s 1100.00nm 5.7mb
N 10s 1.40um
S 51 56.00
BJI 23.62 272 eP 48 56.50 0.5
4.0s 570.00nm 5.5mb X
Z 32s 4.54um 4.7MszX
N 10s 0.82um
eS 53 00.00
SSE 24.43 247 P 49 06.00 2.0
Z 18s 0.90um 4.3Msz
N 13s 1.90um
E 14s 1.60um
sP 49 19.50
PP 49 42.00
S 53 20.00
sS 53 32.00
TIA 24.47 262 P 49 05.60 1.3
1.3s 200.00nm 5.6mb
eS 53 19.00
NJ2 25.44 252 Pd 49 14.60 1.0
Z 20s 0.70um 4.2Msz
N 15s 1.90um

E 13s 1.30um
S 53 36.00
HHC 26.68 276 P 49 26.90 1.7
1.0s 100.00nm 5.4mb
Z 16s 3.40um 5.0MszX
N 10s 0.70um
E 10s 0.90um
eS 53 55.00
TIY 27.20 269 eP 49 31.00 1.1
Z 34s 3.00um 4.6MszX
N 14s 1.40um
pP 49 36.00 18km
sP 49 47.00
S 54 11.50
BTO 27.88 276 P 49 37.00 0.9
N 12s 0.90um
E 12s 1.30um
pP 49 40.50 12km
S 54 15.00
WHN 29.44 254 Pc 49 50.00 -0.1
Z 24s 1.40um 4.5MszX
N 14s 1.90um
E 10s 0.60um
XAN 31.41 265 P 50 09.50 2.0
sP 50 23.00
LZH 34.11 272 iPc 50 32.00 0.8
1.5s 190.00nm 5.8mb
Z 16s 1.60um 4.8MszX
N 10s 0.70um
S 55 50.00
GZH 34.96 245 eP 50 39.30 0.9
GTA 35.61 280 iPc 50 44.80 0.8
1.4s 80.00nm 5.4mb
E 11s 0.72um
S 56 13.00
CD2 36.76 264 iPc 50 53.80 0.2
0.8s 100.00nm 5.7mb
S 56 29.50
TTA 37.12 39 iPc 50 58.00 1.7
GYA 37.28 256 iPc 50 58.20 0.1
S 56 36.60
PcS 57 03.80
IMA 38.39 34 iPc 51 08.60 1.6
KDC 38.97 48 eP 51 12.00 0.3
QIZ 40.13 244 eP 51 20.00 -1.8
N 14s 1.30um
E 14s 1.50um
eS 57 25.00
PMR 40.34 41 ePd 51 24.30 1.3
0.8s 30.80nm 5.1mb
FBA 40.79 36 eP 51 28.60 1.8
KMI 40.88 258 Pc 51 29.00 0.8
2.0s 200.00nm 5.5mb
pP 51 39.00 34kmX
sP 51 45.00
PP 53 09.00
S 57 34.00
TOA 41.69 40 eP 51 36.30 2.0
WMQ 42.37 292 iPc 51 41.20 1.2
4.0s 1400.00nm 6.0mb X
Z 18s 3.50um 5.3Msz
iS 57 56.00
INK 46.12 30 iPc 52 11.00 1.2
0.4s 96.00nm 6.1mb
LSA 46.53 272 P 52 14.40 0.3
eS 58 56.00
CHG 47.65 254 iPc 52 23.20 0.7
1.0s 38.50nm 5.4mb
MBC 48.59 19 eP 52 28.50 -0.6
0.3s 7.00nm 5.2mb
NNT 51.46 248 eP 52 52.00 0.2
KSH 52.16 291 P 52 58.00 1.0
N 10s 0.90um
S 00 17.00
PMG 53.03 181 eP 53 02.00 -1.4
HVO 53.19 98 eP 53 06.90 2.0
KBS 54.73 350 iP 53 14.50 -0.8
NDI 57.12 280 iPc 53 32.60 -0.6
0.6s 83.33nm 5.9mb
eS 01 20.00
MTN 58.42 199 iPc 53 41.20 -1.0
0.9s 100.00nm 5.9mb
e 53 59.00 68kmX
e 54 03.00
KEV 58.72 339 iP 53 42.20 -1.6
0.6s 27.40nm 5.5mb
PNT 60.04 49 ePc 53 53.00 -0.2

0.5s 9.00nm 5.2mb
SOD 60.48 338 iP 53 54.00 -2.0
TRO 60.75 342 iP 53 56.00 -1.7
EDM 61.08 43 iPc 54 00.10 -0.2
NEW 61.99 49 eP 54 07.00 0.4
0.9s 43.86nm 5.6mb
HYB 63.12 269 iPc 54 13.00 -1.4
1.0s 90.00nm 5.9mb
e 54 32.50 75kmX
WDC 63.31 58 eP 54 15.70 0.4
QUE 63.45 287 iPc 54 15.90 -0.7
eS 04 17.00
CTA 63.66 181 iPd 54 16.10 -1.5
1.0s 25.00nm 5.3mb
i 54 38.80 89kmX
SES 63.92 44 ePc 54 19.00 -0.2
0.6s 26.00nm 5.6mb
SUF 63.96 334 iP 54 18.00 -1.2
0.5s 57.80nm 6.0mb
MIN 64.03 58 eP 54 20.00 -0.3
QIS 64.53 188 iPd 54 21.30 -2.1
0.7s 9.00nm 5.0mb
e 54 41.80 79kmX
ORV 64.56 59 eP 54 22.90 -0.7
WB5 64.59 194 eP 54 21.90 -1.9
i 54 44.50 88kmX
WRA 64.66 194 Pc 54 22.90 -1.3
0.8s 37.50nm 5.6mb
MAIO 64.78 297 iPc 54 25.00 -0.1
0.8s 16.11nm 5.2mb
eS 03 03.00
FFC 65.40 37 iPc 54 28.80 0.1
0.6s 51.00nm 5.9mb
MHC 65.81 61 eP 54 31.70 -0.1
LRM 66.01 49 iPc 54 33.20 0.1
NUR 66.08 333 iP 54 31.00 -1.9
0.8s 70.40nm 5.9mb
CMB 66.18 60 ePc 54 34.10 0.1
GBA 66.44 266 Pc 54 33.80 -2.0
1.0s 32.30nm 5.4mb
LLA 66.70 61 eP 54 37.20 -0.1
KVN 66.96 58 P 54 39.40 0.2
pP 54 47.20 25km
PRI 67.17 61 eP 54 40.70 0.3
FRI 67.24 60 eP 54 40.60 -0.1
DZM 67.86 161 iPc 54 45.40 0.7
TNP 68.11 58 iP 54 46.90 0.5
0.7s 22.56nm 5.4mb
pP 54 54.00 23km
KOD 68.68 264 eP 54 50.00 -0.3
UPP 68.80 336 iPc 54 48.40 -1.6
ISA 68.85 61 eP 54 51.00 0.1
CLC 69.31 60 eP 54 54.00 0.3
NB2 69.61 339 P 54 53.70 -1.4
HFS 69.71 337 eP 54 54.30 -1.3
0.4s 90.60nm 6.3mb
Z 18s 0.71um 5.0Msz
LR 21 49.00
SBB 69.88 61 eP 54 57.00 -0.2
RMQ 70.02 179 eP 54 58.00 0.2
e 55 20.00 84kmX
MWC 70.03 62 eP 54 58.00 -0.3
GSC 70.13 60 eP 54 58.00 -0.7
AKU 70.22 354 iPc 54 59.90 1.4
1.0s 64.00nm 5.7mb
RVR 70.61 61 eP 55 01.00 -0.6
PEC 70.81 61 eP 55 01.90 -0.9
0.7s 5.81nm 4.8mb
BRS 71.07 175 iP 55 05.00 0.8
i 55 26.50 82kmX
PLM 71.35 62 eP 55 05.00 -1.3
TPC 71.38 60 eP 55 06.00 -0.3
ASK 71.57 341 iP 55 06.90 0.1
BER 71.63 341 iPc 55 07.00 -0.2
RSSD 71.62 46 eP 55 07.40 -0.4
RSON 71.68 36 eP 55 06.10 -1.6
1.0s 81.34nm 5.8mb
TAB 71.81 305 eP 55 09.00 0.1
BAR 71.91 62 eP 55 09.00 -0.4
REY 72.01 355 iP 55 10.30 0.9
BLS1 72.15 340 iP 55 10.50 0.0
GLA 72.84 61 eP 55 15.00 0.1
SLY 73.95 304 iPd 55 21.50 0.3
i 55 55.50 137kmX
eS 04 46.50
GLD 74.01 50 eP 55 22.70 0.9
1.2s 74.75nm 5.6mb

COO	74.19	176	eP	55	24.00	1.5
MSL	74.81	306	iPd	55	27.00	0.7
			eS	04	56.50	
KVT	75.46	313	iP	55	31.00	1.0
KRA	75.93	328	iPc	55	32.40	0.0
	0.8s	141.00nm				6.1mb
Z	18s	1.20um				5.2Msz
			i	55	51.10	69kmX
BHD	76 21	303	iPd	55	35.00	0.8
			eS	05	13.00	
			eScS	05	44.00	
CFR	76.31	321	eP	55	34.00	-0.6
BRN	76.35	333	iPc	55	35.50	0.8
KAS	76.43	315	iPc	55	37.10	1.6
SPC	76.52	328	iP	55	36.60	0.6
KSP	76.63	331	iPc	55	36.40	0.1
	0.9s	69.00nm				5.7mb
ANMO	76.65	54	eP	55	37.90	0.9
	1.1s	9.49nm				4.8mb
			pP	55	44.30	21km
ALQ	76.65	54	ePc	55	37.20	0.2
	1.0s	14.00nm				5.0mb
MLR	77.07	322	iPc	55	39.00	0.0
CLL	77.36	333	iPc	55	40.10	-0.2
	1.2s	130.00nm				5.9mb
			eS	05	22.00	
BRG	77.41	332	iPc	55	40.30	-0.3
	2.0s	110.00nm				5.6mb
			eS	05	24.00	
SCH	77.42	20	eP	55	40.00	-0.6
TNR	77.68	323	ePc	55	43.00	0.8
BWA	77.93	179	eP	55	45.20	1.7
PRU	77.96	331	Pc	55	44.00	0.4
	1.0s	65.00nm				5.6mb
Z	17s	1.30um				5.3MszX
WIT	78.00	337	eP	55	45.00	1.2
BBTK	78.08	314	iPc	55	44.00	-0.6
EKA	78.10	343	P	55	44.00	-0.4
	1.3s	75.80nm				5.6mb
BUD	78.38	327	iP	55	47.20	1.2
SRO	78.38	328	eP	55	45.70	-0.3
			i	55	47.00	4kmX
MOX	78.38	333	ePc+	55	45.00	-1.0
	1.1s	71.00nm				5.6mb
			e	55	48.50	11km
ZST	78.53	329	iPc	55	47.70	0.9
HOF	78.58	333	iPc	55	47.00	-0.1
	1.0s	69.00nm				5.7mb
WTS	78.68	337	eP	55	47.50	-0.1
	1.0s	97.00nm				5.8mb
VKA	78.76	329	eP	55	48.00	-0.1
	2.6s	310.00nm				5.9mb
			e	56	04.00	57kmX
			i	56	06.10	
			e	56	52.00	
CAN	78.83	179	eP	55	50.60	2.1
GPA	78.99	316	eP	55	48.00	-1.5
KHC	79.02	331	iPc	55	50.00	0.5
	1.0s	57.00nm				5.6mb
PVL	79.12	321	iPd	55	50.00	-0.1
JMB	79.13	320	eP	55	50.00	-0.2
SOP	79.16	329	iPc	55	52.60	2.3
WET	79.25	332	iPc	55	51.10	0.3
	1.0s	101.00nm				5.8mb
GRF	79.34	333	iPc	55	51.80	0.6
	1.4s	215.00nm				6.0mb
			e	56	11.10	71kmX
KMR	79.73	330	iP+	55	54.00	0.6
TNS	79.76	335	ePc	55	53.10	-0.5
DIM	79.94	320	eP	55	56.00	1.4
BEO	79.97	325	eP	55	53.50	-1.1
ALT	80.02	315	eP	55	55.80	0.6
ENN	80.03	336	iPc	55	54.80	-0.1
	1.0s	74.00nm				5.6mb
MEM	80.15	336	iPc	55	54.30	-1.2
PGB	80.17	321	iPc	55	57.00	1.1
KDZ	80.31	320	eP	55	57.00	0.4
UCC	80.45	337	P	55	57.00	-0.1
BHG	80.46	331	iPc	55	57.90	0.6
	1.1s	82.00nm				5.7mb
VTS	80.57	322	iPc	55	59.00	0.9
RZN	80.60	320	iPd	55	58.00	-0.4
FUR	80.63	332	eP	55	58.60	0.4
	1.0s	102.00nm				5.8mb
SNF	80.73	337	P	55	58.50	-0.1
MJMA	80.77	297	ePc	55	58.80	-0.6
KBA	80.85	330	iPc	55	59.40	-0.1
	1.0s	99.30nm				5.8mb
			i	56	04.40	16km
KHL	80.88	315	iP	55	59.90	0.2
BCK	80.98	314	iP	55	59.40	-0.9
DOU	81.01	337	P	56	00.00	-0.1
LFK	81.05	311	iP	56	01.50	0.8
GWF	81.11	335	P	56	00.46	-0.3
MMB	81.13	321	ePc	56	02.00	1.0
ETA	81.20	344	eP	56	01.20	0.1
	0.8s	66.00nm				5.7mb
KKB	81.20	321	eP	56	01.00	-0.3
WATA	81.25	331	iPc	56	01.80	0.2
	1.0s	86.80nm				5.7mb
MEO	81.25	50	iPc	56	02.00	0.3
EZN	81.30	318	iP	56	02.00	0.2
FVI	81.46	330	P	56	03.00	0.5
SQTA	81.47	332	iPc	56	02.90	0.1
	0.8s	43.00nm				5.5mb
WLS	81.69	335	P	56	03.81	0.0
CDF	81.72	335	P	56	03.47	-0.5
ECP	81.72	344	eP	56	04.20	0.5
	0.8s	134.00nm				6.0mb
OGA	81.84	332	iPc	56	05.00	0.2
	0.8s	68.00nm				5.8mb
SKO	81.85	323	iPc	56	05.00	0.4
N	21s	1.04um				
E	21s	1.03um				
			i	56	22.00	61kmX
			i	06	13.00	
TRI	81.86	329	iPc	56	03.50	-1.1
VAY	81.87	321	iPc	56	05.30	0.6
ELL	81.88	314	eP	56	05.10	0.1
ECH	81.93	335	P	56	04.81	-0.2
FEL	81.96	334	P	56	05.00	-0.3
SALJ	82.26	307	Pd	56	07.00	0.0
MOF	82.26	334	P	56	06.52	-0.3
VITF	82.29	335	P	56	06.44	-0.3
CTI	82.33	331	Pc	56	06.50	-0.7
CSTJ	82.33	306	Pc	56	07.10	-0.3
HAU	82.37	335	iPc	56	07.20	-0.1
	1.0s	52.00nm				5.6mb
KFNJ	82.37	307	Pc	56	07.40	-0.1
BSF	82.38	335	iPc	56	07.10	-0.4
	1.0s	28.00nm				5.3mb
BBS	82.48	334	P	56	07.60	-0.3
VAL	82.66	346	iP	56	08.80	0.1
LOMF	82.80	334	P	56	09.40	-0.2
FNA	82.84	322	ePc	56	09.40	-0.5
LIT	82.88	321	eP	56	07.40	-2.7
LISJ	82.94	307	Pd	56	08.60	-1.8
SAL	83.11	331	P	56	11.00	-0.1
MDI	83.24	332	P	56	11.00	-0.7
FLN	83.60	339	iPc	56	13.70	0.2
	0.6s	30.65nm				5.7mb
LDF	83.66	339	iPc	56	13.80	-0.1
LOR	83.77	336	iPc	56	14.30	-0.2
	0.8s	37.60nm				5.7mb
PRNI	83.88	307	eP	56	16.00	0.7
LBF	83.99	336	iPc	56	15.40	-0.3
	0.8s	29.55nm				5.6mb
ARV	84.05	329	P	56	16.50	0.5
SSF	84.06	336	iPc	56	15.90	-0.1
	0.8s	43.00nm				5.7mb
SFI	84.09	330	Pd	56	17.00	0.9
PGD	84.18	330	Pd	56	17.50	0.7
BOB	84.21	331	P	56	17.00	0.1
CBM	84.22	24	eP	56	16.70	0.0
CRE	84.31	329	Pd	56	17.90	0.5
SMF	84.34	336	iPc	56	17.40	0.0
AVF	84.35	336	iPc	56	17.60	0.2
	0.9s	58.95nm				5.8mb
MBH	84.37	306	eP	56	16.00	-1.8
LSD	84.37	333	P	56	17.96	0.1
LPF	84.41	339	iPc	56	18.30	0.6
	1.0s	108.00nm				6.0mb
BDI	84.42	330	P	56	17.50	-0.4
LPG	84.47	334	iPc	56	19.10	0.7
	0.7s	39.70nm				5.8mb
ASS	84.52	329	P	56	18.50	0.1
RSP	84.61	333	P	56	17.96	-0.9
HQL	84.64	306	ePc	56	19.00	-0.1
LCI	84.70	324	P	56	18.50	-0.7
BGF	84.71	336	iPc	56	19.50	0.3
PCP	84.72	332	P	56	18.89	-0.5
PII	84.75	330	P	56	18.50	-0.9
BNI	84.89	333	Pc	56	21.00	0.7
CKI	84.91	332	Pc	56	19.50	-0.8
RRL	84.97	333	P	56	21.35	0.5
PLDF	85.02	336	P	56	20.66	-0.2
DUI	85.03	327	Pd	56	21.00	0.0
AGO	85.09	336	P	56	21.77	0.6
MAF	85.10	336	iPc	56	22.10	0.9
MNS	85.10	328	P	56	20.50	-0.8
FIN	85.13	332	P	56	19.60	-1.8
KMSA	85.13	294	ePc	56	22.00	0.2
TCF	85.14	337	iPc	56	21.80	0.4
	0.8s	30.90nm				5.6mb
AZI	85.15	328	Pc	56	21.50	0.1
ROB	85.17	332	P	56	20.73	-0.9
DOI	85.19	333	P	56	20.00	-1.8
BADA	85.22	305	ePc	56	22.30	0.3
SDI	85.24	327	P	56	21.50	-0.5
LSF	85.37	337	iPc	56	22.90	0.4
ENR	85.38	333	P	56	20.85	-1.9
STV	85.39	333	P	56	20.83	-2.0
PYM	85.40	336	P	56	23.14	0.4
IMI	85.50	332	P	56	22.78	-0.5
MFF	85.50	338	iPc	56	23.90	0.7
	0.8s	61.80nm				5.9mb
ORI	85.56	325	P	56	24.00	0.4
SGO	85.62	326	P	56	23.50	-0.3
BSS	85.63	326	P	56	23.50	-0.4
RDP	85.63	328	P	56	23.50	-0.4
SBF	85.69	332	iPc	56	23.80	-0.5
	0.9s	45.85nm				5.7mb
LBL	85.80	336	P	56	25.52	0.9
MGR	85.87	325	Pd	56	24.00	-1.1
TDS	85.95	324	P	56	25.00	-0.5
FRF	86.23	333	iPc	56	26.40	-0.4
	0.8s	21.50nm				5.4mb
RJF	86.24	337	iPc	56	27.40	0.5
	1.0s	56.00nm				5.7mb
PGF	86.31	331	iPc	56	27.00	-0.4
	0.9s	19.65nm				5.3mb
LRG	86.42	333	iPc	56	27.60	-0.1
	0.9s	75.35nm				5.9mb
CAF	86.42	336	iPc	56	28.80	1.0
	1.0s	76.00nm				5.9mb
LMR	86.47	333	iPc	56	27.80	-0.2
	1.0s	88.00nm				5.9mb
LFF	86.79	337	iPc	56	30.00	0.4
	0.8s	45.65nm				5.8mb
LPO	86.90	337	iPc	56	30.60	0.5
	0.9s	49.15nm				5.7mb
RSCP	87.30	41	eP	56	32.20	0.0
	1.2s	67.06nm				5.8mb
PNJ	87.61	30	iP	56	35.10	1.6
BLA	88.29	36	eP	56	37.90	0.9
	0.9s	19.33nm				5.4mb
EPF	88.66	337	iPc	56	38.40	-0.3
	0.8s	12.10nm				5.3mb
EBR	90.65	336	eP	56	48.00	0.1
TIC	123.96	327	PKPd	02	43.50	-0.9
KIC	124.11	326	PKPd	02	43.80	-0.9
	0.8s	9.50nm				
LIC	124.35	326	PKPd	02	44.00	-1.1
SLR	128.16	269	iPKPc	02	50.00	-2.3
	0.9s	26.89nm				
KSR	129.24	270	ePKP	02	52.00	-2.4
PRY	129.45	269	ePKP	02	53.20	-1.6
ZOBO	139.11	59	PKP	03	04.00	-9.8X
LPB	139.33	59	PKP	03	10.00	-4.0X
CCH	141.18	58	ePKP	03	10.00	-7.1X
SIV	143.06	50	PKP	03	15.20	-4.9X
LNV	148.31	85	iPKPd	03	31.40	3.2X
PEL	148.42	83	iPKPd	03	32.50	3.9X
	0.7s	17.12nm				
TACH	148.50	84	iPKPd	03	32.60	4.0X
SAN	148.60	84	ePKP	03	32.50	3.7X
PCH	148.79	84	iPKPd	03	33.50	4.3X
FCH	148.80	83	iPKPd	03	34.00	4.5X
CHCH	148.85	85	ePKP	03	33.00	3.8X
BAO	148.87	30	ePKP	03	34.20	4.4X
RTCB	148.88	79	ePKPd	03	33.90	4.5X
RTLL	149.03	78	ePKPd	03	33.00	3.4X
CFA	149.35	79	ePKPd	03	34.50	4.4X

S.D. = 0.9 on 266 of 281 obs.

MAY 20, 1990 07h 32m 37.27± 0.12s
18.102 S ± 5.1km 175.130 W ± 2.8km
DEPTH = 232.2km (geophysicist)
5.9mb (49 obs.)
TONGA ISLANDS (173)
mb 6.2 (PAS), 6.1 (BRK). Depth

20d 07h

```
       from broadband displacement
       seismograms.
       FAULT PLANE SOLUTION: P-Waves
        NP1:Strike= 20 Dip=67 Slip=-110
        NP2:         243     30        -51
        Principal Axes:
         T                 Plg=20  Azm=125
         P                     63      258
       Comment: The focal mechanism is
         poorly controlled and
         corresponds to normal faulting
         with a moderate strike-slip
         component. The preferred fault
         plane is NP1.
       MOMENT TENSOR SOLUTION
       Dep 242              No. of sta: 11
       Moment Tensor;    Scale 10**18 Nm
         Mrr=-1.43          Mtt= 2.09
         Mff=-0.66          Mrt=-0.41
         Mrf=-1.82          Mtf= 1.51
        Principal axes:
         T  Val=  3.07  Plg=16  Azm=151
         N       -0.07      39       48
         P       -2.99      47      258
       Best Double Couple:Mo=3.0*10**18
        NP1:Strike=281 Dip=45 Slip= -28
        NP2:           32     71     -131
       CENTROID, MOMENT TENSOR    (HRV)
       Data Used: GDSN
       L.P.B.: 10S, 24C
       Centroid Location:
       Origin Time          07:32:46.1 0.5
       Lat 18.10S 0.05 Lon 175.42W 0.04
       Dep 246.7 2.1 Half-duration  4.9
       Moment Tensor;    Scale 10**18 Nm
         Mrr=-0.99 0.07  Mtt= 0.34 0.12
         Mff= 0.64 0.13  Mrt=-0.36 0.09
         Mrf=-2.07 0.09  Mtf= 1.54 0.09
        Principal Axes:
         T  Val=  2.91  Plg=26  Azm=124
         N       -0.39      29       19
         P       -2.53      50      249
       Best Double Couple:Mo=2.7*10**18
        NP1:Strike=260 Dip=32 Slip= -25
        NP2:           12     77     -119

TVI     4.83 283 iPc    33 54.00   2.9
AFI     5.27  38 P      33 51.00  -5.6X
                 e(S)   34 36.00
KRO     5.28 278 ePc    33 58.70   2.0
NDE     5.51 285 ePc    34 02.40   2.7
OVA     5.81 273 eP     34 05.90   2.6
VUN     6.10 270 ePc    34 10.00   3.1X
SVA     6.10 269 ePc    34 10.00   3.1X
SGE     6.64 273 ePc    34 16.80   2.9
NDF     7.07 272 iP     34 24.00   4.6X
RAR    14.79 105 P      35 52.00  -5.0X
PVC    15.76 269 iPd    36 10.50   1.7
DZM    17.75 254 iPc    36 28.70  -2.2
HBZ    20.26 195 P      36 57.00   0.7
                 S      40 26.50
AFR    24.14  93 iP     37 32.20  -1.6
PAE    24.32  93 iP     37 34.20  -1.2
PPT    24.33  93 iP     37 34.40  -1.1
       1.3s  1210.00nm          6.3mb
PPN    24.47  93 iP     37 35.70  -1.1
TBI    24.55 107 iP     37 38.00   0.4
       1.5s   990.00nm          6.2mb
TVO    24.62  93 iP     37 37.10  -1.2
WEL    24.68 198 P      37 35.00  -3.6X
                 S      41 42.00
                 ScP    44 25.00
HNR    25.67 286 eP     37 42.00  -5.8X
PMO    26.28  87 iP     37 52.20  -1.1
       1.3s  1100.00nm          6.4mb
VAH    26.49  88 iP     37 53.70  -1.5
       1.3s   550.00nm          6.1mb
                 ipP    38 43.10 257kmX
TPT    26.54  87 iP     37 54.50  -1.2
       1.3s  1100.00nm          6.4mb
                 ipP    38 43.80 256kmX
RUV    26.73  88 iP     37 56.00  -1.4
       1.3s   660.00nm          6.1mb
                 ipP    38 45.40 256kmX
COO    32.39 241 iPc    38 46.30  -1.0
                 e      44 53.60
RMQ    34.35 249 iPd    39 03.00  -1.1

           0.7s   308.00nm            6.0mb
                        e     39 13.00   35kmX
CNB        35.81 234 eP       39 15.70  -0.7
           0.3s   105.00nm            5.9mb
CAN        36.10 234 eP       39 17.10  -1.6
BWA        36.27 236 eP       39 16.80  -3.4X
CTA        36.49 261 iPd-     39 19.80  -2.4
           1.0s   535.00nm            6.1mb
                     i        40 10.30 241kmX
                     i        40 37.00
                     iS       44 42.00
                     iScP     45 08.20
                     iScS     49 16.00
CTAO       36.49 261 iPd      39 20.60  -1.6
           1.0s   535.00nm            6.1mb
                     epPd     40 09.76 233kmX
                     esPc     40 36.41
                     iS       44 42.00
                     iScP     45 08.20
                     iScS     49 16.00
PMG        37.58 278 iPd-     39 30.00  -1.3
           0.9s   705.88nm            6.2mb
CMS        37.66 242 eP       39 30.00  -1.9
RKT        37.83 105 iP       39 33.40   0.1
           1.2s   185.00nm            5.5mb
QLP        38.39 250 iPd      39 36.30  -1.6
LAT        38.61 282 eP       39 40.00   0.1
TOO        39.50 232 iPc      39 45.90  -1.0
           0.4s   126.00nm            5.8mb
MCQ        41.42 203 eP       40 04.00   1.6
BFD        41.63 234 eP       40 03.00  -1.4
QIS        42.68 259 eP       40 10.30  -2.8X
                     e        44 38.20
ADE        44.17 238 iPd      40 23.10  -1.9
           1.2s   625.00nm            5.9mb
WB5        47.64 259 iPd      40 49.00  -3.3X
                     e        40 53.70   16kmX
WRA        47.66 259 Pd       40 50.80  -1.6
           1.0s   345.60nm            5.7mb
GUA        50.42 306 eP       41 12.70  -0.8
           0.8s   519.40nm            6.0mb
GUMO       50.48 306 eP       41 11.80  -2.1
           1.2s   850.00nm            6.1mb
PJG        50.48 306 eP       41 12.00  -1.9
MTN        51.91 268 iPd      41 21.90  -2.8X
                     e        41 54.00 138kmX
                     e        48 24.00
FORR       52.71 245 eP       41 38.00   7.7X
           0.4s   136.00nm            5.8mb
AAI        57.24 277 ePd      42 01.30  -1.8
COOL       58.69 244 iPc      42 09.90  -3.1X
           0.3s    16.00nm            5.2mb
KLB        61.53 243 eP       42 29.40  -2.8X
           0.5s    87.00nm            5.7mb
BAL        62.52 244 eP       42 36.00  -2.7X
           0.4s    47.00nm            5.6mb
MUN        62.81 243 eP       42 38.40  -2.2
           0.7s   124.00nm            5.8mb
DAV        63.63 288 eP-      42 44.00  -2.1
NANU       64.66 253 iPd      42 50.80  -1.9
MKS        65.03 273 iPd      42 55.00  -0.1
ADK        69.70 359 ePc      43 21.00  -2.4
MAJO       69.96 321 iPd      43 24.10  -1.3
                     isPc     44 43.72
MAT        69.96 321 iPd-     43 23.40  -2.0
           1.0s   430.00nm            6.1mb
         Z  20s     1.06um            5.1Msz
                     iS       52 13.00
TRT        70.81 268 iPc      43 28.40  -2.6X
           1.1s   554.40nm            6.2mb
KKM        71.82 283 ePd      43 35.50  -1.5
           0.8s   194.40nm            5.9mb
BAG        71.98 295 eP       43 36.00  -2.0
SPA        72.01 180 iPd      43 37.80   0.4
           0.9s   261.36nm            6.0mb
                     e        44 34.20 240kmX
SHK        72.12 317 eP       43 37.10  -1.2
SYP        74.07  45 eP       43 50.00   0.2
                     e        44 45.00 233kmX
SDN        74.20   9 eP       43 48.40  -1.4
GCC        74.25  42 eP       43 51.20   0.7
                     epP      44 45.90 232kmX
PCC        74.29  41 eP       43 51.40   0.6
                     epP      44 46.10 232kmX
BCH        74.38  44 eP       43 52.30   0.8
                     pP       44 47.10 232kmX
SAO        74.44  42 eP       43 52.10   0.4

PRI        74.57  43 eP       43 53.70   1.1
BRK        74.60  41 eP       43 53.40   0.9
                     epP      44 47.90 230kmX
BKS        74.62  41 ePd      43 52.80   0.1
           1.2s   206.00nm            5.7mb
                     epP      44 44.00 215kmX
                     eS       53 13.60
                     esS      54 10.80
MHC        74.66  42 eP       43 54.10   1.0
                     epP      44 48.80 231kmX
LLA        74.67  43 eP       43 53.90   0.9
                     epP      44 48.60 231kmX
PAS        75.08  46 eP       43 54.00  -1.4
                     ePP      46 25.00
                     eS       53 17.00
                     eScS     53 58.00
                     eSS      58 16.00
                     eLR      04 09.00
MWC        75.20  46 eP       43 56.00  -0.3
                     e        44 51.00 232kmX
BAR        75.31  48 eP       43 57.00   0.3
                     e        44 51.00 228kmX
RVR        75.54  47 eP       43 58.00   0.0
                     e        44 53.00 232kmX
PLM        75.54  47 eP       43 58.00  -0.2
                     e        44 52.00 228kmX
SBB        75.62  46 eP       43 58.00  -0.5
                     e        44 50.00 218kmX
PEC        75.63  47 eP       43 58.60   0.1
           1.2s     8.82nm            4.4mb X
                     pP       44 52.70 228kmX
FRI        75.69  43 eP       43 59.30   0.6
                     epP      44 54.20 232kmX
ISA        75.73  45 eP       43 59.00  -0.1
                     e        44 53.00 227kmX
CMB        75.87  42 ePd      43 59.42  -0.4
                     ipPc     44 50.73 215kmX
ORV        76.10  40 eP       44 01.40   0.4
                     epP      44 56.30 231kmX
WDC        76.11  39 eP       44 01.70   0.7
                     epP      44 56.80 232kmX
CLC        76.41  45 eP       44 03.00   0.2
                     e        44 58.00 232kmX
TPC        76.52  47 eP       44 04.00   0.5
                     e        44 57.00 222kmX
GSC        76.65  46 eP       44 03.00  -1.2
                     e        44 56.00 222kmX
GLA        76.82  49 eP       44 06.00   0.9
                     e        45 01.00 231kmX
QZH        77.42 302 Pd       44 07.00  -1.5
           4.0s  4500.00nm            6.6mb X
                     sP       45 30.00
                     S        53 40.00
KDC        77.87  12 eP       44 09.30  -1.0
KVN        77.92  42 iP       44 11.20  -0.1
                     pP       45 05.60 227kmX
TNP        77.93  43 iP       44 11.90   0.5
           1.0s    54.00nm            5.2mb
                     pP       45 07.00 231kmX
SSE        78.29 308 P        44 12.00  -1.2
           6.0s  1600.00nm            5.9mb X
         Z  22s     1.40um            5.2Msz
         E  12s     0.50um
                     sP       45 32.00
                     S        53 50.00
HKC        79.94 297 iP       44 23.50   1.3
MDJ        80.17 323 Pd       44 23.40   0.5
           5.0s  4500.00nm            6.5mb X
                     PcP      44 30.00
                     sP       45 43.00
                     sS       55 45.00
SVW        80.48   9 eP       44 23.00  -1.3
NJ2        80.49 308 iPd      44 25.00   0.1
           6.0s  2600.00nm            6.1mb X
                     S        54 15.00
PGC        80.80  32 eP       44 26.00   0.0
           0.8s    67.00nm            5.4mb
GZH        80.96 298 Pd       44 27.90   0.4
           5.0s  5000.00nm            6.5mb X
                     sP       45 50.00
                     S        54 19.20
DL2        81.90 315 Pd       44 32.00   0.0
           6.0s  3200.00nm            6.2mb X
         Z  28s     1.50um            5.2MszX
SIT        81.92  21 eP       44 31.20  -0.5
PMR        82.09  12 eP       44 31.10  -1.4
           1.3s   179.20nm            5.6mb
```

```
                     i       44 32.20    4kmX
                     i       45 31.00
CN2       82.11 321 Pd      44 32.40   -0.6
          5.0s  3900.00nm              6.4mb X
                     S       54 30.00
SNY       82.17 319 iPd     44 33.00   -0.4
          6.0s  4000.00nm              6.3mb X
                     sP      45 53.00
                     PP      47 39.00
                     iS      54 32.00
QIZ       82.39 293 Pd      44 35.00    0.0
          6.0s  2800.00nm              6.2mb X
                     sP      45 59.00
                     S       54 35.00
KGM       82.60 275 ePc     44 36.10   -0.1
          1.0s   476.70nm              6.2mb
PNT       83.17  33 eP      44 38.00   -0.4
          0.9s   116.00nm              5.6mb
WHN       83.25 305 Pd      44 40.00    0.9
          5.0s  3200.00nm              6.3mb X
                     sP      46 02.00
                     eS      54 38.00
PV09      83.56  46 eP      44 42.90    1.9
                     pP      45 38.20 228kmX
TIA       83.70 311 eP      44 40.60   -0.7
          6.5s  2600.00nm              6.1mb X
                     sP      46 00.00
                     S       54 44.00
ALQ       83.79  50 eP      44 42.00   -0.1
          1.0s    25.00nm              4.9mb
                     epP     45 37.00 227kmX
ANMO      83.80  50 ePd     44 42.99    0.9
          1.0s    25.00nm              4.9mb
                     ipPc    45 35.97 218kmX
NEW       83.86  35 eP      44 41.10   -0.8
          1.0s    44.50nm              5.2mb
                     pP      45 38.60 238kmX
KLM       84.52 275 eP      44 46.00    0.1
MAW       84.72 199 iPc-    44 41.00   -4.9X
          1.0s   121.00nm              5.6mb
LRM       85.15  39 iPc     44 49.40    0.7
COL       85.35  11 iPd     44 48.15   -0.8
                     ipPc    45 41.67 220kmX
FBA       85.35  11 iPd     44 47.30   -1.6
IMA       85.46   9 eP      44 48.70   -0.9
          1.5s   291.70nm              5.9mb
                     e       45 47.80 245kmX
                     id      45 49.50
IPM       85.57 276 ePd     44 52.30    1.2
BJI       86.13 314 iPd     44 53.63    0.4
          4.0s  3600.00nm              6.6mb X
       Z  24s      1.27um              5.2MszX
                     ePP     45 48.00
                     esPc    46 13.36
                     eSKS    54 56.00
                     eS      55 11.00
SNG       86.78 279 eP      44 58.20    1.3
          0.9s   253.78nm              6.1mb
                     eS      56 52.80
GLD       86.84  46 eP      44 57.90    1.0
          1.0s    32.00nm              5.1mb
                     pP      45 54.90 235kmX
TIY       87.73 311 iPc     45 01.70    0.6
          6.0s  3000.00nm              6.3mb X
                     sP      46 25.50
                     PP      48 27.50
                     sS      56 59.00
GYA       87.86 299 iPd     45 03.00    1.0
          3.0s  3200.00nm              6.6mb
                     SKS     55 10.00
                     sS      57 00.00
SES       88.35  35 eP      45 03.00   -0.8
          1.1s   242.00nm              6.0mb
                     pP      45 59.00 229kmX
HIA       88.35 324 iPd     45 03.75    0.0
                     e       46 06.49 260kmX
                     esPc    46 25.03
HIA       88.35 324 iPd     45 04.03    0.3
EDM       88.64  32 eP      45 04.00   -1.0
XAN       88.87 306 P       45 07.00    0.4
          7.0s  2800.00nm              6.3mb X
       N  10s      0.40um
LOE       89.05 289 eP      45 09.00    1.4
RSSD      89.56  43 iP      45 10.00    0.2
                     pP      46 04.30 221kmX
MEO       89.61  53 iPc     45 10.00    0.0
HHC       89.65 313 P       45 10.40    0.3
```

```
          4.0s  3400.00nm              6.6mb X
       Z  15s      1.80um              5.6MszX
                     sP      46 31.00
NST       89.93 286 eP      45 13.80    2.1
BTO       90.63 313 iPd     45 16.00    1.4
          6.0s  2000.00nm              6.2mb X
       N  14s      0.50um
       E  14s      0.40um
                     SKS     55 25.00
KMI       90.71 296 Pd      45 17.00    1.6
       Z  24s      1.90um              5.4MszX
LNV       90.91 126 iPd     45 17.50    1.5
                     e       46 12.50 224kmX
INK       91.28  14 eP      45 16.00   -0.8
          0.9s    93.00nm              5.8mb
                     pP      46 16.00 246kmX
TACH      91.39 126 eP      45 20.00    1.7
BDT       91.46 288 eP      45 19.00    0.3
          0.7s   111.30nm              6.0mb
CHCH      91.50 126 eP      45 20.00    1.2
SAN       91.68 126 eP      45 21.00    1.4
PCH       91.72 126 eP      45 21.00    1.1
PEL       91.78 126 iPd     45 22.00    1.9
          1.0s    35.00nm              5.3mb
                     i       46 17.00 224kmX
CD2       91.81 302 eP      45 20.60    0.4
          6.0s  1500.00nm              6.2mb X
                     SKS     55 31.00
CHG       92.00 289 iPd     45 21.80    0.6
          1.0s    98.50nm              5.8mb
                     eS      55 36.00
CHTO      92.00 289 iPd     45 21.74    0.5
CHTO      92.00 289 iPd     45 22.01    0.8
                     esPc    46 43.95
FCH       92.01 126 eP      45 23.00    1.4
UYO       92.57  55 iPd     45 24.50    1.0
LZH       93.49 307 iPd     45 27.93    0.0
          6.0s  1130.00nm              6.1mb X
       Z  40s      2.20um              5.3MszX
                     sP      46 50.00
                     PP      49 14.00
                     SKS     55 40.00
                     eS      56 20.00
NNA       94.04 104 eP      45 35.00    4.2X
          1.3s    21.15nm              5.1mb
FFC       95.26  34 ePc     45 35.10   -0.3
          1.9s   116.00nm              5.8mb
OLY       95.33  55 eP      45 35.50   -0.7
                     ipP     46 33.00 235kmX
GTA       97.57 309 P       45 46.60    0.2
          2.0s   210.00nm              6.1mb
                     SKS     56 01.50
RSON      98.57  39 eP      45 49.20   -1.2
          1.0s     7.05nm              5.0mb
                     pP      46 47.00 236kmX
MBC       99.89  12 eP      45 54.00   -2.0
                     pP      46 56.00 255kmX
LPB      100.36 111 ePdiff46 00.00    0.1
ZOBO     100.44 111 Pdiff   46 04.00    3.5X
                     i       47 03.00
SIV      106.76 113 ePKP    50 52.20   14.9X
GBA      110.44 278 PKPd    50 44.50    0.3
          0.3s     1.30nm
POO      114.91 282 ePKP    50 50.00   -2.8X
KSH      115.71 306 PKP     50 54.00    0.2
       E  13s      2.10um
                     ePP     51 55.00
KEV      126.60 351 ePKP    50 54.00  -19.6X
          1.1s    91.20nm
                     i       51 31.60
SOD      128.80 349 iPKP    51 17.30   -0.5
MAIO     128.82 302 iPKPd   51 18.80   -0.2
                     i       52 21.00
                     i       53 27.00
AKU      130.07  12 ePKP    51 20.30    0.0
          1.2s    50.00nm
                     e       52 24.50
NUR      135.33 346 ePKP    51 13.00  -17.4X
          0.9s    89.60nm
                     i       51 29.20
                     e       52 31.00
NB2      136.87 355 PKP     51 19.80  -13.7X
          1.4s    43.30nm
UPP      137.29 351 iPKP    51 20.80  -13.3X
TAB      138.79 308 ePKP    51 28.00   -9.8X
                     e       51 36.00
                     e       54 24.00
```

```
                     i       54 52.00
SLY      140.11 304 iPKPd   51 39.50   -0.5
                     ePP     54 56.00
                     iPKS    55 15.00
BHD      141.57 301 iPKPd   51 38.00   -4.8X
                     i       51 44.00
                     ePKS    55 15.00
                     e       55 38.50
                     e       56 25.00
MSL      141.71 306 ePKPd   51 37.50   -5.5X
                     ePP     54 47.00
                     e       55 20.00
MJMA     141.85 289 ePKPd   51 38.00   -5.6X
EKA      142.33   8 PKPc    51 36.60   -6.8X
          0.8s    10.90nm
NAI      143.15 242 iPKPc   51 40.50   -5.8X
QASM     143.41 290 ePKP    51 42.30   -3.9X
AFIF     143.84 286 iPKPd   51 45.10   -2.0
VAL      144.19  16 iPKP    51 45.90   -0.7
ETA      144.40  12 ePKP    51 44.60   -2.4
          0.9s   177.00nm
KVT      144.82 317 iPKP    51 47.00   -1.2
ECP      144.86  12 ePKP    51 46.10   -1.7
          1.0s   302.00nm
BRN      145.13 351 ePKPd   51 47.50   -0.7
WIT      145.33 358 ePKP    51 49.00    0.5
                     e(pP)   52 49.00
IAS      145.52 332 ePKP    51 46.00   -3.1X
GAZ      145.86 310 iPKP    51 53.00    3.1X
KRA      145.90 343 ePKPd   51 48.60   -1.0
          0.8s   292.00nm
                     i       51 51.10
                     i       52 06.60
DBN      146.07 360 ePKP-   51 50.00    0.2
                     e(pP)   52 48.00
KSP      146.09 347 ePKP    51 49.00   -0.9
          1.2s   736.00nm
                     i       51 50.40
                     i       52 49.50
                     i       52 54.10
KAS      146.10 319 iPKPc   51 51.10    0.8
WTS      146.15 358 ePKPd   51 49.50   -0.4
          1.4s  1215.00nm
                     e(pP)   52 49.50
PTT      146.23 333 ePKP    51 52.00    1.7
PPE      146.23 331 ePKPc   51 51.50    1.2
CLL      146.24 351 ePKP    51 49.00   -1.1
BRG      146.51 350 iPKP    51 50.50   -0.1
                     ipPKP   52 51.00
                     i       53 24.00
                     i       55 12.00
                     i       02 59.00
SPC      146.59 342 ePKP    51 50.70   -0.3
CFR      146.74 329 ePKP    51 50.00   -1.1
BRD      147.02 331 ePKPd   51 55.00    3.4X
MOX      147.09 352 iPKP    51 52.00    0.5
          1.0s   401.00nm
                     ipP     52 52.00
JCK      147.12 358 ePKPc   51 51.80    0.4
PRU      147.25 348 PKPd    51 51.50   -0.3
                     e       51 53.80
UCC      147.38   1 iPKP    51 52.00    0.1
                     i       51 55.60
                     i       52 55.00
                     e       56 22.00
HOF      147.38 352 iPKPc   51 52.40    0.4
                     i       51 55.50
ENN      147.40 359 ePKP    51 52.00    0.0
          2.0s  2209.00nm
                     epP     52 55.00
MLR      147.54 332 iPKP    51 53.00    0.4
MEM      147.56 359 iPKPc   51 56.70    4.5X
                     id      51 57.20
BBTK     147.60 318 ePKP    51 52.00   -0.8
PSZ      147.82 341 ePKP    51 54.40    1.5
TNS      147.83 356 ePKPc   51 53.60    0.8
GRF      148.07 352 iPKPd   51 52.60   -0.5
                     e       51 57.90
                     e       52 00.20
DOU      148.08   0 PKP-    51 53.10    0.0
                     i       51 55.70
                     e       52 53.00
                     i       52 57.10
                     e       56 27.00
CMP      148.12 333 ePKPc   51 54.00    0.6
TNR      148.14 334 ePKPc   51 49.00   -4.4X
KHC      148.26 349 iPKPd   51 53.50    0.0
```

20d 07h

	Z 20s	0.60um		5.4Msz		
	N 20s	0.40um				
	E 20s	0.30um				
		i	51 57.50			
WET	148.36	350 iPKPc	51 54.40	0.8		
		i	51 58.60			
ZST	148.37	344 ePKP	51 53.90	0.3		
		i	51 58.50			
		i	53 01.50			
SRO	148.39	343 iPKP	51 54.20	0.6		
		i	51 59.00			
		i	53 07.70			
HRI	148.49	305 ePKP	51 54.00	-0.4		
VKA	148.50	345 iPKPd	51 53.80	0.0		
	3.2s	2436.00nm				
		ic	51 54.70			
		i	51 58.40			
		i	52 03.20			
		i	52 58.80			
		i	53 38.90			
MDSJ	148.63	301 PKPc	51 54.60	-0.1		
SHMJ	148.66	304 PKPc	52 00.40	5.8X		
GPA	148.86	321 ePKP	51 55.00	0.3		
DRA	148.92	333 ePKP	52 00.00	5.4X		
SOP	148.98	345 iPKPc	51 57.20	2.6		
FLN	149.11	7 ePKP	51 54.20	-0.6		
	1.1s	85.45nm				
GWF	149.12	356 PKP	51 55.81	1.0		
FAM	149.14	309 ePKP	51 59.50	4.3X		
MKRJ	149.15	302 PKPd	51 54.80	-0.7		
KMR	149.18	348 iPKP-	51 54.60	-0.3		
		i	52 00.10			
		ipPKP	52 58.30			
BZS	149.23	337 ePKPc	51 54.50	-0.5		
YLV	149.25	322 iPKP	51 53.70	-1.7		
LDF	149.32	7 ePKP	51 54.40	-0.7		
	1.1s	73.25nm				
DSI	149.35	302 ePKP	51 56.00	0.4		
LFK	149.36	310 iPKP	52 00.00	4.3X		
JMB	149.49	327 ePKP	51 55.00	-0.5		
STR	149.50	356 PKP	51 56.47	1.1		
PVL	149.56	330 iPKPc	51 57.00	1.4		
FUR	149.56	352 ePKP	51 54.40	-1.1		
		i	52 00.00			
WAJH	149.62	291 ePKP	51 56.00	-0.2		
CSS	149.65	309 ePKP	51 59.70	3.7X		
WLS	149.70	357 PKP	51 55.94	0.2		
CDF	149.70	357 PKP	51 55.90	0.1		
ALT	149.73	319 ePKP	51 56.00	-0.2		
BHG	149.74	349 iPKPc	51 56.00	0.2		
LPF	149.76	8 ePKP	51 55.30	-0.4		
	1.1s	73.25nm				
ECH	149.91	357 PKP	51 56.46	0.4		
VITF	149.95	359 PKP	51 56.85	0.9		
HAU	150.15	358 ePKP	51 56.00	-0.4		
	1.6s	74.65nm				
FEL	150.19	356 PKP	51 56.85	0.2		
SLE	150.27	355 ePKPc	51 56.40	-0.2		
MOF	150.27	357 PKP	51 56.97	0.3		
KBA	150.27	348 iPKPc	51 56.00	-0.8		
	2.2s	172.00nm				
		i	52 01.10			
MBH	150.30	299 ePKP	51 57.00	-0.1		
BSF	150.31	357 PKP	51 57.05	0.3		
WATA	150.33	351 iPKPc	51 56.80	-0.1		
	0.9s	222.00nm				
		i	51 01.50			
		i	52 02.30			
DIM	150.33	328 ePKP	51 57.00	0.2		
BCK	150.33	316 ePKP	52 01.40	4.3X		
BEO	150.34	337 ePKP	52 01.00	4.3X		
		i	53 05.70			
PPCY	150.41	310 ePKP	52 01.80	4.7X		
SQTA	150.50	351 iPKPd	51 56.40	-0.7		
	0.9s	200.00nm				
		i	51 57.50			
		i	52 01.60			
		i	53 01.70			
		i	53 06.50			
		i	54 11.60			
BADA	150.52	296 iPKPc	51 58.00	0.5		
KHL	150.53	318 ePKP	51 57.00	-0.4		
ZLA	150.56	355 ePKPc	51 57.10	0.0		
PGB	150.62	330 iPKPc	51 58.00	0.7		
BBS	150.64	356 PKP	51 57.72	0.5		
KDZ	150.68	328 iPKP	51 58.00	0.6		
LOMF	150.79	357 PKP	51 57.62	0.2		

PTJ	150.79	344 ePKP	51 57.50	0.0		
ZAG	150.86	344 iPKPd	51 57.40	-0.1		
LOR	150.90	1 iPKPc	51 57.10	-0.4		
	1.4s	87.15nm				
LJU	151.01	346 ePKP	51 56.00	-1.7		
		e	53 02.50			
RZN	151.01	328 iPKPc	51 57.00	-1.1		
SSF	151.10	2 iPKPc	51 57.60	-0.2		
	1.4s	111.10nm				
LLS	151.11	354 ePKPc	51 58.20	0.1		
VOY	151.16	347 ePKP	51 57.00	-1.1		
		e	52 04.00			
OSS	151.16	352 ePKPc	51 57.40	-0.8		
ELL	151.18	315 ePKP	51 58.00	-0.4		
LBF	151.19	1 iPKPc	51 57.80	-0.2		
	1.6s	124.40nm				
MFF	151.28	7 ePKP	51 57.70	-0.4		
	1.6s	118.15nm				
CEY	151.32	346 ePKP	51 58.50	0.3		
VBY	151.34	345 ePKP	51 58.40	0.2		
AVF	151.36	2 ePKP	51 57.60	-0.6		
	1.6s	83.95nm				
VDL	151.44	353 ePKPc	51 58.20	-0.4		
EZN	151.49	324 iPKP	51 58.00	-0.6		
TRI	151.49	347 iPKPc	51 58.50	0.1		
		i	53 03.90			
SMF	151.52	1 ePKP	51 57.90	-0.6		
	1.6s	99.50nm				
MMB	151.57	329 iPKPc	52 00.00	1.3		
CTI	151.57	350 PKPd	51 58.00	-0.7		
BGF	151.57	3 iPKPc	51 58.20	-0.4		
	1.6s	124.40nm				
KKB	151.66	331 iPKPd	51 53.00	-5.8X		
LSF	151.79	5 iPKPc	51 58.40	-0.5		
	1.5s	88.80nm				
TCF	151.81	4 iPKPc	51 58.40	-0.5		
	1.4s	84.95nm				
TMA	151.88	354 ePKPc	51 58.20	-1.0		
IZM	151.89	321 ePKP	51 59.60	0.3		
MAF	151.89	3 iPKPc	51 58.90	-0.1		
	1.6s	118.15nm				
MMK	152.01	355 ePKPc	52 00.10	0.6		
DIX	152.02	356 ePKPc	52 00.20	0.6		
YER	152.03	317 ePKP	52 05.30	5.7X		
EMS	152.06	357 ePKPc	52 00.60	1.1		
AGO	152.09	3 PKP	52 00.40	1.1		
MDI	152.11	353 PKP	51 58.60	-0.7		
SAL	152.17	351 PKP	52 02.00	2.6		
PLDF	152.19	2 PKP	52 00.79	1.2		
SKO	152.32	333 iPKPc	52 00.00	0.2		
	1.5s	303.00nm				
		i	52 07.50			
		i	52 18.00			
		i	54 10.60			
		i	56 50.00			
		i	58 15.00			
VAY	152.33	330 ePKP	51 59.60	-0.2		
		i	52 07.00			
		i	52 18.00			
		i	53 09.40			
PYM	152.39	3 PKP	52 01.24	1.4		
LPG	152.64	357 iPKPc	52 00.50	0.0		
	1.6s	87.05nm				
LSD	152.66	356 PKP	52 01.74	1.3		
EMON	152.72	20 iPKPc	52 01.20	0.9		
RJF	152.73	5 ePKP	52 00.00	-0.2		
	1.6s	99.50nm				
STS	152.80	22 iPKPc	52 01.70	1.3		
LBL	152.91	3 PKP	52 02.12	1.7		
RSP	152.96	356 PKP	52 00.72	0.0		
LFF	153.02	6 ePKP	52 01.00	0.4		
	1.6s	87.05nm				
BNI	153.09	357 PKP	52 01.50	0.6		
BOB	153.14	353 PKP	52 01.50	0.6		
HVAR	153.15	341 iPKP	52 05.90	5.0X		
CAF	153.15	4 ePKP	52 01.10	0.2		
	1.6s	74.65nm				
HLW	153.20	301 ePKPc	52 01.50	0.2		
		e	52 19.50			
RRL	153.21	357 PKP	52 02.77	1.5		
OHR	153.30	333 iPKPc	52 01.50	0.3		
	1.5s	491.00nm				
		i	52 09.00			
		i	52 21.10			
LPO	153.32	6 ePKP	52 01.40	0.3		
	1.6s	74.65nm				
PCP	153.46	354 PKP	52 01.33	0.0		

SFI	153.60	349 PKPd	52 02.50	1.1		
CKI	153.60	354 PKP	52 01.50	0.0		
DOI	153.60	356 PKP	52 02.50	0.9		
PGD	153.66	349 PKP	52 02.00	0.2		
BDI	153.67	351 PKP	52 01.00	-0.7		
ERUA	153.71	20 iPKPc	52 03.00	1.3		
ROB	153.76	355 PKP	52 01.64	-0.1		
ARV	153.78	347 PKPd	52 01.40	-0.4		
FIN	153.82	355 PKP	52 02.05	0.2		
STV	153.86	356 PKP	52 01.64	-0.3		
CRE	153.86	348 PKPd	52 01.00	-1.0		
ENR	153.87	356 PKP	52 01.74	-0.2		
PII	154.02	351 PKP	52 01.00	-1.0		
AUTN	154.10	356 PKP	52 02.77	0.3		
IMI	154.15	355 PKP	52 02.67	0.4		
ASS	154.25	347 PKP	52 01.50	-1.0		
FRF	154.58	357 ePKP	52 02.60	-0.2		
	1.6s	74.65nm				
LRG	154.69	357 ePKP	52 03.00	0.1		
	1.6s	74.65nm				
ECRI	154.78	13 iPKPc	52 04.20	1.0		
LMR	154.81	357 ePKP	52 03.00	-0.1		
	1.6s	62.20nm				
EPF	154.85	8 ePKP	52 03.80	0.6		
	1.6s	65.30nm				
MNS	154.90	346 PKP	52 03.00	-0.3		
AZI	155.09	345 PKP	52 04.00	0.5		
DUI	155.13	343 PKP	52 04.00	0.3		
LCI	155.13	336 PKP	52 04.00	0.4		
SDI	155.26	344 PKP	52 03.50	-0.3		
PGF	155.38	353 ePKP	52 03.40	-0.6		
	1.6s	99.50nm				
RMP	155.44	346 PKP	52 04.00	0.0		
RDP	155.48	346 PKP	52 04.50	0.3		
ETER	155.82	4 iPKPc	52 05.50	1.0		
BSS	155.83	341 PKPc	52 04.80	0.2		
SGO	155.88	340 PKP	52 03.30	-1.3		
ORI	155.93	338 PKPd	52 05.00	0.2		
EPLA	156.15	21 iPKPc	52 06.40	1.3		
MGR	156.18	339 PKP	52 04.00	-1.1		
GUD	156.23	17 ePKP	52 06.40	1.1		
TDS	156.33	338 PKPc	52 05.50	0.2		
ETOR	156.59	13 iPKPc	52 06.80	1.1		
TOL	156.96	18 iPKPd	52 06.01	-0.1		
	1.8s	272.73nm				
		ePKPpb	52 37.19			
		iPKKP	52 38.50			
		e	53 36.78			
		ePP	56 14.00			
		e	57 07.00			
ATN	157.97	337 PKP	52 06.50	-0.9		
ECHE	158.00	12 ePKP	52 08.10	0.7		
EVAL	158.08	25 ePKP	52 08.10	0.6		
EHOR	158.45	22 ePKP	52 09.00	1.1		
EVIA	158.55	16 iPKPc	52 09.00	0.9		
EBAN	158.63	19 iPKPc	52 09.40	1.3		
EPRU	159.21	23 iPKPc	52 10.70	1.9		
AAPN	159.30	21 iPKPd	52 10.50	1.5		
ASMO	159.38	20 iPKPd	52 10.00	0.9		
ALOJ	159.48	21 iPKPd	52 10.50	1.3		
AFC	159.54	20 ePKP	52 09.70	0.4		
EALH	159.56	14 ePKP	52 10.70	1.6		
EJIF	159.57	24 iPKPc	52 11.20	2.0		
ATEJ	159.69	21 iPKPd	52 10.50	1.0		
APHE	159.77	20 iPKPc	52 09.80	0.3		
BCAO	160.94	226 ePKPd	52 10.92	-0.3		
		ePKPpb	52 55.07			
TIO	163.14	39 iPKP	52 13.00	-0.1		
		i	53 05.50			
		i	53 16.00			
LIC	164.75	139 PKP	52 14.68	-0.2		
KIC	165.03	140 PKP	52 14.18	-1.0		
TIC	165.08	139 PKP	52 14.92	-0.3		
LKO	166.76	129 PKP	52 15.18	-1.4		
	S.D. = 1.0	on 341 of 389 obs.				

? MAY 20, 1990 08h 29m 34.12± 5.98s
0.062 S ± 8.5km 77.718 W ±41.2km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

CAYA	0.30	298 iP+	29 40.40	-0.2		
		iS	29 44.50			
GECU	0.54	242 iP	29 45.00	-0.1		
COTA	0.73	302 P	29 49.00	0.1		
		S	29 58.00			
QUR	0.82	262 eP	29 50.30	0.0		

			iS	30 01.60		
OTO	0.82	260	eP	29 50.70	0.3	
GGP	0.89	263	eP	29 51.40	-0.1	
			eS	30 04.60		
VC1	0.89	230	P	29 51.50	-0.1	
			eS	30 04.00		
	S.D. = 0.2		on	7 of 7 obs.		

---

* MAY 20, 1990 08h 34m 59.57± 0.78s
14.243 N ±19.8km 147.398 E ±12.2km
DEPTH = 33.0km (normal)
MARIANA ISLANDS REGION (215)

GUA	2.51	254	eP	35 39.20	0.2	
			eS	36 13.50		
GUMO	2.54	255	eP	35 39.20	-0.2	
PJG	2.54	255	eP	35 39.30	-0.1	
WRA	36.32	201	Pc	42 02.40	0.0	
INK	72.83	22	eP	46 27.00	0.5	
SES	86.36	39	eP	47 39.00	-0.8	
KIC	145.60	305	PKP	54 37.60	0.4	
	S.D. = 0.5		on	7 of 7 obs.		

% MAY 20, 1990 08h 53m 31.83± 3.27s
41.726 N ±26.9km 12.735 E ±17.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RDP	0.03	336	Pc	53 34.00	0.1	
			eSg	53 38.00		
RMP	0.09	344	Pc	53 34.00	-0.4	
			eSg	53 38.00		
AZI	0.59	63	P	53 43.50	-0.1	
			eSg	53 56.00		
SDI	0.81	91	P	53 47.50	-0.1	
			eSg	54 01.00		
ASS	1.34	358	P	53 56.00	-0.6	
			eSg	54 15.00		
ARV	1.78	5	P	54 04.00	1.2	
	S.D. = 0.8		on	6 of 6 obs.		

MAY 20, 1990 09h 10m 02.32± 0.31s
28.458 N ± 5.1km 83.343 E ± 5.7km
DEPTH = 33.0km (normal)
4.8mb (27 obs.)
NEPAL (310)
ML 4.9 (NDI).

NDI	5.39	274	iPn	11 23.20	0.6	
HYB	11.84	203	eP	12 48.00	-3.9X	
	1.0s	40.00nm		5.5mb		
			eS	14 53.00		
POO	13.16	223	eP	13 09.00	-0.5	
BOM	13.54	228	eP	13 15.50	1.0	
			eS	15 32.00		
QUE	14.41	281	eP	13 22.10	-3.9X	
CHTO	17.20	121	P	14 02.00	0.3	
KOD	18.95	198	eP	14 23.40	-0.3	
MAIO	21.57	297	iPd	14 51.50	0.4	
ELL	45.27	295	eP	18 20.20	1.4	
MLR	47.88	307	iPd	18 42.00	2.7	
SUF	50.17	330	iP	18 57.20	0.8	
	0.5s	9.80nm		5.1mb		
NUR	50.33	327	eP	18 58.00	0.3	
SOD	51.38	336	iP	19 06.10	0.5	
KEV	52.10	338	eP	19 11.00	0.0	
UPP	53.70	325	iP	19 22.90	0.0	
KSP	54.25	314	eP	19 27.30	0.2	
			e	23 01.50		
PRU	55.42	313	P	19 36.50	0.8	
TDS	55.47	300	P	19 37.00	0.9	
HFS	55.69	325	eP	19 37.10	-0.4	
	0.6s	15.50nm		5.2mb		
BRG	55.73	314	i(P)	19 38.00	0.1	
	0.6s	10.00nm		5.0mb		
MGR	55.98	301	P	19 40.00	0.2	
SGO	56.09	302	P	19 41.00	0.5	
BSS	56.42	302	P	19 43.50	0.5	
NB2	56.93	326	P	19 45.60	-0.9	
	0.7s	5.40nm		4.7mb		
FVI	56.95	309	Pd	19 46.00	-0.6	
SDI	56.99	303	P	19 46.00	-1.1	
AZI	57.22	304	P	19 49.00	0.4	
SOTA	57.93	310	iPc	19 52.50	-1.2	
	0.4s	8.80nm		5.2mb		
			i	19 54.30		
SFI	58.02	306	P	19 55.00	0.9	
PGD	58.12	306	P	19 56.00	0.9	
BDI	58.88	306	P	20 00.00	-0.3	
MDI	59.19	309	P	20 01.50	-0.8	
BOB	59.56	307	Pd	20 05.50	0.5	
PGF	60.33	305	eP	20 09.60	-0.7	
	0.6s	5.40nm		4.9mb		
BSF	60.77	311	iPc	20 12.80	-0.5	
	0.8s	8.05nm		4.9mb		
HAU	61.03	312	iPc	20 14.60	-0.4	
	0.6s	3.60nm		4.7mb		
SBF	61.16	307	eP	20 15.80	-0.1	
	0.5s	8.75nm		5.1mb		
LPL	61.29	309	iPc	20 17.00	0.0	
	0.6s	14.00nm		5.3mb		
BNI	61.43	308	P	20 17.50	-0.3	
FRF	61.78	307	eP	20 19.60	-0.5	
	0.5s	7.30nm		5.1mb		
LBF	62.82	311	eP	20 26.00	-1.0	
	0.6s	2.25nm		4.5mb		
SMF	62.99	311	eP	20 27.40	-0.7	
	0.8s	6.05nm		4.8mb		
SSF	63.12	311	eP	20 28.30	-0.6	
	0.8s	5.35nm		4.7mb		
AVF	63.28	311	iPc	20 29.30	-0.7	
	0.7s	3.30nm		4.6mb		
BGF	63.68	311	eP	20 32.10	-0.5	
MAF	63.95	310	eP	20 34.30	-0.1	
	0.8s	4.70nm		4.6mb		
TCF	64.17	310	eP	20 35.80	-0.1	
	0.9s	6.55nm		4.7mb		
LSF	64.64	311	eP	20 37.60	-1.3	
RJF	64.90	310	eP	20 40.90	0.3	
	0.8s	5.35nm		4.7mb		
LDF	65.10	313	eP	20 41.40	-0.4	
EKA	65.18	321	Pd	20 42.20	0.0	
	0.6s	3.00nm		4.6mb		
LPO	65.30	309	eP	20 43.20	0.1	
	0.5s	2.90nm		4.6mb		
LFF	65.53	309	eP	20 44.00	-0.6	
	0.8s	6.70nm		4.8mb		
MFF	65.66	311	eP	20 44.80	-0.6	
	0.4s	1.70nm		4.5mb		
BCAO	65.79	262	ePc	20 45.40	-1.4	
	0.5s	2.00nm		4.5mb		
			id	23 09.40		
EPF	66.36	307	eP	20 49.20	-0.9	
	0.7s	4.40nm		4.7mb		
WB5	68.84	128	eP	21 06.00	0.1	
WRA	68.86	128	Pc	21 06.10	0.1	
	0.9s	8.70nm		4.8mb		
MBC	74.58	5	eP	21 40.00	0.8	
	0.7s	4.00nm		4.5mb		
INK	79.74	13	eP	22 09.00	1.0	
KIC	85.33	275	P	22 39.00	1.2	
SIV	144.93	283	PKP	29 37.80	-0.6	
CCH	149.89	285	ePKP	29 53.00	6.3X	
ZOBO	151.04	289	PKP	29 55.00	6.3X	
LPB	151.15	288	PKP	29 52.00	3.3X	
	S.D. = 0.8		on	60 of 65 obs.		

---

* MAY 20, 1990 09h 24m 25.30± 1.47s
37.878 N ±12.7km 20.922 E ±15.3km
DEPTH = 5.0km (geophysicist)
IONIAN SEA (399)
MD 3.4 (ATH).

VLS	0.40	319	ePg	24 33.60	0.3	
ITM	1.06	131	ePg	24 44.00	-1.8	
VLI	1.98	125	ePg	25 01.70	1.9	
KEK	2.03	335	ePg	25 07.00	6.4X	
NEO	2.30	51	ePn	25 05.00	0.5	
OHR	3.23	358	ePn	25 20.00	2.3X	
VAY	3.67	20	ePn	25 24.00	0.2	
SKO	4.11	5	ePn	25 29.00	-1.1	
	S.D. = 1.6		on	6 of 8 obs.		

MAY 20, 1990 09h 53m 47.49± 0.11s
32.500 S ± 4.6km 179.624 E ± 3.2km
DEPTH = 345.6km (33 depth phases)
5.6mb (56 obs.)
SOUTH OF KERMADEC ISLANDS (179)
mb 6.4 (BRK).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 09:53:57.3 0.4
Lat 32.16S 0.04 Lon 179.23E 0.04
Dep 352.7 1.9 Half-duration 4.0
Moment Tensor; Scale 10**17 Nm
Mrr=-1.07 0.32 Mtt= 8.50 0.49
Mff=-7.43 0.54 Mrt=-6.64 0.41
Mrf= 9.84 0.45 Mtf=-5.64 0.51
Principal Axes:

	Val=	Plg=	Azm=
T	16.07	31	208
N	-1.46	39	328
P	-14.61	35	92

Best Double Couple:Mo=1.5*10**18
NP1:Strike=242 Dip=39 Slip=-176
NP2: 149 88 -51

HBZ	5.20	192	P	55 09.30	-0.3	
			S	56 50.00		
SNZO	9.63	203	eP	55 55.00	-6.8X	
			S	57 44.00		
			ScS	08 10.80		
SVA	14.36	356	ePc	56 57.40	-0.5	
VUN	14.47	356	eP	56 57.40	-1.7	
OVA	14.77	357	eP	57 02.40	0.0	
NDF	14.81	352	iP	57 04.10	1.3	
SGE	14.93	354	eP	57 03.50	-0.7	
MSZ	15.19	214	P	57 03.50	-3.2X	
			S	59 45.00		
DZM	15.64	308	iPc	57 13.00	1.2	
			iS	00 09.60		
PVC	17.89	323	iP	57 38.00	3.1X	
AFI	20.10	25	e(P)	57 58.00	1.1	
			eS	01 20.00		
RAR	21.51	64	P	58 10.00	-0.3	
			S	02 39.00		
COO	23.69	267	iPd	58 34.30	3.4X	
			e	00 54.00		
			e	02 33.00		
BRS	23.79	275	iPd	58 33.80	2.1	
	0.8s	26.00nm		4.6mb		
			e	59 31.00		
			i	00 41.20		
			iS	02 20.90		
			e	05 06.00		
			i	08 55.70		
CNB	25.23	255	iPc	58 47.60	2.8X	
	0.8s	268.00nm		5.6mb		
			e	05 11.00		
CAN	25.52	255	iPc	58 49.10	1.6	
			e	05 11.00		
BWA	26.06	257	iPc	58 51.70	-0.6	
			i	05 12.20		
RMQ	27.47	275	ePc	59 06.50	1.5	
	1.0s	598.00nm		5.9mb		359kmX
			e	00 12.00		
			i	02 14.40		
			e	03 23.00		
			i	05 19.70		
			e	08 09.00		
TOO	28.31	250	iPd	59 14.50	2.3	
	0.9s	353.00nm		5.7mb		
			e	59 50.00		172kmX
			e	02 15.00		
			e	05 19.00		
CMS	28.62	263	iPd	59 11.70	-3.3X	
	0.9s	339.00nm		5.7mb		
			e	02 14.50		
			e	03 40.00		
			e	05 21.00		
TBI	28.71	79	P	59 16.00	0.1	
	0.9s	220.00nm		5.5mb		
HNR	29.29	317	eP	59 20.00	-1.0	
BFD	30.66	251	iPd	59 34.70	1.9	
			i	02 20.40		
			e	05 26.00		
QLP	31.25	272	iPd	59 39.20	1.2	
			e	00 12.00		155kmX
			i	02 24.20		
			e	04 20.00		
AFR	31.34	69	iP	59 38.20	-0.6	
	0.9s	160.00nm		5.4mb		
PAE	31.42	69	iP	59 38.90	-0.6	
	0.9s	195.00nm		5.5mb		
PPT	31.48	69	iP	59 39.40	-0.7	
	0.9s	220.00nm		5.5mb		
PPN	31.61	69	iP	59 40.80	-0.4	
	0.9s	120.00nm		5.2mb		
TVO	31.62	70	iP	59 40.90	-0.4	
	0.9s	150.00nm		5.3mb		

20d 09h

CTA	32.23	284	iPc+	59	46.90	0.4			0.6s	151.30nm		6.0mb					SKS	16	05.00										
	1.0s	570.00nm			5.9mb		HKC	82.91	302	iP	05	37.80	2.4				S	16	32.00										
			i	59	51.50		SSE	83.99	313	P	05	40.50	-0.1	GSC	90.00	47	eP	06	09.00	-0.4									
			i	00	21.00			0.9s	50.00nm			5.3mb					e	07	32.00	353km									
			i	00	55.00			Z 20s	0.50um			4.9Msz		ORV	90.08	41	eP	06	10.00	0.4									
			epP	01	07.00	440kmX		E 11s	0.40um					SNY	90.14	322	Pc	06	10.00	0.3									
			isP	02	18.00				S	15	28.00				0.9s	100.00nm			5.7mb										
			i	03	10.00		GZH	84.00	302	P	05	42.70	1.9		N 32s	2.30um													
			i	03	20.00		ADK	84.08	2	iP	05	40.50	0.0		E 34s	1.90um													
			iS	04	36.00			0.8s	16.90nm			4.9mb					S	16	31.00										
			i	04	45.00				pP	07	05.00	365kmX					sS	19	00.00										
			iScP	05	33.80		QIZ	84.09	297	Pc	05	43.00	1.6	WDC	90.22	40	eP	06	10.50	0.3									
			iSS	06	48.00		SNG	84.63	282	eP	05	44.30	0.1				epP	07	32.40	347km									
			e(sS)	07	15.00			1.0s	124.00nm			5.7mb		MIN	90.57	41	eP	06	11.70	-0.3									
			i	08	43.00				eS	15	39.60			CN2	90.61	324	iPc	06	12.00	0.1									
			iScS	09	33.00		LNV	86.04	128	iPc	05	51.50	0.7		4.0s	700.00nm			5.9mb	X									
ADE	33.95	254	iPc	00	02.00	1.0	NJ2	86.10	312	Pc	05	52.00	1.1				pP	07	34.00	348km									
	1.3s	653.85nm			5.8mb				S	15	54.00						S	16	38.00										
PMO	34.27	67	iP	00	03.70	0.0	TACH	86.54	128	iPc	05	53.00	-0.3				sS	19	03.00										
	0.9s	100.00nm			5.2mb		CHCH	86.56	128	eP	05	54.50	1.1	GYA	90.86	301	iPc	06	15.00	1.4									
VAH	34.34	68	iP	00	04.00	-0.3	PCH	86.84	128	iPc	05	55.80	1.0		1.0s	100.00nm			5.7mb										
	0.9s	150.00nm			5.3mb		SAN	86.84	128	eP	05	55.50	0.7				pP	07	37.00	348km									
TPT	34.49	67	iP	00	05.60	0.0	ROCH	86.90	127	iPd	05	56.60	1.3	BDT	91.49	289	eP	06	16.70	0.3									
	0.9s	200.00nm			5.5mb		PEL	87.01	128	iPd	05	56.60	1.0		0.8s	57.10nm			5.6mb										
QIS	37.52	278	iPc	00	30.80	-0.2		0.8s	223.88nm			6.1mb		TNP	91.57	45	iP	06	16.50	-0.2									
			ePcP	02	40.20		FCH	87.17	128	eP	05	57.00	0.3		0.7s	51.22nm			5.6mb										
			iS	05	52.90				i	05	58.10	3kmX					pP	07	38.60	348km									
PMG	37.79	300	eP	00	32.00	-1.2	BCH	87.92	45	eP	06	01.00	1.2	KVN	91.69	44	iP	06	17.00	-0.2									
	0.9s	310.92nm			5.6mb					pP	07	22.10	345km				pP	07	38.80	346km									
RAB	38.12	312	eP	00	35.50	-0.4	WHN	88.02	308	iPc	06	01.70	1.5	CHG	92.39	291	ePc	06	21.90	1.3									
			eS	06	02.00			1.0s	100.00nm			5.7mb			0.9s	34.66nm			5.4mb										
LAT	39.78	303	iPc	00	51.70	2.2			S	16	12.00			KMI	92.98	298	Pc	06	25.00	1.5									
RKT	40.98	89	eP	01	00.00	0.8	GCC	88.06	43	eP	06	00.50	0.3		2.0s	120.00nm			5.6mb										
	0.8s	65.00nm			4.9mb				epP	07	22.20	348km			Z 16s	0.70um			5.2MszX										
WRA	42.21	276	Pc	01	08.40	-0.9	PCC	88.16	42	eP	06	02.00	1.3				pP	07	47.50	350km									
	0.9s	372.50nm			5.6mb		PRI	88.22	44	eP	06	02.30	1.1				S	17	02.00										
WB5	42.22	276	iPc	01	08.50	-0.9				epP	07	23.50	345km	BJI	93.02	317	eP	06	24.00	1.0									
			iScP	06	10.90		NNT	88.34	286	iPc	06	03.40	1.4		0.6s	44.00nm			5.7mb										
			iS	07	01.30		BAR	88.37	49	eP	06	02.00	0.1				pP	07	45.00	343km									
FORR	43.53	258	eP	01	20.00	0.3				e	07	23.00	344km				eSKS	16	21.00										
	0.4s	209.00nm			5.7mb		LLA	88.38	44	eP	06	02.20	0.4				eS	17	00.00										
MTN	48.37	282	eP	01	56.00	-1.5				epP	07	23.70	347km	TIY	93.78	313	iPc	06	28.00	1.3									
			e	06	35.00		PAS	88.39	47	eP	06	03.00	1.1				pP	07	50.00	347km									
			e	08	28.00					e	07	23.00	340km				SKS	16	28.50										
KNA	48.86	277	eP	02	02.50	1.3	MHC	88.48	43	eP	06	03.10	0.7	XAN	93.79	308	P	06	28.00	1.2									
	0.5s	163.00nm			5.6mb		BRK	88.49	42	eP	06	02.50	0.3				pP	07	50.00	347km									
COOL	49.24	255	eP	02	02.50	-1.5				epP	07	23.20	343km				S	17	08.00										
	0.4s	111.00nm			5.5mb		BKS	88.51	42	eP	06	02.70	0.4	NNA	94.77	107	eP	06	31.50	-0.3									
KLB	51.77	253	eP	02	21.30	-1.5		0.7s	133.00nm			6.0mb			0.8s	10.45nm			5.0mb										
	0.5s	161.00nm			5.6mb				eS	16	26.00			CD2	95.51	303	P	06	36.20	1.5									
MUN	52.90	252	iPd	02	30.00	-1.1			eS*	18	08.80						pP	07	56.70	340km									
	0.9s	605.00nm			5.9mb		MWC	88.51	47	eP	06	03.00	0.3				S	17	22.00										
BAL	52.94	254	eP	02	29.70	-1.8				e	07	24.00	344km	HHC	96.25	315	eP	06	38.50	0.6									
	0.6s	136.00nm			5.5mb		PLM	88.69	49	eP	06	04.00	0.5	ARE	96.42	114	eP	06	41.00	1.4									
AAI	55.95	290	eP	02	50.00	-3.1X				e	07	25.00	344km	ALQ	96.46	53	eP	06	39.00	-0.1									
KUPT	56.04	280	eP	03	08.00	14.3X	IKP	88.72	49	eP	06	06.50	3.0X		1.0s	6.25nm			4.8mb										
GUA	56.55	318	eP	02	56.20	-1.0	RVR	88.79	48	eP	06	04.00	0.3				epP	08	00.00	342km									
	0.5s	208.45nm			5.8mb					e	07	25.00	344km	ANMO	96.47	53	eP	06	39.90	0.8									
			pP	04	17.10	385kmX	PEC	88.86	48	eP	06	04.70	0.6		1.0s	2.00nm			4.3mb	X									
GUMO	56.62	318	eP	02	56.50	-1.1		0.7s	14.02nm			5.0mb					pP	08	01.00	343km									
			eS	10	08.00					pP	07	26.00	345km	BTO	97.03	314	eP	06	47.90	6.5X									
PJG	56.62	318	eP	02	56.20	-1.4	SBB	88.97	47	eP	06	05.00	0.4	PMR	97.13	14	e(P)	06	41.20	0.0									
HVO	56.94	29	eP	03	00.00	0.0				e	07	26.00	344km		0.4s	3.30nm			4.9mb										
NANU	56.96	263	iPd	02	59.00	-1.1				e	08	09.00		PNT	97.71	35	eP	06	45.00	0.9									
	0.4s	55.00nm			5.3mb		DL2	89.14	319	eP	06	05.00	-0.2		0.6s	10.00nm			5.3mb										
SPA	57.67	180	iPc	03	05.30	0.6		0.7s	300.00nm			6.3mb		LZH	98.36	307	eP	06	49.50	1.8									
	1.2s	329.58nm			5.6mb			Z 26s	0.70um			5.0MszX			1.5s	34.00nm			5.5mb										
MKS	62.15	282	iPd	03	36.50	1.3	ISA	89.21	46	eP	06	06.00	0.2		Z 20s	0.50um			5.0Msz										
DAV	64.73	297	eP	03	52.00	0.2				e	07	27.00	344km				pP	08	12.00	350km									
TRT	66.51	276	ePc	04	01.60	-1.5	MDJ	89.23	327	Pc	06	07.00	1.5	LPB	98.98	116	P	06	48.00	-3.3X									
	0.6s	135.50nm			5.9mb			1.2s	130.00nm			5.7mb		ZOBO	99.12	116	P	06	52.50	0.3									
TSM	68.76	290	ePc	04	19.00	2.1	FRI	89.36	44	eP	06	06.30	0.0		Z 20s	0.53um			5.0Msz										
MAW	69.63	201	iPc+	04	20.50	-0.9				epP	07	28.10	347km				LR	19	32.00										
	1.0s	477.00nm			6.2mb		LOE	89.41	291	eP	06	07.50	0.6	LRM	99.22	41	eP	06	52.70	1.3									
AIA	70.82	156	eP	04	30.00	1.4	CMB	89.68	43	eP	06	08.00	0.2	CCH	99.93	118	P	06	56.70	1.3									
OCP	72.99	300	eP	04	27.00	-14.9X				epP	07	29.60	346km	FBA	100.37	14	ePdiff	06	55.20	-0.7									
BAG	74.51	301	eP	04	49.50	-1.3	TPC	89.70	48	eP	06	09.00	1.0	SES	102.71	38	ePdiff	07	08.00	1.3									
			eS	13	52.00					e	07	30.00	344km	GTA	102.84	309	Pdiff	07	09.00	1.3									
MAT	78.85	327	eP	05	13.00	-1.1				e	08	13.00			0.8s	10.00nm			5.5mb										
	1.0s	95.00nm			5.6mb		NST	89.72	289	iPd	06	10.00	1.7	RSSD	103.13	46	ePdiff	07	07.90	-1.1									
	Z 20s	0.71um			5.0Msz		GLA	89.80	50	eP	06	10.00	1.5	SIV	104.56	120	Pdiff	07	17.40	1.8									
			eS	14	38.00					e	07	31.00	343km	INK	106.35	16	ePKP	11	31.00	-0.6									
KGM	79.56	279	ePd	05	18.90	0.6	CLC	89.85	46	eP	06	08.00	-0.7	GUN	107.33	292	Pdiff	07	28.60	0.5									
SHK	79.95	322	eP	05	19.50	-0.4				e	07	30.00	348km	GUN	107.33	292	PKP	11	34.00	-1.2									
QZH	81.53	307	Pc	05	29.20	0.9	TIA	89.94	314	P	06	09.40	0.4		0.9s	56.00nm													
	0.6s	100.00nm			5.8mb			0.9s	200.00nm			6.0mb		GBA	107.36	275	PKPc	11	33.00	-2.1									
IPM	82.87	280	ePd	05	35.30	-0.1				pP	07	31.50	349km		0.8s	15.20nm													

PKI	107.54	292	PKP	11	34.00	-1.6
	0.8s		28.00nm			
DMN	107.79	292	PKP	11	34.70	-1.3
HYB	108.30	279	ePKP	11	36.00	-0.9
FFC	109.69	37	ePKP	11	37.00	-1.4
	0.6s		9.00nm			
POO	112.76	278	ePKP	11	46.50	1.1
WMQ	112.93	308	PKP	11	44.00	-1.0
BLF	113.74	205	iPKPc	11	46.00	-1.2
	1.1s		67.57nm			
BOM	113.80	278	ePKP	11	39.00	-8.3X
BAO	113.93	129	ePKP	11	47.50	-0.3
MBC	114.91	13	ePKP	11	46.00	-1.8
	0.7s		31.00nm			
PRY	115.23	207	iPKPd	11	49.90	-0.2
	1.1s		47.30nm			
SLR	115.97	209	iPKPc	11	50.00	-1.5
	1.0s		30.00nm			
BLA	116.02	61	ePKP	11	50.00	-1.1
	0.7s		21.92nm			
KSR	116.40	207	iPKPc	11	50.20	-2.2
	1.2s		80.00nm			
BUL	120.76	212	iPKPd	11	51.10	-9.6X
	1.0s		185.00nm			
PNJ	121.85	59	iPKP	12	01.70	-0.3
NEV	122.24	89	ePKP	12	01.00	-2.4
MGH	122.35	90	ePKP	12	02.50	-1.1
PAG	122.47	91	ePKP	12	03.00	-1.0
BPA	122.80	90	ePKP	12	02.00	-2.5
MAIO	131.13	292	ePKP	12	19.00	-1.1
	1.0s		26.00nm			
NAI	131.40	234	iPKPc	12	19.00	-2.4
RYD	138.30	272	ePKP	12	23.50	-10.5X
KEV	139.68	346	iPKP	12	29.20	-5.8X
	0.5s		14.00nm			
			i	12	37.40	
			i	15	35.80	
MJMA	139.82	273	ePKPc	12	28.50	-8.2X
AFIF	140.97	269	ePKPc	12	32.30	-6.5X
OASM	141.38	272	ePKP	12	34.00	-5.5X
SOD	141.67	344	iPKP	12	33.50	-5.1X
			i	15	56.20	
TAB	141.79	292	ePKP	12	36.00	-3.9X
SLY	142.12	288	iPKPc	12	35.00	-5.4X
			i	12	39.50	
BHD	142.62	284	iPKPd	12	38.50	-2.8
MSL	144.12	289	ePKPd	12	41.50	-2.3
			e	14	05.00	
AKU	145.08	13	ePKP	12	44.10	-0.3
	0.7s		161.64nm			
			i	15	50.80	
SUF	145.38	339	iPKP	12	44.00	-1.0
	0.5s		172.50nm			
REY	145.62	17	iPKP	12	46.10	0.7
			i	15	51.10	
8CAO	146.94	216	iPKPd	12	47.80	-1.3
	0.9s		176.00nm			
			id	14	16.50	
			ic	15	53.90	
WAJH	147.30	269	iPKPc	12	49.00	-0.3
NUR	147.52	337	iPKP	12	48.00	-0.5
	0.8s		654.20nm			
			i	12	51.80	
			i	14	17.90	
AKSR	149.34	262	iPKPc	12	54.50	2.0
BADA	149.35	272	ePKPc	12	51.30	-1.1
HOL	149.51	273	ePKPc	12	52.30	-0.3
AKRL	149.61	262	iPKPc	12	54.00	1.1
AGMR	149.70	261	iPKPc	12	53.00	-0.1
AWKL	149.73	261	iPKPc	12	53.50	0.4
HRI	149.75	281	ePKPc	12	53.00	-0.1
DSI	149.76	278	ePKPc	12	53.00	0.1
KVT	149.78	297	iPKP	12	58.50	5.7X
PRNI	149.82	275	ePKPc	12	53.00	-0.1
UPP	150.14	342	iPKP	12	50.70	-1.9
			i	12	55.60	
NB2	150.46	349	PKP	12	51.50	-1.7
HFS	150.83	346	ePKP	12	52.70	-1.0
	1.0s		38.60nm			
	Z 22s		0.26um		5.0Msz	
			LR	07	34.00	
KAS	151.46	298	ePKP	12	55.00	-0.3
LFK	151.79	285	ePKP	12	56.10	0.1
CSS	151.93	284	ePKP	12	55.50	-0.6
ODD1	152.19	352	iPKP	13	03.00	7.3X
BBTK	152.38	295	ePKP	12	56.00	-0.7
BLS1	152.68	352	iPKPd	13	04.20	7.7X
PPCY	152.74	284	ePKP	12	53.50	-3.7X
8LS2	152.76	352	iPKP	13	04.50	7.9X
HLW	152.79	273	ePKP	12	57.00	-0.4
			e	13	05.00	
KMY	153.02	354	iPKP	13	04.60	7.8X
WEGH	153.23	180	ePKP	12	58.20	-0.3
LEGH	153.28	180	ePKP	12	58.50	-0.1
LIC	153.50	170	PKPc	12	59.66	0.8
	1.0s		142.00nm			
KIC	153.68	170	PKPc	12	59.92	0.8
	1.0s		177.50nm			
KUK	153.82	180	ePKP	12	59.50	0.2
TIC	153.91	169	PKPc	13	00.22	0.8
GPA	154.20	296	ePKP	12	58.00	-1.1
BCK	154.22	290	iPKP	12	57.80	-1.5
ALT	154.49	293	ePKP	12	59.00	-0.6
CFR	154.57	308	ePKP	12	59.00	-0.3
ELL	154.78	288	ePKP	12	59.00	-1.1
KHL	155.01	292	ePKP	12	59.00	-1.3
MLR	155.90	310	iPKPd	13	00.00	-1.4
MBO	156.47	136	iPKP	13	05.30	2.6
JMB	156.49	303	ePKP	13	00.00	-2.1
CMP	156.58	310	ePKPc	13	02.00	-0.1
LKO	156.65	167	PKPc	13	03.48	0.4
	1.0s		118.50nm			
IZM	156.78	292	ePKP	13	01.00	-1.6
KRA	156.87	325	ePKPd	13	01.50	-0.8
	1.4s		78.00nm			
			i	13	34.00	
TNR	156.90	312	ePKPd	13	03.00	0.5
EKA	157.09	4	PKPd	13	02.00	-0.4
	0.6s		5.40nm			
PVL	157.14	305	iPKPd	13	03.00	0.2
SPC	157.29	323	ePKP	13	03.30	0.2
EZN	157.29	296	iPKP	13	02.00	-1.1
DIM	157.36	302	ePKP	13	03.00	-0.1
KDZ	157.55	301	iPKP	13	03.00	-0.4
KSP	157.93	331	ePKPc	13	03.00	-0.5
	0.8s		65.00nm			
			i	13	39.00	
			e	14	37.00	
RZN	158.05	302	iPKPc	13	03.00	-1.2
BZS	158.56	314	ePKPc	13	03.50	-0.9
MMB	158.78	302	iPKPd	13	04.00	-0.8
CLL	158.79	336	iPKP	13	03.70	-0.7
	1.3s		24.00nm			
BRG	158.82	334	iPKPc	13	03.50	-1.0
	1.0s		30.00nm			
			i	13	42.40	
			i	15	14.40	
			i	15	41.40	
VTS	158.82	305	iPKPd	13	04.00	-1.0
8UD	158.99	321	e(PKP)	13	05.00	0.2
WIT	159.07	348	ePKP	13	05.00	0.4
			e	13	44.00	
KKB	159.16	303	ePKP	13	04.00	-1.2
SRO	159.15	323	ePKP	13	04.30	-0.6
			i	13	45.40	
			i	23	35.20	
			e	24	40.80	
VAL	159.28	17	ePKP	13	05.00	0.1
PRU	159.31	332	PKP	13	04.50	-0.5
			e	13	45.50	
ETA	159.38	10	ePKP	12	59.00	-6.0X
ZST	159.50	325	iPKPc	13	05.20	-0.1
			i	13	46.50	
VAY	159.69	302	ePKP	13	06.50	0.8
	0.8s		188.00nm			
			i	13	47.00	
MOX	159.82	337	ePKP	13	05.00	-0.6
WTS	159.82	347	ePKPc	13	05.50	0.0
	1.0s		43.00nm			
			e	13	47.00	
VKA	159.83	326	iPKPc	13	05.40	-0.3
	1.7s		101.00nm			
			i	13	48.30	
			i	15	17.10	
ECP	159.85	11	ePKP	13	04.40	-1.1
	1.2s		197.00nm			
SOP	160.12	325	iPKPc	13	07.90	1.9
SKO	160.27	305	e(PKP)	13	05.30	-1.0
	0.6s		127.00nm			
			i	13	50.00	
			i	15	12.50	
KHC	160.37	332	iPKP	13	05.50	-0.8
	1.4s		36.50nm			
			i	13	49.00	
GRF	160.77	337	iPKPc	13	06.20	-0.4
KMR	160.97	329	iPKP+	13	06.20	-0.6
			i	13	53.00	
			i	15	18.10	
			e	16	58.00	
OHR	161.02	303	iPKP	13	06.50	-0.7
	1.5s		133.00nm			
			i	13	52.50	
ENN	161.16	348	ePKPc	13	07.00	0.1
	0.8s		75.00nm			
			e	13	52.50	
			e	15	15.00	
MEM	161.30	347	PKP	13	06.50	-0.5
			e	13	54.20	
PTJ	161.63	321	ePKP	13	07.00	-0.7
BHG	161.77	330	ePKP	13	06.80	-0.9
DOU	162.04	350	PKP	13	08.00	0.2
			e	13	57.00	
			e	20	25.60	
			e	39	48.00	
KBA	162.06	328	iPKPc	13	06.70	-1.5
	1.0s		19.90nm			
VBY	162.26	322	ePKPc	13	08.00	-0.2
LJU	162.26	324	ePKPc	13	07.50	-0.7
CEY	162.53	323	ePKPc	13	07.80	-0.7
VOY	162.58	325	iPKP	13	07.90	-0.7
			e	13	58.70	
WATA	162.61	332	iPKPc	13	07.40	-1.3
	1.3s		37.70nm			
FVI	162.69	328	PKP	13	07.00	-1.5
SQTA	162.85	332	iPKPc	13	07.70	-1.2
	1.2s		46.30nm			
			i	13	13.50	
			i	14	01.10	
			i	14	35.90	
			i	15	30.60	
CDF	163.09	342	ePKP	13	08.20	-0.9
	1.1s		9.75nm			
OGA	163.21	332	ePKP	13	08.90	-0.5
LCI	163.32	303	PKP	13	09.50	0.1
CTI	163.60	329	PKPd	13	09.50	-0.2
BRT	163.63	306	PKPd	13	10.00	0.3
HAU	163.70	344	ePKP	13	09.30	-0.3
	1.1s		19.55nm			
BSF	163.75	343	ePKP	13	09.10	-0.7
	0.1s		29.30nm			
FLN	163.75	0	iPKPc	13	09.70	0.1
	1.1s		92.80nm			
LDF	163.92	359	iPKPc	13	09.80	0.1
	1.1s		56.00nm			
SAL	164.43	330	PKP	13	10.00	-0.3
LPF	164.48	2	iPKPc	13	10.20	0.0
	1.1s		48.85nm			
ORI	164.49	304	PKP	13	10.00	-0.6
MDI	164.62	332	PKP	13	09.50	-0.9
TDS	164.73	303	PKPd	13	10.50	-0.3
ARV	164.83	320	PKP	13	10.50	-0.3
LOR	164.90	349	iPKPc	13	10.70	0.0
	1.0s		28.00nm			
DUI	165.06	312	PKP	13	11.00	-0.1
SGO	165.06	307	PKP	13	10.50	-0.5
MGR	165.08	305	PKPd	13	09.50	-1.5
SFI	165.11	323	PKP	13	10.50	-0.4
LBF	165.16	348	iPKPc	13	10.70	-0.3
	1.0s		30.00nm			
SSF	165.16	350	iPKPc	13	10.80	-0.1
	1.0s		38.00nm			
PGD	165.21	324	PKP	13	10.00	-1.3
CRE	165.26	322	PKP	13	10.00	-1.2
ASS	165.27	319	PKP	13	10.50	-0.7
BSS	165.28	308	PKP	13	11.00	-0.2
SDI	165.43	313	PKP	13	11.00	-0.4
AVF	165.44	350	ePKP	13	10.80	-0.3
	1.1s		17.10nm			
AZI	165.50	315	PKP	13	11.00	-0.3
SMF	165.51	348	ePKP	13	10.90	-0.3
	1.1s		25.65nm			
BDI	165.61	326	PKP	13	09.50	-1.9
MNS	165.70	317	PKP	13	10.00	-1.5
BGF	165.74	351	ePKP	13	11.30	-0.1
	1.1s		45.20nm			
LSD	165.81	338	PKP	13	11.15	-0.7
ATN	165.90	298	PKP	13	11.00	-0.8
LPG	165.90	339	ePKP	13	12.20	0.3
	1.1s		14.65nm			
MFF	165.92	359	iPKPc	13	11.60	0.1
	1.1s		61.05nm			

20d 10h

RSP	166.05	337	PKP	13	10.53	-1.3
RDP	166.07	315	PKP	13	13.50	1.6
TCF	166.09	353	iPKPc	13	11.50	-0.2
	1.2s	38.70nm				
PCP	166.11	332	PKP	13	10.74	-1.1
MAF	166.11	351	ePKP	13	11.70	0.0
	1.1s	12.20nm				
LSF	166.19	354	iPKPc	13	11.40	-0.3
	1.2s	32.75nm				
AGO	166.20	350	PKP	13	10.92	-0.9
PLDF	166.20	348	PKP	13	11.30	-0.6
CKI	166.31	333	PKP	13	11.50	-0.4
BNI	166.32	338	PKPc	13	12.50	0.4
RRL	166.41	338	PKP	13	12.07	-0.2
PYM	166.51	350	PKP	13	11.80	-0.3
FIN	166.52	333	PKP	13	11.25	-0.9
ROB	166.58	334	PKP	13	11.25	-0.9
DOI	166.62	336	PKP	13	13.00	0.7
ENR	166.80	335	PKP	13	10.74	-1.7
STV	166.82	335	PKP	13	11.15	-1.3
IMI	166.90	333	PKP	13	11.25	-1.2
LBL	166.98	349	PKP	13	12.37	0.0
SBF	167.11	334	ePKP	13	11.90	-0.7
	1.1s	92.80nm				
RJF	167.13	354	iPKPc	13	12.80	0.3
	1.2s	53.55nm				
CAF	167.45	352	iPKPc	13	13.20	0.4
	1.2s	41.65nm				
PGF	167.52	326	ePKP	13	12.60	-0.4
	1.1s	43.95nm				
LFF	167.55	356	iPKPc	13	13.20	0.4
	1.2s	47.60nm				
FRF	167.65	335	ePKP	13	12.60	-0.3
	1.0s	36.00nm				
LPO	167.77	355	iPKPc	13	13.60	0.7
	1.2s	77.35nm				
STS	167.79	30	iPKPc	13	14.10	1.1
EMON	167.79	25	iPKPc	13	14.10	1.0
LRG	167.85	336	ePKP	13	13.00	0.0
	1.0s	36.00nm				
LMR	167.90	335	ePKP	13	12.80	-0.3
	1.1s	34.20nm				
EZAM	168.32	32	ePKP	13	14.50	1.1
ERUA	168.76	27	iPKPc	13	15.00	1.4
EPF	169.47	357	iPKPc	13	14.80	0.7
	1.2s	50.60nm				
ECRI	169.77	9	iPKPc	13	15.40	1.1
ETER	169.89	346	ePKP	13	15.00	0.7
EPLA	171.16	30	iPKPc	13	16.20	1.2
GUD	171.33	19	iPKPc	13	17.10	1.9
ETOR	171.59	9	iPKPc	13	16.70	1.4
EBR	171.67	355	ePKP	13	16.00	0.9
TOL	172.06	21	iPKPc	13	17.00	1.6
	1.2s	156.25nm				
ESEL	172.28	341	ePKP	13	16.70	1.3
EVAL	172.72	44	iPKPc	13	17.10	1.4
ECHE	172.91	4	ePKP	13	17.50	1.7
EHOR	173.36	36	iPKPc	13	17.50	1.6
EVIA	173.64	15	iPKPc	13	17.50	1.3
EBAN	173.70	25	iPKPc	13	17.50	1.4
TIO	173.93	103	iPKPc	13	18.50	1.9
EPRU	174.02	41	ePKP	13	18.40	2.1
AVE	174.03	80	iPKPc	13	18.40	2.1
EJIF	174.24	45	ePKP	13	18.40	2.1
AAPN	174.30	32	iPKPd	13	17.50	1.0
ASMO	174.42	29	iPKPd	13	17.40	0.9
ALOJ	174.47	33	iPKPd	13	17.00	0.5
EALH	174.59	9	iPKPd	13	18.00	1.6
AFC	174.59	28	iPKPc	13	17.10	0.5
ACHM	174.60	31	iPKPd	13	17.40	0.9
MAL	174.63	37	iPKPd	13	17.50	1.1
			eS	25	02.00	
ATEJ	174.67	33	iPKPd	13	17.50	0.9
APHE	174.79	31	iPKPd	13	18.00	1.4
ENIJ	175.29	18	iPKPd	13	18.00	1.4
IFR	175.88	74	iPKPc	13	19.50	2.5

S.D. = 1.1 on 346 of 375 obs.

& MAY 20, 1990 10h 14m 29.34s
60.019 N 141.112 W
DEPTH = 0.0km
SOUTHEASTERN ALASKA (19)
<AGS-P>.

PCA	0.44	79	iP	14	38.80	0.8
BALM	1.19	330	iP	14	50.40	-2.1
RAGM	1.82	283	eP	15	00.29	-1.9
			eS	15	25.46	
HYT	1.96	64	P	15	03.70	-0.7
SGAM	2.10	285	eP	15	04.13	-2.1
			eS	15	32.45	
CVA	2.37	285	eP	15	07.54	-2.6
			eS	15	40.85	
HIN	2.72	280	eP	15	12.29	-2.8
TOA	3.23	313	eP	15	21.62	-0.7
NCA	3.41	308	eP	15	25.11	0.1
PAX	3.62	327	eP	15	28.35	0.4
DOT	3.90	340	eP	15	31.09	-0.8
SML	3.96	300	eP	15	31.20	-1.5
DWY	4.13	10	Pc	15	33.40	-1.6
SEW	4.18	275	eP	15	31.92	-3.8
GHO	4.20	298	eP	15	34.33	-1.8
PLRM	4.23	295	eP	15	34.74	-1.7
SIT	4.24	132	eP	15	34.17	-2.5
PMS	4.34	290	eP	15	35.40	-2.7
DDM	4.40	331	eP	15	39.77	0.8
SLKM	4.56	280	eP	15	36.72	-4.5
PWA	4.59	295	eP	15	42.38	0.8
CNPM	5.14	269	eP	15	46.95	-2.5
SKT	5.44	296	eP	15	51.71	-2.0
RDT	5.65	281	eP	15	53.90	-2.7
CDD	6.48	266	iP	16	05.40	-3.0
INK	8.95	18	P	16	42.00	-0.7

26 obs. associated

---

* MAY 20, 1990 10h 27m 05.49± 0.96s
68.231 N ± 9.6km 10.698 E ±11.8km
DEPTH = 33.0km (normal)
NORWEGIAN SEA (642)
MD 3.5 (BER).

TRO	3.29	61	eP	28	05.00	9.2X
			iSg	28	53.00	
MOL	5.84	194	iP	28	31.61	-0.3
			eS	29	29.80	
JNE	7.17	301	eP	28	50.94	0.3
			iSg	28	54.06	
JNW	7.22	302	eP	28	51.42	0.1
			eSg	28	53.67	
JMI	7.30	301	eP	28	51.82	-0.6
			iSg	28	54.68	
HYA	7.35	197	eP	28	54.50	1.4
			eS	30	11.50	
NRA0	7.54	177	Pn	28	55.10	-0.7
			Sn	30	14.30	
HFS	8.23	169	eP	29	04.80	-0.7
	0.4s	3.90nm				4.9mb X
SUF	8.46	123	eP	29	09.00	0.4

S.D. = 0.8 on 8 of 9 obs.

---

* MAY 20, 1990 11h 20m 10.70± 1.46s
29.403 N ±15.8km 16.860 W ± 8.8km
DEPTH = 33.0km (normal)
CANARY ISLANDS REGION (394)
MD 3.9 (MDD).

CTFE	1.06	150	iPc	20	29.80	0.5
			iS	20	39.80	
TBT	1.17	232	iPd	20	31.20	0.4
GGC	1.67	140	iPc	20	38.10	0.0
CHIE	1.93	210	iPc	20	41.20	-0.6
			iS	21	00.90	
CFTV	2.63	111	iPd	20	51.30	-0.4
			eS	21	18.00	
TIO	8.45	77	iPn	22	14.00	0.1
			iSn	23	41.50	

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

? MAY 20, 1990 11h 54m 55.85± 2.55s
44.142 N ±19.4km 148.481 E ±20.5km
DEPTH = 69.0 ± 23.4 km
4.4mb (6 obs.)
KURIL ISLANDS (221)

KUSJ	2.93	250	P	55	39.50	-1.5
			S	56	14.20	
HOOJ	4.18	247	P	55	59.70	1.1
			S	56	49.70	
ASAJ	4.20	272	P	56	00.80	1.9
MAT	10.91	229	eP	57	29.00	-2.3
	0.7s	8.90nm				4.9mb
FBA	40.21	36	(P)	02	27.00	0.3
INK	45.58	31	eP	03	10.00	-0.1
GUN	51.95	274	P	04	00.00	-0.3
FFC	64.81	37	eP	05	28.50	-0.6
	0.7s	8.00nm				4.8mb
WRA	65.07	195	P	05	33.00	1.9
	0.9s	1.40nm				3.9mb
KVN	66.30	58	P	05	39.00	-0.1
NB2	69.58	339	P	05	57.60	-1.4
	0.8s	2.00nm				4.1mb
HFS	69.70	338	eP	05	57.50	-2.1
	0.8s	3.60nm				4.4mb
CLL	77.40	333	eP	06	44.00	-0.6
SSF	84.06	337	eP	07	21.80	1.9
SMF	84.35	336	eP	07	20.70	-0.6
MAF	85.10	337	eP	07	27.10	2.0
	0.8s	2.70nm				4.4mb

S.D. = 1.6 on 16 of 16 obs.

? MAY 20, 1990 12h 57m 30.83± 8.06s
16.534 N ±50.4km 99.859 W ±54.1km
DEPTH = 5.0km (geophysicist)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.33	0	iPc	57	36.80	-0.8
			iS	57	40.50	
III	1.87	11	iP	57	59.80	-4.2X
			iS	58	22.00	
UNM	2.86	13	eP	58	17.70	-0.5
			(S)	58	53.70	
CRX	2.86	3	(P)	58	07.50	-10.8X
			(S)	59	01.00	
IIT	2.88	31	iP	58	19.80	1.3
			iS	58	53.50	
OXX	3.05	79	iP	58	20.30	-0.6
			iS	58	55.50	
IIJ	3.19	2	iP	58	23.50	0.5
			(S)	59	03.80	
MRX	3.40	338	iP	58	29.30	3.7X
			(S)	59	14.30	
LVVM	4.55	45	(P)	58	50.50	8.6X
			(S)	59	45.80	

S.D. = 1.2 on 5 of 9 obs.

---

* MAY 20, 1990 13h 00m 49.07± 0.91s
15.829 N ±13.2km 147.426 E ±19.8km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)
MARIANA ISLANDS REGION (215)

PJG	3.33	228	eP	01	40.20	0.1
			eS	02	19.00	
GUMO	3.33	228	eP	01	39.70	-0.4
GUA	3.33	227	eP	01	40.70	0.6
MAT	22.20	340	(P)	05	44.00	-0.2
WRA	37.80	200	P	08	04.00	-0.3
	0.7s	1.10nm				3.8mb
YKA	79.74	28	eP	12	55.30	0.3
	0.7s	0.60nm				3.7mb
KIC	144.71	307	PKP	20	25.00	-0.1

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

MAY 20, 1990 13h 12m 59.60± 0.64s
43.000 N ± 5.5km 19.197 E ± 4.6km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.7 (TTG).

NKY	0.24	218	iPgc	13	04.50	0.0
			iSg	13	08.50	
PLE	0.36	24	iPgd	13	06.40	-0.5
			iSg	13	12.50	
BRY	0.49	259	ePg	13	08.30	-1.1
			eSg	13	16.50	
IVA	0.53	104	iPgc	13	10.50	0.3
			eSg	13	19.50	
TTG	0.57	175	ePg	13	10.70	-0.4
			eSg	13	19.70	
PVY	0.70	125	iPgc	13	13.60	0.0
			eSg	13	25.60	
HCY	0.76	223	ePg	13	15.00	0.3
			eSg	13	27.00	
BDV	0.77	201	ePg	13	15.00	0.0
			eSg	13	26.50	
SKO	1.95	121	iPn	13	37.10	3.4X
HVAR	2.02	276	iPn	13	36.10	1.4
			iSg	14	03.50	
OHR	2.23	147	ePn	13	42.30	4.5X

S.D. = 0.8 on 9 of 11 obs.

MAY 20, 1990 13h 42m 03.75± 0.47s
53.120 N ± 5.8km 108.324 E ± 9.99km
DEPTH = 33.0km (normal)
4.3mb (12 obs.)
LAKE BAIKAL REGION (327)

HHC		12.47	169	eP	45 01.60	-0.2
BJI		14.14	155	eP	45 22.50	-1.1
		0.6s		22.00nm		5.0mb
CN2		14.66	123	Pd	45 39.20	8.8X
		1.0s		100.00nm		5.2mb
GTA		14.91	206	Pd	45 31.80	-2.0
	Z	12s		2.71um		
SNY		15.26	132	eP	45 45.00	6.8X
TIY		15.67	168	Pd	45 45.20	1.6
	Z	10s		1.50um		
WMQ		16.49	244	P	45 56.50	2.4
	Z	12s		1.20um		
LZH		17.32	192	eP	46 06.00	1.4
		1.5s		38.00nm		4.3mb
	Z	10s		1.30um		4.7MszX
	E	10s		2.70um		
TIA		18.00	156	eP	46 19.40	6.5X
	Z	10s		1.00um		
	N	14s		1.60um		
	E	14s		3.50um		
XAN		19.08	178	P	46 24.50	-1.6
	E	10s		2.40um		
NJ2		22.39	156	Pc	47 06.60	6.2X
	N	10s		0.80um		
	E	10s		1.00um		
CD2		22.44	190	eP	47 01.40	0.4
	E	10s		1.60um		
KSH		25.94	251	eP	47 35.50	0.8
	E	10s		1.20um		
KMI		28.27	191	eP	47 55.00	-1.2
	Z	12s		0.70um		4.5MszX
PKI		30.66	223	P	48 18.20	0 6
DMN		30.75	223	P	48 18.10	-0.2
MAIO		37.73	264	eP	49 19.00	1.0
KEV		38.77	327	eP	49 44.00	17.9X
SUF		41.75	317	eP	49 50.00	-0.8
HYB		42.53	225	eP	49 57.50	-0.3
NUR		43.42	314	eP	50 06.00	1.5
MBC		47.34	14	eP	50 36.00	0.5
		1.0s		1.00nm		3.8mb
HFS		48.20	318	eP	50 40.20	-2.3
		0.4s		0.80nm		4.1mb
NB2		48.64	320	P	50 45.00	-0.9
		0.7s		0.80nm		3.9mb
FBA		48.70	33	P	50 47.20	1.0
INK		50.58	25	eP	51 01.00	0.5
KSP		52.88	307	eP	51 17.00	-1.2
8RG		53.97	309	e(P)	51 29.00	2.8
CLL		54.12	310	e(P)	51 26.00	-1.3
				e	53 56.00	
PRU		54.28	308	eP	51 28.00	-0.5
	Z	14s		0.80um		4.9MszX
	N	13s		0.50um		
	E	13s		0.40um		
KHC		55.33	307	P	51 35.80	-0.4
LPG		61.17	308	eP	52 17.00	-0.5
		0.7s		2.20nm		4.4mb
SSF		61.51	311	eP	52 20.00	0.6
		0.7s		2.20nm		4.4mb
SMF		61.67	311	eP	52 17.20	-3.3X
		0.8s		2.70nm		4.4mb
MAF		62.57	311	eP	52 26.60	0.1
		0.7s		3.30nm		4.6mb
TCF		62.68	311	eP	52 24.60	-2.6
		0.7s		1.65nm		4.3mb
SES		71.65	25	eP	53 25.00	1.4
WB5		76.12	155	eP	53 49.80	0.1
WRA		76.17	155	Pd	53 50.20	0.2
		0.7s		2.00nm		4.2mb

S.D. = 1.3 on 33 of 39 obs.

MAY 20, 1990 13h 42m 38.19± 0.83s
30.230 S ± 5.3km 72.174 W ± 7.8km
DEPTH = 23.8 ± 6.4 km
5.0mb (12 obs.) 4.3Msz (1 obs.)
OFF COAST OF CENTRAL CHILE (134)

JACH		2.79	151	iPd	43 23.50	1.1
				iS	44 01.50	
IHA		2.82	171	eP	43 22.00	-0.7
				iS	44 12.40	
ROCH		2.91	160	iPc	43 24.00	-0.2
				iS	44 01.00	
RTCB		3.16	114	iPc	43 29.50	1.8
PEL		3.17	157	iPc	43 28.00	0.2
LCCH		3.28	171	iPd	43 28.50	-0.7
ZON		3.28	114	iPc	43 30.20	0.9
				eS	44 20.00	
RTLL		3.37	110	ePd	43 31.80	1.2
SAN		3.46	159	ePc	43 31.60	-0.3
				i	44 06.50	
				i	44 19.00	
FCH		3.48	153	iPd	43 33.00	0.6
				i	44 20.80	
RTCV		3.52	118	ePc	43 35.00	2.3
TACH		3.57	163	iP	43 33.00	-0.5
				iS	44 16.00	
CFA		3.65	113	iPc	43 36.00	1.4
PCH		3.66	158	iPc	43 34.50	-0.3
				iS	44 33.50	
LNV		3.77	170	iPc	43 34.50	-1.7
CHCH		3.91	161	iPc	43 38.60	0.3
				i	44 25.50	
				i	44 38.00	
ARE		13.72	3	eP	45 53.00	-0.9
CCH		13.92	25	eP	45 56.00	-0.6
LPB		14.14	16	P	45 54.00	-5.5X
		1.0s		64.00nm		5.3mb X
				LR	50 41.00	
ZOBO		14.38	16	eP	45 56.00	-6.9X
		1.0s		36.25nm		4.9mb
	Z	17s		0.66um		5.7Msz
				i	46 02.00	
				LR	50 46.00	
SIV		17.45	38	P	46 36.00	-5.7X
NNA		18.66	346	eP	46 58.00	1.3
		0.8s		9.70nm		4.0mb
BAO		26.51	62	eP	48 13.20	-2.8
RSCP		66.68	348	P	53 28.30	-0.9
BLA		67.53	353	P	53 34.70	0.2
		0.6s		4.09nm		4.7mb
FVM		69.97	345	P	53 57.50	7.9X
		1.0s		17.00nm		5.1mb
ALQ		72.43	331	eP	54 04.50	-0.2
		1.0s		6.75nm		4.6mb
ANMO		72.43	331	P	54 05.00	0.3
LIC		73.73	73	P	54 11.20	-1.2
		0.8s		19.50nm		5.2mb
	Z	20s		0.15um		4.3Msz
TIC		73.97	72	P	54 12.66	-1.2
KIC		74.04	73	Pc	54 13.12	-1.1
		0.9s		45.00nm		5.5mb
LKO		75.12	69	Pc	54 19.46	-1.1
		0.8s		51.50nm		5.6mb
GLD		76.10	334	P	54 26.00	0.2
		1.0s		40.00nm		5.4mb
PV09		76.58	331	P	54 30.00	1.4
PEC		76.63	323	P	54 30.00	1.3
		0.6s		3.58nm		4.6mb
KUK		77.58	75	eP	54 33.00	-1.3
BCH		79.17	322	P	54 45.00	2.2
RSSD		79.52	337	P	54 44.80	0.2
TNP		79.93	325	P	54 47.80	0.9
		0.7s		2.89nm		4.4mb
KVN		81.11	326	P	54 54.90	1.8
RSON		82.95	346	P	55 01.30	-0.8
		0.6s		18.72nm		5.4mb
ORV		83.20	324	P	55 07.80	4.1X
LRM		84.05	333	eP	55 08.60	0.4
SES		87.34	336	eP	55 22.00	-2.1
WRA		123.97	210	PKP	01 37.00	0.4
		0.7s		1.00nm		
KOD		145.44	119	ePKP	02 16.80	-0.1
GBA		147.46	114	PKP	02 20.00	0.3
		0.8s		9.50nm		
HYB		150.44	109	iPKPc	02 29.50	5.1X
		0.8s		30.80nm		
IPM		153.69	165	ePKPd	02 37.40	8.2X

S.D. = 1.2 on 42 of 49 obs.

MAY 20, 1990 13h 57m 42.28± 0.86s
42.998 N ± 8.5km 19.180 E ± 6.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

NKY		0.23	216	iPgd	57 47.10	-0.1
				iSg	57 51.20	
PLE		0.37	25	ePg	57 49.00	-0.9
				iSg	57 54.20	
BRY		0.48	259	iPgd	57 50.70	-1.3
				eSg	57 57.70	
IVA		0.54	103	ePg	57 52.80	-0.5
				eSg	58 01.50	
TTG		0.57	174	ePg	57 53.00	-0.8
				eSg	58 01.70	
PVY		0.71	124	ePg	57 55.90	-0.5
				eSg	58 06.80	
SKO		1.96	121	ePn	58 18.00	2.1
HVAR		2.01	276	iPn	58 18.60	2.0
				iSg	58 45.30	
OHR		2.24	147	ePn	58 25.00	5.0X

S.D. = 1.5 on 8 of 9 obs.

? MAY 20, 1990 14h 51m 09.13± 3.18s
34.412 S ±25.9km 71.813 W ±15.8km
DEPTH = 77.0 ± 7.9 km
NEAR COAST OF CENTRAL CHILE (135)
Felt (III) in the Roncagua area and (II) in the Santiago area.

LNV		0.56	36	iPc	51 24.00	0.7
LCCH		0.96	12	iPc	51 27.50	-0.2
TACH		1.05	44	iPd	51 28.20	-0.7
CHCH		1.07	64	iPd	51 29.80	0.6
PCH		1.34	54	iPc	51 32.40	-0.3
SAN		1.35	45	iPd	51 32.20	-0.6
				iS	51 44.50	
IHA		1.39	6	iPc	51 33.70	0.5
				iS	51 44.90	
PEL		1.58	37	iPd	51 35.00	-0.8
ROCH		1.58	25	iPd	51 35.50	-0.6
FCH		1.67	50	iPd	51 36.60	-0.7
JACH		2.00	31	iPd	51 41.50	-0.2
RTBS		3.38	37	eP	52 02.00	1.3
RTCV		3.75	48	ePd	52 06.50	0.7
RTC8		3.86	42	iPd	52 08.00	0.5
ZON		3.89	44	eP	52 08.00	0.2
CFA		4.10	48	iPd	52 10.90	0.1
RTLL		4.17	43	iPc	52 11.60	-0.1
LPB		18.11	12	eP	55 31.00	13.5X
ZOBO		18.37	11	P	55 21.00	0.2
SIV		20.73	30	P	55 45.00	-0.6
				i	56 05.00	

S.D. = 0.7 on 19 of 20 obs.

? MAY 20, 1990 16h 38m 35.80± 6.53s
36.740 N ±48.1km 28.397 E ±37.4km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER		0.40	347	iPg	38 44.00	-0.1
				iSg	38 50.50	
CIN		0.89	344	ePg	38 53.00	0.1
				iSg	39 05.00	
ELL		1.21	89	ePn	38 58.00	-0.5
KHL		1.82	29	ePn	39 07.00	-0.4
IZM		1.88	332	ePn	39 12.80	4.4X
BCK		1.89	67	ePn	39 09.40	0.9
ALT		2.68	30	ePn	39 24.00	4.2X

S.D. = 0.8 on 5 of 7 obs.

? MAY 20, 1990 17h 15m 02.68± 1.79s
20.266 N ±18.1km 63.263 W ±19.5km
DEPTH = 78.9 ± 20.5 km
4.3mb (2 obs.)
NORTH ATLANTIC OCEAN (402)

NEV		3.18	168	eP	15 51.20	-0.2
BPA		3.47	157	eP	15 55.87	0.4
				S	16 35.50	
MGH		3.66	164	eP	15 58.25	0.1
				S	16 40.00	
SEG		4.19	156	eP	16 06.07	0.5
SFG		4.45	153	eP	16 07.80	-1.4
PAG		4.47	160	eP	16 09.64	0.0
				S	17 00.00	
MGG		4.70	157	eP	16 13.44	0.7
BBL		5.01	160	eP	16 16.93	-0.2
				S	17 12.00	
SIV		36.09	176	P	21 59.60	0.8
ANMO		40.66	300	P	22 35.90	-1.1
RSSD		41.33	315	P	22 42.80	0.4
FRB		43.60	357	eP	23 06.00	5.7X
BW06		44.71	311	P	23 09.00	-1.0

20d 17h

SES	48.06	320	ePd	23	36.50	0.5
KVN	50.43	304	(P)	23	54.00	-0.5
YKA	54.74	334	eP	24	26.10	0.1
	0.7s		1.40nm			4.1mb
MBC	62.63	347	eP	25	24.00	3.4X
INK	64.05	337	eP	25	32.00	2.0
BCAO	80.79	89	ePd	27	08.50	-1.2
	0.6s		4.00nm			4.5mb
			id	30	57.30	

S.D. = 1.0 on 17 of 19 obs.

---

* MAY 20, 1990 18h 01m 57.39± 1.95s
28.260 N ±13.3km 83.193 E ±11.6km
DEPTH = 62.1 ± 20.2 km
4.5mb (6 obs.)
NEPAL (310)

NDI	5.28	276	ePn	03	16.00	0.5
			ePg	03	35.50	
			eSn	04	14.00	
HYB	11.61	203	eP	04	41.30	-1.3
			eS	06	45.50	
QUE	14.32	282	eP	05	19.40	1.0
CHTO	17.22	120	P	05	55.10	-0.1
SUF	50.27	330	eP	10	49.00	-0.1
SOD	51.51	336	eP	10	54.00	-4.4X
KEV	52.24	339	eP	11	03.00	-0.9
HFS	55.78	325	eP	11	29.00	-0.9
	1.0s		6.30nm			4.6mb
NB2	57.03	327	P	11	38.20	-0.7
	0.6s		1.30nm			4.2mb
LPG	61.30	309	eP	12	09.20	0.3
	0.7s		3.85nm			4.6mb
LPL	61.31	309	eP	12	09.40	0.5
	0.7s		3.30nm			4.6mb
LBF	62.85	311	eP	12	23.50	4.6X
SSF	63.15	311	eP	12	27.20	6.4X
TCF	64.20	310	eP	12	20.70	-7.1X
WB5	68.82	128	eP	12	58.00	0.6
WRA	68.84	128	Pd	12	58.70	1.1
	0.8s		4.60nm			4.5mb
MBC	74.79	5	eP	13	32.00	-0.1
YKA	88.44	8	eP	14	43.70	0.0
	0.8s		0.60nm			3.9mb

S.D. = 0.8 on 14 of 18 obs.

? MAY 20, 1990 18h 26m 25.26± 5.09s
44.238 N ±18.2km 17.118 E ±43.0km
DEPTH = 33.0km (normal)
YUGOSLAVIA (383)
ML 2.8 (ZAG), 2.3 (LJU).

ZAG	1.77	333	ePg	26	54.50	0.5
			iSg	27	12.50	
VBY	1.83	314	iPgc	26	54.30	-0.6
			iSg	27	10.70	
			iSn	27	13.80	
PTJ	1.85	334	ePg	26	54.70	-0.6
			eSg	27	13.20	
CEY	2.43	309	e(Pn)	27	03.50	0.0
			eSn	27	27.20	
LJU	2.57	316	eP	27	06.40	0.9
			e(Sg)	27	29.00	
			e	27	40.00	
TRI	2.80	303	e(Pn)	27	08.40	-0.2
			i(Sn)	27	37.30	
VOY	2.90	309	e(Pn)	27	09.80	-0.5
			eSn	27	39.70	
ARV	3.11	258	P	27	14.00	0.9
ASS	3.44	252	P	27	17.00	-0.9
FVI	3.86	309	P	27	28.00	4.3X

S.D. = 0.8 on 9 of 10 obs.

MAY 20, 1990 19h 30m 44.50± 0.37s
5.143 N ± 5.1km 31.976 E ± 7.1km
DEPTH = 10.0km (geophysicist)
4.5mb (17 obs.)
SUDAN (557)

AAE	7.76	60	eP	32	40.00	-0.6
LWI	7.99	203	iPc	32	44.30	0.6
NAI	7.99	143	iPd	32	44.00	0.3
	1.0s		40.00nm			5.6mb X
BCAO	13.41	268	iPd	33	55.90	-1.6
	0.4s		11.00nm			5.2mb X
			ic	35	21.00	
			ic	36	56.30	
			ic	38	31.60	
KRI	21.96	186	iPn	35	40.20	-0.3
			iSn	39	35.10	
BUL	25.34	187	iPn	36	07.90	-5.6X
			eSn	40	50.40	
LPG	45.81	335	eP	39	09.20	0.6
	0.8s		4.05nm			4.5mb
LPL	45.83	335	eP	39	09.40	0.7
	0.8s		4.05nm			4.5mb
KHC	46.53	343	iP	39	14.60	0.6
	1.1s		8.00nm			4.7mb
KSP	47.40	347	eP	39	21.50	0.7
TOL	47.41	322	eP	39	22.00	0.9
CAF	47.47	331	eP	39	22.20	0.8
	1.1s		4.90nm			4.5mb
BSF	47.69	337	eP	39	22.80	-0.5
	0.7s		2.20nm			4.4mb
SMF	47.96	334	eP	39	25.00	-0.3
	0.7s		4.40nm			4.7mb
CDF	47.99	338	eP	39	25.00	-0.6
LBF	48.16	334	eP	39	26.60	-0.3
	0.8s		2.70nm			4.4mb
MAF	48.20	333	eP	39	28.10	0.9
	0.8s		4.05nm			4.6mb
AVF	48.28	334	eP	39	27.60	-0.1
	0.7s		2.75nm			4.4mb
TCF	48.41	333	eP	39	29.70	0.9
	0.8s		7.40nm			4.8mb
SSF	48.43	334	eP	39	28.60	-0.2
	0.8s		2.70nm			4.4mb
LOR	48.43	335	eP	39	28.60	-0.3
	0.8s		4.05nm			4.5mb
LSF	48.70	332	eP	39	32.00	1.0
	0.8s		5.35nm			4.6mb
MFF	49.75	331	eP	39	39.40	0.4
LDF	51.19	333	eP	39	49.80	-0.2
	0.8s		6.70nm			4.6mb
LPF	51.20	332	eP	39	49.80	-0.2
	0.8s		6.70nm			4.6mb
APO	56.94	349	eP	40	31.00	-1.1
	0.7s		3.40nm			4.5mb
SUF	57.61	357	eP	40	36.00	-0.8
NB2	57.92	348	P	40	37.80	-1.2
	0.8s		2.10nm			4.2mb

S.D. = 0.8 on 27 of 28 obs.

? MAY 20, 1990 19h 41m 13.42± 3.25s
42.347 N ±20.7km 13.586 E ±22.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.14	273	P	41	16.50	-0.2
			eSg	41	20.80	
AZI	0.38	197	P	41	21.10	0.0
			eSg	41	27.20	
SDI	0.66	165	P	41	26.70	0.0
			eSg	41	37.00	
MNS	0.67	273	P	41	27.00	0.2
			eSg	41	37.00	

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

? MAY 20, 1990 19h 45m 50.19± 8.42s
13.225 S ±31.4km 77.377 W ±89.9km
DEPTH = 33.0km (normal)
OFF COAST OF PERU (114)

PT06	1.18	121	iPd	46	09.20	-1.3
PT10	1.21	19	iPd	46	11.50	0.6
			iS	46	26.00	
NNA	1.34	23	iPd	46	12.80	0.1
			eS	46	27.00	
PT08	1.49	33	iPd	46	14.40	-0.9
PT03	1.72	117	iPd	46	18.30	0.1
			e(S)	46	32.30	
ARE	6.54	120	eP	47	27.00	0.1
			eS	48	49.00	
ZOBO	9.45	110	eP	48	09.00	1.3
LPB	9.55	111	eP	48	20.00	11.0X

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

MAY 20, 1990 19h 59m 43.94± 0.40s
39.687 N ± 5.3km 20.365 E ± 3.5km
DEPTH = 10.0km (geophysicist)
3.3mb (1 obs.)
GREECE-ALBANIA BORDER REGION (392)
MD 3.4 (ATH). ML 3.2 (THE).

KEK	0.44	274	iPgd	59	52.80	-0.1
FNA	1.34	35	ePb	00	07.90	-0.8
			eSb	00	26.20	
OHR	1.46	13	iPnc	00	10.60	0.2
			iSg	00	32.00	
			Lg	00	33.00	
VLS	1.52	173	ePb	00	11.00	-0.2
AGG	1.66	113	ePb	00	13.70	0.4
			eSb	00	37.90	
LIT	1.69	75	ePb	00	13.50	-0.1
			eSb	00	38.20	
LCI	1.96	290	P	00	18.00	0.4
			eSn	00	43.00	
GRG	2.01	50	ePn	00	18.40	0.1
THE	2.20	64	ePn	00	21.00	-0.1
NEO	2.24	99	ePn	00	22.10	0.4
VAY	2.34	45	ePn	00	23.00	-0.1
SKO	2.42	19	iPn	00	25.00	0.8
			i	00	27.60	
			Lg	01	02.50	
KNT	2.43	52	ePn	00	24.10	-0.2
SOH	2.55	63	ePn	00	26.20	0.1
BRT	2.70	297	P	00	30.00	1.9
ITM	2.79	153	ePn	00	30.00	0.6
SRS	2.85	59	ePn	00	29.90	-0.4
OUR	2.85	76	ePn	00	30.50	0.2
KKB	3.00	43	iPd	00	32.00	-0.4
ORI	3.04	278	P	00	34.50	1.6
TDS	3.11	271	P	00	37.00	3.1
MMB	3.19	52	eP	00	36.00	0.9
VLI	3.59	145	ePn	00	40.80	0.0
VTS	3.61	36	eP	00	42.00	0.8
SGO	3.97	284	Pd	00	47.10	0.9
PGB	4.05	44	eP	00	47.00	-0.4
ATN	4.12	250	P	00	47.30	-0.9
BSS	4.40	286	P	00	51.50	-0.7
MEU	4.99	241	P	00	57.30	-3.4
SDI	5.37	294	P	01	06.00	-0.1
VOY	7.92	325	ePn	01	39.60	-2.4
			eSn	03	08.50	
NB2	22.12	348	P	04	38.60	-2.3
	0.7s		0.80nm			3.3mb

S.D. = 1.2 on 32 of 32 obs.

---

* MAY 20, 1990 20h 36m 38.35± 1.28s
51.050 N ±19.7km 177.478 W ±12.1km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (IV) on Adok.

ADK	0.97	30	iPd	36	55.60	0.0
SMY	5.48	291	e(P)	38	00.00	0.3
KDC	15.96	55	e(P)	40	20.60	-1.1
TTA	16.58	36	e(P)	40	31.00	1.4
PMR	18.77	45	eP	40	59.00	2.3
IMA	19.31	30	eP	41	01.00	-2.3
YKA	34.86	46	eP	43	25.30	-2.7X
	0.5s		0.40nm			3.6mb
LON	36.11	74	eP	43	43.50	4.7X
KVN	42.52	82	eP	44	34.00	1.7
BW06	45.61	73	eP	44	57.20	-0.1
RSSD	48.11	68	eP	45	16.20	-0.7
RSON	49.96	55	eP	45	49.00	18.2X
	0.7s		3.46nm			
PWLA	63.39	67	eP	47	05.50	-1.1
GBTN	65.11	64	eP	47	17.00	-0.8
JSC	67.78	63	eP	47	35.00	0.2

S.D. = 1.4 on 12 of 15 obs.

? MAY 20, 1990 20h 51m 47.92± 5.17s
37.562 N ±29.4km 20.443 E ±40.7km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.2 (ATH).

VLS	0.63	11	ePg	52	00.50	0.0
ITM	1.24	107	ePb	52	11.00	0.0
VLI	2.16	112	ePg	52	29.50	5.0X
NEO	2.79	51	ePn	52	33.50	0.0
OHR	3.56	4	ePn	52	44.30	0.0

S.D. = 0.0 on 4 of 5 obs.

? MAY 20, 1990 21h 50m 28.95± 0.98s
40.658 N ±13.2km 15.741 E ± 6.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.34	253	Pc	50 35.20	-0.8
			eSg	50 41.50	
BSS	0.72	281	P	50 44.00	0.8
			eSg	50 55.30	
ORI	0.80	137	P	50 44.90	0.3
			eSg	50 56.00	
BAI	0.97	61	P	50 47.00	-0.4
BRT	1.13	78	P	50 47.00	-3.2X
			eSn	51 04.50	

S.D. = 1.3 on 4 of 5 obs.

---

* MAY 20, 1990 23h 33m 28.42± 0.76s
15.017 N ±17.9km 147.744 E ±15.7km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
MARIANA ISLANDS REGION (215)

GUMO	3.13	243	eP	34 16.80	0.2
PJG	3.13	243	eP	34 16.20	-0.4
			eS	34 53.90	
WB5	37.09	201	eP	40 37.50	-0.2
WRA	37.16	201	Pc	40 38.30	0.1
	0.7s		3.90nm		4.4mb
YKA	80.31	28	eP	45 36.80	-0.6
	0.7s		0.40nm		3.5mb
KIC	145.43	306	PKP	53 06.00	0.3
TIC	145.47	307	PKP	53 06.30	0.5

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

? MAY 21, 1990 00h 42m 03.96± 7.20s
31.868 S ±29.9km 68.547 W ±22.5km
DEPTH = 71.6 ± 59.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCV	0.01	48	ePc	42 14.90	0.2
			(S)	42 26.00	
ZON	0.34	341	iPc	42 15.20	-0.6
			eS	42 27.00	
CFA	0.37	45	eP	42 15.90	-0.1
			S	42 28.00	
RTCB	0.44	330	iPc	42 17.10	0.5
			S	42 30.30	
RTLL	0.54	7	iPd	42 17.70	0.1
RTBS	0.80	285	iPc	42 20.20	-0.1
			(S)	42 36.70	

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

MAY 21, 1990 02h 44m 03.99± 0.63s
39.741 N ± 6.1km 20.651 E ± 7.0km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

KEK	0.66	268	eP	44 17.20	0.1
OHR	1.37	5	iPnd	44 29.50	0.3
			iSg	44 48.40	
			Lg	44 50.90	
VLS	1.56	182	eP	44 31.70	-0.2
			eS	44 57.30	
NEO	2.04	101	eP	44 39.30	0.6
VAY	2.15	42	ePn	44 39.70	-0.7
ITM	2.75	158	eP	44 48.50	-0.4
VLI	3.51	148	eP	45 00.00	0.3

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

MAY 21, 1990 02h 44m 33.90± 0.23s
40.275 N ± 5.4km 77.718 E ± 3.6km
DEPTH = 33.0km (normal)
4.5mb (16 obs.) 4.1Msz (1 obs.)
KIRGHIZ-XINJIANG BORDER REGION (320)

KSH	1.57	239	iPg	45 00.00	0.1
			Sg	45 22.50	
WMQ	8.23	61	P	46 33.00	-1.0
			S	48 05.00	
NDI	11.57	182	iPc	47 13.20	-6.6X
			eS	49 11.00	
QUE	13.36	224	eP	47 37.40	-6.4X
			eS	50 02.60	
DMN	14.03	152	P	47 44.20	-8.6X
GUN	14.06	149	P	47 44.80	-8.4X
PKI	14.18	151	P	47 44.90	-9.9X
	0.8s		38.00nm		5.1mb
MAIO	14.85	260	eP	48 09.00	5.7X
			eS	50 38.00	
GTA	16.99	86	eP	48 26.80	-3.9X
Z	16s		0.60um		
LZH	20.93	93	Pd	49 15.00	-1.3
	1.4s		22.00nm		4.4mb
Z	22s		0.80um		4.1Msz
POO	21.92	190	eP	49 25.50	-0.7
HYB	22.79	178	eP	49 35.00	0.2
CD2	23.08	106	eP	49 38.40	0.9
BTO	24.52	79	eP	49 53.10	1.6
XAN	25.55	94	eP	50 00.60	-0.7
GBA	26.57	181	Pc	50 07.00	-3.7X
	0.9s		5.50nm		4.2mb
TIY	27.00	84	eP	50 14.80	0.1
Z	14s		0.60um		4.3MszX
E	10s		0.20um		
			eS	54 43.00	
GYA	27.68	111	P	50 21.20	0.2
HFS	43.51	319	eP	52 36.00	0.4
	0.8s		5.30nm		4.4mb
Z	17s		0.12um		3.9MszX
			LR	10 19.00	
NB2	44.69	321	P	52 45.10	0.0
	0.7s		3.20nm		4.3mb
CLL	45.06	307	eP	52 49.00	0.9
BOB	49.18	299	P	53 22.00	1.4
CDF	49.40	304	eP	53 22.50	0.2
BSF	49.89	304	eP	53 26.20	0.1
HAU	50.11	304	eP	53 27.70	0.0
PGF	50.28	296	eP	53 28.50	-0.6
LPG	50.71	301	eP	53 32.50	-0.1
	0.9s		8.20nm		4.7mb
LPL	50.72	301	eP	53 32.40	-0.2
	0.8s		6.70nm		4.7mb
SBF	50.85	299	eP	53 32.70	-0.7
BNI	50.92	300	P	53 34.50	0.5
AVF	52.45	303	eP	53 44.50	-0.8
MAF	53.16	303	eP	53 50.50	-0.2
	1.0s		8.00nm		4.6mb
LSF	53.82	303	eP	53 54.80	-0.6
	0.7s		3.30nm		4.5mb
CAF	53.99	302	eP	53 56.50	-0.3
	0.8s		4.05nm		4.5mb
RJF	54.20	302	eP	53 58.30	0.0
LPO	54.66	302	eP	54 01.40	-0.3
LFF	54.85	302	eP	54 03.10	0.0
	0.8s		4.05nm		4.5mb
MBC	63.25	5	ePc	55 01.30	0.5
	0.9s		23.00nm		5.3mb
BCAO	63.88	252	ePc	55 05.60	-0.2
	0.8s		3.00nm		4.4mb
			id	58 05.00	
			id	59 35.40	
INK	69.23	12	eP	55 39.00	0.0
YKA	77.10	6	eP	56 24.50	-0.6
	0.7s		3.50nm		4.5mb
WB5	79.74	127	eP	56 40.20	0.1
WRA	79.77	127	Pd	56 41.10	0.8
	1.1s		6.60nm		4.5mb
FFC	85.37	360	eP	57 09.00	0.3
	1.0s		16.00nm		5.2mb

S.D. = 0.6 on 36 of 44 obs.

MAY 21, 1990 04h 10m 51.13± 0.69s
43.281 N ± 5.7km 19.774 E ± 6.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (TTG).

PLE	0.28	280	Pgc	10 57.00	-0.1
			iSg	11 02.00	
IVA	0.42	167	iPgd	10 58.80	-0.9
			iSg	11 04.70	
PVY	0.70	168	ePg	11 03.60	-1.5
			iSg	11 13.50	
NKY	0.74	231	eP	11 05.40	-0.3
			iSg	11 16.40	
TTG	0.93	204	iPgc	11 08.30	-0.6
			iSg	11 24.00	
BRY	0.98	248	ePg	11 09.70	-0.1
			iSg	11 24.00	
8DV	1.22	215	ePg	11 14.00	0.2
			eSg	11 35.00	
HCY	1.25	229	ePg	11 15.50	1.0
			eSg	11 35.00	
BEO	1.62	17	ePn	11 20.70	1.0
			eSg	11 40.30	
SKO	1.80	136	iPn	11 23.70	1.3
OHR	2.30	160	ePn	11 31.20	1.5
HVAR	2.43	269	iPn	11 35.20	3.7X
			iSg	12 08.40	
BZS	2.68	29	ePc	11 33.50	-1.6
VAY	2.85	132	ePn	11 42.40	4.9X

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

% MAY 21, 1990 04h 37m 16.06± 1.06s
37.800 N ± 8.4km 15.272 E ± 8.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.39	23	Pd	37 24.30	0.2
			eSg	37 30.70	
MSI	0.46	29	P	37 25.20	-0.2
MNO	0.48	286	P	37 25.00	-0.8
			eSg	37 33.00	
MEU	0.75	201	Pd	37 30.70	-0.1
			eSg	37 41.60	
GIB	1.00	281	P	37 36.00	0.9
			eSg	37 50.00	

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

& MAY 21, 1990 05h 11m 09.94s
42.490 N 110.932 W
DEPTH = 0.3km
WYOMING (460)
<SLC-P>. ML 2.6 (SLC).

BW06	1.06	74	eP	11 31.30	0.4
PTI	1.13	290	eP	11 30.50	-1.6
HPI	2.00	308	eP	11 45.00	-0.6
DAU	2.09	187	eP	11 47.80	0.8
DUG	2.70	212	e(P)	11 55.50	0.0
	5 obs. ossocioted				

? MAY 21, 1990 05h 17m 16.90± 6.79s
31.654 S ±20.4km 67.676 W ±45.3km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.48	275	iPd	17 27.00	0.3
RTLL	0.75	295	iPd	17 31.80	0.2
RTCV	0.76	254	iPc	17 31.90	0.1
			(S)	17 40.00	
ZON	0.86	277	iPd	17 32.70	-0.8
			eS	17 43.00	
RTCB	0.97	280	iPd	17 35.60	0.1
			S	17 45.90	
RTBS	1.52	269	ePd	17 44.20	0.2
			S	18 02.00	

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

---

* MAY 21, 1990 06h 30m 39.21± 1.10s
52.270 N ±28.3km 174.817 W ±12.2km
DEPTH = 239.7 ± 10.6 km
4.2mb (8 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (II) on Adok.

ADK	1.22	252	iPc	31 14.70	0.0
SDN	9.01	64	eP	32 46.20	0.1
SVW	13.72	42	eP	33 45.90	0.7
KDC	13.90	58	iPc	33 47.00	-0.4
TTA	14.62	36	eP	33 56.40	0.2
	0.9s		18.70nm		4.5mb
PMR	16.73	46	eP	34 19.90	-1.0
IMA	17.43	29	ePc	34 27.70	-0.8
	0.9s		25.00nm		4.7mb
TOA	18.22	46	eP	34 37.40	0.7
INK	25.31	35	eP	35 45.00	-0.1
MBC	31.86	22	eP	36 43.50	0.4
	0.3s		3.00nm		4.4mb
YKA	32.81	48	eP	36 52.00	0.5
	0.4s		1.10nm		3.8mb
BW06	43.68	76	eP	38 25.50	3.4X
	1.0s		7.75nm		4.0mb
SUF	64.17	349	iP	40 50.20	0.6
	0.6s		20.20nm		5.0mb
NB2	66.94	357	P	41 07.00	-0.3
	0.7s		1.10nm		3.7mb
HFS	67.74	355	eP	41 11.80	-0.4
	0.4s		1.50nm		4.1mb

S.D. = 0.6 on 14 of 15 obs.

? MAY 21, 1990 06h 34m 30.02± 3.77s
1.230 S ±18.6km 77.777 W ±27.9km
DEPTH = 14.9 ± 5.5 km
ECUADOR (107)

21d 06h

TUNG	0.69	254	iP	34 43.40	-0.1
			iS	34 53.20	
VC1	0.86	313	iPd	34 46.20	-0.2
			S	34 56.80	
GECU	1.00	336	eP	34 48.00	-0.8
			eS	35 00.30	
OTO	1.27	324	eP	34 54.00	0.5
			iS	35 09.60	
OUR	1.29	324	eP	34 53.70	-0.1
			iS	35 10.80	
CAYA	1.32	351	P	34 53.80	-0.5
			eS	35 09.50	
GGP	1.33	322	eP	34 54.60	0.0
			iS	35 17.30	
COTA	1.65	340	eP	35 00.00	0.9

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

% MAY 21, 1990 07h 13m 27.38± 0.85s
38.303 N ± 9.1km 22.691 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.8 (ATH).

ATH	0.87	112	ePb	13 45.00	0.8
NEO	1.08	22	ePb	13 47.00	-0.8
ITM	1.27	209	ePb	13 47.00	-4.1X
VLI	1.59	173	ePb	13 55.00	-0.7
VLS	1.66	266	ePn	13 56.30	-0.3
KEK	2.66	303	ePb	14 12.00	1.0

S.D. = 1.2 on 5 of 6 obs.

% MAY 21, 1990 07h 34m 08.30± 1.15s
40.549 N ± 7.7km 23.884 E ±10.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR	0.23	161	ePd	34 12.90	-0.3
			eS	34 34.70	
SOH	0.49	304	iPd	34 17.80	-0.4
			iS	34 21.80	
SRS	0.61	339	iPc	34 21.20	0.6
			eS	34 29.00	
THE	0.70	277	eP	34 21.30	-0.9
			eS	34 28.60	
KNT	0.97	310	ePc	34 26.30	-0.4
			eS	34 37.90	
LIT	1.16	248	eP	34 30.90	1.0
GRG	1.20	290	eP	34 31.00	0.4
			eS	34 44.80	

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

MAY 21, 1990 07h 48m 49.01± 0.53s
39.994 N ± 5.3km 20.610 E ± 5.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.8 (ATH).

IGT	0.51	205	iPd	48 58.30	-1.0
			eS	49 05.70	
KEK	0.68	246	ePb	49 01.50	-1.1
			eSn	49 20.80	
FNA	0.98	36	ePc	49 07.80	0.1
			iS	49 21.70	
OHR	1.13	7	iPg	49 12.00	1.9
			iSg	49 29.00	
			Lg	49 29.50	
LIT	1.45	85	eP	49 15.10	-0.2
			eS	49 34.80	
AGG	1.65	126	iPc	49 17.90	-0.2
			eS	49 40.10	
GRG	1.67	54	ePc	49 18.00	-0.5
			eS	49 41.00	
VLS	1.81	181	ePn	49 21.00	0.5
THE	1.91	70	eP	49 21.70	-0.2
			eS	49 46.90	
VAY	1.99	48	ePn	49 22.00	-1.1
LCI	2.06	280	P	49 29.00	4.9X
			eSn	49 55.00	
SKO	2.07	17	iPn	49 25.00	0.7
			eSn	49 47.80	
			i	49 52.00	
KNT	2.10	55	eP	49 24.50	-0.1
			eS	49 52.50	
NEO	2.13	108	ePn	49 25.00	-0.1
SOH	2.25	68	eP	49 26.20	-0.7
			eS	49 55.90	
PAIG	2.36	91	eP	49 27.80	-0.6
			eS	49 57.60	
SRS	2.53	63	eP	49 30.60	-0.3
			eS	50 02.10	
OUR	2.61	81	eP	49 31.30	-0.6
			eS	50 03.20	
BRT	2.75	290	P	49 42.00	8.1X
ITM	2.99	159	ePn	49 40.50	3.1X
ORI	3.20	273	P	49 49.50	9.2X
TDS	3.31	266	P	49 17.00	-24.9X
VLI	3.75	150	ePn	49 51.50	3.4
SGO	4.09	280	P	49 53.00	0.0

S.D. = 1.1 on 19 of 24 obs.

? MAY 21, 1990 08h 16m 42.75±12.03s
33.545 N ±109.km 32.305 E ±17.9km
DEPTH = 10.0km (geophysicist)
EASTERN MEDITERRANEAN SEA (371)
Felt at Paphos, Cyprus.

LFK	2.01	30	ePn	17 17.10	0.0
ELL	3.75	329	ePn	17 43.50	1.5
BCK	4.15	341	ePn	17 46.70	-0.9
YER	4.86	319	iPn	17 57.00	-0.7
CIN	5.31	321	eP	18 04.00	0.0

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

• MAY 21, 1990 08h 40m 59.70± 2.03s
41.398 N ± 9.7km 141.949 E ±10.3km
DEPTH = 82.6 ± 17.4 km
4.8mb (24 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT	5.66	212	eP	42 24.00	1.0
	0.8s		38.06nm		4.7mb
			eS	43 33.00	
MDJ	9.61	294	eP	43 18.00	0.8
SNY	13.76	278	Pc	44 13.40	1.2
BJI	19.57	275	eP	45 21.00	-2.4
	0.8s		39.00nm		4.8mb
SSE	19.60	245	Pd	45 26.50	2.7
	0.8s		10.00nm		4.2mb
TIA	20.00	263	eP	45 25.70	-2.3
NJ2	20.68	251	eP	45 33.30	-1.6
TIY	23.00	271	eP	45 56.00	-2.0
XAN	27.02	265	P	46 34.40	-1.4
GTA	31.92	281	eP	47 17.80	-1.7
GYA	32.60	254	P	47 25.00	-0.4
WMQ	39.41	292	P	48 23.60	0.7
CHG	42.92	252	eP	48 53.00	1.2
GUN	47.28	272	P	49 27.60	0.6
PKI	47.81	272	P	49 32.40	1.3
	0.6s		23.00nm		5.3mb
DMN	48.02	272	P	49 34.20	1.6
	0.7s		33.00nm		5.3mb
INK	50.34	29	iPc	49 49.10	-0.4
	0.5s		15.00nm		5.3mb
MBC	52.24	17	eP	50 02.50	-1.3
YKA	59.85	31	eP	50 56.70	-1.7
	0.8s		1.30nm		4.1mb
SOD	61.12	336	iP	51 05.40	-1.6
WB5	61.37	188	eP	51 08.20	-0.9
WRA	61.43	188	Pc	51 08.80	-0.7
	0.5s		2.60nm		4.6mb
GBA	62.05	264	Pc	51 12.60	-1.2
	0.7s		7.90nm		4.9mb
SUF	64.29	333	eP	51 26.00	-2.0
NUR	66.31	331	iP	51 40.00	-0.9
	0.6s		13.00nm		5.0mb
FFC	69.83	34	eP	52 03.00	0.1
	0.8s		11.00nm		4.8mb
HFS	70.29	335	eP	52 04.50	-1.1
	0.4s		7.30nm		4.9mb
Z	19s		0.04um		3.7Msz
			LR	20 48.00	
NB2	70.33	337	P	52 05.00	-0.9
	0.6s		5.40nm		4.6mb
BW06	74.33	46	eP	52 30.00	-0.1
	1.0s		2.75nm		4.1mb
KRA	75.72	326	eP	52 37.60	0.0
PRU	77.99	328	ePc	52 50.70	0.6
			e	53 10.00	
KHC	79.05	328	P	52 57.00	1.0
EKA	79.16	341	Pc	52 56.10	-0.4
	0.5s		1.80nm		4.2mb
CDF	82.02	331	eP	53 11.70	-0.1
HAU	82.70	332	eP	53 14.70	-0.5
PGD	84.05	326	P	53 24.00	1.6
LOR	84.20	333	eP	53 23.20	0.3
	0.7s		4.40nm		4.6mb
BOB	84.25	328	P	53 23.00	-0.2
ASS	84.31	325	P	53 18.50	-5.1X
LDF	84.34	336	eP	53 24.10	0.6
LPL	84.66	330	eP	53 26.40	0.9
	0.7s		6.60nm		4.7mb
LPG	84.67	330	eP	53 26.30	0.7
	0.7s		6.60nm		4.7mb
AVF	84.79	333	eP	53 25.70	-0.1
	0.8s		8.05nm		4.6mb
CKI	84.99	329	P	53 27.00	0.1
BNI	85.08	330	P	53 28.00	0.5
MAF	85.55	333	eP	53 30.80	1.1
	0.7s		7.70nm		4.6mb
TCF	85.61	333	eP	53 31.30	1.3
LSF	85.87	334	eP	53 31.80	0.5
	0.7s		7.70nm		4.6mb
MFF	86.11	335	eP	53 33.10	0.7
	0.8s		8.05nm		4.6mb
RJF	86.71	333	eP	53 36.20	0.8
CAF	86.85	333	eP	53 37.60	1.5
	0.8s		12.10nm		5.0mb
LFF	87.29	334	eP	53 39.60	1.5
LPO	87.37	333	eP	53 39.80	1.3
	0.8s		10.75nm		5.0mb
SIV	147.81	45	PKP	00 37.00	3.2X

S.D. = 1.2 on 52 of 54 obs.

MAY 21, 1990 09h 49m 18.50± 0.48s
40.633 N ± 4.4km 23.145 E ± 4.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (THE). ML 2.9 (SKO).

THE	0.14	270	iPd	49 21.60	-0.1
			eS	49 23.40	
SOH	0.25	40	iPc	49 23.90	0.1
			eS	49 27.70	
KNT	0.56	341	iPc	49 29.00	-0.9
SRS	0.59	35	ePc	49 29.50	-1.0
			iS	49 38.20	
GRG	0.65	300	eP	49 30.60	-0.9
			eS	49 39.80	
OUR	0.70	115	ePc	49 32.80	0.4
			eS	49 41.90	
LIT	0.73	223	ePc	49 32.60	-0.3
			eS	49 43.50	
VAY	0.81	328	iPg	49 33.80	-0.5
			i	49 44.20	
			i	49 45.80	
PAIG	0.81	150	ePd	49 33.90	-0.4
			eS	49 46.80	
MMB	1.05	25	iPgc	49 39.00	0.6
KKB	1.23	358	iPg	49 41.00	-0.4
FNA	1.35	277	eP	49 43.60	0.2
			eS	50 01.30	
AGG	1.73	202	eP	49 49.20	0.4
OHR	1.84	286	e(Pn)	49 58.50	8.0X
SKO	1.86	317	ePn	49 53.00	2.4
PLD	1.88	38	ePg	49 55.00	4.1X
PGB	2.06	21	iP	49 56.00	2.3
ALN	2.22	82	eP	49 55.50	-0.4
IGT	2.42	244	eP	49 58.40	-0.4
PVL	3.05	32	eP	50 06.00	-1.7

S.D. = 1.1 on 18 of 20 obs.

• MAY 21, 1990 09h 50m 12.70± 0.66s
36.440 N ± 8.8km 72.269 E ±11.0km
DEPTH = 33.0km (normol)
4.3mb (5 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.67	217	eP	52 05.20	0.2
			eS	53 35.00	
NDI	8.79	150	eP	52 20.50	0.0
			eS	53 54.00	
MAIO	10.30	273	eP	52 41.00	-0.4
			eS	54 36.00	
DMN	14.00	125	P	53 24.80	-6.3X
	0.5s		26.00nm		5.2mb
PKI	14.22	125	P	53 27.20	-6.9X
GUN	14.32	123	P	53 27.40	-8.0X
HFS	43.74	322	eP	58 16.20	0.0
	0.5s		3.00nm		4.3mb
NB2	45.04	323	P	58 27.70	0.9
	0.7s		1.90nm		4.1mb

MBC 67.34 3 eP 01 05.00 -1.0
0.6s 2.00nm 4.4mb
INK 73.79 10 eP 01 46.00 1.0
YKA 81.25 3 eP 02 25.60 -0.7
0.8s 1.10nm 3.9mb
S.D. = 0.8 on 8 of 11 obs.

& MAY 21, 1990 10h 49m 16.70s
37.500 N 118.420 W
DEPTH = 4.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.6 (BRK), 3.1 (PAS).

FRI 1.15 244 iPc 49 37.60 -1.1
iS 49 52.30
CMB 1.65 290 iPc 49 46.20 -0.4
eS 50 08.20
CLC 1.81 158 eP 49 49.00 0.1
ISA 1.83 181 eP 49 49.50 0.2
LLA 2.20 247 e(P) 49 55.80 1.2
PRI 2.25 234 eP 49 56.10 0.6
iS 50 27.20
SAO 2.53 254 eP 49 59.90 0.7
MHC 2.57 267 ePd 50 01.20 1.3
eS 50 39.10
BKS 3.05 278 e(P) 50 57.70 51.1
PCC 3.15 271 e(P) 50 08.10 0.1
10 obs. assaciated

---

* MAY 21, 1990 11h 19m 03.23± 1.34s
34.630 S ±13.9km 71.526 W ±13.9km
DEPTH = 75.8 ± 10.9 km
4.8mb (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)

LNV 0.68 8 iPd 19 18.50 0.0
CHCH 1.00 46 iPd 19 21.40 -1.0
TACH 1.09 27 iP 19 22.20 -1.2
LCCH 1.15 358 iPc 19 24.00 -0.2
iS 19 39.80
PCH 1.31 40 iPd 19 25.50 -0.9
iS 19 42.50
SAN 1.38 32 iPd 19 26.40 -0.8
iS 19 44.10
i 19 45.50
IHA 1.60 357 iPd 19 30.80 0.6
iS 19 46.40
PEL 1.64 25 iPd 19 30.60 -0.1
FCH 1.66 39 iPd 19 30.50 -0.7
iS 19 50.50
ROCH 1.71 15 iPd 19 31.90 0.1
iS 19 54.00
JACH 2.09 22 iP 19 37.50 0.5
iS 20 02.00
RTBS 3.43 31 eP 19 57.00 1.6
RTCV 3.73 43 e(P) 20 00.50 0.9
RTCB 3.88 37 eP 20 03.00 1.2
ZON 3.89 39 eP 20 04.00 2.0
CFA 4.09 43 e(P) 20 05.10 0.4
RTLL 4.17 39 ePd 20 04.90 -1.0
eS 21 01.50
LPB 18.28 11 P 23 10.00 -3.8X
ZOBO 18.54 10 P 23 17.00 0.0
SIV 20.80 29 P 23 38.20 -2.3
SPA 55.55 180 iPc 28 34.00 1.2
0.9s 8.64nm 4.8mb
GBA 145.00 119 PKPc 38 32.90 -0.8
0.7s 3.60nm
S.D. = 1.2 on 21 of 22 obs.

MAY 21, 1990 13h 00m 09.75± 0.14s
53.558 N ± 3.4km 163.537 W ± 2.0km
DEPTH = 33.0km (normal)
5.7mb (86 obs.) 5.3Msz (18 obs.)
UNIMAK ISLAND REGION (10)
ML 5.7 (PMR). Ms 5.4 (BRK).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 12S, 25C
Centroid Location:
Origin Time 13:00:11.0 0.6
Lat 53.48N 0.06 Lon 163.19W 0.06
Dep 31.2 4.2 Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 1.31 0.07 Mtt=-1.15 0.09
Mff=-0.15 0.09 Mrt= 1.25 0.26
Mrf=-0.06 0.19 Mtf=-1.46 0.11
Principal Axes:
T Val= 2.06 Plg=55 Azm= 35
N 0.41 31 247
P -2.47 15 148
Best Double Couple:Mo=2.3*10**17
NP1:Strike=203 Dip=40 Slip= 38
NP2: 82 67 124

SDN 2.52 44 iPc 00 48.90 -0.3
KDC 7.52 52 eP 01 55.50 -4.3X
ADK 8.16 263 eP 02 08.00 -0.7
SVW 8.69 26 eP 02 14.70 -1.4
TTA 10.19 20 eP 02 34.50 -2.3
PMS 10.76 39 eP 02 40.20 -4.3X
ANM 11.08 356 P 02 48.50 -0.3
PMR 11.14 38 eP 02 45.30 -4.3X
TOA 12.57 40 eP 03 03.80 -5.1X
SMY 13.44 275 eP 03 18.70 -1.6
IMA 13.47 17 ePc 03 19.00 -1.8
DWY 16.20 40 P 03 52.80 -3.4X
SIT 16.38 66 eP 03 56.50 -2.0
1.2s 275.76nm 5.3mb
INK 20.43 32 eP 04 41.00 -5.4X
0.4s 21.00nm 4.8mb
GMW 26.30 87 eP 05 44.50 0.7
BMW 26.56 89 eP 05 47.20 0.9
YKA 26.78 51 eP 05 48.40 0.4
0.7s 37.80nm 5.1mb
RMW 26.92 86 eP 05 50.00 0.4
LON 27.27 87 eP 05 54.00 1.3
PNT 27.37 81 ePc 05 54.00 0.4
0.9s 58.00nm 5.2mb
MBC 28.16 21 iPc 05 59.40 -1.0
0.6s 25.00nm 5.1mb
VGB 28.52 89 eP 06 04.20 0.2
NEW 29.32 81 eP 06 10.50 -0.7
1.0s 32.50nm 5.0mb
FHC 29.36 100 eP 06 12.70 1.1
epP 06 26.70 56kmX
EDM 29.43 70 iPc 06 11.50 -0.7
pP 06 23.50 46kmX
WDC 30.35 99 ePd 06 21.00 0.7
epP 06 34.70 54kmX
ePcP 09 18.50
eScP 12 59.00
MIN 31.05 98 ePd 06 26.80 0.1
epP 06 40.70 56kmX
ePcP 09 20.70
ORV 31.61 99 eP 06 31.20 -0.3
ePcP 09 23.20
SES 31.89 74 eP 06 33.00 -0.8
0.7s 27.00nm 5.2mb
pP 06 45.00 46kmX
BRK 32.28 102 eP 06 37.50 0.2
Z 18s 6.00um 5.3Msz
ePcP 09 22.80
BKS 32.29 102 eP 06 37.30 -0.1
0.9s 33.00nm 5.2mb
Z 20s 12.00um 5.6Msz
N 20s 7.00um
E 20s 8.00um
e 06 41.70
e 06 56.10
e 07 13.50
eS 11 56.00
e 12 06.80
e 12 09.20
eLQ 14 06.00
eLR 15 10.80
MHC 33.00 102 eP 06 43.00 -0.8
Z 20s 2.00um 4.8Msz
N 20s 0.80um
E 20s 2.50um
ePcP 09 26.30
eS 12 10.00
eLQ 14 32.00
eLR 15 40.00
ARN 33.06 102 eP 06 44.00 -0.2
CMB 33.27 100 ePd 06 46.50 0.5
ePcP 09 26.50
eScP 13 10.00
LRM 33.31 82 eP 06 45.90 -0.6
LLA 33.90 103 ePd 06 52.00 0.5
KVN 33.95 97 eP 06 52.40 0.3
epP 07 07.00 58kmX
HPI 34.09 86 eP 06 53.50 0.1
FRI 34.37 101 eP 06 55.80 0.4
ePcP 09 30.20
PRI 34.40 103 eP 06 56.50 0.7
ePcP 09 30.70
PTI 35.01 87 eP 07 02.00 0.9
FFC 35.06 63 eP 07 00.00 -1.2
0.9s 15.00nm 4.9mb
TNP 35.11 97 eP 07 01.80 -0.2
0.8s 6.37nm 4.6mb X
epP 07 16.00 55kmX
KUSJ 35.23 274 eP 07 00.50 -2.2
IMW 35.27 84 eP 07 03.00 -0.4
ASAJ 35.87 277 P 07 07.70 -0.4
ISA 36.01 101 eP 07 09.00 -0.5
DUG 36.37 91 eP 07 12.70 0.1
0.8s 31.94nm 5.3mb
CLC 36.41 100 eP 07 13.00 0.1
HOOJ 36.49 274 P 07 12.40 -1.0
BW06 36.74 85 eP 07 15.20 -0.6
SBB 37.07 102 eP 07 19.00 0.6
DAU 37.16 89 eP 07 19.60 0.1
GSC 37.24 100 eP 07 20.00 0.2
MWC 37.26 103 eP 07 20.00 -0.2
MRRJ 37.79 276 eP 07 22.60 -1.6
TPC 38.52 101 eP 07 31.00 0.4
PLM 38.58 102 eP 07 33.00 1.8
BAR 39.17 103 eP 07 36.00 0.0
AOMJ 39.34 274 eP 07 37.00 -0.3
OFUJ 39.50 271 P 07 38.30 -0.4
GLA 39.98 101 eP 07 43.00 0.3
YAMJ 41.06 272 P 07 51.30 -0.2
GOL 41.12 85 eP 07 53.00 0.7
Z 20s 2.00um 5.0Msz
GLD 41.17 85 eP 07 53.00 0.4
1.0s 50.00nm 5.2mb
RSON 41.31 64 eP 07 52.50 -0.9
1.2s 158.53nm 5.6mb
epP 08 04.00 41kmX
KAKJ 42.29 269 P 08 01.50 0.0
NIIJ 42.30 271 P 08 01.80 0.2
CHJJ 43.10 270 P 08 08.40 0.2
MDJ 43.19 286 Pd 08 07.30 -1.5
0.8s 30.00nm 5.1mb
Z 23s 4.40um 5.3MszX
esP 08 20.00
S 14 36.00
MAT 43.23 271 iPc 08 09.70 0.4
1.2s 376.56nm 6.0mb
Z 20s 3.19um 5.2Msz
eS 14 34.00
MTMJ 43.45 272 P 08 11.00 -0.1
ALQ 43.62 92 eP 08 12.00 -0.7
1.0s 28.75nm 5.0mb
Z 20s 2.43um 5.1Msz
iPcP 10 00.00
IIDJ 44.13 270 P 08 16.90 0.3
TSRJ 45.24 272 P 08 25.60 0.1
CN2 46.05 288 iPc 08 30.60 -1.1
5.0s 600.00nm 5.8mb X
Z 20s 2.80um 5.2Msz
N 14s 1.90um
E 14s 1.10um
pP 08 42.00 40kmX
PP 10 18.00
eS 15 09.00
WKYJ 46.38 271 eP 08 34.80 0.3
YONJ 46.98 273 eP 08 38.90 -0.3
TKSJ 47.46 272 P 08 43.10 0.1
KBS 47.75 1 iPc 08 44.40 -0.4
SNY 48.36 287 iPc 08 49.50 -0.4
1.3s 200.00nm 6.0mb
Z 22s 3.90um 5.3Msz
N 15s 1.50um
E 14s 1.50um
pP 09 00.00 36kmX
PP 10 42.50
S 15 48.00
ScS 18 42.50
MEO 48.42 85 iPc 08 50.00 -0.5
FVM 51.04 77 eP 09 08.30 -2.2
UYO 51.30 83 iPd 09 10.50 -2.0
DL2 51.41 286 eP 09 12.00 -1.3
6.0s 500.00nm 5.7mb X
Z 24s 2.30um 5.1MszX
E 18s 2.50um
S 16 29.00
POW 51.85 79 eP 09 13.00 -3.6X
OLY 52.13 80 eP 09 15.40 -3.4X

21d 13h

```
SCH     52.13  47 ePc     09 17.20  -1.4
        1.1s   181.00nm             5.9mb
                  pP      09 28.00  37kmX
BJI     53.74 290 eP      09 30.00  -0.5
        5.0s   480.00nm             5.8mb X
      Z 20s      3.05um             5.4Msz
      N 17s      2.14um
                  esP     09 39.00
                  ePP     11 32.00
                  eS      17 00.00
                  esS     17 14.00
JNW     54.45  10 eP      09 34.50  -0.9
RSCP    55.50  75 eP      09 40.80  -2.8
        0.8s     4.01nm             4.5mb X
HHC     55.73 294 Pc      09 44.80  -0.5
        1.0s   200.00nm             6.1mb
      Z 20s      5.50um             5.6Msz
      N 16s      4.20um
      E 15s      2.50um
                  pP      09 57.00  43kmX
                  PcP     10 42.00
                  S       17 31.50
WNY     55.81  60 eP      09 43.10  -2.7
TIA     55.85 286 Pc      09 44.90  -1.2
        8.0s   700.00nm             5.7mb X
      Z 22s      2.60um             5.3Msz
      N 16s      1.80um
      E 16s      0.90um
                  eS      17 32.00
HBVT    56.24  60 eP      09 44.20  -4.6X
TKL     56.49  74 eP      09 47.50  -3.2X
BTO     56.74 295 iPc     09 52.00  -0.6
      N 15s      4.00um
      E 15s      3.70um
                  pP      10 03.00  37kmX
                  S       17 46.00
KEV     56.76 356 iP      09 49.80  -2.3
        0.8s    39.60nm             5.5mb
GUMO    56.79 246 eP      09 47.20  -5.8X
        0.7s    68.61nm             5.8mb
      Z 20s      0.88um             4.9Msz
                  eS      17 42.00
CBM     56.92  55 eP      09 50.00  -3.6X
NAV     57.01  71 eP      09 51.90  -2.5
TRO     57.11 359 eP      09 53.10  -1.5
SSE     57.15 279 Pd      09 55.00  -0.4
        5.0s   900.00nm             6.1mb X
      Z 20s      0.90um             4.9Msz
                  pP      10 01.50  21kmX
                  S       17 50.00
                  sS      18 03.00
                  ScS     19 43.00
BLA     57.29  70 eP      09 53.80  -2.6
        0.8s    40.27nm             5.5mb
                  epP     10 05.50  40kmX
TIY     57.45 291 iPd     09 57.20  -0.3
        1.3s   100.00nm             5.7mb
      Z 16s      3.60um             5.6MszX
      N 15s      2.20um
                  pP      10 08.00  36kmX
                  ScS     19 45.00
NJ2     57.82 282 Pc      09 59.00  -1.1
        5.0s   500.00nm             5.8mb X
                  S       17 58.00
CVL     57.84  68 eP      09 58.40  -1.8
                  epP     10 09.00  35kmX
MRX     58.00 100 (P)     10 01.80   0.3
AKU     58.19  16 iPc     10 02.90   0.7
        1.5s   111.11nm             5.7mb
PRM     58.42  74 eP      10 02.90  -1.4
JSC     58.92  73 eP      10 04.80  -2.9
LHS     59.03  73 eP      10 05.50  -3.0
SOD     59.15 355 iP      10 07.00  -1.9
WHN     61.55 284 Pc      10 25.00  -0.7
        1.2s   100.00nm             5.8mb
      Z 16s      1.80um             5.3MszX
      E 12s      1.00um
                  pP      10 35.50  35kmX
XAN     62.07 290 iPc     10 28.20  -1.1
        4.0s   700.00nm             6.1mb X
      N 16s      1.90um
      E 17s      1.70um
                  S       18 48.00
GTA     63.00 300 iPc     10 34.20  -1.3
        1.2s   200.00nm             6.1mb
      Z 17s      6.70um             5.9MszX
      E 15s      2.90um
```

```
QZH     63.23 276 eP      10 37.00   0.0
      Z 28s      2.23um             5.2MszX
      E 16s      3.02um
LZH     63.35 295 Pc      10 36.00  -1.9
        1.4s   330.00nm             6.3mb
      Z 16s      5.20um             5.8MszX
      N 16s      3.70um
      E 14s      2.10um
                  sP      10 45.00
                  ScS     20 29.00
SUF     63.82 355 iP      10 39.00  -1.3
        0.5s    22.80nm             5.5mb
WMQ     65.49 311 iPc     10 51.10  -0.5
        6.0s   900.00nm             6.0mb X
      Z 15s      2.80um             5.6MszX
                  S       19 32.00
NB2     65.67   3 P       10 50.70  -1.7
        1.3s   155.00nm             5.9mb
ASK     65.95   6 iPc     10 54.00  -0.1
BER     66.06   6 iP      10 54.20  -0.6
NUR     66.10 356 iP      10 54.00  -1.0
        1.1s   148.80nm             6.0mb
      Z 16s      2.00um             5.4MszX
                  LR      41 28.00
HFS     66.64   2 eP      10 56.60  -1.9
        1.2s   169.00nm             6.0mb
      Z 16s      0.97um             5.1MszX
                  LR      34 03.00
UPP     66.93 359 iP      10 58.90  -1.5
CD2     67.29 291 iPc     11 03.00  -0.2
      Z 17s      1.80um             5.4MszX
      N 13s      1.50um
                  S       19 56.00
GZH     67.75 279 Pd      11 06.00   0.0
      Z 24s      2.30um             5.3MszX
      N 14s      1.70um
      E 14s      1.00um
                  S       20 05.00
HKC     67.86 278 iP      11 07.10   0.4
BAG     68.59 269 eP      11 10.00  -1.6
                  eS      20 13.00
GYA     69.05 286 iPc     11 14.00  -0.3
        3.0s  1100.00nm             6.4mb
      Z 24s      1.40um             5.1MszX
      N 20s      2.90um
      E 20s      4.10um
                  S       20 18.00
                  sS      20 26.00
EKA     70.27  12 Pc      11 20.70  -0.4
        1.5s   155.90nm             5.9mb
KMI     72.32 288 Pc      11 34.00  -0.2
        3.0s   500.00nm             6.0mb
      Z 20s      4.30um             5.7Msz
      N 10s      0.60um
      E 15s      2.20um
                  pP      11 45.00  36kmX
                  PP      14 11.00
                  S       20 58.00
ETA     72.44  14 iPc     11 34.10   0.0
        1.2s   276.00nm             6.1mb
VAL     72.52  17 iP      11 34.70   0.1
ECP     72.92  14 eP      11 36.80  -0.1
QIZ     72.94 279 P       11 38.50   0.9
                  eS      21 05.50
WIT     73.68   6 ePc     11 42.50   1.1
                  e       11 53.00
KSH     74.12 316 Pd      11 45.00   0.7
      E 16s      6.10um
                  S       21 17.00
DBN     74.29   7 eP      11 44.00  -0.9
      Z 20s      1.60um             5.3Msz
                  eS      21 21.00
                  e(PKKP30 30.00
BRN     74.36   2 ePc     11 46.00   0.7
WTS     74.51   6 iPc     11 46.30   0.1
        1.0s   102.00nm             5.8mb
                  e       11 57.00
LSA     75.02 300 Pc      11 50.00  -0.1
      Z 16s      1.00um             5.2MszX
      N 16s      2.00um
                  S       21 26.50
PMG     75.32 231 eP      11 56.00   4.7X
CLL     75.47   2 iPc     11 51.20  -0.5
        1.4s   135.00nm             5.8mb
                  ipP     12 01.00  31kmX
UCC     75.52   8 P+      11 52.80   0.8
ENN     75.67   7 iPc     11 53.00   0.1
```

```
        1.0s   164.00nm             6.0mb
                  e       12 03.00
SNF     75.80   8 iPc     11 53.56   0.0
BRG     75.92   2 iPc     11 54.20  -0.1
        1.3s   110.00nm             5.7mb
                  i       12 03.10
                  e       21 48.00
KSP     75.97   0 iPc     11 54.30  -0.3
        1.3s    74.00nm             5.5mb
                  i       12 05.00
MOX     76.09   3 iP      11 55.30   0.0
        1.3s   184.00nm             5.9mb
      Z 24s      1.10um             5.1MszX
      N 24s      0.70um
      E 20s      0.50um
                  ipP     12 05.00  31kmX
DOU     76.24   8 iPc+    11 56.20   0.1
        1.0s    97.20nm             5.8mb
                  S       21 42.00
TNS     76.37   5 iPc     11 57.00   0.1
HOF     76.43   3 iPc     11 57.10  -0.1
        1.2s    55.00nm             5.4mb
KRA     76.72 358 ePc     11 57.80  -1.0
        1.1s   100.00nm             5.7mb
      Z 15s      2.00um             5.6MszX
      E 15s      1.80um
                  e       12 14.50
                  e       22 28.00
PRU     76.82   1 iPc     11 59.40   0.1
      Z 16s      1.70um             5.5MszX
      N 16s      1.70um
      E 16s      0.50um
                  e       12 09.50
GRF     77.03   3 iPc     12 01.10   0.5
        1.2s   156.00nm             5.9mb
      Z 22s      1.10um             5.1Msz
FLN     77.05  11 iPc     12 00.30  -0.3
        1.3s    79.40nm             5.6mb
LDF     77.26  11 iPc     12 01.50  -0.3
        1.3s    93.85nm             5.7mb
GWF     77.57   6 P       12 03.47  -0.1
SPC     77.58 357 iP      12 04.60   0.8
WET     77.63   2 iPc     12 04.40   0.5
        1.3s   132.00nm             5.8mb
KHC     77.66   2 iPc     12 04.70   0.7
        1.2s   100.00nm             5.7mb
      Z 18s      1.60um             5.4Msz
      N 16s      1.50um
      E 14s      0.50um
                  i       12 15.00
LPF     77.70  12 iPc     12 04.60   0.4
        1.2s    95.20nm             5.7mb
CDF     78.11   6 P       12 06.67   0.1
WLS     78.11   6 P       12 06.46  -0.1
VITF    78.21   7 P       12 06.87  -0.1
ECH     78.30   6 P       12 07.38  -0.2
HAU     78.45   7 iPc     12 08.50   0.1
        1.3s   111.90nm             5.7mb
FUR     78.56   4 iPc     12 09.60   0.6
        1.3s   157.00nm             5.9mb
ZST     78.62 360 iPc     12 10.40   1.1
        1.0s    72.00nm             5.6mb
BSF     78.65   7 P       12 09.51  -0.1
MOF     78.66   6 P       12 09.56  -0.1
FEL     78.69   6 P       12 09.56  -0.3
KMR     78.74   2 iP+     12 10.30   0.3
                  ipP     12 21.40  36kmX
                  isP     12 25.20
SLE     78.83   5 ePc     12 10.50   0.0
PSZ     78.86 358 iP      12 13.10   2.4
LOE     78.95 284 eP      12 11.00  -0.6
LOR     78.98   9 iPc     12 11.30   0.0
        1.2s    80.35nm             5.6mb
SRO     78.99 359 iP      12 11.70   0.4
                  i       12 22.30
                  i       13 09.60
BHG     79.05   2 iPc     12 12.40   0.7
        1.4s   130.00nm             5.7mb
BBS     79.07   6 P       12 11.88   0.1
ZLA     79.10   6 ePc     12 12.30   0.3
LOMF    79.13   7 P       12 12.50   0.3
SOP     79.14 360 iPc     12 13.40   1.3
SSF     79.15   9 iPc     12 12.30   0.1
GUN     79.16 302 Pc      12 13.40   0.4
MFF     79.22  12 iPc     12 12.80   0.2
        1.2s   124.95nm             5.8mb
LBF     79.27   9 iPc     12 12.80  -0.1
```

	1.2s	65.45nm		5.5mb	
BUD	79.31	358 ePc	12	15.20	2.2
SAX	79.39	5 ePc	12	14.30	0.5
AVF	79.41	9 iPc	12	13.60	0.0
	1.3s	119.15nm		5.7mb	
CHG	79.44	287 iPc	12	13.90	-0.3
	1.0s	30.00nm		5.2mb	
BGF	79.59	10 iPc	12	14.60	0.0
	1.3s	95.65nm		5.6mb	
SMF	79.60	9 iPc	12	14.50	-0.1
	1.2s	104.15nm		5.7mb	
DZM	79.67	208 iPc	12	16.50	1.2
PKI	79.68	303 Pc	12	15.80	0.0
KBA	79.71	2 iPc	12	16.50	1.1
	1.3s	250.00nm		6.1mb	
LLS	79.75	5 ePc	12	16.30	0.6
LSF	79.76	10 iPc	12	15.40	-0.1
	1.2s	101.15nm		5.7mb	
TCF	79.79	10 iPc	12	15.70	0.0
	1.2s	41.65nm		5.3mb	
DMN	79.80	303 Pc	12	16.60	0.2
OGA	79.84	4 iPc	12	16.80	0.6
MAF	79.89	10 iPc	12	16.60	0.3
	0.8s	18.80nm		5.1mb	
OSS	79.99	4 ePc	12	17.40	0.5
AGO	80.12	9 P	12	17.65	0.2
FVI	80.18	3 P	12	17.80	0.1
PLDF	80.25	9 P	12	18.71	0.5
PYM	80.40	10 P	12	19.18	0.1
EMS	80.42	7 ePc	12	20.10	0.8
DIX	80.44	6 ePc	12	20.50	1.0
MMK	80.50	6 ePc	12	21.00	1.2
VRI	80.56	353 eP	12	19.50	-0.3
BDT	80.65	286 eP	12	20.60	0.0
	1.0s	50.40nm		5.5mb	
CTI	80.69	3 Pc	12	20.50	-0.1
RJF	80.69	11 iPc	12	20.50	0.0
	1.2s	41.65nm		5.3mb	
LJU	80.76	1 eP	12	20.50	-0.3
MDI	80.87	5 Pc	12	21.00	-0.4
PTJ	80.92	0 eP	12	22.10	0.3
LBL	80.94	9 P	12	22.28	0.5
LPL	80.95	7 iPc	12	23.40	1.2
	1.0s	22.00nm		5.1mb	
LFF	80.96	11 iPc	12	22.40	0.5
	1.3s	115.55nm		5.7mb	
LPG	80.97	7 iPc	12	23.60	1.2
	1.0s	34.00nm		5.3mb	
ZAG	81.00	0 iPc	12	22.50	0.4
LSD	81.04	7 P	12	24.26	1.6
CEY	81.07	1 ePc	12	22.40	-0.1
SAL	81.08	4 P	12	22.50	0.0
TRI	81.08	2 iPc	12	22.40	-0.1
BZS	81.11	356 eP	12	23.00	0.4
CAF	81.12	10 iPc	12	23.20	0.4
	1.3s	57.75nm		5.4mb	
CFR	81.13	352 eP	12	22.00	-0.7
		e	37	33.00	
EMON	81.25	17 eP	12	24.00	0.5
NST	81.25	284 eP	12	25.00	1.2
LPO	81.27	11 iPc	12	23.90	0.4
	1.3s	65.00nm		5.5mb	
CMP	81.28	354 ePc	12	27.00	3.4X
VBY	81.31	1 iPc	12	24.00	0.3
RSP	81.35	7 P	12	25.18	1.1
BNI	81.41	7 Pc	12	25.90	1.5
RRL	81.55	7 P	12	27.33	2.0
STS	81.56	18 e(P)	12	24.00	-1.0
BOB	81.87	5 Pc	12	27.90	1.2
BEO	81.94	357 iP	12	27.30	0.3
		i	12	37.70	
DOI	82.00	7 P	12	28.00	0.6
PCP	82.04	6 P	12	28.25	0.6
CKI	82.14	6 P	12	28.30	0.2
EZAM	82.24	19 eP	12	30.00	1.4
ROB	82.25	6 P	12	28.97	0.3
STV	82.26	7 P	12	28.56	-0.2
ENR	82.29	7 P	12	28.66	-0.3
ERUA	82.29	17 eP	12	30.00	1.1
FIN	82.35	6 P	12	29.18	0.0
BDI	82.63	4 P	12	32.00	1.3
IMI	82.63	6 P	12	29.28	-1.4
SBF	82.65	7 iPc	12	31.50	0.7
	1.2s	95.20nm		5.7mb	
NDI	82.70	309 iPc	12	31.20	0.0
	1.0s	60.00nm		5.6mb	
		eS	23	04.00	
EPF	82.80	12 iPc	12	31.40	-0.2
	1.3s	32.50nm		5.3mb	
SFI	82.82	3 Pc	12	33.20	1.7
ECRI	82.83	14 eP	12	32.40	0.6
PGD	82.86	3 Pc	12	33.50	1.5
FRF	82.89	7 iPc	12	32.60	0.6
	1.4s	87.15nm		5.7mb	
PII	82.96	4 P	12	32.30	0.0
LRG	82.98	7 iPc	12	33.50	1.1
	1.4s	95.85nm		5.7mb	
MAIO	83.07	326 iPc+	12	33.70	0.6
		eS	23	05.00	
LMR	83.11	7 iPc	12	33.90	0.8
	1.4s	87.15nm		5.7mb	
ARV	83.27	3 Pc	12	34.90	0.9
PVL	83.30	353 iPc	12	36.00	1.9
HVAR	83.64	0 iP	12	35.40	-0.4
ASS	83.69	3 P	12	37.00	0.8
ETER	83.80	10 eP	12	37.80	1.2
NNT	83.94	283 eP	12	34.00	-3.7X
JMB	83.96	352 iP	12	38.00	0.6
PGB	84.04	354 iPc	12	38.00	0.1
VTS	84.05	355 iPc	12	38.00	-0.1
PGF	84.06	6 iPc	12	38.90	0.8
	1.3s	184.85nm		6.1mb	
KVT	84.24	345 iP	12	39.90	1.0
MAO	84.29	4 Pc	12	39.50	0.4
MNS	84.38	3 Pc	12	39.70	0.1
PLD	84.45	354 eP	12	40.00	0.1
GUD	84.50	16 eP	12	41.00	0.6
ETOR	84.65	14 eP	12	41.40	0.3
EPLA	84.74	17 eP	12	42.50	1.0
SKO	84.75	356 iPc	12	42.50	1.1
	1.2s	178.00nm		6.1mb	
Z	20s	1.58um		5.4Msz	
N	19s	1.29um			
E	18s	1.33um			
		iPcP	12	53.80	
		iS	23	04.00	
		iScS	23	10.00	
		LR	56	03.00	
KKB	84.78	355 iPc	12	42.00	0.4
AZI	84.79	2 P	12	42.50	0.9
KDZ	84.86	353 iPc	12	58.00	16.0X
RZN	84.86	354 iPc	12	43.00	0.8
EBR	84.99	12 eP	12	42.00	-0.6
RDP	85.01	3 P	12	44.00	1.2
MMB	85.02	355 iPc	12	44.00	1.2
SDI	85.09	2 Pc	12	43.60	0.4
ITU	85.09	351 eP	12	44.00	0.9
CTA	85.13	226 iPd	12	44.20	0.7
	1.0s	20.00nm		5.3mb	
		i	12	56.00	
		iS	23	12.00	
DUI	85.14	2 P	12	44.90	1.4
TAB	85.16	337 eP	12	43.00	-0.7
TOL	85.26	16 eP	12	40.00	-4.1X
		ePP	16	00.00	
		eS	23	10.00	
		eSS	26	06.00	
RDO	85.35	353 iPc	12	45.00	0.6
VAY	85.35	355 iP	12	45.20	0.8
	1.3s	126.00nm		6.0mb	
		iPcP	12	56.40	
KNT	85.49	355 iPc	12	46.00	0.8
SRS	85.50	355 iPc	12	45.60	0.4
ALN	85.56	353 iPc	12	45.70	0.2
YLV	85.59	350 iP	12	46.00	0.2
OHR	85.63	357 iPd	12	46.00	0.1
	1.2s	262.00nm		6.3mb	
		iPcP	12	54.00	
		i	13	07.20	
GRG	85.72	355 iPc	12	47.00	0.7
QUE	85.82	318 eP	12	47.50	0.3
		ePP	16	04.90	
		eSKS	23	13.90	
BBTK	85.91	347 eP	12	40.00	-7.4X
BRT	85.94	359 Pd	12	48.50	1.1
FNA	85.94	356 iPc	12	47.20	-0.3
BSS	86.02	1 P	12	48.20	0.5
TEH	86.06	332 eP	12	46.00	-2.3
MTN	86.24	243 iPc	12	49.20	0.1
	0.7s	64.00nm		6.0mb	
SGO	86.25	1 Pd	12	49.00	0.1
OUR	86.26	354 ePc	12	48.70	-0.2
LCI	86.47	359 P	12	51.00	1.0
LIT	86.57	355 iPc	12	50.40	-0.1
MGR	86.68	1 P	12	50.70	-0.3
ORI	86.75	0 P	12	49.00	-2.4
ALT	87.01	349 eP	12	53.00	0.2
KEK	87.06	357 iPd	12	53.50	0.6
TDS	87.16	0 P	12	54.30	0.9
IGT	87.22	357 iPc	12	53.70	0.0
MSL	87.49	339 ePd	12	56.00	1.0
		eSKS	23	24.00	
		eSKKS	24	51.00	
AGG	87.65	355 ePc	12	55.10	-0.7
SLY	87.71	337 eP	12	56.50	0.5
		eSKS	23	23.00	
SNG	87.75	279 eP	12	58.20	1.7
AAPN	87.76	16 iPc	12	57.50	1.0
ASMO	87.78	16 iPc	12	57.80	1.3
KHL	87.80	350 eP	12	56.00	-0.6
ALOJ	87.96	16 iPc	12	58.50	1.0
MAL	88.28	17 iP-	13	04.00	5.2X
		iPP	16	28.00	
		eS	23	40.00	
ELL	89.31	349 eP	13	13.00	9.1X
ITM	89.51	356 eP	13	04.00	-0.7
IPM	89.58	277 ePc	13	06.70	1.4
RMQ	89.78	222 iPc	13	07.00	1.2
		i	13	20.00	
VLI	89.92	355 eP	13	05.50	-1.1
BHD	90.19	337 ePd	13	09.00	1.1
		eSKS	23	40.00	
		eSKKS	24	04.00	
WB5	90.49	236 eP	13	08.70	-0.5
		i	13	21.10	
WRA	90.55	236 Pc	13	08.90	-0.7
	0.6s	3.40nm		4.8mb	
HYB	91.60	302 iPc	13	14.60	0.0
	1.0s	140.00nm		6.3mb	
QLP	91.72	225 eP	13	15.30	0.6
HRI	91.93	344 eP	13	16.00	0.0
DSI	93.65	344 eP	13	24.00	0.2
PRNI	94.91	344 eP	13	30.00	0.3
CMS	95.38	222 eP	13	46.60	15.1X
	1.0s	9.00nm			
GBA	95.39	301 Pc	13	30.90	-1.1
	1.0s	31.00nm		5.7mb	
KOD	98.22	300 eP	13	46.00	0.8
TIC	117.34	24 PKP	18	52.20	-1.2
KIC	117.68	24 PKP	18	52.60	-1.5
LIC	117.74	24 PKP	18	53.00	-1.2
BCAO	122.20	358 iPKPc	19	02.00	-0.7
	0.8s	8.00nm			
SPA	143.37	180 iPKPc	19	38.20	-2.8X
	0.9s	10.00nm			
		e	20	19.00	
BUL	145.36	340 iPKPd	19	35.90	-9.9X
	1.0s	110.50nm			
		ipP	19	44.80	
BFT	150.37	335 iPKPc	20	00.70	7.0X
	1.0s	160.00nm			
KSR	151.26	340 iPKPc	20	00.50	5.5X
	0.8s	34.38nm			
MAW	154.02	219 ePKP	20	05.00	7.7X
BLF	154.55	340 iPKPc	20	02.00	2.5X

S.D. = 0.9 on 328 of 355 obs.

MAY 21, 1990 13h 24m 36.69± 0.14s
8.137 S ± 3.5km 109.043 E ± 3.8km
DEPTH = 27.5km (6 depth phases)
5.5mb (46 obs.) 5.2Msz (3 obs.)
JAVA (277)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 13:24:47.5 0.5
Lat 8.71S 0.05 Lon 109.49E 0.07
Dep 30.7 5.0 Half-duration 2.6
Moment Tensor; Scale 10**17 Nm
Mrr= 1.44 0.11 Mtt=-1.90 0.13
Mff= 0.46 0.19 Mrt= 2.45 0.43
Mrf=-0.35 0.25 Mtf= 0.81 0.12
Principal Axes:

	Val=	Plg=	Azm=
T	2.74	62	356
N	0.65	7	101
P	-3.39	27	194

Best Double Couple:Mo=3.1*10**17
NP1:Strike=303 Dip=19 Slip= 113
NP2: 98 72 82

21d 13h

KGM	11.59	330	ePd	27	30.20		6.8X
			e	28	23.00		
KLM	13.38	326	eP	27	53.00		5.6X
PSI	14.75	316	ePc	28	05.70		0.3
IPM	14.95	327	ePc	28	12.30		4.3X
	0.9s	29.80nm				4.6mb	
			e	28	25.10		
TSM	15.23	37	ePc	28	20.50		8.9X
NANU	15.64	157	iPd	28	10.80		-6.1X
KKM	15.80	27	ePc	28	25.00		5.9X
	1.1s	175.40nm				5.1mb	
			e	30	30.50		
SNG	17.38	331	eP	28	33.80		-5.2X
			eS	32	05.00		
MEKA	20.47	155	eP	29	13.60		-1.4
			eS	32	41.00		
KNA	20.71	113	iPc	29	17.60		0.0
	0.7s	316.00nm				5.8mb	
MRWA	21.97	164	iPd	29	29.30		-0.9
MTN	22.21	104	iPc	29	33.60		0.9
			eS	33	40.00		
DAV	22.37	48	eP	29	38.00		3.7X
NNT	22.57	336	eP	29	23.70		-12.6X
BAL	23.48	163	eP	29	45.00		0.0
			eS	33	59.00		
WARB	24.54	139	eP	29	55.00		-0.4
	0.4s	15.00nm				4.9mb	
			eS	34	23.00		
MUN	24.64	165	eP	29	55.00		-1.3
	0.9s	97.00nm				5.4mb	
			e	30	10.00		64kmX
			eS	34	22.00		
KLB	24.71	162	eP	29	55.00		-2.0
			eS	34	25.00		
NST	25.25	340	eP	30	04.00		1.8
COOL	25.30	155	eP	30	01.00		-1.6
			e	30	20.00		85kmX
			eS	34	39.00		
LOE	26.39	344	eP	30	10.00		-2.8X
			e	37	13.00		
RKG	26.83	165	eP	30	15.00		-1.8
BAG	26.93	25	eP	30	18.00		0.0
QIZ	27.01	2	eP	30	18.00		-0.4
N	18s	4.00um					
			PP	31	07.00		
			eS	34	55.50		
BDT	27.10	339	eP	30	19.50		0.2
WB5	27.16	118	iPc	30	19.50		-0.4
WRA	27.16	118	Pd	30	20.20		0.3
	0.9s	128.90nm				5.6mb	
CHG	28.57	340	ePc	30	32.50		-0.2
	1.0s	17.50nm				4.7mb	
			e	37	20.60		
FORR	28.77	144	eP	30	33.00		-1.3
	0.4s	19.00nm				5.2mb	
			eS	35	55.00		
KMI	33.62	350	Pc	31	19.00		1.6
GYA	34.47	356	iPc	31	26.00		1.5
	1.2s	100.00nm				5.6mb	
			PcP	34	00.00		
			S	36	53.00		
			ScP	37	39.60		
			ScS	41	41.00		
KOD	36.35	300	iPc	31	43.80		2.9X
	0.8s	94.03nm				5.7mb	
PMG	37.67	95	iPc	31	52.20		0.5
	1.0s	180.00nm				5.9mb	
CTA	37.90	112	iPc	31	54.60		1.0
	1.2s	218.75nm				5.9mb	
			iPcP	34	08.50		
			iS	37	42.00		
			iScS	42	00.00		
QLP	38.08	123	iPc	31	56.30		1.3
GBA	38.09	304	Pc	31	54.30		-0.9
	0.8s	60.30nm				5.5mb	
ADE	38.12	139	iPc	31	55.50		0.2
	0.9s	75.63nm				5.5mb	
WHN	38.79	7	eP	32	02.50		1.6
CD2	39.15	353	eP	32	04.00		0.0
			eS	38	01.00		
HYB	39.40	310	iPc	32	06.50		0.3
	1.0s	100.00nm				5.5mb	
SSE	40.71	16	Pd	32	18.50		1.8
	1.0s	40.00nm				5.1mb	
Z	20s	1.40um				4.8Msz	
N	15s	0.90um					
E	16s	0.90um					

NJ2	41.05	13	Pd	32	21.80		2.4
Z	16s	1.10um				4.8MszX	
N	15s	2.30um					
E	15s	1.10um					
			PcP	34	20.00		
			ScP	38	04.00		
			S	38	36.00		
CMS	41.37	129	iPc	32	22.60		0.4
	0.8s	38.00nm				5.2mb	
LSA	41.37	336	P	32	22.20		-0.5
GUMO	41.60	59	eP	32	23.70		-0.6
	0.7s	86.40nm				5.6mb	
PJG	41.60	59	eP	32	23.80		-0.5
GUA	41.62	59	eP	32	24.40		0.0
	0.7s	120.55nm				5.7mb	
RMQ	41.85	121	iPc	32	27.70		1.5
	0.9s	40.00nm				5.1mb	
BFD	41.92	139	iPc	32	26.70		0.0
XAN	41.94	360	iPc	32	27.10		0.3
	1.0s	100.00nm				5.5mb	
N	14s	1.90um					
E	14s	1.70um					
			S	38	38.00		
PKI	42.23	328	P	32	28.40		-1.3
GUN	42.26	329	P	32	29.00		-0.9
DMN	42.42	328	P	32	30.00		-1.2
	0.9s	72.00nm				5.4mb	
POO	43.68	308	iPc	32	42.50		1.3
TOO	44.10	137	eP	32	46.00		1.6
			e	34	30.00	584kmX	
LZH	44.26	354	P	32	46.00		0.2
	1.5s	73.00nm				5.3mb	
			pP	32	54.00		27km
KAGJ	44.35	27	eP	32	46.40		0.0
BWA	44.62	132	eP	32	50.90		2.2
TIA	44.76	9	eP	32	49.20		-0.5
	1.2s	40.00nm				5.2mb	
CAN	45.45	133	eP	32	55.90		0.6
KUMJ	45.47	26	eP	32	55.20		-0.2
BRS	45.54	121	iPd	32	58.00		1.9
			i	33	06.50		28km
			e	33	29.50		
			e	33	57.00		
			i	35	35.00		
CNB	45.71	132	eP	32	57.00		-0.4
TIY	45.72	4	P	32	57.30		-0.1
COO	45.80	125	iPd	33	00.20		2.0
	1.0s	54.00nm				5.4mb	
SHNJ	46.95	25	eP	33	06.80		-0.2
NDI	47.78	321	iPc	33	11.50		-2.2
	0.8s	89.55nm				5.8mb	
GTA	48.07	350	iPc	33	16.80		0.8
			PcP	34	43.00		
			ScP	38	32.80		
			ScS	43	01.00		
DL2	48.24	13	eP	33	16.00		-1.1
	1.0s	100.00nm				5.8mb	
BJI	48.39	7	eP	33	18.50		0.3
	1.0s	85.00nm				5.7mb	
			PcP	34	45.00		
			eScS	43	05.00		
BTO	48.50	1	eP	33	20.00		0.8
HHC	48.80	3	P	33	22.00		0.5
HNR	50.29	95	eP	33	33.00		-0.3
IIDJ	51.22	30	P	33	38.70		-1.3
SNY	51.48	14	eP	33	39.80		-2.0
	1.1s	100.00nm				5.7mb	
MTMJ	52.04	29	P	33	44.70		-1.6
MAT	52.20	30	iPc	33	45.50		-1.9
	1.1s	72.15nm				5.5mb	
CHJJ	52.21	31	P	33	45.80		-1.7
KAKJ	52.93	32	P	33	49.90		-2.9X
CN2	53.79	15	Pc	33	57.40		-1.6
	1.0s	100.00nm				5.8mb	
			PcP	35	05.00		
YAMJ	54.38	30	P	34	02.30		-1.2
WMQ	55.22	341	eP	34	08.30		-1.4
			pP	34	17.00		28km
			SKS	43	51.00		
QUE	55.54	315	eP	34	10.00		-2.4
MDJ	55.69	18	eP	34	12.00		-0.9
			epP	34	16.50		15kmX
OFUJ	55.89	30	P	34	12.80		-1.6
KSH	56.40	330	eP	34	18.00		-0.3
AOMJ	56.41	28	eP	34	17.20		-0.9
DZM	56.82	111	iPc	34	21.60		0.0
MRRJ	58.20	28	eP	34	30.00		-0.7

PVC	58.35	106	iP	34	33.20		1.0
HOOJ	59.21	29	eP	34	37.50		-0.2
ASAJ	60.24	27	eP	34	43.50		-1.3
KUSJ	60.43	29	eP	34	44.80		-1.3
MSZ	62.37	136	P	34	58.50		-0.8
MAIO	64.15	317	iPc	35	10.00		-1.3
THZ	65.19	132	P	35	17.50		-0.4
KHZ	65.79	133	P	35	20.60		-1.0
BRF	66.15	303	iP	35	24.30		0.1
	0.4s	25.00nm				5.7mb	
BBU	66.31	303	eP	35	24.50		-0.7
	0.6s	51.00nm				5.8mb	
MRW	66.42	131	P	35	24.00		-1.7
DHR	66.61	303	iPc	35	26.00		-1.1
MAW	66.88	197	iPd	35	27.50		-0.7
	0.9s	53.00nm				5.7mb	
HBZ	68.66	127	P	35	39.80		-0.1
	0.8s	142.00nm				6.1mb	
PUZ	68.68	128	P	35	38.80		-1.2
RYD	69.01	300	iPc	35	41.20		-1.1
KMSA	69.48	295	iPc	35	44.30		-1.0
TEH	69.56	313	ePd	35	51.00		5.4X
MJMA	70.52	301	iPc	35	51.00		-0.5
AFIF	71.77	299	iPc	36	00.00		0.9
QASM	72.09	301	iPc	36	01.00		0.0
NAI	72.24	271	iPc	36	04.00		1.7
BHD	73.84	308	ePd	36	11.00		0.0
			eS	45	33.00		
SLY	73.86	311	ePd	36	09.50		-1.5
			eS	45	32.00		
TAB	74.22	313	eP	36	13.00		-0.3
SBA	75.56	169	e(P)	36	20.00		-0.1
MSL	75.92	311	ePd	36	21.50		-1.4
BFT	76.64	246	iPd	36	28.50		1.0
	0.8s	52.24nm				5.6mb	
WAJH	78.10	299	iPc	36	35.70		0.5
BUL	78.30	251	iPc	36	27.20		-9.4X
	0.8s	18.28nm				5.2mb	
			ipP	36	37.00	31km	
QTFJ	78.89	305	Pc	36	39.50		0.0
KSR	79.46	245	iPd	36	40.00		-2.9X
	0.8s	18.75nm				5.2mb	
MDSJ	79.84	304	Pc	36	41.50		-3.2X
BLF	79.87	242	iPd	36	45.00		-0.1
LWI	80.03	269	iPc	36	56.10		9.8X
BADA	80.05	301	iPc	36	46.00		0.2
HQL	80.20	302	iPc	36	47.70		1.1
LISJ	80.36	304	Pc	36	47.50		0.2
MBH	80.48	302	ePc	36	48.50		0.5
PRNI	80.53	303	iPc	36	49.00		0.6
DSI	80.53	304	ePc	36	49.00		0.7
SHMJ	80.53	305	Pc	36	49.60		1.3
HRI	80.70	306	iPc	36	50.00		0.7
SMY	81.82	34	eP	36	54.50		0.0
SPA	81.92	180	iPd	36	54.70		-0.4
	1.0s	37.50nm				5.4mb	
Z	20s	1.89um				5.5Msz	
KVT	82.71	313	iP	37	04.00		4.5X
LFK	83.00	307	iP	37	02.90		1.7
CSS	83.08	307	eP	37	02.00		0.5
HLW	83.48	301	eP	37	04.50		0.9
BCK	85.84	309	iP	37	15.20		-0.2
ELL	86.21	308	iP	37	18.10		0.8
ALT	86.57	310	eP	37	19.60		0.5
GPA	86.71	311	eP	37	20.00		0.4
ADK	86.79	37	eP	37	19.60		0.0
KHL	86.86	309	eP	37	21.00		0.6
HRT	87.31	312	eP	37	24.00		1.5
GBZT	87.46	312	eP	37	22.20		-1.0
YLV	87.47	311	iP	37	24.50		1.2
ISK	87.81	312	eP	37	22.00		-2.8
EDC	88.55	311	eP	37	28.80		0.4
SMG	88.81	308	eP	37	30.50		0.9
JMB	89.91	313	iPc	37	36.00		1.2
VAM	90.48	306	eP	37	39.40		1.8
DIM	90.60	312	eP	37	38.00		0.1
KDZ	90.61	312	iPd	37	39.00		0.9
MLR	90.93	316	iPc	37	39.50		-0.1
PVL	90.95	313	iP	37	45.00		5.5X
BCAO	91.12	274	iPc	37	41.10		0.1
	0.7s	15.00nm				5.5mb	
RZN	91.14	312	eP	37	41.00		0.3
MMB	91.85	312	iPc	37	44.00		0.2
KKB	92.37	312	iPc	37	46.00		-0.1
ITM	92.57	307	eP	37	49.50		2.3
VAY	92.67	311	eP	37	47.40		-0.1
SKO	93.60	312	eP	37	50.00		-1.8

SUF	93.92	333	iP	37	53.10	0.3
	0.6s		16.20nm			5.6mb
OHR	93.97	311	eP	37	53.00	-0.6
	0.8s		530.00nm			7.0mb X
NUR	94.26	330	iP	37	54.80	0.5
	0.9s		55.80nm			6.0mb
SOD	94.54	337	iP	37	55.20	-0.3
KEV	94.82	340	iP	37	56.00	-0.8
SPC	95.31	319	e(P)	38	00.40	0.7
			e(Pg)	38	53.00	
KRA	95.60	320	eP	38	00.70	-0.1
			e	38	20.20	70kmX
SRO	96.45	317	iP	38	04.50	-0.2
			e	38	12.20	24km
SDN	96.89	35	eP	38	05.20	-1.2
ZST	97.29	318	eP	38	08.20	-0.3
			e	38	16.60	26km
UPP	97.69	329	iP	38	09.80	-0.1
KSP	97.98	320	eP	38	11.80	0.3
VBY	98.39	315	e(P)	38	14.00	0.5
LJU	98.92	315	eP	38	16.00	0.1
PRU	99.06	319	P	38	16.00	-0.4
TTA	99.44	28	eP	38	19.30	1.3
BRG	99.47	320	e(P)	38	17.80	-0.5
	1.0s		10.00nm			5.3mb
SVW	99.65	29	eP	38	20.40	1.5
HFS	99.67	330	eP	38	18.50	-0.4
	1.2s		36.20nm			5.8mb
KHC	99.67	318	P	38	19.00	-0.3
			e	41	36.40	
IMA	100.34	24	ePdiff	38	23.10	1.0X
	1.0s		11.30nm			5.4mb
NB2	100.86	331	Pdiff	38	23.90	-0.5
	1.2s		23.10nm			5.6mb
INK	107.47	20	ePKP	43	03.00	1.1
KIC	114.35	273	PKP	43	15.80	-0.9
LIC	114.62	273	PKP	43	16.00	-1.2
TIC	114.66	274	PKP	43	15.90	-1.4
LKO	115.48	277	PKPc	43	17.66	-1.2
	0.9s		25.00nm			
YKA	117.20	21	ePdiff	39	44.50	7.5X
	0.8s		0.50nm			
YKA	117.20	21	ePKP	43	19.70	-1.0
	0.8s		6.50nm			
RMW	121.83	38	PKP	43	30.20	0.1
LON	122.13	39	PKP	43	31.00	0.4
PNT	122.30	36	ePKP	43	31.00	0.2
	0.8s		14.00nm			
FHC	122.93	46	e(PKP)	43	32.10	-0.2
EDM	123.51	29	ePKP	43	32.50	-0.6
WDC	124.03	46	ePKP	43	33.90	-0.6
			i	46	39.60	
NEW	124.25	36	PKP	43	34.80	0.1
	0.8s		12.50nm			
FRB	124.46	359	ePKP	43	34.00	-0.5
MIN	124.78	46	e(PKP)	43	36.00	-0.1
ORV	125.14	47	ePKPd	43	36.70	0.1
BRK	125.16	49	e(PKP)	43	37.30	0.6
MHC	125.79	49	ePKPd	43	39.20	1.0
ARN	125.87	49	PKP	43	39.30	1.1
SES	126.36	31	ePKP	43	38.00	-0.8
CMB	126.50	48	ePKPd	43	39.90	0.5
			e	45	31.20	
LLA	126.56	50	ePKPd	43	40.60	1.1
PRI	126.93	51	ePKPd	43	42.00	1.6
FFC	127.35	22	iPKPc	43	40.10	-0.3
	0.8s		17.00nm			
FRI	127.37	49	ePKPd	43	41.80	0.8
KVN	127.78	46	PKP	43	42.70	0.7
LRM	128.25	36	ePKP	43	42.50	-0.3
TNP	128.80	47	PKP	43	44.10	0.1
CLC	129.38	50	ePKP	43	46.00	1.0
PAS	129.52	52	ePKP	43	46.00	0.8
MWC	129.58	52	ePKP	43	47.00	1.4
SBB	129.60	51	ePKP	43	47.00	1.6
GSC	130.17	50	ePKP	43	48.00	1.5
RVR	130.19	52	ePKP	43	47.00	0.5
IMW	130.21	37	PKP	43	48.00	1.4
TPC	131.18	51	ePKP	43	50.00	1.6
BAR	131.19	53	ePKP	43	50.00	1.5
BW06	131.67	38	ePKP	43	49.00	-0.3
			i	47	29.00	
GLA	132.51	52	ePKP	43	53.00	2.0
SCH	133.33	357	ePKP	43	51.00	-0.8
RSON	133.43	20	e(PKP)	43	50.00	-2.1
			i	47	12.50	
RSSD	134.03	33	ePKP	43	53.00	-0.8
			i	47	17.40	
PV09	134.26	43	ePKP	43	55.00	0.5
			i	47	18.60	
ALQ	137.93	45	ePKP	43	55.00	-6.4X
MZX	142.84	62	ePKP	44	07.50	-2.7X
MEO	143.31	40	iPKPd	44	08.30	-2.4
FVM	145.47	28	PKP	44	04.00	-10.3X
UYO	146.25	37	e(PKP)	44	14.70	-1.0
AGX	146.88	62	ePKP	44	21.70	4.7X
OLY	146.92	32	PKP	44	18.00	1.3
TXNY	146.97	4	iPKP	44	19.20	2.6X
BAO	147.21	224	ePKP	44	19.40	1.5
PNJ	147.24	4	(PKP)	44	19.90	2.9X
			e	44	27.80	
GMTN	147.27	5	PKP	44	17.70	0.6
MRX	148.54	65	iPKP	44	22.00	2.3
NA2	149.52	11	PKP	44	25.30	4.6X
CVL	149.52	12	PKP	44	25.00	4.3X
RSCP	149.57	24	PKP	44	25.00	4.0X
NAV	149.61	16	PKP	44	25.20	4.2X
BLA	149.81	15	ePKPc	44	25.60	4.3X
CRX	149.99	65	ePKP	44	29.00	6.6X
GBTN	150.04	22	PKP	44	26.80	5.2X
TKL	150.20	21	PKP	44	27.10	5.2X
ACX	150.51	70	ePKP	44	29.50	6.7X
PRM	152.12	21	PKP	44	31.70	6.9X
LHS	152.26	18	PKP	44	32.00	7.1X
JSC	152.31	19	PKP	44	31.80	6.8X
LVVM	152.75	62	(PKP)	44	33.50	7.5X
SIV	154.11	202	PKP	44	28.00	0.0
CCH	154.20	191	PKP	44	36.30	7.8X
LPB	155.33	187	PKP	44	48.00	17.9X
			LR	52	34.00	
ZOBO	155.59	187	PKP	44	29.00	-1.7
	Z 20s		0.39um			5.2Msz
			i	44	57.00	
			LR	52	56.00	
TPX	158.08	70	(PKP)	44	28.00	-5.1X
	S.D. = 1.1		on 216 of 259 obs.			

---

* MAY 21, 1990 13h 26m 06.82± 0.90s
35.893 N ± 7.5km 137.811 E ±10.3km
DEPTH = 10.0km (geophysicist)
3.9mb (2 obs.)
HONSHU, JAPAN (227)

IIDJ	0.42	169	iPd	26	14.50	-0.9
			S	26	20.50	
MTMJ	0.69	360	iP+	26	19.30	-1.2
MAT	0.72	26	iPc	26	20.60	-0.4
			iS	26	31.20	
CHJJ	0.97	81	iPd	26	26.30	1.0
			S	26	41.10	
BJI	17.55	290	eP	30	14.00	1.0
	1.5s		26.00nm			4.1mb
YKA	66.23	29	eP	36	57.20	0.5
	1.0s		0.60nm			3.7mb
BCAO	110.55	292	iPKPc	44	54.50	12.7X
	0.3s		3.00nm			
	S.D. = 1.3		on 6 of 7 obs.			

? MAY 21, 1990 13h 41m 07.82± 5.55s
33.901 S ±19.0km 71.879 W ±34.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNV	0.39	98	iP	41	16.20	0.3
LCCH	0.50	31	iPd	41	18.00	0.1
			iS	41	27.60	
TACH	0.82	73	iPd	41	23.60	-0.1
			iS	41	39.00	
CNCH	1.02	92	iPc	41	27.00	-0.2
			iS	41	43.30	
SAN	1.11	67	iPc	41	28.70	0.0
			iS	41	46.50	
PCH	1.17	77	iPc	41	29.50	-0.3
			iS	41	47.50	
ROCH	1.18	38	iPd	41	29.50	-0.4
			iS	41	46.80	
PEL	1.25	53	iPd	41	31.50	0.4
			iS	41	50.50	
FCH	1.44	67	iPd	41	34.10	-0.2
			iS	41	55.50	
JACH	1.62	42	eP	41	37.00	0.3
	S.D. = 0.3		on 10 of 10 obs.			

? MAY 21, 1990 16h 31m 48.43± 3.05s
47.314 N ±21.7km 11.231 E ±16.0km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.9 (VIE).

SOTA	0.09	189	iPgc	31	51.10	-0.1
	0.1s		226.00nm			
			i	31	52.10	
WATA	0.24	85	iPgc	31	53.60	0.0
			iSg	31	57.70	
SCE	0.43	130	iPgd	31	57.20	0.0
OGA	0.47	198	iPgd	31	58.10	0.1
FVI	1.28	124	P	32	18.50	6.3X
			eSg	32	29.00	
KHC	2.40	40	ePg	32	37.40	9.0X
			Sg	33	06.70	
	S.D. = 0.1		on 4 of 6 obs.			

? MAY 21, 1990 19h 18m 09.90± 1.06s
43.710 N ±40.4km 7.131 E ±25.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.2 (LDG).

SBF	0.27	55	Pg	18	15.60	0.0
			Sg	18	22.00	
FRF	0.38	247	Pg	18	17.80	0.1
			Sg	18	25.00	
LMR	0.59	230	Pg	18	21.80	0.0
			Sg	18	32.00	
LRG	0.62	246	Pg	18	22.20	-0.1
			Sg	18	31.00	
	S.D. = 0.1		on 4 of 4 obs.			

MAY 21, 1990 20h 48m 49.93± 0.54s
40.374 N ± 5.2km 29.173 E ± 5.5km
DEPTH = 9.8 ± 5.0 km
TURKEY (366)

YLV	0.25	38	iPg	48	55.70	0.5
GBZT	0.46	26	ePg	48	58.20	-1.1
			iSg	49	05.00	
HRT	0.59	40	iPg	49	02.00	0.2
ISK	0.70	353	ePg	49	03.80	0.1
GPA	0.87	95	ePn	49	06.00	-0.8
CTT	0.96	324	iPn	49	09.90	1.7
EDC	1.00	269	iPn	49	07.60	-1.3
KGT	1.43	274	iPn	49	16.70	0.8
ALT	1.50	151	iPn	49	18.30	1.3
DMK	1.80	324	iPn	49	19.90	-1.3
KNL	2.07	172	iPn	49	25.30	0.1
IZM	2.47	217	ePn	49	29.20	-1.7
BBTK	2.80	100	ePg	49	34.00	-1.8
			eSg	50	34.50	
BCK	3.11	159	ePn	49	41.00	1.0
VAY	5.10	283	ePn	50	29.00	20.8X
MLR	5.64	336	eP	50	15.00	-0.9
	S.D. = 1.3		on 15 of 16 obs.			

? MAY 21, 1990 20h 50m 55.15± 3.50s
11.097 S ±16.4km 161.913 E ±28.2km
DEPTH = 86.1 ± 28.2 km
4.5mb (5 obs.)
SOLOMON ISLANDS (193)

HNR	2.55	310	eP	51	35.00	-0.2
			eS	52	15.00	
CTA	17.52	237	ePc	54	57.00	1.6
			i	55	08.00	
RMQ	19.71	217	iPd	55	19.30	-1.1
	1.1s		93.00nm			5.0mb
CMS	25.16	214	eP	56	13.00	-1.0
	1.0s		29.00nm			4.7mb
WB5	27.91	248	eP	56	39.00	-0.3
WRA	27.95	248	Pc	56	39.60	0.0
	1.0s		4.30nm			4.0mb
SPA	78.98	180	eP	02	51.90	1.0
	1.1s		12.50nm			4.7mb
DMN	83.65	300	P	03	00.00	-16.2X
YKA	96.76	28	eP	04	16.70	-0.2
	0.8s		0.60nm			4.2mb
APO	125.29	341	ePKP	09	47.70	0.6
	0.5s		0.70nm			
BCAO	143.14	263	iPKPc	10	21.40	-0.5
	0.7s		5.00nm			
			ic	14	50.40	
	S.D. = 1.0		on 10 of 11 obs.			

? MAY 21, 1990 20h 59m 27.51± 3.05s
32.818 S ±20.0km 178.425 W ±14.4km
DEPTH = 65.2 ± 27.2 km
5.3mb (8 obs.) 5.0Msz (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	5.47	208	eP	00	50.00	1.7
			S	01	58.00	
PUZ	5.90	206	P	00	52.60	-1.8
			S	02	06.30	
NOZ	6.46	205	P	01	02.40	0.3
DZM	17.15	305	iPc	03	24.60	0.2
BRS	25.45	275	iPc	04	54.00	3.0X
RMQ	29.13	274	iPc	05	25.90	1.4
	1.6s	156.00nm			5.4mb	
CMS	30.21	263	iPd	05	35.10	1.1
	0.6s	26.00nm			5.1mb	
QLP	32.90	271	eP	05	59.50	1.9
CTA	33.91	283	iPc	06	06.60	0.2
	1.0s	70.00nm			5.5mb	
WRA	43.88	275	Pc	07	28.10	-1.3
	0.7s	30.10nm			5.2mb	
WB5	43.89	275	eP	07	28.20	-1.2
FORR	45.07	257	eP	07	38.00	-0.8
	0.5s	46.00nm			5.6mb	
MTN	50.05	281	iPc	08	16.00	-1.7
	0.5s	10.00nm			5.1mb	
KLB	53.25	253	eP	08	40.30	-1.4
	0.5s	16.00nm			5.3mb	
MUN	54.37	252	eP	08	46.50	-3.4X
SPA	57.36	180	iPd	09	23.70	12.6X
	1.0s	35.50nm				
Z	20s	1.08um			5.0Msz	
NANU	58.55	262	iPc	09	19.00	-0.7
PLM	87.68	47	eP	12	23.00	12.7X
SBB	87.99	46	eP	12	13.00	1.4
TPC	88.69	47	eP	12	20.00	5.1X
CMB	88.80	42	eP	12	18.00	2.6
CLC	88.89	45	eP	12	13.00	-2.9X
GSC	89.02	46	eP	12	15.00	-1.5
TNP	90.64	44	eP	12	22.00	-2.2
	1.0s	5.00nm			4.8mb	
KVN	90.79	43	eP	12	22.00	-2.8
QUE	125.01	286	ePKP	18	22.50	0.2
FRB	127.62	32	ePKP	18	33.00	7.1X
MAIO	132.78	291	ePKP	18	36.00	-0.8
TEH	139.09	288	ePKP	18	49.00	0.2
KEV	140.39	346	ePKP	18	38.00	-11.8X
TAB	143.44	291	ePKP	18	53.00	-3.4X
SUF	146.26	340	iPKP	18	58.70	-1.4
	0.5s	24.50nm				
NUR	148.43	338	iPKP	19	04.60	0.9
	0.9s	38.90nm				
			i	19	13.80	
UPP	150.93	343	iPKP	19	11.70	4.2X
BADA	151.00	270	iPKPc	19	14.70	6.1X
NB2	151.07	350	PKP	19	10.50	2.7
	1.3s	27.60nm				
HFS	151.52	347	ePKP	19	11.00	2.6
	0.7s	10.10nm				
KIC	153.03	166	PKP	19	21.60	9.7X
BBTK	154.01	295	ePKP	19	21.00	8.3X
KHC	161.39	335	ePKP	19	25.00	3.9X
			e	20	03.50	

S.D. = 1.7 on 26 of 40 obs.

MAY 21, 1990 21h 03m 15.07± 0.63s
38.231 N ± 5.8km 22.166 E ± 7.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (ATH).

ITM	1.07	190	ePb	03	35.10	-0.1
VLS	1.24	268	ePb	03	37.50	-0.7
			eSb	03	57.00	
ATH	1.25	101	ePb	03	37.50	-0.8
NEO	1.36	37	ePb	03	39.70	-0.3
VLI	1.63	158	ePg	03	45.50	1.6
KEK	2.37	309	ePg	03	59.00	4.5X
VAY	3.10	6	ePn	04	05.40	0.5
VAM	3.26	149	ePn	04	06.50	-0.7
SKO	3.78	352	ePn	04	15.00	0.4

S.D. = 1.0 on 8 of 9 obs.

---

* MAY 21, 1990 21h 17m 37.48± 0.73s
31.459 N ± 8.7km 50.918 E ±13.5km
DEPTH = 33.0km (normal)
4.1mb (4 obs.)
IRAN (348)

TEH	4.28	5	eP	18	58.00	15.8X
BBU	5.24	185	iPn	18	56.30	0.7
			eSn	19	56.50	
BRF	5.37	183	ePn	18	57.50	0.1
			eSn	19	57.60	
MJMA	7.46	223	eP	19	25.30	-1.5
RYD	7.72	211	eP	19	30.00	-0.4
			eS	20	55.00	
QASM	8.40	232	eP	19	38.00	-1.9
MAIO	8.61	54	eP	19	42.00	-0.9
AFIF	10.03	225	eP	20	05.00	2.6
HFS	37.80	330	eP	24	52.40	0.3
	0.5s	5.70nm			4.7mb	
NB2	39.32	331	P	25	04.80	-0.1
	0.5s	1.00nm			3.8mb	
BCAO	40.59	235	ePc	25	22.20	6.4X
	0.4s	2.00nm			4.2mb	
FRB	73.85	336	eP	29	11.00	0.7
YKA	85.65	353	eP	30	14.00	0.3
	0.8s	0.90nm			4.0mb	

S.D. = 1.4 on 11 of 13 obs.

MAY 21, 1990 21h 20m 54.25± 0.51s
39.930 N ± 5.3km 20.683 E ± 5.6km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 4.0 (ATH).

KEK	0.72	253	ePb	21	07.70	-0.6
			eSn	21	16.70	
OHR	1.18	4	iPg	21	16.80	0.4
			iSg	21	33.70	
			Lg	21	34.50	
VLS	1.75	182	ePn	21	26.50	1.6
			eSn	21	52.50	
VAY	2.00	45	iPn	21	28.00	-0.4
NEO	2.06	107	ePn	21	29.50	0.2
SKO	2.12	15	iPn	21	30.80	0.6
ITM	2.91	160	ePn	21	42.00	0.5
ATH	3.07	129	ePn	21	42.00	-1.6
ORI	3.26	274	P	21	55.00	8.6X
TDS	3.36	267	P	21	53.00	5.2X
VLI	3.66	150	ePn	21	52.00	-0.2
MGR	3.94	275	P	22	03.00	6.9X
SGO	4.16	280	P	21	59.00	-0.2
SDI	5.50	291	P	22	18.00	-0.3
PTJ	6.90	331	iPgd	23	10.70	32.8X
			eSg	23	13.00	

S.D. = 0.9 on 11 of 15 obs.

? MAY 21, 1990 22h 26m 55.91± 2.24s
32.607 S ±13.7km 177.935 W ±32.7km
DEPTH = 33.0km (normal)
4.6mb (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	5.86	211	eP	28	23.90	1.2
			eS	29	33.20	
PUZ	6.28	209	eP	28	28.20	-0.4
			eS	29	44.00	
NOZ	6.83	208	eP	28	39.10	2.7X
DZM	17.38	303	iPc	30	59.10	1.5
WRA	44.28	274	Pc	35	03.00	-1.4
	1.0s	9.30nm			4.6mb	
WB5	44.28	274	eP	35	03.00	-1.4
KEV	140.28	347	ePKP	46	46.00	23.9X
SUF	146.21	340	iPKP	46	33.00	0.4
	0.5s	5.50nm				
BCAO	148.01	212	iPKPc	46	41.60	4.6X
	0.5s	3.00nm				
NUR	148.39	339	ePKP	46	39.00	2.9X
NB2	150.93	351	PKP	46	45.10	5.0X
	0.7s	1.20nm				
HFS	151.41	348	ePKP	46	45.50	4.8X
	0.5s	0.90nm				

S.D. = 1.6 on 6 of 12 obs.

% MAY 21, 1990 22h 38m 34.66± 1.24s
12.834 S ±12.8km 76.220 W ±30.5km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)

			eS	39	08.80	
PT06	0.99	186	iP	38	52.90	0.6
			iS	39	08.10	
NNA	1.04	324	iPd	38	52.50	-0.5
			iS	39	06.80	
PT10	1.05	316	iPc	38	52.80	-0.3
			iS	39	08.00	
PT03	1.22	160	iPd	38	55.00	-0.5
			S	39	11.10	

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

& MAY 21, 1990 22h 54m 12.69s
61.360 N 144.976 W
DEPTH = 41.9km
4.4mb (16 obs.)
SOUTHERN ALASKA (2)
<AGS-P>. ML 4.6 (PMR). Felt (III) at Valdez.

KLU	0.47	287	eP	54	23.17	-0.1
GLB	0.57	81	iP	54	23.47	-1.0
			eS	54	31.57	
VLZ	0.69	251	iP	54	25.09	-1.0
VZW	0.82	249	iP	54	26.85	-1.1
TOA	0.94	323	iP	54	28.84	-0.8
NCA	1.09	307	iP	54	30.86	-0.9
GLI	1.14	246	iP	54	31.61	-0.8
SDG	1.20	347	iP	54	32.12	-1.2
TGL	1.21	119	iP	54	32.69	-0.8
			eS	54	50.04	
BALM	1.32	103	iP	54	34.28	-0.7
			eS	54	52.25	
PAX	1.63	352	eP	54	38.65	-0.9
SML	1.67	287	eP	54	38.89	-1.1
MTU	1.91	225	eP	54	42.79	-0.5
GHO	1.93	284	iP	54	42.72	-1.1
PLRM	2.01	278	eP	54	43.61	-1.1
			eS	55	08.71	
PMR	2.01	278	eP	54	43.60	-1.1
MID	2.05	200	eP	54	45.40	0.0
TMW	2.18	24	eP	54	46.58	-0.6
PMS	2.22	269	iPc	54	47.20	-0.6
DOT	2.34	10	iP	54	48.96	-0.5
PWA	2.37	279	eP	54	48.80	-1.1
DDM	2.47	351	eP	54	51.18	-0.2
SEW	2.53	242	iP	54	50.74	-1.5
PCA	2.64	117	eP	54	52.63	-1.2
SLKM	2.70	254	iP	54	53.40	-1.2
CUT	2.72	295	eP	54	53.92	-0.9
HUR	2.72	309	eP	54	54.27	-0.7
DMW	2.73	353	eP	54	54.34	-0.7
RND	2.73	320	eP	54	54.16	-1.0
SUA	2.78	275	eP	54	54.50	-1.3
MCK	3.01	324	eP	54	58.04	-1.0
NKA	3.11	261	eP	55	00.49	0.1
YKU	3.17	123	eP	54	59.93	-1.3
SKT	3.19	284	eP	54	59.97	-1.6
HDA	3.19	344	eP	54	59.56	-2.0
NNL	3.38	250	eP	55	03.07	-1.2
SPU	3.42	270	eP	55	02.89	-2.1
WRH	3.43	337	eP	55	02.64	-2.4
CRP	3.46	272	eP	55	04.26	-1.4
KTH	3.53	311	eP	55	05.31	-1.2
CCB	3.54	340	eP	55	03.68	-2.9
CNPM	3.61	242	eP	55	05.37	-2.2
HYT	3.67	95	P	55	07.00	-1.5
RDT	3.71	261	eP	55	06.61	-2.4
DWY	3.72	41	P	55	08.10	-1.0
NEA	3.73	332	eP	55	06.56	-2.7
RED	3.92	260	eP	55	09.61	-2.5
PDB	4.81	255	eP	55	22.99	-1.5
CDD	4.97	244	eP	55	24.38	-2.4
MCNL	5.14	249	eP	55	27.17	-2.0
SVW	5.15	272	ePc	55	25.40	-3.9
FYU	5.22	359	eP	55	28.32	-2.0
KDC	5.27	230	eP	55	28.40	-2.5
TTA	5.41	292	eP	55	29.10	-4.0
IMA	6.10	325	eP	55	40.10	-2.7
SIT	6.57	127	eP	55	45.50	-3.7
INK	8.50	30	P	56	12.50	-3.5
YKA	14.28	72	eP	57	32.70	-1.1
	0.9s	4.10nm			4.0mb	
MBC	17.29	20	eP	58	08.00	-4.1
SES	21.70	105	eP	59	01.00	-0.6
FFC	23.34	87	eP	59	15.00	-2.5
	1.0s	10.00nm			4.3mb	
FRB	33.37	52	eP	00	45.00	-3.4

NB2	56.57	14	P	03	48.00	-4.8
	0.9s	4.70nm			4.5mb	
HFS	57.72	12	eP	03	54.90	-6.0
	0.6s	1.30nm			4.2mb	
EKA	59.82	24	Pc	04	12.00	-3.5
	0.7s	6.20nm			4.8mb	
SSE	65.00	289	P	05	08.50	18.3
	0.9s	9.00nm				
MOX	66.78	16	e(P)	04	58.00	-3.4
LPF	67.16	25	eP	05	00.40	-3.4
	0.8s	8.05nm			4.8mb	
PRU	67.79	14	P	05	04.50	-3.3
KHC	68.52	15	eP	05	09.90	-2.5
HAU	68.57	20	eP	05	08.80	-3.8
	0.7s	4.40nm			4.6mb	
MFF	68.71	25	eP	05	08.80	-4.7
	0.8s	2.70nm			4.3mb	
LOR	68.84	22	eP	05	10.30	-4.1
	0.7s	3.30nm			4.4mb	
SSF	68.98	23	eP	05	12.00	-3.2
	0.9s	4.90nm			4.5mb	
AVF	69.21	23	eP	05	13.00	-3.6
	0.7s	2.20nm			4.3mb	
LSF	69.38	24	eP	05	14.50	-3.1
	0.7s	5.50nm			4.7mb	
TCF	69.48	24	eP	05	14.40	-3.8
	0.7s	2.20nm			4.3mb	
LFF	70.48	25	eP	05	21.40	-2.9
	0.7s	8.80nm			4.9mb	
LPO	70.82	25	eP	05	22.90	-3.5
	0.6s	3.60nm			4.5mb	
EPF	72.22	26	eP	05	31.50	-3.4
	0.5s	1.10nm			4.1mb	
TOL	74.23	30	eP	05	44.50	-2.0
SPA	151.20	180	ePKP	13	58.90	3.8
	0.9s	5.91nm				
	82 obs. ossociated					

? MAY 22, 1990 00h 47m 36.98± 0.99s
12.704 S ±21.6km 76.545 W ±46.5km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)

PT10	0.75	326	iPd	47 51.50	0.4
			eS	48 02.50	
NNA	0.77	338	iPc	47 51.00	-0.4
			S	48 01.50	
PT06	1.14	169	iP	47 56.40	-0.2
			iS	48 12.10	
PT03	1.47	150	iPc	48 01.70	0.2
			iS	48 21.00	
S.D. = 0.7			on	4 of 4 obs.	

% MAY 22, 1990 01h 00m 00.26± 0.76s
12.712 S ±10.8km 76.537 W ±26.0km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)

PT08	0.75	359	iP	00 15.00	0.3
PT10	0.76	326	iPd	00 14.60	0.1
			iS	00 25.50	
NNA	0.78	337	iPc	00 14.50	-0.3
			eS	00 25.50	
PT06	1.13	170	iP	00 20.10	0.3
			iS	00 34.60	
PT03	1.46	151	iPc	00 24.30	-0.3
			iS	00 43.90	
S.D. = 0.5			on	5 of 5 obs.	

MAY 22, 1990 01h 19m 37.50± 0.35s
44.472 N ± 2.7km 7.010 E ± 3.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (GEN), 2.3 (LDG).

DOI	0.17	79	Pc	19 41.40	-0.1
			eSg	19 43.90	
STV	0.32	135	P	19 44.28	0.1
			S	19 48.79	
ENR	0.38	130	P	19 45.46	0.1
RRL	0.48	340	P	19 47.25	0.0
			S	19 54.74	
BNI	0.63	338	Pc	19 49.30	-0.9
			eSg	19 58.60	
ROB	0.64	106	P	19 50.43	0.0
			S	19 59.14	
SBF	0.68	153	Pg	19 50.70	-0.4
			Sg	19 58.60	
IMI	0.85	131	P	19 53.91	0.0
			S	20 05.30	
FIN	0.90	107	P	19 54.94	0.2
			S	20 07.35	
CKI	0.91	93	P	19 54.00	-0.9
			eSg	20 08.00	
FRF	0.95	196	Pg	19 55.20	-0.4
			Sg	20 07.00	
LSD	0.99	6	P	19 57.20	0.7
LPG	1.04	350	Pg	19 57.40	0.0
			Sg	20 12.20	
LPL	1.06	349	Pg	19 57.80	0.1
PCP	1.10	86	P	19 58.84	0.6
LRG	1.12	205	Pg	19 59.30	0.8
			Sg	20 14.40	
LMR	1.19	198	Pn	19 59.60	-0.1
			Pg	20 00.30	
			Sg	20 16.00	
S.D. = 0.5			on	17 of 17 obs.	

% MAY 22, 1990 02h 06m 34.66± 1.08s
44.501 N ± 6.7km 7.050 E ±17.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (LDG).

SBF	0.70	156	Pg	06 48.60	0.1
			Sg	06 56.60	
FRF	0.98	197	Pg	06 52.40	-0.9
			Sg	07 04.20	
LPG	1.02	348	Pg	06 54.10	0.0
LRG	1.16	206	Pg	06 57.00	0.7
			Sg	07 12.10	
LMR	1.23	199	Pg	06 57.60	0.1
			Sg	07 13.20	
S.D. = 0.8			on	5 of 5 obs.	

MAY 22, 1990 02h 42m 53.08± 0.41s
41.700 N ± 6.1km 13.900 E ± 4.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SDI	0.06	275	Pd	42 55.70	0.3
DUI	0.42	95	P	43 01.50	-0.2
			eSg	43 09.00	
AZI	0.45	310	Pd	43 02.00	-0.3
			eSg	43 09.60	
RDP	0.89	274	P	43 09.80	-0.4
			eSg	43 22.70	
RMP	0.90	277	Pc	43 10.20	-0.2
			eSg	43 23.00	
BSS	1.14	143	P	43 15.60	1.2
MNS	1.14	307	P	43 15.50	1.1
			eSn	43 30.00	
SGO	1.56	137	P	43 20.20	-0.7
ASS	1.65	327	P	43 22.00	-0.2
MGR	2.00	141	P	43 26.80	-0.5
HVAR	2.40	51	e(Pn)	43 33.50	0.5
PGD	2.70	324	P	43 37.00	-0.5
LJU	4.37	6	eP	43 50.80	-10.1X
			e	44 26.70	
			e(Sn)	44 50.70	
PTJ	4.46	19	eP	44 13.30	11.1X
OHR	5.22	94	e(P)	44 12.80	-0.3
S.D. = 0.7			on	13 of 15 obs.	

? MAY 22, 1990 04h 20m 44.68± 5.05s
49.535 N ±34.7km 7.669 E ±22.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 3.0 (LDG).

GWF	0.56	183	Pg	20 56.50	0.4
GWF	0.56	183	Pn	21 06.00	9.9X
			Sg	21 24.00	
CDF	1.15	193	Pn	21 06.20	-0.1
			Pg	21 08.80	
			Sg	21 25.40	
FEL	1.68	172	Pg	21 14.50	0.2
			Sg	21 36.00	
HAU	1.76	210	Pn	21 15.40	-0.1
			Pg	21 21.60	
			Sg	21 46.80	
BSF	1.80	199	Pn	21 15.20	-0.9
			Pg	21 20.80	
			Sg	21 46.00	
LOR	3.40	230	Pn	21 39.20	0.3
			Sg	22 39.50	
LBF	3.55	225	Pn	21 41.00	0.0
			Pg	21 56.00	
			Sg	22 42.90	
SSF	3.72	230	Pn	21 43.50	0.1
			Pg	21 58.80	
			Sg	22 48.50	
AVF	3.99	228	Pg	22 04.00	16.9X
BGF	4.40	229	Pn	21 53.00	0.0
			Sg	23 10.00	
S.D. = 0.4			on	9 of 11 obs.	

? MAY 22, 1990 06h 17m 43.90± 1.52s
31.123 S ±39.2km 68.797 W ±18.9km
DEPTH = 109.4 ± 12.0 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.35	126	iPc	18 00.10	0.0
RTCB	0.36	180	eP	18 00.00	-0.2
			eS	18 11.00	
CFA	0.68	135	e(P)	18 02.50	0.2
			S	18 16.50	
RTCV	0.77	163	ePd	18 03.00	-0.1
			S	18 17.00	
RTBS	0.78	226	eP	18 03.20	0.1
			S	18 17.10	
BCAO	89.98	85	iPd	30 32.60	0.0
	0.4s	28.00nm			5.7mb X
			ic	32 08.80	
			ic	33 47.90	
S.D. = 0.2			on	6 of 6 obs.	

? MAY 22, 1990 07h 32m 20.58± 1.03s
37.753 N ± 8.0km 14.853 E ± 9.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.22	325	P	32 25.50	0.1
			eSg	32 29.50	
ATN	0.63	50	P	32 32.80	-0.5
			eSg	32 40.00	
MEU	0.65	175	P	32 33.60	-0.1
			eSg	32 44.80	
SOI	1.00	71	P	32 40.00	0.4
			eSg	32 54.50	
S.D. = 0.7			on	4 of 4 obs.	

? MAY 22, 1990 08h 21m 37.73± 3.81s
18.036 N ±15.6km 101.607 W ±33.6km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

MRX	1.71	13	iP	22 05.00	-0.6
			iS	22 32.50	
ACX	2.03	125	iP	22 11.00	0.7
			iS	22 40.00	
III	2.06	80	iP	22 10.00	-0.9
CRX	2.28	53	iP	22 16.00	1.9
			(S)	22 55.00	
IIJ	2.45	46	iP	22 17.50	0.8
			iS	22 58.00	
UNM	2.63	60	(P)	22 27.50	8.4X
			(S)	23 07.50	
IIC	2.81	52	(P)	22 20.50	-1.2
			(S)	22 56.00	
IIT	3.28	72	iP	22 17.00	-11.3X
			(S)	22 58.00	
OXX	4.75	101	iP	22 48.50	-0.7
			(S)	23 40.00	
S.D. = 1.4			on	7 of 9 obs.	

---

* MAY 22, 1990 08h 26m 49.27± 1.02s
19.789 S ± 9.3km 70.602 W ±14.6km
DEPTH = 33.0km (normal)
NEAR COAST OF NORTHERN CHILE (122)

ARE	3.42	346	eP	27 43.00	1.2
			iS	28 24.00	
ANT	3.90	177	e(P)	27 48.50	0.2
LPB	4.02	37	P	27 50.00	-0.5
ZOBO	4.22	34	P	27 56.60	3.1X
			S	29 14.00	
PT06	8.07	316	iPc	28 46.10	-1.1
			iS	29 43.80	
PT02	8.81	320	eP	28 54.70	-2.8X
			(S)	30 24.80	

22d 08h

NNA 9.81 321 eP 29 11.50 0.3
0.8s 11.19nm 5.2mb X
S 30 56.50
PT10 9.81 320 e(P) 29 20.00 8.8X
e(S) 30 54.00
GBA 148.81 96 PKP 46 35.00 3.2X
0.6s 1.40nm
S.D. = 1.2 on 5 of 9 obs.

? MAY 22, 1990 08h 28m 34.11± 2.74s
13.545 N ±61.6km 85.211 W ±67.1km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)
NICARAGUA (75)

UYO 22.18 339 iPc 33 26.60 -2.4
MEO 24.36 333 eP 33 54.30 4.0X
ALQ 28.67 322 eP 34 30.00 -0.4
LRM 39.55 330 eP 36 05.70 1.6
SES 42.35 336 ePd 36 29.00 2.3X
FFC 43.13 346 iPd 36 37.40 4.4X
0.6s 8.00nm 4.6mb
PNT 45.49 329 eP 36 52.00 0.0
YKA 53.16 343 eP 37 51.20 0.3
0.7s 2.00nm 4.2mb
INK 62.84 342 eP 38 59.00 0.4
MBC 65.25 351 eP 39 16.00 1.7
0.6s 1.00nm 4.1mb
GBA 148.01 33 PKPd 48 14.30 -1.2
1.0s 3.80nm
S.D. = 1.6 on 8 of 11 obs.

MAY 22, 1990 08h 53m 23.51± 1.02s
21.054 S ± 8.1km 178.796 W ± 4.9km
DEPTH = 627.7 ± 14.7 km
4.6mb (13 obs.)
FIJI ISLANDS REGION (181)

DZM 13.77 263 iPc 56 19.30 -0.1
PUZ 17.15 188 P 56 51.00 -0.4
WLZ 17.42 195 P 56 54.60 0.7
NOZ 17.72 188 P 56 56.10 -0.5
THZ 21.81 197 eP 57 33.00 -1.0
RMQ 30.13 253 iPd 58 47.60 0.9
0.7s 10.00nm 4.6mb
CTA 32.70 265 ePc 59 09.30 1.0
PMG 34.75 284 eP 59 25.40 0.1
WB5 43.77 263 iPd 00 37.20 -0.4
WRA 43.79 263 Pc 00 37.70 0.0
0.4s 8.00nm 4.5mb
FORR 48.36 247 iPc 01 12.60 0.4
0.4s 19.00nm 4.9mb
MTN 48.43 271 iPc 01 12.70 -0.3
0.6s 55.00nm 5.2mb
KNA 49.86 267 iPd 01 23.50 0.0
WARB 49.96 253 iPd 01 24.10 0.0
0.3s 4.00nm 4.3mb
COOL 54.32 247 eP 01 54.90 -0.4
MBL 56.91 258 iPd 02 13.10 0.0
0.4s 20.00nm 4.7mb
KL8 57.14 245 iPd 02 14.80 0.2
MUN 58.42 245 eP 02 23.00 -0.1
MRWA 58.95 248 eP 02 26.50 -0.2
NANU 60.54 255 iPd 02 38.00 0.8
0.4s 25.00nm 4.8mb
MAT 70.22 324 iPd 03 36.20 -0.5
ADK 72.64 1 P 03 48.70 -1.6
0.5s 30.99nm 5.1mb
GCC 78.75 43 eP 04 24.20 0.3
PCC 78.79 42 eP 04 24.20 0.1
SAO 78.94 44 eP 04 25.10 0.2
MHC 79.16 43 eP 04 26.20 0.0
ARN 79.23 43 P 04 27.00 0.5
PLM 80.07 49 eP 04 31.00 -0.1
SBB 80.14 47 eP 04 31.00 -0.3
PEC 80.16 48 P 04 31.00 -0.4
FRI 80.20 44 eP 04 32.70 1.3
ISA 80.25 46 eP 04 32.00 0.1
CM8 80.37 43 ePd 04 32.40 0.0
WDC 80.57 40 ePd 04 33.90 0.6
ORV 80.58 41 eP 04 33.20 -0.2
CLC 80.93 46 eP 04 35.00 -0.3
MIN 80.99 41 eP 04 35.50 -0.1
TPC 81.05 48 eP 04 36.00 0.1
GSC 81.18 47 eP 04 37.00 0.4
GLA 81.35 50 eP 04 39.00 1.5
KVN 82.42 43 P 04 42.90 0.0
TNP 82.45 44 P 04 43.20 0.2
0.8s 6.86nm 4.3mb
SNG 83.84 280 eP 04 52.90 2.7X
RMW 85.24 35 P 04 56.50 0.2
PMR 85.73 14 P 04 57.40 -0.8
0.7s 7.27nm 4.5mb
TIY 87.09 312 Pc 04 55.80 -9.6X
Z 14s 0.70um 5.2MszX
N 11s 0.50um
PNT 87.53 34 ePd 05 07.00 -0.1
0.7s 10.00nm 4.7mb
ALQ 88.33 52 eP 05 11.80 0.5
0.9s 3.78nm 4.2mb
IMA 88.92 10 P 05 12.70 -0.6
BW06 89.88 44 P 05 18.00 -0.3
SES 92.76 36 ePd 05 31.20 0.1
YKA 97.32 25 eP 05 50.40 -1.1
0.8s 0.80nm 4.1mb
SOD 130.98 347 ePKP 11 29.00 3.1X
SUF 135.01 344 ePKP 11 33.00 -0.6
NUR 137.25 343 ePKP 11 37.00 -0.9
NB2 139.44 353 PKP 11 33.60 -8.4X
0.7s 2.60nm
HFS 139.96 350 ePKP 11 34.70 -8.1X
0.3s 7.20nm
EKA 145.62 4 PKPd 11 53.80 1.1
0.8s 10.00nm
KRA 147.48 337 ePKP 12 00.10 4.3X
VRI 147.61 326 ePKPd 12 00.00 3.8X
KSP 147.99 342 iPKPd 12 01.70 5.1X
e 12 06.70
SPC 148.08 336 ePKP 12 02.40 5.3X
MLR 148.27 326 ePKP 12 02.00 4.6X
CLL 148.42 346 iPKP 12 02.20 4.9X
0.8s 26.00nm
i 12 07.50
BRG 148.60 344 iPKP 12 02.80 5.2X
1.2s 19.00nm
i 12 08.70
PRU 149.25 343 PKPd 12 04.50 5.9X
0.6s 12.20nm
e 12 11.50
MOX 149.35 347 ePKP 12 05.00 6.3X
1.6s 25.00nm
SRO 149.94 337 ePKP 12 04.80 5.1X
e 14 28.80
ZST 150.05 338 ePKP 12 06.30 6.5X
MEM 150.26 354 PKP 12 06.80 6.8X
KHC 150.29 343 ePKP 12 07.20 7.0X
GRF 150.33 347 ePKP 12 07.20 7.0X
DOU 150.89 356 PKP 12 07.50 6.5X
CDF 152.27 351 ePKP 12 11.40 8.2X
0.6s 5.40nm
FLN 152.32 2 ePKP 12 11.00 7.9X
0.6s 12.65nm
LDF 152.50 2 ePKP 12 11.50 8.1X
0.5s 5.85nm
GRR 152.68 3 ePKP 12 12.00 8.4X
0.6s 7.20nm
HAU 152.79 352 ePKP 12 12.40 8.5X
BSF 152.91 352 ePKP 12 12.70 8.6X
LPF 153.02 3 ePKP 12 12.90 8.8X
0.5s 10.20nm
MFF 154.49 2 ePKP 12 15.80 9.7X
S.D. = 0.6 on 53 of 81 obs.

* MAY 22, 1990 09h 00m 23.34± 0.67s
29.765 N ±15.2km 90.228 E ± 8.3km
DEPTH = 33.0km (normal)
3.9mb (2 obs.)
TIBET (306)

LSA 0.80 94 iPgd 00 37.00 -1.7
Sg 00 50.50
GUN 4.24 245 P 01 28.60 1.0
PKI 4.76 244 P 01 35.30 0.3
DMN 4.99 246 P 01 37.00 -1.1
GTA 12.44 37 eP 03 20.00 -1.0
Z 12s 0.70um
LZH 13.05 58 eP 03 31.50 2.3
WMQ 14.17 352 P 03 39.00 -4.8X
Z 12s 0.50um
eS 06 14.00
GYA 14.87 99 P 03 54.00 0.9
XAN 16.43 70 P 04 12.50 -0.6
8TO 19.41 51 eP 04 50.00 0.3
N 14s 0.80um
E 14s 0.60um
eS 08 30.00
BJI 23.54 57 eP 05 34.50 3.1X
N 12s 0.42um
SUF 52.16 328 eP 09 32.00 -0.5
NB2 59.19 326 P 10 18.20 -5.1X
0.9s 1.50nm 4.1mb
YKA 85.92 11 eP 13 05.00 4.1X
0.9s 0.50nm 3.7mb
S.D. = 1.4 on 10 of 14 obs.

% MAY 22, 1990 09h 29m 01.02± 0.54s
43.109 N ± 6.0km 0.620 W ± 3.3km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ESCF 0.04 132 Pg 29 02.00 -0.5
ATE 0.06 250 Pg 29 02.37 -0.3
Sg 29 03.91
OGE 0.12 61 Pg 29 03.78 0.2
MADF 0.15 284 Pg 29 04.21 0.0
Sg 29 06.79
ISSF 0.15 238 Pg 29 04.21 0.0
Sg 29 07.35
LHE 0.20 180 Pg 29 05.58 0.5
Sg 29 09.41
JAU 0.20 111 Pg 29 05.14 0.0
ELYF 0.28 283 Pg 29 06.72 0.0
BOH 0.29 269 Pg 29 06.90 0.1
S.D. = 0.3 on 9 of 9 obs.

? MAY 22, 1990 09h 47m 34.80± 0.89s
31.496 S ±21.5km 68.665 W ±14.9km
DEPTH = 70.5 ± 8.0 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.05 193 iPd 47 45.50 0.0
eS 47 56.00
RTCB 0.12 275 iPd 47 45.90 0.2
RTLL 0.24 45 iPc 47 45.70 -0.2
RTCV 0.38 163 iPc 47 46.80 0.0
(S) 47 58.20
RTBS 0.69 256 ePd 47 49.70 -0.1
S 48 03.00
8CAO 89.90 85 iPc 00 27.80 0.0
0.7s 4.00nm 4.8mb
S.D. = 0.2 on 6 of 6 obs.

? MAY 22, 1990 10h 22m 05.34±10.40s
45.362 N ±29.9km 2.499 E ±66.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
MD 1.8 (STR).

PYM 0.53 42 ePg 22 15.79 -0.3
Sg 22 23.10
LBL 0.54 103 ePg 22 16.22 -0.1
Sg 22 23.83
AGO 0.82 32 ePg 22 21.11 -0.1
Sg 22 32.97
PLDF 0.99 52 ePg 22 24.74 0.5
Sg 22 38.44
S.D. = 0.6 on 4 of 4 obs.

? MAY 22, 1990 10h 42m 31.38± 1.95s
43.969 N ±18.4km 11.906 E ± 8.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI 0.06 219 Pc 42 33.50 -0.1
eSg 42 35.00
PGD 0.16 235 Pc 42 35.30 0.1
eSg 42 37.80
CRE 0.34 174 P 42 38.50 0.0
eSg 42 43.10
RSM 0.40 96 P 42 39.50 0.0
eSg 42 44.30
S.D. = 0.1 on 4 of 4 obs.

MAY 22, 1990 11h 23m 00.97± 0.37s
17.840 S ± 7.9km 178.702 W ± 5.8km
DEPTH = 575.7 ± 4.0 km
4.8mb (26 obs.)
FIJI ISLANDS REGION (181)

TVI 1.57 305 iPd 24 12.20 -0.7

KRO	1.89	286	iP	24	12.70	-1.3
NDE	2.27	303	ePd	24	15.60	0.8
VUN	2.70	266	ePd	24	17.30	0.4
SVA	2.72	264	iP	24	17.30	0.3
SGE	3.23	274	iPc	24	21.10	1.0
DZM	14.58	251	iPc	26	06.00	0.5
BRS	27.94	245	iPc	28	08.30	0.4
COO	29.57	239	iPd	28	22.40	0.5
	0.7s	86.00nm			5.5mb	
RMQ	31.27	248	iPd	28	37.00	0.7
	0.6s	66.00nm			5.4mb	
		i		28	51.00	
		e		30	11.40	
CTA	33.18	260	iPd	28	52.20	-0.2
	1.0s	59.00nm			5.2mb	
		e		29	12.50	
CNB	33.25	232	iPc	28	54.10	1.2
	0.7s	136.00nm			5.7mb	
CAN	33.52	232	iPd	28	55.90	0.7
BWA	33.63	234	iP	28	55.00	-1.1
PMG	34.18	280	iPd	29	01.30	0.5
	1.0s	180.00nm			5.7mb	
TOO	37.00	231	iPd	29	25.20	1.4
	0.7s	99.00nm			5.6mb	
BFD	39.06	233	iPd	29	41.00	0.4
	0.8s	29.00nm			4.9mb	
QIS	39.39	259	ePd	29	42.00	-1.5
ADE	41.44	237	eP	30	00.00	0.3
WB5	44.35	260	eP	30	21.90	-0.8
WRA	44.37	259	Pd	30	06.30	-16.5X
	0.6s	4.60nm				
GUA	47.55	309	eP	30	47.10	0.0
	0.8s	155.22nm			5.6mb	
GUMO	47.62	309	eP	30	47.60	0.0
	0.7s	58.45nm			5.2mb	
PJG	47.62	309	eP	30	47.90	0.3
MTN	48.52	268	iPd	30	53.30	-1.2
	0.6s	52.00nm			5.2mb	
FORR	49.75	244	iPd	31	02.50	-0.8
	0.4s	32.00nm			5.2mb	
KNA	50.20	264	iPd	31	05.90	-0.9
WARB	51.04	250	iPd	31	12.40	-0.5
	0.4s	13.00nm			4.7mb	
COOL	55.73	244	eP	31	44.20	-1.9
KLB	58.60	244	iPd	32	04.30	-1.4
RKG	59.15	241	eP	32	08.50	-0.7
BAL	59.56	245	eP	32	10.70	-1.3
MUN	59.91	243	eP	32	13.50	-0.7
MRWA	60.28	246	eP	32	15.70	-1.0
	0.6s	12.00nm			4.4mb	
NANU	61.48	254	iPd	32	24.30	-0.3
	0.5s	51.00nm			5.2mb	
MAT	67.69	324	eP	33	02.00	-1.2
	0.8s	10.45nm			4.4mb	
SPA	72.27	180	iPd	33	30.60	0.6
	1.0s	36.00nm			4.9mb	
		e		35	30.60	
SYP	76.32	47	eP	33	53.00	0.0
PCC	76.38	43	ePc	33	53.20	0.2
SAO	76.57	44	ePc	33	54.10	0.0
BCH	76.61	46	P	33	54.70	0.2
BKS	76.69	43	e(P)	33	55.40	0.7
PRI	76.74	45	ePc	33	55.90	0.7
MHC	76.77	43	ePc	33	55.70	0.3
LLA	76.82	44	e(P)	33	56.10	0.6
ARN	76.84	43	P	33	55.90	0.2
ABL	77.02	47	P	33	56.90	0.0
FRI	77.85	45	eP	34	00.80	-0.2
PLM	77.90	49	eP	34	01.00	-0.6
SBB	77.91	47	eP	34	01.00	-0.4
PEC	77.96	48	P	34	01.50	-0.2
ISA	77.97	46	eP	34	02.00	0.2
CMB	77.98	43	ePc	34	01.70	0.0
WDC	78.07	40	ePc	34	02.20	0.1
ORV	78.13	42	eP	34	02.30	-0.1
MIN	78.51	41	ePc	34	04.50	-0.1
CLC	78.66	47	eP	34	05.00	-0.4
TPC	78.86	49	eP	34	06.00	-0.5
GSC	78.94	47	eP	34	07.00	0.1
GLA	79.22	50	eP	34	09.00	0.6
SNY	79.75	320	eP	34	11.80	1.0
CN2	79.80	322	Pd	34	12.00	1.0
KVN	80.04	44	P	34	12.60	0.0
TNP	80.11	45	P	34	12.90	-0.2
	1.0s	9.58nm			4.2mb	
GMW	82.09	35	P	34	22.50	-0.2
LON	82.14	36	P	34	22.50	-0.5
TTA	82.45	10	P	34	23.90	-0.4
	1.0s	8.75nm			4.2mb	
RMW	82.57	35	P	34	25.40	0.3
PMR	82.60	14	P	34	23.80	-1.1
	0.9s	9.38nm			4.3mb	
SNG	83.38	280	eP	34	31.80	2.0
BJI	83.54	315	eP	34	31.00	1.0
	1.5s	21.00nm			4.5mb	
MSU	83.75	46	P	34	32.40	0.9
MAW	83.83	200	iPc	34	32.40	1.3
GYA	84.76	300	P	34	37.60	1.1
PNT	84.84	34	ePc	34	36.00	-0.2
	0.9s	12.00nm			4.5mb	
TIY	85.01	312	iPd	34	38.50	1.1
NEW	85.62	36	P	34	39.50	-0.5
	0.8s	5.73nm			4.3mb	
XAN	86.00	307	Pd	34	51.50	9.3X
ALQ	86.27	52	eP	34	43.20	-0.5
	1.0s	4.00nm			4.1mb	
		e		36	43.00	
BW06	87.50	44	P	34	48.80	-0.6
	0.9s	3.81nm			4.2mb	
KMI	87.55	297	Pd	34	51.50	1.5
CHG	88.71	290	eP	34	56.90	1.8
SES	90.13	36	eP	35	01.00	0.0
LZH	90.63	308	eP	35	02.50	-1.3
	1.5s	23.00nm			4.9mb	
RSSD	91.71	44	P	35	08.30	-0.4
INK	91.89	15	eP	35	08.00	-0.7
YKA	94.39	25	eP	35	18.50	-1.7
	0.5s	0.60nm			4.0mb	
KRA	144.54	339	ePKP	41	33.40	-0.2
KSP	144.97	343	iPKPd	41	35.00	0.7
CLL	145.33	347	iPKPd	41	36.00	1.1
	0.9s	17.00nm				
BRG	145.53	346	iPKP	41	36.50	1.3
	1.0s	14.00nm				
PRU	146.21	345	ePKP	41	39.00	2.7X
MOX	146.25	348	ePKP	41	38.00	1.6
DSI	146.31	300	ePKP	41	40.00	3.0X
LWI	146.35	236	ePKPd	41	41.40	3.5X
LWI	146.35	236	iPKPc	41	41.70	3.8X
PRNI	146.94	298	ePKP	41	41.00	2.8X
ZST	147.09	340	ePKP	41	41.30	3.5X
			e	57	34.80	
			e	00	36.60	
			e	01	12.50	
GRF	147.23	348	ePKP	41	41.70	3.7X
KHC	147.24	345	ePKP	41	35.60	-2.5
CDF	149.12	352	ePKP	41	46.10	5.0X
LDF	149.30	2	ePKP	41	46.20	5.0X
	0.5s	5.85nm				
GRR	149.48	3	ePKP	41	46.80	5.3X
BSF	149.75	353	ePKP	41	47.40	5.3X
LPF	149.83	3	ePKP	41	47.70	5.7X
	0.6s	5.40nm				
VAY	150.33	326	ePKP	41	48.20	5.2X
SKO	150.43	329	iPKP	41	49.00	5.8X
LOR	150.58	356	ePKP	41	49.60	6.4X
	0.6s	6.30nm				
SSF	150.80	357	ePKP	41	50.20	6.6X
	0.6s	5.40nm				
LBF	150.85	356	ePKP	41	50.10	6.4X
	0.6s	3.60nm				
MFF	151.29	2	ePKP	41	50.90	6.6X
OHR	151.39	328	ePKP	41	51.00	6.3X
TCF	151.62	359	ePKP	41	51.80	7.0X
MAF	151.68	358	ePKP	41	51.20	6.3X
	S.D. = 0.9	on	91 of 114 obs.			

? MAY 22, 1990 11h 31m 25.45± 0.88s
40.941 N ±10.3km 2.138 W ± 9.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.6 (MDD).

ETOR	0.14	153	iP	31	28.50	-0.3
			eS	31	31.70	
GUD	1.56	260	eP	31	53.60	0.2
			eS	32	13.80	
ECRI	1.69	351	eP	31	55.00	-0.2
			eS	32	17.50	
EROQ	1.93	93	eP	31	59.00	0.3
			eS	32	23.00	
	S.D. = 0.5	on	4 of 4 obs.			

MAY 22, 1990 11h 37m 48.77± 0.68s
23.083 N ± 6.8km 120.509 E ± 6.6km
DEPTH = 29.6 ± 6.1 km
4.0mb (5 obs.)
TAIWAN (244)

TWK	0.18	354	iPd	37	53.00	-1.9
			eS	37	56.80	
TWM1	0.27	197	iPc	37	54.70	-1.1
TWG	0.58	117	iPd	38	01.90	1.4
			eS	38	12.50	
TWF1	0.77	70	ePc	38	04.90	1.4
TWQ	1.22	14	iPd	38	10.10	0.1
TWD	1.41	45	eP	38	14.30	1.8
ANP	2.28	24	eP	38	25.20	-0.1
			eS	38	36.50	
QZH	2.55	317	iPnc	38	25.50	-3.5X
			Pg	38	32.50	
			Sn	39	03.50	
MCO	6.49	263	eP	39	27.00	2.2
GZH	6.60	271	Pd	39	27.00	0.7
SSE	8.00	4	P	39	46.50	0.6
	0.5s	30.00nm			5.7mb	X
			sP	39	54.00	
NJ2	9.05	351	Pc	40	01.00	0.5
WHN	9.24	325	ePc	40	02.50	-0.6
	0.5s	30.00nm			5.8mb	X
			pP	40	12.00	
GYA	13.02	288	P	40	56.40	1.9
XAN	14.91	320	P	41	23.30	4.0X
TIY	16.15	336	iPc	41	40.00	4.7X
N	13s	0.50um				
CD2	16.83	301	eP	41	43.60	-0.3
BJI	17.30	349	P	41	55.00	5.3X
	1.0s	12.00nm			4.0mb	
HHC	19.25	339	eP	42	19.50	5.7X
LZH	19.40	316	eP	42	11.50	-4.1X
MAT	20.35	45	iPc	42	27.00	1.5
	0.8s	5.22nm			3.9mb	
CHG	20.58	262	eP	42	35.00	7.0X
CHTO	20.58	262	eP	42	28.00	0.0
	1.0s	2.50nm			3.5mb	
CN2	21.06	10	eP	42	30.40	-2.4
WB5	44.79	161	eP	46	01.00	-0.8
WRA	44.84	161	P	46	01.00	-1.3
	0.7s	1.30nm			3.9mb	
MBC	74.46	12	eP	49	24.00	-1.6
INK	74.47	22	eP	49	25.00	-0.7
PRU	82.29	321	eP	50	11.50	2.7X
KHC	83.24	321	eP	50	25.60	11.8X
YKA	84.22	23	eP	50	17.50	-0.9
	0.7s	1.20nm			4.2mb	
	S.D. = 1.4	on	22 of 31 obs.			

• MAY 22, 1990 12h 19m 14.68± 1.03s
15.349 N ±25.2km 92.861 W ±21.6km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
MEXICO-GUATEMALA BORDER REGION (62)

TPX	0.73	127	iP	19	29.00	0.0
			iS	19	46.00	
SCX	1.40	9	iP	19	57.00	16.9X
			iS	20	24.00	
PSM	2.49	303	eP	19	56.00	0.0
			(S)	20	38.00	
OXX	4.09	295	(P)	20	32.00	13.2X
			(S)	21	37.00	
YKA	49.53	347	eP	28	07.40	0.1
	0.7s	2.80nm			4.4mb	
INK	58.92	344	eP	29	16.00	0.0
MBC	62.48	353	eP	29	40.00	-0.1
	0.7s	1.00nm			4.1mb	
WB5	134.87	257	ePKP	38	46.70	10.3X
WRA	134.90	257	PKP	38	49.00	12.5X
	0.8s	1.20nm				
	S.D. = 0.1	on	5 of 9 obs.			

• MAY 22, 1990 13h 25m 36.32± 0.43s
36.299 S ±10.0km 97.876 W ± 8.6km
DEPTH = 33.0km (normal)
5.4mb (6 obs.) 5.6Msz (9 obs.)
WEST CHILE RISE (686)
Ms 5.7 (PAS).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:

22d 13h

Origin Time 13:25:37.6 0.2
Lat 36.39S 0.03 Lon 98.01W 0.03
Dep 15.0 FIX Half-duration 4.4
Moment Tensor; Scale 10**18 Nm
Mrr=-0.27 0.03 Mtt=-0.15 0.03
Mff= 0.42 0.04 Mrt= 0.70 0.07
Mrf=-0.38 0.10 Mtf=-1.65 0.03
Principal Axes:
T Val= 2.05 Plg=18 Azm= 48
N -0.44 67 269
P -1.61 14 143
Best Double Couple:Mo=1.8*10**18
NP1:Strike=186 Dip=67 Slip= 3
NP2: 95 87 157

LNV	21.75	92	eP	30	27.00	0.2
CHCH	22.37	92	eP	30	34.00	0.9
PEL	22.54	90	ePd	30	26.00	-8.8X
	1.4s	58.14nm			4.9mb	
RTCB	24.56	87	e(P)	30	56.00	1.5
RTLL	24.88	87	ePc	30	49.00	-8.5X
CFA	24.97	88	e(P)	30	57.30	-1.1
ANT	26.79	70	eP	31	12.00	-3.2X
ARE	30.64	57	eP	31	50.00	-0.2
LPB	32.94	61	P	32	08.00	-2.5
			LR	38	28.00	
ZOBO	33.10	61	P	32	07.00	-5.1X
	1.1s	105.86nm			5.7mb	
Z	24s	3.22um			5.0MszX	
			i	32	12.00	
			LR	37	36.00	
SIV	38.42	68	P	32	55.40	-1.3
UPA	48.23	25	eP+	34	08.00	-7.9X
Z	19s	7.64um			5.7Msz	
			iS	41	08.00	
BAO	48.75	79	eP	34	19.50	-0.7
SPA	53.89	180	eP	34	57.60	-0.8
	1.0s	17.00nm			5.0mb	
Z	20s	2.61um			5.3Msz	
			e	36	21.70	
CAR	54.93	38	eP	35	08.00	1.5
			eS	42	47.00	
SBA	55.94	195	e(P)	35	11.30	-1.7
SNZO	65.48	236	P	36	10.00	-8.2X
			S	45	12.00	
			SS	49	04.00	
UYO	70.17	3	e(P)	36	48.80	1.3
MEO	70.72	359	e(P)	36	50.00	-0.8
GLA	70.79	345	eP	36	56.00	4.6X
BAR	70.84	343	eP	36	56.00	4.3X
ALQ	71.33	353	eP	36	55.00	0.2
	1.5s	34.72nm			5.2mb	
Z	18s	3.78um			5.7Msz	
PLM	71.53	343	P	36	57.80	1.8
JSC	71.91	14	P	36	58.00	0.0
TPC	72.07	344	eP	37	04.00	5.0X
LHS	72.19	15	P	37	01.00	1.3
PAS	72.60	342	eP	37	01.00	-1.1
			eSKS	46	27.00	
			eS	47	07.00	
			ePS	47	23.00	
			eSS	51	19.00	
			eSSS	54	43.00	
			eLg	56	35.00	
			eLR	59	45.00	
MWC	72.64	343	eP	37	11.00	8.4X
SBB	73.03	343	eP	37	04.00	-0.7
GSC	73.38	344	eP	37	09.00	2.2
CLC	74.06	343	eP	37	16.00	5.4X
ISA	74.12	343	eP	37	16.00	5.0X
NAV	74.94	14	P	37	15.00	-0.7
PRI	75.12	341	ePc	37	17.20	0.3
MSU	75.60	348	P	37	21.20	1.5
LLA	75.64	341	ePc	37	18.00	-1.7
FRI	75.68	342	ePc	37	19.00	-0.8
SAO	75.92	341	e(P)	37	21.80	0.6
GLD	75.98	354	P	37	30.00	8.3X
Z	18s	2.30um			5.5Msz	
TNP	76.14	344	P	37	22.00	-0.7
GCC	76.31	340	eP	37	21.60	-1.8
NA2	76.36	16	P	37	24.00	0.4
MHC	76.51	341	eP	37	23.90	-0.8
CMB	76.84	342	eP	37	25.10	-1.3
BKS	77.17	340	eP	37	28.90	0.7
			iS	47	23.00	
			eSS	52	24.00	
			iLQ	58	21.00	

			eLR	01	34.00	
			e	04	56.00	
BRK	77.18	340	eP	37	28.60	0.4
KVN	77.27	344	P	37	27.60	-1.4
DAU	77.32	350	P	37	29.00	-0.4
DUG	77.35	348	P	37	32.90	3.6X
ORV	78.56	342	e(P)	37	36.30	0.5
BW06	79.42	351	P	37	41.00	0.3
WDC	79.79	341	ePc	37	42.20	-0.3
TBR	80.06	18	P	37	45.00	1.1
RSSD	80.24	356	P	37	43.80	-1.2
FHC	80.38	340	e(P)	37	45.30	-0.4
LRM	82.80	350	eP	38	01.10	2.7X
WNY	83.22	17	P	37	58.00	-2.3
H8VT	83.38	18	P	38	02.00	0.9
NEW	85.92	347	P	38	14.30	0.5
	0.8s	41.67nm			5.7mb	
SES	87.10	352	eP	38	24.00	4.5X
PNT	87.40	346	eP	38	25.00	4.0X
FFC	90.73	358	eP	38	39.00	2.5X
	1.7s	51.00nm			5.6mb	
BNI	124.03	56	PKP	44	40.00	7.3X
PGF	124.78	59	ePKP	44	36.00	1.9
	0.9s	13.10nm				
SQTA	127.68	54	e(PKP)	44	42.00	2.4X
	1.3s	34.50nm				
			i	44	43.60	
			i	45	04.50	
MOX	128.77	50	ePKP	44	45.00	3.6X
Z	27s	2.00um			5.7MszX	
KHC	129.68	53	ePKP	44	46.30	3.1X
Z	20s	0.80um			5.4Msz	
N	20s	0.50um				
E	20s	0.70um				
			e	45	07.50	
CLL	129.76	50	ePKP	44	46.00	2.8X
	1.6s	24.00nm				
NB2	130.05	37	PKP	44	46.40	2.8X
	1.4s	10.20nm				
BRG	130.26	50	ePKP	44	50.80	6.6X
	1.5s	16.00nm				
			e	45	08.10	
PRU	130.47	52	ePKP	44	50.00	5.4X
Z	22s	1.30um			5.6Msz	
N	20s	0.30um				
E	22s	0.80um				
			e	47	12.00	
OHR	132.76	65	ePKP	44	54.00	4.6X
SKO	133.44	64	ePKP	44	55.00	4.4X
Z	20s	1.22um			5.6Msz	
E	20s	1.22um				
			LR	42	54.00	
KRA	133.92	52	ePKP	45	03.00	11.8X
MLR	137.33	60	ePKP	45	10.00	12.0X
BBTK	141.37	69	ePKP	44	52.00	-13.5X
MDJ	143.38	298	ePKP	45	11.20	2.6X
Z	32s	2.40um			5.8MszX	
			ePP	48	28.00	
			SKKS	55	17.00	
			SS	07	08.00	
KVT	144.04	68	ePKP	45	10.00	0.0
CN2	146.31	296	PKPc	45	13.00	-0.6
Z	20s	1.30um			5.7Msz	
N	20s	1.40um				
E	20s	1.70um				
			ePP	48	45.00	
			SKKS	55	31.00	
SNG	146.44	215	ePKP	45	15.10	0.4
SSE	147.24	272	PKP	45	17.50	2.0
Z	20s	0.80um			5.5Msz	
E	16s	0.50um				
			e	45	24.00	
			SS	07	48.00	
SNY	147.58	293	ePKP	45	15.40	-0.3
Z	30s	2.90um			5.9MszX	
N	30s	1.00um				
E	30s	2.00um				
			PP	48	48.00	
MSL	148.75	78	ePKP	45	19.50	1.7
			e	45	42.50	
			e	47	02.00	
DL2	148.76	287	PKP	45	18.00	0.3
BHD	148.99	84	ePKPc	45	25.50	7.3X
			e	46	36.00	
GZH	149.99	253	PKP	45	26.00	6.0X
SLY	150.45	80	ePKPd	45	29.00	8.7X
TA8	151.53	76	ePKP	45	28.00	5.9X

TIA	151.87	280	ePKP	45	27.30	4.8X
WHN	152.58	267	ePKP	45	32.00	8.4X
Z	24s	1.40um			5.7MszX	
BJI	153.07	288	ePKP	45	28.00	4.0X
Z	24s	1.27um			5.7MszX	
			ePP	49	24.00	
			eSKKS	56	04.00	
			eSS	08	48.00	
LOE	154.40	228	ePKP	45	19.20	-7.3X
TIY	155.80	282	ePKP	45	34.00	6.0X
Z	23s	1.90um			5.9MszX	
E	25s	2.90um				
HHC	156.60	290	PKP	45	35.00	6.0X
N	24s	1.30um				
E	20s	1.90um				
GYA	156.92	252	ePKP	45	33.00	3.2X
CHG	157.13	225	ePKP	45	40.00	9.9X
BTO	157.78	290	ePKP	45	35.20	4.8X
N	17s	0.70um				
E	17s	0.70um				
XAN	158.80	272	PKP	45	35.70	4.9X
KMI	159.11	244	ePKP	45	39.50	7.0X
Z	25s	1.90um			5.8MszX	
			PP	49	54.00	
CD2	161.21	260	ePKP	45	39.60	5.3X
MAIO	161.76	83	ePKP	45	42.00	7.2X
			e	46	28.00	
LZH	162.47	276	ePKP	45	41.50	5.9X
			e	46	30.00	
GTA	165.68	288	PKP	45	40.40	2.0
Z	26s	3.00um				
E	20s	1.90um				
			e	45	43.80	
			e	46	43.20	
			SKKS	57	10.00	
QUE	165.92	111	ePKP	45	51.20	12.3X
NDI	171.35	150	e(PKP)	45	49.00	6.9X
WMQ	171.36	332	ePKP	45	41.00	-0.8
Z	26s	2.60um				
			ePP	50	53.00	
			SS	11	56.00	
KSH	174.21	55	PKP	45	48.00	4.9X
N	22s	3.30um				
			PP	51	08.00	

S.D. = 1.2 on 54 of 107 obs.

% MAY 22, 1990 14h 16m 16.99± 0.75s
40.411 N ± 8.4km 15.474 E ± 8.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.19	320	P	16	21.00	-0.3
			eSg	16	27.50	
MGR	0.28	167	P	16	22.80	-0.1
			eSg	16	27.00	
BSS	0.63	307	P	16	30.00	0.3
			eSg	16	40.00	
ORI	0.82	115	P	16	33.00	0.1
			eSg	16	45.30	
BRT	1.40	70	P	16	42.50	0.0

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

% MAY 22, 1990 14h 21m 56.85± 0.80s
43.929 N ± 9.2km 11.913 E ± 4.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.04	260	Pc	21	58.90	0.0
			eSg	22	01.20	
PGD	0.15	249	Pc	22	00.70	0.3
			eSg	22	04.10	
CRE	0.30	175	P	22	03.00	-0.2
			eSg	22	07.50	
RSM	0.39	90	P	22	05.00	0.2
ARV	0.86	120	P	22	13.00	-0.4
			eSg	22	26.00	
BDI	0.96	278	P	22	15.00	-0.2
			eSg	22	30.00	
ASS	1.02	147	P	22	16.50	0.4
			eSg	22	30.00	

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

% MAY 22, 1990 14h 28m 26.96± 1.23s
43.923 N ±12.6km 11.924 E ± 7.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.05	268	Pc	28 28.90	-0.2
			eSg	28 31.20	
PGD	0.15	252	Pc	28 30.60	0.0
			eSg	28 33.00	
CRE	0.30	176	P	28 33.00	-0.2
			eSg	28 39.00	
ARV	0.85	120	P	28 43.00	-0.4
			eSg	28 55.00	
BDI	0.97	279	P	28 46.00	0.6
			eSg	28 59.00	
ASS	1.01	148	P	28 47.00	0.9
PII	1.03	259	P	28 46.00	-0.4
			eSg	29 01.00	
MNS	1.63	160	P	28 55.50	-0.4
			eSn	29 16.00	

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

? MAY 22, 1990 14h 32m 20.77± 4.29s
51.210 N ±30.9km 16.085 E ±27.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.39	160	iP	32 28.70	-0.1
	0.3s	121.00nm			
			iS	32 37.00	
			iLR	32 43.00	
BRG	1.39	257	iPg	32 45.60	-0.6
			iSg	33 06.10	
PRU	1.57	219	iPg	32 50.00	1.3
			e	32 53.80	
			Sn	33 06.50	
			Sg	33 13.50	
			i	33 19.90	
CLL	1.94	274	iPg	32 54.40	0.3
			eSg	33 19.00	
KHC	2.63	219	ePn	33 03.10	-1.0
			Pg	33 09.90	
			Sn	33 34.80	
			Sg	33 47.50	
MOX	2.88	260	ePg	33 14.00	6.4X
			iSg	33 54.00	
ZST	3.09	167	eP	34 03.00	52.6X
GRF	3.46	246	e(Pg)	33 09.70	-6.1X
			eSg	34 13.00	

S.D. = 1.2 on 5 of 8 obs.

% MAY 22, 1990 14h 37m 20.54± 1.36s
43.914 N ±12.8km 11.821 E ± 8.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.02	73	Pc	37 21.80	-0.7
			eSg	37 24.10	
PGD	0.08	242	P	37 23.60	0.4
			eSg	37 26.70	
CRE	0.30	162	P	37 26.00	-0.9
			eSg	37 31.50	
RSM	0.46	88	P	37 29.70	-0.1
			eSg	37 34.90	
ARV	0.91	117	P	37 39.00	1.0
			eSg	37 50.00	

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

MAY 22, 1990 15h 05m 49.40± 0.57s
43.964 N ± 6.0km 11.916 E ± 4.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.06	227	Pc	05 51.70	0.0
			eSg	05 53.40	
PGD	0.17	238	Pc	05 53.00	-0.3
			eSg	05 55.70	
CRE	0.34	176	Pc	05 55.60	-0.8
			eSg	06 00.80	
RSM	0.39	95	P	05 57.40	0.0
			eSg	06 05.30	
ARV	0.88	122	P	06 07.20	0.9
			eSg	06 18.70	
MME	0.91	285	P	06 06.90	0.0
BDI	0.96	276	P	06 08.50	0.8
			eSg	06 21.00	
PII	1.04	257	P	06 09.00	0.1
			eSg	06 23.90	
ASS	1.04	149	P	06 10.10	0.9
			eSg	06 23.70	
MNS	1.67	160	P	06 18.00	-0.9
			eSg	06 40.00	
VOY	2.50	33	e(Pn)	06 30.00	-0.8
			eSn	07 13.10	

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

? MAY 22, 1990 15h 30m 51.36± 2.46s
43.965 N ±19.3km 11.827 E ±11.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.05	158	Pc	30 52.60	-0.9
			eSg	30 54.50	
PGD	0.12	220	Pc	30 54.50	0.0
			eSg	30 57.00	
CRE	0.35	165	P	30 58.50	-0.1
			eSg	31 02.60	
RSM	0.45	95	P	31 00.60	0.0

S.D. = 0.8 on 4 of 4 obs.

? MAY 22, 1990 15h 54m 28.56± 0.80s
64.586 S ±13.2km 175.385 E ±25.6km
DEPTH = 10.0km (geophysicist)
4.6mb (2 obs.) 4.7Msz (1 obs.)
BALLENY ISLANDS REGION (702)

SBA	13.59	188	e(P)	57 41.80	-1.6
SPA	25.56	180	eP	00 01.20	2.3
	1.3s	18.33nm		4.6mb	
	Z 20s	2.48um		4.7Msz	
			e	00 24.90	
WRA	52.26	309	Pc	03 42.20	0.3
	0.9s	8.50nm		4.7mb	
WB5	52.31	309	eP	03 42.20	-0.1
PMG	58.56	327	eP	04 27.50	0.1
LAT	61.25	327	eP	04 56.00	10.1X
ZOBO	86.20	121	P	07 12.00	0.1
			LR	34 56.00	
SES	127.95	51	ePKP	13 34.00	-0.9
YKA	136.93	40	ePKP	14 06.00	14.5X
	0.3s	0.10nm			
MBC	146.37	23	ePKP	14 07.50	-0.3
	1.0s	14.00nm			
FR8	153.17	62	ePKP	14 22.00	3.6X

S.D. = 1.3 on 8 of 11 obs.

• MAY 22, 1990 16h 44m 41.72± 0.58s
53.687 S ± 8.6km 140.012 E ±25.3km
DEPTH = 10.0km (geophysicist)
4.7mb (3 obs.)
WEST OF MACQUARIE ISLAND (701)

TOO	16.56	15	eP	48 36.00	0.6
8FD	16.61	7	eP	48 35.20	-0.8
CAN	19.42	23	eP	49 12.00	1.1
8WA	20.15	21	eP	49 18.70	-0.1
CMS	22.58	13	eP	49 45.00	1.7
	1.2s	26.00nm		4.6mb	
SBA	26.08	167	e(P)	50 16.00	-0.6
RMQ	27.93	17	eP	50 33.20	-0.8
QIS	33.07	359	eP	51 19.00	-0.5
WRA	33.96	350	Pd	51 26.60	-0.6
	0.6s	6.10nm		4.7mb	
WB5	34.02	350	eP	51 26.70	-1.1
SPA	36.50	180	eP	51 49.00	0.3
	1.0s	14.50nm		4.8mb	
CHG	80.38	321	eP	57 03.80	9.2X
GUN	93.78	314	P	58 00.00	-0.1
KRA	143.78	289	ePKP	04 27.00	9.4X
MBC	143.78	23	ePKP	04 15.00	-1.9
MNS	143.82	274	PKP	04 18.00	0.0
ZST	144.45	285	ePKP	04 23.50	4.7X
FFC	144.77	63	ePKP	04 18.00	-1.2
	0.8s	7.00nm			
LJU	144.81	280	e(PKP)	04 25.00	5.5X
TRI	145.08	279	ePKP	04 21.90	1.9
VOY	145.18	280	e(PKP)	04 22.20	1.9
SFI	145.21	275	PKP	04 23.00	2.8X
PGD	145.26	275	PKPd	04 26.00	5.4X
NUR	145.55	308	ePKP	04 28.00	7.7X
FVI	146.13	280	PKP	04 26.00	4.3X
KSP	146.20	289	ePKP	04 27.70	6.0X
SOD	146.37	320	ePKP	04 25.00	3.5X
PRU	146.80	286	PKP	04 31.60	8.9X
KHC	146.95	284	PKP	04 29.50	6.5X
BOB	147.11	275	PKP	04 36.00	12.5X
SQTA	147.38	280	ePKP	04 30.00	6.1X
	1.1s	24.40nm			
			i	04 33.20	
			i	04 35.80	
MDI	147.50	277	PKP	04 29.00	5.1X
BRG	147.54	287	iPKP	04 33.00	9.2X
	0.9s	10.00nm			
			i	04 36.40	
CLL	148.27	288	ePKP	04 34.00	9.0X
	1.5s	14.00nm			
GRF	148.57	284	ePKP	04 35.50	9.9X
MOX	148.77	286	ePKP	04 37.00	11.1X
BNI	148.91	273	PKP	04 20.00	-6.4X
LPG	149.11	274	ePKP	04 37.00	10.1X
	1.2s	74.50nm			
LPL	149.13	274	ePKP	04 37.20	10.3X
	1.1s	6.10nm			
8SF	150.28	278	ePKP	04 40.00	11.6X
HAU	150.62	278	ePKP	04 41.10	12.3X
	1.0s	8.00nm			
NB2	152.08	306	PKP	04 49.80	19.2X
	1.0s	4.20nm			

S.D. = 1.2 on 17 of 42 obs.

% MAY 22, 1990 17h 13m 24.52± 1.11s
44.024 N ± 9.8km 11.873 E ± 5.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI	0.10	189	Pc	13 27.30	0.0
			eSg	13 28.80	
PGD	0.19	216	Pc	13 29.10	0.4
			eSg	13 31.50	
CRE	0.40	172	P	13 32.50	-0.2
			eSg	13 37.00	
RSM	0.43	103	P	13 33.60	0.3
			eSg	13 38.60	
BDI	0.92	273	P	13 42.00	-0.2
			eSg	13 56.00	
ARV	0.94	124	P	13 42.00	-0.4
			eSg	13 55.00	
ASS	1.11	149	P	13 45.50	0.1

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

• MAY 22, 1990 17h 38m 21.38± 1.24s
37.314 N ±14.0km 72.602 E ±18.8km
DEPTH = 33.0km (normol)
4.0mb (4 obs.)
TAJIK SSR (715)

QUE	8.52	215	eP	40 25.90	0.3
MAIO	10.56	268	eP	40 53.00	-0.6
			eS	42 50.00	
HFS	43.23	321	eP	46 21.50	0.7
	0.7s	3.20nm		4.2mb	
NB2	44.51	322	P	46 31.60	0.4
	0.8s	1.50nm		3.9mb	
MBC	66.46	3	eP	49 09.00	-0.1
	0.7s	3.00nm		4.5mb	
YKA	80.37	3	eP	50 29.60	-0.7
	0.7s	1.00nm		3.9mb	

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

% MAY 22, 1990 17h 41m 01.89± 1.49s
67.029 N ±11.8km 20.853 E ±17.8km
DEPTH = 10.0km (geophysicist)
SWEDEN (536)
MD 2.6 (BER).

KTK1	2.19	23	iPc	41 39.33	0.6
			eS	42 07.56	
TRO	2.71	346	eP	41 45.48	-0.8
			eS	42 27.78	
LOF	3.01	295	eP	41 50.52	0.1
			eS	42 36.48	
NSS	4.44	240	eP	42 11.75	1.1
			eS	43 01.22	
NRA0	7.53	217	Pn	42 53.30	-0.9

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

MAY 22, 1990 17h 59m 44.15± 1.33s
4.691 S ± 7.9km 103.173 E ± 8.2km
DEPTH = 87.8 ± 11.3 km
5.1mb (16 obs.)
SOUTHERN SUMATERA (274)

KGM	6.66	1	iPc	01 22.80	1.5
KLM	7.89	349	eP	01 39.50	1.3
PSI	8.48	330	ePc	01 43.60	-2.6
TSI	9.35	330	eP	01 58.00	-0.1

```
22d  18h

IPM      9.46 347 ePd   02 02.60    3.0X
         0.8s     20.80nm          5.1mb
SNG     12.06 348 eP    02 31.10   -3.3X
NANU    21.41 147 eP    04 28.00    1.5
LOE     22.00 356 eP    04 32.50    0.0
BDT     22.18 349 eP    04 35.00    0.8
CHG     23.72 350 iPd   04 50.00    0.8
         1.0s     34.50nm          4.7mb
MTN     28.77 108 eP    05 34.20   -1.6
         0.3s     20.00nm          5.2mb
KMI     29.64 359 Pd    05 45.00    1.2
         1.0s     40.00nm          5.1mb
GYA     31.15   6 P     05 58.00    1.1
GBA     31.35 306 Pc    05 57.80   -0.9
         0.8s     12.40nm          4.7mb
HYB     32.77 313 eP    06 10.00   -1.1
WB5     33.92 119 iPd   06 20.20   -0.8
WRA     33.92 119 Pc    06 19.90   -1.1
         0.4s      7.80nm          4.9mb
CD2     35.40   1 Pd    06 33.40   -0.2
         0.7s     30.00nm          5.3mb
LSA     36.09 342 P     06 38.70   -1.1
PKI     36.37 333 P     06 41.50   -0.6
GUN     36.45 334 P     06 42.30   -0.5
DMN     36.54 332 P     06 43.00   -0.5
QIS     38.76 117 iPc   07 01.80   -0.1
XAN     38.90   8 P     07 03.00    0.1
NDI     41.53 325 iP    07 24.50    0.0
         1.0s     95.00nm          5.6mb
TIY     43.06  11 eP    07 37.00    0.0
PMG     43.87  99 eP    07 43.00   -0.9
GTA     43.99 356 P     07 45.20    0.6
CTA     44.61 114 iPd   07 50.00    0.3
         1.0s     50.00nm          5.3mb
BJI     46.09  14 eP    08 01.50    0.4
         1.0s     23.00nm          5.0mb
QUE     49.04 317 eP    08 24.00   -0.5
WMQ     50.27 345 Pc    08 33.00   -0.6
KSH     50.58 333 P     08 36.40    0.3
BWA     51.26 131 eP    08 43.10    1.8
CAN     52.07 132 eP    08 48.00    0.6
CN2     52.28  20 Pd    08 48.20   -0.5
         1.0s    200.00nm          6.1mb
MAT     52.48  36 eP    08 48.00   -2.3
         1.2s     29.69nm          5.2mb
MAIO    57.69 319 eP    09 27.00   -1.1
MBH     73.72 303 eP    11 11.00    0.4
PRNI    73.77 303 eP    11 12.00    1.0
DSI     73.79 305 eP    11 12.00    1.0
BUL     73.91 250 eP    11 02.20   -9.9X
         0.9s      5.04nm          4.4mb
VRI     83.97 317 ePd   12 06.00    0.1
MLR     84.42 316 eP    12 19.00   10.6X
SUF     88.22 333 iP    12 27.00    0.6
         0.5s      8.80nm          5.1mb
NUR     88.42 331 eP    12 28.00    0.6
SOD     89.15 338 iP    12 31.40    0.6
KRA     89.22 320 eP    12 32.50    1.1
UPP     91.78 330 iP    12 43.60    0.6
HFS     93.77 330 eP    12 52.50    0.3
         1.0s     11.10nm          5.2mb
SFI     94.17 314 P     12 36.50  -17.9X
                  eSg   12 38.50
PGD     94.26 314 P     12 38.50  -16.6X
                  eSg   12 42.00
NB2     95.02 331 P     12 58.00    0.0
         0.9s      3.60nm          4.8mb
YKA    115.96  18 ePKP  18 17.00   -1.0
         0.4s      0.20nm
BAO    145.03 234 ePKP  19 13.50   -0.5
      S.D. = 1.0  on  49 of  55 obs.
----------------------------------------
   MAY  22, 1990  20h 35m 38.59± 0.52s
   19.741 N ± 4.8km    76.023 W ± 3.3km
   DEPTH =  13.5 ±  3.8 km
   5.1mb ( 44 obs.)  4.9Msz ( 10 obs.)
  CUBA REGION                    ( 85)
      MD 5.1 (TRN). Felt (VI) in the
      Santiago de Cuba area.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 10S, 19C
      Centroid Location:
      Origin Time          20:35:39.8 0.6
      Lat 19.79N  FIX;Lon  76.07W   FIX
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scale 10**16 Nm
```

```
          Mrr= 5.69 0.50  Mtt=-0.67 0.44
          Mff=-5.02 0.68  Mrt=-3.45 1.23
          Mrf=-8.24 1.57  Mtf= 7.40 0.50
         Principal Axes:
          T  Val= 13.45  Plg=47  Azm=131
          N       -1.45     37       345
          P      -12.01     17       241
        Best Double Couple:Mo=1.3*10**17
         NP1:Strike=290 Dip=43 Slip=  27
         NP2:         179     72     130

STH      1.82 204 iP    36 10.11    0.4
                  S     36 34.09
HQJ      1.86 202 P     36 11.01    0.6
                  S     36 35.88
YHJ      1.89 194 P     36 11.84    1.0
                  S     36 34.91
SPJ      2.27 220 P     36 16.00   -0.3
                  S     36 44.19
PCJ      2.27 209 P     36 16.88    0.7
                  iS    36 44.77
UPA     11.22 198 ePc   38 21.50   -0.2
BMG     12.92 167 iPd   38 46.00    1.4
MGH     13.46 101 eP    38 52.00    0.3
BPA     13.71  99 eP    38 55.12    0.1
PAG     14.14 103 eP    39 00.00   -0.8
BBL     14.48 105 eP    39 05.00   -0.2
MGG     14.51 103 eP    39 03.00   -2.5
BOG     15.15 173 eP    39 22.00    7.8X
                  eS    42 22.00
JSC     15.21 343 P     39 10.00   -4.5X
TRN     16.75 121 eP    39 37.48    3.0X
TPP     16.89 122 eP    39 41.54    5.2X
PSO     18.48 184 eP    40 00.00    3.5X
LVNJ    21.03   3 P     40 25.00    0.7
TBR     21.39   4 P     40 25.00   -3.0X
TXNY    21.42   4 iP    40 30.00    1.7
UYO     21.78 315 eP    40 31.30   -0.6
WVLY    22.76 355 P     40 32.00   -9.7X
LNO     23.70 317 eP    40 52.30    1.6
TUL     23.70 317 eP+   40 52.60    1.8
         1.4s     73.70nm          5.1mb
      Z  21s       1.90um          4.5Msz
                  e(S)  45 00.00
                  LR    47 00.00
WNY     24.65   4 P     40 59.00   -1.0
HBVT    24.67   5 P     40 59.50   -0.7
MEO     24.95 312 iPd   41 03.20    0.2
ALQ     30.83 306 eP    41 56.00   -0.7
         1.3s     17.79nm          4.8mb
      Z  20s       0.71um          4.3Msz
NNA     31.54 182 eP    42 04.50    1.7
         0.7s      8.22nm          4.7mb
GLD     32.03 315 P     42 07.00   -0.2
      Z  18s       4.60um          5.2Msz
RSSD    33.71 322 P     42 20.00   -1.8
BW06    36.36 317 P     42 43.00   -1.5
MSU     36.40 309 P     42 45.00    0.2
DAU     36.46 312 P     42 45.00   -0.4
ZOBO    36.62 167 P     42 46.20   -1.0
         1.2s     13.51nm          4.6mb
      Z  20s       1.66um          4.8Msz
                  S     49 00.00
                  LR    54 20.00
LPB     36.88 167 P     42 47.00   -2.2
      Z  18s       2.41um          5.0Msz
                  LR    54 18.00
GLA     36.99 299 eP    42 50.00    0.4
DUG     37.47 311 P     42 53.70    0.0
TPC     38.20 300 eP    43 01.00    1.2
SIV     38.43 156 P     43 01.80    0.0
PLM     38.72 299 P     43 04.30    0.0
GSC     39.05 302 eP    43 08.00    1.0
RVR     39.26 300 eP    43 09.00    0.4
SBB     39.75 301 eP    43 13.00    0.2
CLC     39.79 303 eP    43 13.00   -0.1
MWC     39.85 300 eP    43 23.00    9.2X
TNP     40.04 306 P     43 16.00    0.7
         0.9s     16.15nm          4.7mb
FFC     40.11 337 eP    43 14.00   -1.4
         1.1s     31.00nm          4.9mb
KVN     40.97 307 P     43 22.80   -0.1
SES     41.26 326 ePd   43 25.10    0.2
FRI     41.71 304 e(P)  43 28.70    0.0
PRI     42.30 302 ePc   43 35.30    1.6
CMB     42.46 305 ePc   43 35.40    0.5
NEW     43.60 320 P     43 43.00   -1.1
```

```
         1.0s     14.38nm          4.7mb
ORV     43.65 307 eP    43 44.90    0.4
FRB     44.27   5 eP    43 47.00   -2.1
PNT     45.55 321 eP    44 08.00    8.3X
LON     45.94 317 P     44 02.20   -0.6
YKA     50.26 338 eP    44 34.70   -1.5
         0.9s      5.20nm          4.5mb
INK     60.01 339 eP    45 46.00   -0.8
MBC     60.66 349 eP    45 48.50   -2.7
         0.6s     12.00nm          5.2mb
EMON    61.36  51 eP    45 55.80   -0.7
AVE     61.89  62 eP    45 56.00   -4.2X
                  i     46 00.50
                  i     46 15.50
TOA     63.47 330 eP    46 10.00   -0.2
GUD     63.84  54 eP    46 13.60    0.4
TOL     63.98  55 eP    46 15.00    1.0
AAPN    64.15  57 iPd   46 16.00    0.7
ALOJ    64.19  58 iPc   46 15.50    0.0
EKA     64.27  37 Pc    46 14.80   -0.7
         0.6s      8.20nm          5.1mb
ATEJ    64.28  58 iPd   46 15.00   -1.2
ASMO    64.45  57 eP    46 16.80   -0.4
APHE    64.54  58 iPd   46 18.00    0.2
PMR     64.80 330 eP    46 19.20    0.4
         0.5s      5.10nm          5.0mb
      Z  18s       2.90um          5.5Msz
ECRI    64.92  51 eP    46 20.20    0.1
EVIA    65.29  56 eP    46 23.20    0.6
ETOR    65.41  53 eP    46 23.00   -0.3
LPF     65.62  45 eP    46 23.80   -0.6
GRR     65.73  45 eP    46 24.90   -0.2
FLN     65.96  45 eP    46 26.30   -0.2
         0.7s     13.25nm          5.2mb
LDF     66.21  45 eP    46 28.10    0.0
         0.7s     17.65nm          5.3mb
MFF     66.32  47 eP    46 28.80   -0.1
ECHE    66.37  55 eP    46 30.00    0.6
EPF     66.97  51 eP    46 33.60    0.4
         1.0s     26.00nm          5.4mb
LFF     67.07  49 eP    46 33.60   -0.1
         0.7s     15.45nm          5.3mb
IMA     67.13 334 eP    46 32.50   -1.4
         1.2s     19.50nm          5.2mb
EBR     67.34  53 eP    46 36.00    0.5
LPO     67.41  49 eP    46 35.90    0.0
         0.7s     11.00nm          5.1mb
RJF     67.58  48 eP    46 36.50   -0.5
SVW     67.91 329 eP    46 37.80   -0.9
TCF     67.97  47 eP    46 38.80   -0.6
         0.7s      7.70nm          5.0mb
CAF     68.01  49 eP    46 39.60   -0.1
         0.7s     22.05nm          5.4mb
TTA     68.07 331 eP    46 38.70   -1.1
MAF     68.22  47 eP    46 40.80   -0.2
         0.9s     11.45nm          5.1mb
BGF     68.38  47 eP    46 41.70   -0.2
         0.6s      9.90nm          5.2mb
LKO     68.50  87 Pc    46 42.12   -1.1
         0.7s     47.50nm          5.8mb
AVF     68.70  46 eP    46 43.30   -0.6
         0.7s      9.90nm          5.1mb
SSF     68.77  46 eP    46 43.60   -0.7
         0.8s     16.10nm          5.2mb
SNF     68.92  42 P     46 45.90    0.8
LOR     68.99  46 eP    46 45.00   -0.7
         0.7s     11.00nm          5.1mb
SMF     69.05  47 eP    46 45.10   -1.0
         0.6s     11.70nm          5.2mb
LBF     69.10  46 eP    46 45.90   -0.5
         0.7s      7.70nm          5.0mb
DOU     69.16  43 Pc    46 45.20   -1.4
ENN     69.93  42 eP    46 52.00    0.7
         0.8s     17.00nm          5.2mb
TIC     69.93  90 P     46 50.58   -1.4
MEM     70.00  42 P     46 51.50   -0.2
LIC     70.05  90 P     46 51.48   -1.2
         0.7s     27.00nm          5.5mb
WIT     70.15  40 eP    46 54.00    1.4
KIC     70.28  90 P     46 52.94   -1.2
         0.7s     30.50nm          5.5mb
WTS     70.33  41 eP    46 53.00   -0.7
         0.7s     42.00nm          5.7mb
HAU     70.56  45 eP    46 55.20   -0.1
BSF     70.88  45 eP    46 57.30   -0.1
CDF     71.12  44 eP    46 58.30   -0.4
LPL     71.20  47 eP    46 59.60    0.1
```

```
       0.7s      7.70nm          4.9mb
LPG   71.22  47 eP     46 59.60  -0.1
       0.7s      6.60nm          4.9mb
BNI   71.23  48 P      47 00.00   0.4
FRF   71.46  50 eP     47 00.80   0.0
NB2   71.61  31 P      47 00.70  -0.7
       0.8s     17.10nm          5.2mb
DOI   71.73  48 P      47 03.50   1.0
SBF   71.97  49 eP     47 04.10   0.2
       1.0s     20.00nm          5.1mb
CKI   72.47  48 P      47 06.00  -0.8
HFS   72.96  32 eP     47 08.20  -1.1
       0.6s      5.50nm          4.8mb
    Z  18s      0.25um          4.5Msz
                LR     09 45.00
MDI   73.21  47 P      47 09.00  -2.0
BOB   73.22  48 P      47 12.00   0.7
PGF   73.34  50 eP     47 11.70  -0.4
       1.0s     20.00nm          5.1mb
GRF   73.46  43 eP     47 10.80  -1.7
    Z  21s      0.30um          4.6Msz
                e      47 13.20
MOX   73.52  42 iP     47 14.00   1.2
       1.6s     31.00nm          5.1mb
FUR   73.79  44 eP     47 15.20   0.8
SAL   73.80  47 P      47 15.50   1.0
OGA   73.89  45 iPd    47 16.60   1.3
       1.0s     16.00nm          5.0mb
SQTA  73.94  45 iPc    47 16.00   0.6
       0.8s     16.00nm          5.1mb
                i      47 28.20
                i      47 47.70
CLL   74.25  41 iP     47 17.50   0.5
       1.8s     29.00nm          5.0mb
CTI   74.48  46 P      47 19.00   0.4
WEGH  74.68  89 eP     47 19.00  -1.2
LEGH  74.80  89 eP     47 20.00  -0.9
BRG   74.92  41 iP     47 21.90   1.0
       1.1s     21.00nm          5.1mb
                i      47 30.10
                e      47 41.30
UPP   74.95  31 iP     47 19.90  -0.9
PGD   75.01  48 P      47 21.00  -0.8
KHC   75.08  43 P      47 21.80  -0.1
                i      47 23.30
SFI   75.09  48 P      47 22.00   0.1
FVI   75.12  46 P      47 23.00   0.9
CRE   75.23  49 P      47 21.00  -1.9
PRU   75.50  42 Pd     47 25.60   1.4
                e      47 36.80
ASS   75.86  49 P      47 26.00  -0.5
TRI   76.00  46 iPc    47 28.00   0.9
VOY   76.01  46 eP     47 27.00  -0.3
MNS   76.04  50 P      47 28.00   0.5
KEV   76.06  20 eP     47 27.00   0.0
KSP   76.38  41 eP     47 27.00  -2.2
LJU   76.44  46 e(P)   47 29.50  -0.1
CEY   76.44  46 e(P)   47 31.00   1.3
SOD   76.72  23 iP     47 29.60  -1.1
SDI   77.02  50 P      47 32.00  -1.0
PTJ   77.43  46 eP     47 31.90  -3.3X
ZAG   77.47  46 eP     47 37.00   1.7
DUI   77.50  50 P      47 37.00   1.3
ZST   77.57  43 iP     47 37.20   1.4
BSS   77.99  51 P      47 41.00   2.7X
SUF   78.08  27 iP     47 38.00  -0.3
       0.5s     18.50nm          5.4mb
NUR   78.14  30 iP     47 39.40   0.7
       0.7s     16.00nm          5.2mb
SGO   78.42  51 P      47 40.00  -0.6
SRO   78.46  43 eP     47 42.00   1.3
MGR   78.71  51 P      47 42.50   0.2
KRA   78.84  41 eP     47 44.30   1.6
                e      47 52.00
ORI   79.39  51 P      47 46.50   0.5
TDS   79.43  52 P      47 47.00   0.8
BRT   79.71  50 P      47 49.00   1.3
BZS   81.30  45 eP     47 56.00   0.0
OHR   82.22  49 eP     48 02.00   1.0
SKO   82.39  48 iP     48 03.50   1.8
FNA   82.74  49 ePc    48 05.30   1.6
VAY   83.41  49 eP     48 07.70   0.7
GRG   83.41  49 ePc    48 07.60   0.5
CMP   83.68  44 ePc    48 10.00   1.6
KNT   83.69  49 ePd    48 10.60   2.1
LIT   83.77  50 ePd    48 10.30   1.4
AGG   84.03  51 ePc    48 12.80   2.5
SOH   84.14  49 ePc    48 11.90   1.1
MLR   84.19  44 iPd    48 12.00   0.9
SRS   84.20  48 ePc    48 12.50   1.4
ALN   86.00  48 ePc    48 21.20   1.2
CN2  113.77 343 ePKP   54 17.50  -1.1
WMO  115.01  13 ePKP   54 22.00   0.9
SNY  116.11 344 ePKP   54 22.00  -1.1
GTA  121.03   4 ePKP   54 32.80   0.0
    Z  22s      0.60um          5.2Msz
                e      55 17.60
TIY  122.30 352 ePKP   54 30.00  -5.2X
    Z  22s      1.00um          5.4Msz
NJ2  126.57 344 PKPc   54 37.70  -5.8X
SSE  126.82 342 ePKP   54 42.50  -1.5
NNT  147.60   8 ePKP   55 16.20  -6.0X
WB5  151.42 265 ePKP   55 27.90  -0.1
                i      55 33.80
                i      55 43.70
WRA  151.46 264 PKPc   55 27.70  -0.4
       0.9s     10.10nm
      S.D. = 1.0  on 175 of 190 obs.
-------------------------------------
*  MAY  22, 1990  20h 47m 31.63± 2.95s
     0.499 N ±10.8km  123.499 E ±12.2km
    DEPTH = 280.0 ± 34.5 km
    4.6mb (  5 obs.)
 MINAHASSA PENINSULA                (265)

MTN   15.27 151 iPd    50 54.30  -1.2
                e      55 37.30
KNA   16.96 162 eP     51 13.50  -0.3
MBL   21.82 189 eP     52 03.00   0.6
WB5   22.88 153 eP     52 13.00   0.4
WRA   22.93 153 Pd     52 13.10   0.0
       0.5s     14.40nm          4.7mb
NANU  24.20 198 eP     52 26.00   1.2
       0.4s      8.00nm          4.5mb
PMG   25.53 113 eP     52 37.00   0.0
OIS   26.20 144 iPd    52 43.30   0.2
       0.6s     29.00nm          5.0mb
                e      55 21.00
CHG   30.20 308 eP     53 19.00   0.4
SSE   30.51 356 P      53 22.50   1.4
GUN   45.17 310 P      55 23.30   0.0
PKI   45.36 310 P      55 24.70  -0.1
DMN   45.61 310 P      55 27.00   0.3
HYB   47.29 293 eP     55 38.50  -1.1
GBA   47.42 288 P      55 40.00  -0.5
       0.6s      4.60nm          4.0mb
SOD   92.20 337 eP     00 11.00   0.6
HFS   99.33 331 eP     00 41.00  -2.0
       0.6s      1.20nm          4.5mb
      S.D. = 0.9  on  17 of  17 obs.
-------------------------------------
?  MAY  22, 1990  20h 53m 28.87± 1.04s
    36.218 N ±19.1km   27.269 E ±10.4km
    DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS                 (369)

YER    1.22  41 iPn     53 51.50  -0.2
KSL    1.88  92 eP      54 00.80  -0.4
ELL    2.19  75 iPn     54 06.60   0.6
VAM    2.62 253 eP      54 12.00   0.0
BCK    2.94  64 ePn     54 20.00   3.5X
      S.D. = 0.8  on   4 of   5 obs.
-------------------------------------
?  MAY  22, 1990  21h 25m 35.94± 1.99s
    43.608 N ±65.9km    4.622 E ±17.9km
    DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE         (379)
      ML 2.5 (LDG).

LRG    1.27  96 Pn      25 58.80  -0.8
                Pg      26 01.20
                Sg      26 17.70
LMR    1.40 101 Pn      26 01.00  -0.5
                Pg      26 03.30
                Sg      26 20.70
FRF    1.47  91 Pg      26 04.60   2.1
                Sg      26 24.20
SBF    2.05  82 Pn      26 10.20  -0.8
                Pg      26 16.40
                Sg      26 41.80
CAF    2.26 307 Pg      26 20.20   6.2X
                Sg      26 49.20
LPO    2.70 295 Pn      26 20.20   0.1
                Sg      27 03.00
MAF    2.99 332 Pg      26 33.20   8.9X
                Sg      27 12.20
LFF    3.09 297 Pn      26 25.50  -0.1
                Sg      27 15.20
EPF    3.18 261 Pg      26 36.00   9.0X
                Sg      27 17.00
BGF    3.21 338 Pg      26 38.70  11.4X
                Sg      27 20.00
      S.D. = 1.4  on   6 of  10 obs.
-------------------------------------
*  MAY  22, 1990  21h 44m 47.88± 0.84s
    19.911 S ±11.6km  133.969 E ± 6.9km
    DEPTH =   5.0km  (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA      (591)

WB5    0.38  85 iPd     44 55.70   0.2
OIS    5.33  98 eP      46 10.00  -0.2
                eS      47 08.00
                e       47 31.00
KNA    6.45 309 eP      46 25.80  -0.2
                eS      47 37.00
WARB   9.19 226 eP      47 05.00   0.9
                eS      48 46.00
FORR  12.11 205 eP      47 43.30  -0.7
       0.3s      9.00nm          5.5mb X
                eS      49 51.00
      S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
    MAY  22, 1990  22h 21m 42.24± 0.39s
    45.874 N ± 3.1km    2.993 E ± 3.8km
    DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.3 (LDG).

PYM    0.12 175 ePg     21 46.08   0.7
                Sg      21 48.63
AGO    0.20  28 iPgd    21 47.28   0.6
                Sg      21 50.72
PLDF   0.45  77 ePg     21 50.97  -0.4
MAF    0.46 320 Pg      21 51.80   0.2
                Sg      21 58.20
LBL    0.67 164 iPgd    21 54.97  -0.5
TCF    0.68 308 Pg      21 55.70  -0.1
                Sg      22 04.80
8GF    0.69 352 Pg      21 55.80  -0.1
                Sg      22 05.20
AVF    0.95  15 Pg      22 00.00  -0.3
                Sg      22 12.00
SMF    0.97  37 Pg      22 00.80   0.1
                Sg      22 13.00
LSF    1.09 291 Pg      22 02.40  -0.3
                Sg      22 16.50
CAF    1.15 215 Pg      22 03.80   0.0
                Sg      22 18.60
SSF    1.24  16 Pg      22 04.80  -0.5
                Sg      22 21.20
LBF    1.30  31 Pg      22 06.50   0.1
                Sg      22 23.20
LOR    1.52  23 Pg      22 10.00   0.5
                Sg      22 29.60
      S.D. = 0.4  on  14 of  14 obs.
-------------------------------------
    MAY  22, 1990  23h 07m 18.66± 0.54s
    43.913 N ± 6.1km   11.921 E ± 4.1km
    DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

SFI    0.05 279 Pd      07 20.20  -0.6
                eSg     07 22.20
PGD    0.15 255 Pc      07 21.80  -0.5
                eSg     07 25.20
CRE    0.29 176 P       07 24.40  -0.3
                eSg     07 29.10
RSM    0.38  88 P       07 26.00  -0.5
                eSg     07 31.50
ARV    0.85 119 P       07 34.40  -0.6
                eSg     07 47.00
BDI    0.97 279 P       07 37.90   0.8
                eSg     07 51.90
ASS    1.00 147 P       07 38.50   0.9
                eSg     07 52.00
PII    1.03 260 P       07 37.90  -0.2
                eSg     07 52.80
MNS    1.63 160 P       07 48.00   0.5
                eSn     08 06.50
CTI    2.14 355 P       08 21.00  26.0X
TRI    2.22  36 P       08 02.00   5.9X
```

22d 23h

VOY 2.54 33 e(Pn) 08 01.20 0.6
eSn 08 31.30
FVI 2.75 12 P 08 13.50 10.0X
S.D. = 0.7 on 10 of 13 obs.

% MAY 23, 1990 00h 35m 04.18± 0.63s
44.627 N ± 5.5km 7.245 E ± 7.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

STV 0.39 171 P 35 12.32 0.2
S 35 17.14
ENR 0.42 162 P 35 12.75 0.0
S 35 18.58
RRL 0.44 312 P 35 13.42 0.2
S 35 19.09
ROB 0.56 126 P 35 15.59 0.0
S 35 22.98
LSD 0.83 356 P 35 20.15 -0.3
S 35 31.39
IMI 0.85 147 P 35 20.24 -0.4
PCP 0.93 95 P 35 22.37 0.3
S 35 34.67
S.D. = 0.3 on 7 of 7 obs.

? MAY 23, 1990 01h 01m 20.44± 1.69s
31.630 S ±11.2km 68.796 W ± 8.9km
DEPTH = 23.0 ± 19.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.13 50 iPc 01 25.00 -0.2
RTCB 0.14 359 iP 01 25.50 0.1
RTCV 0.32 136 iPc 01 27.70 0.0
RTLL 0.41 43 iPc 01 29.10 0.0
RTBS 0.56 267 ePd 01 31.50 0.0
S.D. = 0.2 on 5 of 5 obs.

& MAY 23, 1990 01h 02m 27.37s
48.838 N 122.175 W
DEPTH = 1.1km
3.4mb (1 obs.)
WASHINGTON (29)
<SEA>. CL 3.6 (SEA). Felt (V) at Deming.

MBW 0.19 106 Pd 02 31.82 0.6
CMW 0.42 175 Pd 02 35.13 -0.6
MCW 0.46 250 Pc 02 35.97 -0.6
OHW 0.57 205 P 02 38.40 -0.3
RPW 0.59 131 Pd 02 38.45 -0.6
JCW 0.67 166 Pd 02 39.68 -1.0
BLN 0.99 213 P 02 45.26 -1.7
PGW 1.06 196 Pc 02 47.16 -0.9
HTW 1.07 165 Pd 02 46.94 -1.4
STW 1.21 236 Pc 02 48.58 -2.1
SPW 1.29 182 Pc 02 51.66 -0.3
HDW 1.33 207 Pc 02 50.68 -2.1
GMW 1.35 198 Pc 02 51.37 -1.9
RMW 1.40 170 Pd 02 52.93 -1.1
NLW 1.44 121 P 02 53.92 -0.8
OSD 1.44 226 P 02 52.81 -1.9
OBC 1.50 238 P 02 53.03 -2.5
OTR 1.63 243 P 02 55.53 -1.8
GSM 1.66 171 Pd 02 56.75 -1.0
OFK 1.70 239 P 02 57.50 -0.8
OOW 1.74 231 P 02 58.51 -0.4
ETW 1.74 134 Pd 02 58.93 -0.2
GHW 1.80 182 P 02 59.09 -0.7
DHW2 1.82 117 P 03 00.24 0.2
WTV 1.87 127 Pc 03 00.61 -0.3
OBH 1.89 217 ePc 03 00.42 -0.7
RVC 1.90 176 P 03 00.75 -0.6
TWW 1.91 152 P 03 01.99 0.5
FMW 1.94 170 Pd 03 01.12 -0.8
CPW 1.97 199 ePc 03 01.29 -1.1
TBM 1.98 147 Pd 03 02.91 0.5
LON 2.10 173 iPc 03 04.00 -0.2
LMW 2.17 182 Pc 03 04.85 -0.4
SAW 2.17 120 P 03 06.74 1.5
WPW 2.18 169 P 03 05.09 -0.3
KOSW 2.38 180 P 03 08.26 0.0
VTG 2.39 141 P 03 09.93 1.7
CZM 2.41 185 P 03 08.49 -0.2
BMW 2.47 197 P 03 08.89 -0.6
TDL 2.49 181 P 03 09.80 0.0
ERK 2.54 183 P 03 10.27 -0.2
BVW 2.55 142 P 03 13.00 2.4
MXC 2.59 150 P 03 11.15 -0.1
SOSW 2.60 179 P 03 11.35 -0.1
SHW 2.65 181 eP 03 12.50 0.4
NEW 3.41 98 eP 03 21.70 -1.1
YKA 14.32 14 eP 05 58.00 4.9
0.4s 0.30nm 3.4mb
47 obs. associated

MAY 23, 1990 01h 15m 04.63± 0.37s
43.934 N ± 3.9km 128.481 W ± 5.1km
DEPTH = 10.0km (geophysicist)
4.8mb (24 obs.) 4.9Msz (2 obs.)
OFF COAST OF OREGON (30)

BMW 4.50 54 eP 16 13.50 -0.9
FHC 4.57 132 eP 16 14.50 -0.9
SHW 4.97 61 eP 16 20.30 -0.8
GMW 5.38 46 eP 16 26.20 -0.7
LON 5.48 57 eP 16 27.70 -0.7
WDC 5.54 125 ePc 16 29.40 0.3
VGB 5.71 71 eP 16 30.90 -0.7
PGC 5.86 35 eP 16 33.00 -0.6
MCW 6.15 38 eP 16 38.20 0.5
ORV 6.81 128 ePc 16 46.60 -0.4
BRK 7.67 140 ePc 16 55.00 -4.0X
eLR 19 04.00
BKS 7.68 140 e(P) 16 56.90 -2.2
iS 18 25.00
PNT 8.13 45 eP 17 05.00 -0.5
0.6s 18.00nm 5.5mb
MHC 8.39 139 ePc 17 10.00 0.8
CMB 8.49 131 ePc 17 10.40 -0.2
e 20 33.70
KVN 9.19 119 eP 17 20.50 0.2
FRI 9.63 133 ePc 17 25.40 -0.8
ISA 11.28 134 eP 17 47.00 -2.0
LRM 11.53 75 eP 17 51.50 -1.0
CLC 11.64 130 eP 17 55.00 1.2
PTI 11.77 90 eP 17 57.00 1.3
SBB 12.37 135 eP 18 03.00 -0.7
GSC 12.45 130 eP 18 06.00 1.2
RVR 13.15 135 eP 18 20.00 6.1X
SES 13.50 55 eP 18 19.00 0.4
TPC 13.76 131 eP 18 26.00 3.9X
BW06 13.82 88 eP 18 23.80 0.7
PLM 13.91 135 eP 18 24.00 -0.3
BAR 14.55 137 eP 18 33.00 0.6
GLA 15.22 131 eP 18 42.00 0.8
RSSD 17.57 81 eP 19 12.00 0.7
ALQ 19.19 110 eP 19 32.00 0.8
1.5s 34.72nm 4.4mb
FFC 20.24 48 iPd 19 42.20 -0.3
0.9s 67.00nm 5.0mb
YKA 20.28 19 eP 19 41.30 -1.5
0.8s 19.80nm 4.5mb
PMR 21.48 333 eP 19 55.80 0.7
1.2s 54.92nm 4.8mb
FBA 23.63 339 eP 20 17.60 1.3
0.9s 11.46nm 4.4mb
INK 24.58 355 eP 20 25.00 -0.4
MEO 24.75 101 eP 20 28.70 1.3
TTA 24.78 330 eP 20 28.20 0.6
1.0s 37.25nm 5.0mb
IMA 26.11 337 eP 20 39.90 -0.2
1.0s 15.00nm 4.6mb
TUL 26.19 97 eP 20 43.50 2.5
1.0s 17.00nm 4.7mb
Z 20s 3.51um 4.9Msz
LR 28 00.00
LNO 26.19 97 e(P) 20 48.30 7.4X
MBC 32.64 4 eP 21 38.50 0.3
0.6s 5.00nm 4.6mb
FRB 38.72 38 eP 22 32.00 2.0
KEV 65.21 9 eP 25 47.00 -0.7
SOD 67.42 10 eP 25 56.00 -5.9X
NB2 70.38 20 P 26 19.20 -1.1
1.5s 11.50nm 4.8mb
CN2 70.61 312 eP 26 25.60 3.7X
SUF 71.77 12 eP 26 28.00 -0.6
NUR 73.62 13 eP 26 35.00 -4.5X
GRR 77.21 33 iPd 27 00.60 0.5
1.2s 20.85nm 5.1mb
CLL 79.43 23 eP 27 13.00 0.8
MOX 79.61 25 eP 27 14.00 0.8
LOR 79.93 31 iPd 27 14.90 -0.1
1.4s 23.95nm 5.0mb
SSF 79.97 31 iPd 27 15.30 0.1
1.5s 18.30nm 4.8mb
BRG 80.09 23 eP 27 15.80 0.0
1.2s 11.00nm 4.7mb
TCF 80.13 32 eP 27 16.00 -0.1
1.2s 8.95nm 4.6mb
AVF 80.14 31 eP 27 15.70 -0.4
1.5s 18.30nm 4.8mb
BGF 80.14 32 iPd 27 16.00 -0.1
1.4s 17.45nm 4.8mb
CDF 80.17 28 eP 27 16.40 0.0
1.4s 13.05nm 4.7mb
LBF 80.21 31 eP 27 16.50 0.0
1.4s 10.90nm 4.6mb
MAF 80.32 32 eP 27 17.10 0.0
1.4s 17.45nm 4.9mb
BSF 80.50 29 eP 27 18.00 -0.2
1.3s 14.45nm 4.8mb
RJF 80.67 33 eP 27 18.60 -0.4
1.3s 14.45nm 4.8mb
KSP 80.76 22 eP 27 20.00 0.6
ZOBO 81.33 122 P 27 22.00 -1.5
Z 24s 0.15um 4.3MszX
LR 56 34.00
KHC 81.54 24 eP 27 24.40 0.9
TIY 81.80 316 eP 27 32.00 6.9X
Z 18s 0.60um 5.0Msz
N 11s 0.20um
SPC 83.30 20 eP 27 34.00 1.2
ZST 83.39 22 eP 27 34.10 1.0
e 44 01.30
e 44 25.60
SRO 84.07 22 eP 27 46.00 9.5X
WMQ 86.85 335 eP 27 48.00 -2.5
Z 12s 0.40um 5.0MszX
LZH 87.26 320 eP 27 52.00 -0.8
1.5s 19.00nm 5.1mb
Z 30s 0.50um 4.7MszX
pP 28 01.00 28kmX
S.D. = 1.0 on 64 of 73 obs.

? MAY 23, 1990 01h 40m 37.54± 3.15s
44.170 N ±23.5km 127.405 W ±18.2km
DEPTH = 10.0km (geophysicist)
3.3mb (1 obs.)
OFF COAST OF OREGON (30)

GT2 3.79 73 P 41 37.03 -0.3
RVW 3.85 57 P 41 37.98 -0.1
LVP 4.01 60 P 41 40.41 -0.1
VLMM 4.05 68 P 41 40.56 -0.5
FL2 4.11 59 P 41 41.88 0.0
MTMW 4.12 61 P 41 41.72 -0.2
TDH 4.16 72 P 41 42.34 -0.2
ERK 4.17 57 P 41 42.13 -0.5
SHW 4.18 59 P 41 42.69 -0.1
HSR 4.20 60 P 41 44.25 1.0
STD 4.21 59 P 41 43.06 -0.2
YEL 4.21 59 P 41 43.45 0.0
VBEM 4.25 76 P 41 44.01 0.1
CDFW 4.26 61 P 41 43.84 -0.1
TDL 4.26 57 P 41 43.77 -0.3
VLL 4.27 70 P 41 44.38 0.2
KOSW 4.33 56 P 41 45.37 0.4
VFP 4.38 73 P 41 46.00 0.2
GULW 4.48 65 P 41 48.07 1.0
ASR 4.56 62 P 41 48.34 0.0
RVC 4.72 52 P 41 50.44 -0.1
YKA 19.81 18 eP 45 10.80 0.0
0.9s 1.40nm 3.3mb
S.D. = 0.4 on 22 of 22 obs.

& MAY 23, 1990 02h 07m 35.20s
40.502 N 123.855 W
DEPTH = 25.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.1 (BRK). Felt at Fortuna and Rio Dell.

FHC 0.32 342 iPc 07 42.30 -0.2
i 07 49.60
WDC 1.01 85 iPc 07 51.70 -2.0
i 08 05.20
LTCM 1.35 102 eP 07 57.00 -1.6
MIN 1.72 94 iPd 08 02.10 -2.0
ORV 2.04 117 ePc 08 05.60 -3.0
PCC 3.21 159 e(P) 08 22.40 -2.8

```
ARN      3.63 149 eP    08 29.60  -1.6
SAO      4.18 152 e(P)  08 36.00  -3.0
KVN      4.66 106 eP    08 43.20  -2.8
         9 obs. associated
-----------------------------------------
% MAY 23, 1990  02h 32m 32.44± 0.81s
  42.299 N ± 7.2km   13.341 E ± 8.6km
  DEPTH = 10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

AQU      0.07  40 P     32 34.20  -0.7
                eSg     32 38.60
AZI      0.32 167 P     32 39.10   0.1
                eSg     32 43.70
MNS      0.50 280 P     32 41.90  -0.6
                eSg     32 50.00
SDI      0.69 149 P     32 46.40   0.3
                eSg     32 56.00
ASS      0.92 327 P     32 51.00   0.9
                eSn     33 05.00
      S.D. = 1.0  on  5 of  5 obs.
-----------------------------------------
? MAY 23, 1990  02h 35m 14.55± 1.71s
  27.296 N ±23.7km  129.678 E ±21.4km
  DEPTH = 33.0km  (normal)
  3.8mb (  3 obs.)
 RYUKYU ISLANDS                   (238)

BJI     16.94 322 eP    39 10.50   0.0
        1.0s    17.00nm          4.1mb
KMI     24.25 271 eP    40 30.20   0.3
GBA     50.47 265 Pc    44 11.30  -0.3
MBC     68.49  14 eP    46 36.00  20.9X
        0.6s    2.00nm
YKA     77.01  25 eP    47 05.50   0.1
        0.6s    0.40nm          3.6mb
HFS     78.48 333 eP    47 09.00  -4.5X
        0.4s    0.40nm          3.8mb
NB2     78.93 334 P     47 29.00  12.9X
        0.9s    1.10nm
      S.D. = 0.4  on  4 of  7 obs.
-----------------------------------------
   MAY 23, 1990  03h 10m 04.85± 0.62s
   43.946 N ± 2.9km  128.358 W ± 6.0km
   DEPTH = 10.0km  (geophysicist)
   4.4mb (  7 obs.)  4.2Msz (  1 obs.)
 OFF COAST OF OREGON              ( 30)

KMOR     3.86  62 P     11 04.48  -1.1
NLO      4.09  57 P     11 09.55   0.8
ONR      4.36  46 P     11 14.17   1.5
BMW      4.42  53 P     11 12.85  -0.7
PGO      4.48  68 P     11 14.63   0.4
FHC      4.51 133 eP    11 14.00  -0.8
GT2      4.52  72 P     11 14.72  -0.2
RVW      4.55  59 P     11 14.89  -0.4
LVP      4.72  61 P     11 17.59  -0.3
CPW      4.76  49 P     11 18.52   0.1
VLMM     4.77  68 P     11 18.38  -0.3
FL2      4.81  60 P     11 19.10  -0.1
CZM      4.83  57 P     11 18.60  -0.7
MTMW     4.83  62 P     11 19.25  -0.2
APW      4.85  54 P     11 19.29  -0.4
ERK      4.87  59 P     11 20.05   0.1
TDH      4.88  72 P     11 19.33  -0.8
SHW      4.88  60 P     11 20.36   0.2
HSR      4.91  61 P     11 20.13  -0.5
STD      4.91  60 P     11 20.61   0.0
JLK      4.92  61 P     11 20.68   0.1
YEL      4.92  60 P     11 20.85   0.1
ESD      4.94  61 P     11 21.04   0.0
SOSW     4.96  60 P     11 21.34   0.0
TDL      4.97  59 P     11 21.15  -0.2
VBEM     4.97  75 P     11 21.50   0.1
CDFW     4.97  62 P     11 21.33   0.0
VLL      5.00  70 P     11 21.81   0.1
KOSW     5.03  58 P     11 22.64   0.4
LMW      5.07  55 P     11 22.45  -0.3
APM      5.07  67 P     11 23.12   0.3
VFP      5.11  72 P     11 23.04  -0.3
GULW     5.19  65 P     11 24.61   0.1
HDW      5.24  43 P     11 26.06   0.9
ASR      5.28  63 P     11 25.64  -0.1
LON      5.40  56 eP    11 26.50  -0.9
RVC      5.40  54 P     11 27.28  -0.2
GLK      5.44  59 P     11 28.08   0.1
WDC      5.47 126 eP    11 36.40   8.0X
WPW      5.53  58 P     11 29.29  -0.1
FMW      5.57  55 P     11 29.63  -0.4
VGB      5.62  71 eP    11 29.90  -0.7
GL2      5.71  67 P     11 31.24  -0.6
MCW      6.09  37 P     11 38.11   1.1
JCW      6.17  44 P     11 39.28   1.1
MXC      6.27  62 P     11 39.33  -0.3
RPW      6.54  44 P     11 43.87   0.3
ORV      6.75 128 ePd    11 46.60   0.2
                 e      11 52.70
GBL      6.81  64 P     11 47.25   0.0
PNT      8.06  45 eP    12 06.00   1.2
        0.5s    4.00nm          4.9mb
MHC      8.34 140 eP    12 05.80  -3.0
CMB      8.44 132 ePc   12 09.60  -0.4
KVN      9.12 119 eP    12 19.80   0.2
LLA      9.25 140 eP    12 21.60   0.3
FRI      9.57 134 eP    12 25.20  -0.4
ISA     11.23 134 eP    12 50.00   1.6
CLC     11.58 131 eP    12 53.00  -0.2
SBB     12.32 135 eP    13 09.00   5.8X
GSC     12.39 130 eP    13 04.00  -0.2
MSU     13.33 108 eP    13 16.00  -0.8
SES     13.42  55 eP    13 29.00  11.3X
TPC     13.70 132 eP    13 24.00   2.5
BW06    13.73  88 eP    13 22.50   0.4
GLA     15.16 131 eP    13 41.00   0.3
RSSD    17.48  81 eP    14 10.50   0.1
ALO     19.11 111 eP    14 30.00  -0.5
        1.5s    20.83nm          4.2mb
FFC     20.17  48 iPc   14 41.50  -0.4
        0.9s    18.00nm          4.4mb
YKA     20.24  19 eP    14 41.20  -1.4
        1.2s    3.50nm           3.6mb
MEO     24.66 102 iPd   15 28.50   1.7
TTA     24.82 330 eP    15 28.00  -0.1
        1.0s    12.50nm          4.5mb
TUL     26.10  97 eP    15 42.50   2.1
        1.1s    8.40nm           4.3mb
      Z 18s     0.60um           4.2Msz
                LR      24 00.00
LNO     26.10  97 e(P)  15 47.30   7.0X
IMA     26.14 337 eP    15 40.00  -0.6
        1.6s    14.34nm          4.4mb
      S.D. = 0.8  on 69 of  73 obs.
-----------------------------------------
? MAY 23, 1990  03h 29m 32.14± 8.16s
  32.548 N ±23.6km   2.646 W ±68.6km
  DEPTH = 10.0km  (geophysicist)
 MOROCCO                          (395)
      MD 4.4 (RBA).

IFR      2.30 296 iPn    30 10.70  -0.1
                 iSn     30 38.00
                 i       30 39.00
NKM      3.69 322 ePn    30 30.50   0.0
                 eSn     31 10.00
AVE      4.08 282 iPnd   30 36.00   0.1
                 i       30 37.00
                 i       30 39.50
                 eSn     31 23.00
                 i       31 29.50
                 i       31 35.50
TIO      4.25 249 iPnc   30 38.50   0.0
                 iSn     31 33.00
      S.D. = 0.2  on  4 of  4 obs.
-----------------------------------------
   MAY 23, 1990  03h 45m 26.05± 0.44s
   15.264 N ± 8.9km  147.588 E ±10.0km
   DEPTH = 33.0km  (normal)
   4.4mb (  5 obs.)
 MARIANA ISLANDS REGION           (215)

GUA      3.11 237 eP    46 14.50   0.6
                 eS     46 50.30
GUMO     3.12 238 eP    46 13.80  -0.3
PJG      3.12 238 eP    46 13.80  -0.3
MAT     22.78 340 eP    50 26.00  -0.9
        0.8s    8.96nm           4.3mb
WB5     37.26 201 eP    52 36.80   0.0
WRA     37.33 201 Pd    52 37.00  -0.3
        0.8s    5.80nm           4.5mb
LZH     44.09 306 Pc    53 34.00   0.8
        2.0s    28.00nm          4.7mb
                 pP     18 35.00
                 sP     18 42.00
                 i      18 58.00
                 i      19 13.50
INK     71.82  23 eP    56 47.00  -0.1
MBC     76.01  14 eP    57 11.50   0.2
        0.8s    4.00nm           4.5mb
YKA     80.16  28 eP    57 33.50  -0.7
        0.7s    0.80nm           3.8mb
SES     85.46  39 eP    58 03.00   1.2
BCAO   125.89 287 iPdiff00 44.90 -20.5X
        0.6s   14.00nm
KIC    145.17 306 PKP   05 02.60  -0.3
        0.6s    9.50nm
TIC    145.21 307 PKP   05 02.80  -0.1
LIC    145.47 306 PKP   05 03.80   0.4
ZOBO   145.64  97 PKP   05 04.00  -0.3
      S.D. = 0.6  on  15 of  16 obs.
-----------------------------------------
   MAY 23, 1990  03h 55m 00.16± 0.50s
   4.213 S ± 7.0km  136.249 E ±10.3km
   DEPTH = 33.0km  (normal)
   5.1mb (  3 obs.)
 WEST IRIAN REGION                (196)

MTN      9.96 210 eP    57 24.10   0.0
        0.3s    77.00nm          6.4mb X
PMG     11.99 116 eP    57 51.00  -0.8
KNA     13.62 212 eP    58 12.80  -0.7
WB5     15.68 187 eP    58 35.80  -4.6X
                 i      58 44.80
                 eS     01 25.80
WRA     15.75 187 Pd    58 39.50  -1.8
        0.4s    1.40nm           3.5mb X
QIS     16.57 169 eP    58 47.00  -4.8X
                 e      02 47.00
CTA     18.55 149 eP    59 17.00   0.6
                 e(S)   03 07.00
                 i      07 14.00
KKM     22.45 297 eP    00 00.50   2.5
QLP     23.52 162 eP    00 09.30   1.0
WARB    23.71 202 eP    00 11.00   0.9
WHN     40.41 330 eP    02 38.00   1.0
                 pP     02 49.50  41kmX
KMI     43.70 314 Pd    03 04.50   0.2
        1.0s    30.00nm          5.0mb
XAN     45.97 328 P     03 20.70  -1.4
CD2     46.71 321 eP    03 27.40  -0.6
LZH     50.26 326 eP    03 55.50  -0.2
        1.5s    27.00nm          5.0mb
GTA     54.87 326 Pd    04 29.40  -0.6
GUN     58.06 307 P     04 52.60  -0.6
        0.7s    19.00nm          5.3mb
PKI     58.30 306 P     04 54.00  -0.9
WMQ     64.69 323 P     05 36.50  -0.9
ARE    145.73 128 ePKP  14 39.00   0.7
LPB    148.31 131 PKP   14 44.00   1.4
ZOBO   148.45 131 PKP   14 46.50   3.4X
        1.1s   11.60nm
                 i      14 49.90
CCH    149.19 135 ePKP  14 48.00   4.1X
      S.D. = 1.1  on  19 of  23 obs.
-----------------------------------------
& MAY 23, 1990  05h 49m 52.66s
  62.491 N          148.350 W
  DEPTH = 6.5km
 CENTRAL ALASKA                   (  1)
      <AGS-P>.

SML      0.69 179 iP    50 06.27  -0.1
                 eS     50 16.48
HUR      0.77 310 iP    50 07.47  -0.5
                 iS     50 18.84
GHO      0.77 201 iP    50 07.39  -0.7
                 iS     50 19.00
NCA      0.87 124 iP    50 08.86  -0.9
                 eS     50 21.82
CUT      0.90 265 iP    50 09.29  -0.9
                 eS     50 21.54
RND      0.95 346 iP    50 09.89  -1.2
                 iS     50 21.82
PLRM     0.97 203 iP    50 10.05  -1.4
                 iS     50 24.14
TOA      1.09 110 eP    50 12.37  -1.1
PWA      1.11 221 iP    50 12.65  -1.1
                 eS     50 29.31
MCK      1.27 348 eP    50 14.81  -1.8
                 eS     50 30.99
SDG      1.30  87 eP    50 15.17  -1.9
PMS      1.38 205 eP    50 16.39  -2.0
```

23d 05h

		eS	50 35.67		
PAX	1.41 69	iP	50 16.47	-2.5	
		eS	50 34.35		
KLU	1.52 130	eP	50 17.77	-2.7	
		eS	50 37.52		
SUA	1.53 229	iP	50 18.87	-1.7	
		eS	50 40.12		
SKT	1.57 252	iP	50 18.93	-2.2	
		eS	50 40.64		
KTH	1.58 313	iP	50 19.03	-2.3	
		eS	50 39.86		
VLZ	1.67 144	eP	50 19.24	-3.2	
		eS	50 42.17		
VZW	1.67 148	eP	50 19.49	-3.1	
		eS	50 41.34		
DDM	1.72 40	eP	50 22.08	-1.3	
GLI	1.72 159	iP	50 20.50	-2.8	
WRH	1.99 3	eP	50 23.83	-3.3	
HDA	2.02 17	eP	50 24.75	-2.9	
NCG	2.10 240	eP	50 27.07	-1.8	
NEA	2.12 351	iP	50 25.47	-3.5	
CCB	2.18 6	eP	50 26.15	-3.7	
CRP	2.18 237	eP	50 28.11	-2.0	
SLKM	2.18 205	eP	50 27.96	-2.0	
SPU	2.19 235	iP	50 27.92	-2.2	
NKA	2.23 219	eP	50 31.81	1.2	
DOT	2.27 57	eP	50 28.59	-2.7	
FBA	2.43 6	eP	50 29.55	-3.9	
SEW	2.45 193	eP	50 31.36	-2.4	
RDT	2.73 227	eP	50 35.23	-2.7	
RED	2.97 228	eP	50 38.67	-2.6	
TGL	3.16 121	eP	50 42.42	-1.5	
BALM	3.21 114	eP	50 40.48	-4.1	
CNPM	3.29 207	eP	50 43.15	-2.6	

38 obs. ossociated

---

* MAY 23, 1990 05h 54m 01.55± 1.25s
37.672 N ±13.1km 20.811 E ±12.1km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
ML 3.7 (ATH).

VLS	0.53 341	ePg	54 11.00	-1.4	
ITM	1.01 119	ePg	54 20.00	-0.8	
VLI	1.95 119	ePg	54 38.50	3.5X	
KEK	2.19 339	ePg	54 43.70	5.2X	
ATH	2.32 82	ePb	54 42.00	1.6	
NEO	2.50 48	ePn	54 43.00	0.1	
OHR	3.44 360	ePn	54 49.00	-7.2X	
VAM	3.54 129	ePn	54 57.00	-0.7	
VAY	3.89 20	ePn	55 06.00	3.4X	
MGR	4.78 303	P	55 16.50	1.1	

S.D. = 1.5 on 6 of 10 obs.

? MAY 23, 1990 06h 13m 02.44± 2.37s
40.168 N ±29.1km 116.569 E ± 8.8km
DEPTH = 10.0km (geophysicist)
NORTHEASTERN CHINA (658)
ML 3.7 (BJI).

BJI	0.33 247	Pg	13 08.50	-0.7	
HHC	3.88 282	ePg	14 11.80	8.3X	
TIA	3.97 174	Pnc	14 04.60	-0.1	
		Pg	14 15.10		
		Sg	15 06.30		
TIY	4.05 234	Pnc	14 06.80	0.9	
		Pg	14 16.70		
DL2	4.11 106	Pn	14 06.50	-0.1	
		Pg	14 14.50		
BTO	5.02 277	ePg	14 33.00	13.3X	

S.D. = 1.2 on 4 of 6 obs.

? MAY 23, 1990 07h 11m 02.30± 5.08s
0.346 S ±11.5km 78.935 W ±35.4km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

GGP	0.38 63	iPd	11 10.60	0.3	
		iS	11 16.50		
QUR	0.44 67	iPd	11 11.30	-0.1	
		iS	11 17.50		
VC1	0.61 119	iPd	11 15.00	0.1	
		iS	11 16.50		
COTA	0.90 41	P	11 20.00	0.1	
CAYA	1.04 66	eP	11 22.00	-0.3	

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

? MAY 23, 1990 07h 24m 26.99± 1.12s
30.549 S ± 9.5km 116.789 E ±12.5km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.09 231	iPd	24 29.40	-0.2	
KLB	1.33 142	eP	24 51.50	-0.1	
		iS	25 08.70		
MRWA	1.49 332	eP	24 53.90	0.0	
		eS	25 12.00		
MUN	1.51 199	eP	24 54.30	0.2	
		eS	25 14.00		

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

MAY 23, 1990 08h 45m 15.84± 0.50s
40.493 N ± 5.0km 29.202 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.15 60	iPg	45 19.00	-0.4	
GBZT	0.35 32	ePg	45 23.20	0.2	
		iSg	45 29.00		
HRT	0.48 47	ePg	45 25.50	-0.2	
ISK	0.58 349	ePg	45 27.50	-0.1	
KCT	0.69 250	iPg	45 29.50	0.0	
GPA	0.87 103	ePg	45 33.00	0.4	
CTT	0.88 318	ePg	45 33.10	0.4	
		eSg	45 47.10		
EDC	1.03 262	ePn	45 35.10	-0.2	
ALT	1.60 154	ePn	45 44.20	-0.1	

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

% MAY 23, 1990 09h 29m 04.28± 0.92s
39.250 N ± 7.8km 29.426 E ±10.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.57 110	ePg	29 15.70	-0.2	
		iSg	29 24.20		
KHL	0.93 175	ePg	29 22.20	0.1	
		eSg	29 35.40		
GPA	1.24 33	ePn	29 28.00	0.6	
KCT	1.29 321	iPn	29 27.90	-0.4	
YLV	1.32 358	iPn	29 28.90	0.3	
HRT	1.58 7	ePn	29 30.00	-2.4	
EDC	1.63 313	ePn	29 33.00	-0.1	
ISK	1.84 351	ePn	29 38.00	1.9	
KGT	2.03 307	ePn	29 42.00	3.1X	

S.D. = 1.4 on 8 of 9 obs.

MAY 23, 1990 09h 43m 03.98± 1.62s
13.730 N ± 5.3km 60.623 W ±14.9km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.1 (TRN). ML 2.7 (FDF).

SLB	0.42 283	eP	43 12.59	0.1	
		eS	43 17.72		
SOA	0.62 235	eP	43 16.77	0.3	
		eS	43 22.83		
SVV	0.71 235	eP	43 17.94	0.0	
		eS	43 26.05		
SVB	0.76 233	eP	43 18.78	-0.1	
		eS	43 27.02		
FCV	0.83 227	eP	43 19.86	-0.2	
		eS	43 28.62		
MVM	0.86 342	iPc	43 20.94	0.4	
		S	43 31.80		
BIM	0.89 331	iPc	43 21.26	0.1	
CRM	1.06 344	iPc	43 24.02	0.1	
		S	43 37.50		
FDF	1.12 333	eP	43 24.67	-0.3	
	0.1s	0.44nm			
		S	43 38.40		
PML	1.18 333	eP	43 25.87	-0.1	
SVN	1.22 335	eP	43 26.56	-0.2	
		eS	43 42.43		

S.D. = 0.2 on 11 of 11 obs.

MAY 23, 1990 09h 57m 21.63± 1.47s
2.920 S ± 5.6km 141.551 E ± 7.2km
DEPTH = 52.6 ± 14.2 km
4.8mb (17 obs.) 4.6Msz (6 obs.)
NEAR N COAST OF PAPUA NEW GUINEA(200)
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 9S, 19C

Centroid Locotion:
Origin Time 09:57:22.3 0.6
Lot 2.88S 0.08 Lon 141.45E 0.09
Dep 23.0 7.5 Half-duration 2.0
Moment Tensor; Scale 10**16 Nm
Mrr=-4.04 0.75 Mtt= 5.90 0.66
Mff=-1.86 0.95 Mrt= 3.78 1.80
Mrf= 8.62 2.94 Mtf= 5.31 0.80
Principol Axes:

T	Vol= 12.31	Plg=27	Azm=323
N	-0.64	30	216
P	-11.67	48	86

Best Double Couple:Mo=1.2**10**17
NP1:Strike=100 Dip=33 Slip= -22
NP2: 209 78 -121

MNDI	3.84 147	eP	58 21.60	1.7	
LAT	6.58 125	eP	58 58.00	-0.1	
PMG	8.52 139	eP	59 21.00	-4.1X	
MTN	14.27 226	eP	00 40.70	-1.7	
		eS	03 13.00		
GUMO	16.73 11	eP	01 21.00	7.0X	
PJG	16.73 11	eP	01 21.00	7.0X	
QIS	17.63 186	ePc	01 23.50	-1.8	
		e	04 36.00		
CTA	17.67 165	iPd	01 33.00	7.2X	
	1.1s	50.63nm		4.6mb	
		iS	04 48.00		
		i	05 07.40		
		eLR	06 40.00		
		i	07 45.00		
		e	13 40.00		
KNA	17.92 224	eP	01 28.00	-0.8	
		eS	04 41.00		
WB5	18.26 202	eP	01 31.70	-1.3	
		i	01 41.80		
		iS	04 50.00		
WRA	18.33 202	Pc	01 33.50	-0.3	
	0.6s	19.70nm		4.5mb	
HNR	19.39 110	eP	01 42.00	-4.3X	
MKS	22.14 263	e(P)	02 16.00	1.5	
QLP	23.67 174	eP	02 30.30	1.0	
RMQ	24.43 164	iPc	02 37.60	0.8	
	1.4s	323.00nm		5.7mb	
TSM	24.51 287	ePc	02 40.70	3.1X	
BRS	26.60 157	e(P)	02 57.00	0.0	
KKM	26.82 289	ePd	02 59.20	-0.1	
WARB	27.20 210	eP	03 02.50	0.0	
	0.3s	5.00nm		4.6mb	
MBL	27.85 228	eP	03 09.50	1.1	
CMS	28.70 172	iPc	03 17.00	1.0	
	1.0s	21.00nm		4.7mb	
COO	29.20 161	eP	03 21.70	1.2	
DZM	30.77 130	iPc	03 32.10	-2.5	
BWA	31.99 169	eP	03 46.20	1.1	
CAN	32.97 169	eP	03 54.00	0.3	
COOL	33.84 213	eP	04 00.00	-1.2	
BFD	34.10 179	eP	04 04.00	0.6	
	1.1s	42.00nm		5.3mb	
MRWA	35.69 220	eP	04 16.00	-1.0	
KLB	36.27 216	eP	04 22.40	0.5	
MUN	37.46 217	eP	04 33.00	1.1	
SSE	39.00 332	P	04 46.00	1.3	
Z	20s	0.50um		4.3Msz	
E	10s	0.20um			
MAT	39.38 356	(P)	04 50.00	2.1	
		eS	10 45.00		
NJ2	40.91 330	eP	05 01.80	1.3	
SNG	42.07 284	eP	05 10.50	0.3	
WHN	42.20 324	eP	05 12.50	1.4	
PSI	42.97 277	ePd	05 17.50	-0.2	
LOE	44.16 299	eP	05 25.00	-2.3	
GYA	44.60 313	P	05 32.60	1.7	
KMI	46.84 309	Pd	05 50.00	1.3	
	2.5s	100.00nm		5.3mb	
Z	25s	0.60um		4.5MszX	
		pP	05 56.00	20kmX	
CHTO	47.15 299	eP	05 50.00	-1.0	
	1.2s	6.94nm		4.5mb	
SNY	47.44 342	eP	05 51.40	-1.5	
Z	22s	0.50um		4.4Msz	
N	18s	0.50um			
E	22s	0.50um			
XAN	47.91 323	P	05 57.40	0.6	
TIY	48.61 329	eP	06 00.70	-1.5	
Z	18s	1.10um		4.9Msz	
N	16s	0.80um			

		S	13	04.50	
BJI	48.67	334 eP	06	02.50	0.0
	2.0s	55.00nm			5.2mb
Z	20s	0.60um			4.6Msz
N	12s	0.32um			
		eS	13	00.00	
CN2	48.71	344 Pc	06	01.80	-0.9
Z	18s	0.40um			4.4Msz
		eS	13	04.00	
CD2	49.27	316 eP	06	07.70	0.3
HHC	51.45	331 eP	06	24.20	0.4
BTO	52.02	330 eP	06	28.00	-0.2
N	18s	0.70um			
E	18s	0.80um			
		eS	13	44.00	
LZH	52.38	321 Pd	06	31.50	0.4
	2.5s	100.00nm			5.4mb
Z	30s	1.00um			4.7MszX
		pP	06	36.50	17kmX
		S	13	58.00	
GTA	56.95	322 Pc	07	04.40	0.2
GUN	61.65	304 P	07	36.60	-0.6
DMN	62.19	303 P	07	40.00	-0.7
GBA	65.66	286 Pc	08	00.80	-2.3
	0.7s	3.70nm			4.5mb
WMQ	66.95	321 P	08	12.00	0.9
Z	16s	0.30um			4.6MszX
		eS	17	05.00	
TTA	80.42	24 P	09	27.60	-1.4
	1.1s	12.50nm			4.8mb
IMA	82.68	22 P	09	39.50	-1.3
	1.1s	9.69nm			4.7mb
PMR	82.86	27 P	09	39.60	-2.0
	1.0s	14.75nm			5.0mb
FBA	84.53	24 P	09	48.00	-2.0
	0.6s	6.16nm			4.9mb
MAIO	85.31	307 eP	09	56.00	1.3
		eS	20	29.00	
SPA	87.10	180 eP	10	02.90	0.0
	0.9s	8.18nm			4.9mb
INK	90.81	22 eP	10	17.00	-3.1X
YKA	98.96	27 eP	10	54.20	-3.3X
	1.1s	1.70nm			4.5mb
LPB	144.91	124 ePKP	16	36.00	-20.0X
ZOBO	145.02	124 PKP	16	55.70	-0.7
Z	20s	0.18um			4.8Msz
		LR	05	30.00	
CCH	146.04	127 PKP	17	00.80	3.0X
TIC	146.49	278 PKP	16	59.40	1.1
LIC	146.53	277 PKP	16	59.40	1.1
LKO	146.70	283 (PKP)d	16	59.98	1.4
	0.6s	14.00nm			
SIV	150.79	131 PKP	17	09.60	4.7X
S.D. = 1.2 on 58 of 69 obs.					

? MAY 23, 1990 10h 37m 25.62± 1.43s
21.757 S ±48.5km 174.669 W ±25.1km
DEPTH = 33.0km (normal)
4.8mb (5 obs.)
TONGA ISLANDS (173)

DZM	17.53	265 iPc	41	34.60	5.3X
RMQ	33.64	255 iPc	44	07.00	1.5
WB5	47.50	263 eP	45	59.10	-0.7
WRA	47.51	262 Pd	45	59.30	-0.6
	0.9s	9.40nm			4.8mb
MTN	52.28	270 eP	46	35.90	-0.6
MAT	73.09	322 eP	48	55.00	0.5
	1.1s	15.19nm			4.9mb
ALQ	85.79	50 eP	50	02.70	-0.7
	1.0s	5.00nm			4.7mb
PNT	86.00	33 eP	50	04.00	0.2
	0.8s	6.00nm			4.9mb
SES	91.08	35 eP	50	29.00	1.1
KMI	92.69	296 Pd	50	39.50	3.4X
Z	25s	0.60um			4.9MszX
		pP	50	50.00	33kmX
YKA	96.37	24 eP	50	51.20	-0.7
	1.0s	0.60nm			4.0mb
KSP	149.73	346 ePKP	57	12.00	3.5X
CLL	149.90	350 ePKP	57	14.00	5.3X
BRG	150.17	349 ePKP	57	14.40	5.2X
	1.5s	64.00nm			
PRU	150.90	348 ePKP	57	17.00	6.7X
		e	57	28.50	
KHC	151.91	348 ePKP	57	17.00	5.1X
S.D. = 1.0 on 9 of 16 abs.					

MAY 23, 1990 10h 50m 55.10± 0.51s
8.289 S ± 6.9km 156.268 E ± 7.1km
DEPTH = 33.0km (normal)
4.7mb (8 obs.)
SOLOMON ISLANDS (193)

HNR	3.81	108 eP	51	52.00	-0.9
		eS	52	28.00	
RAB	5.76	315 e(P)	52	20.00	-0.6
PMG	9.07	262 eP	53	05.00	-1.9
CTA	15.22	219 iPc	54	30.00	0.7
	1.3s	76.92nm			4.8mb
		i	54	35.00	
		i	54	42.50	
DZM	16.84	146 iPc	54	51.00	0.8
RMQ	19.46	201 iPc	55	21.30	-0.8
	1.3s	113.00nm			5.0mb
QIS	20.20	231 iPd	55	30.00	-0.1
	0.9s	31.00nm			4.7mb
WB5	24.13	239 eP	56	10.00	0.8
WRA	24.18	239 Pc	56	11.00	1.3
	1.3s	58.50nm			5.0mb
GUMO	24.50	332 eP	56	13.50	0.7
PJG	24.50	332 eP	56	13.50	0.7
CMS	25.05	201 eP	56	17.30	-0.6
	0.9s	21.00nm			4.7mb
CHTO	62.60	296 eP	01	19.00	0.2
	1.1s	5.30nm			4.6mb
FBA	83.86	21 eP	03	21.50	-1.0
	1.0s	5.00nm			4.6mb
YKA	96.88	28 eP	04	24.50	0.6
	1.1s	0.90nm			4.2mb
S.D. = 1.0 on 15 of 15 abs.					

---

* MAY 23, 1990 10h 51m 49.44± 0.86s
39.948 N ±17.2km 76.624 E ±25.8km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)
SOUTHERN XINJIANG, CHINA (321)

NDI	11.25	177 eP	54	31.00	0.1
	0.5s	14.08nm			5.4mb
		eS	56	26.00	
DMN	14.17	148 P	55	10.00	-0.2
	0.4s	8.00nm			4.7mb
GUN	14.24	145 P	55	12.00	0.9
PKI	14.33	147 P	55	11.60	-0.7
	0.5s	8.00nm			4.6mb
HFS	43.22	319 eP	59	48.70	0.0
	0.7s	4.70nm			4.3mb
NB2	44.41	321 P	59	58.40	0.0
	0.7s	2.40nm			4.1mb
YKA	77.51	5 eP	03	47.80	5.0X
	0.6s	0.50nm			3.7mb
S.D. = 0.7 on 6 of 7 abs.					

? MAY 23, 1990 12h 26m 49.73± 2.00s
5.494 N ±30.4km 31.681 E ±11.8km
DEPTH = 10.0km (geophysicist)
4.9mb (11 abs.)
SUDAN (557)

AAE	7.86	63 P	28	48.00	0.9
PRNI	24.92	7 eP	32	16.00	1.6
DSI	26.17	7 eP	32	17.00	-9.1X
LKO	37.15	279 P	34	03.74	0.8
VOY	43.23	342 e(P)	34	53.60	0.7
ZST	44.33	346 e(P)	35	02.60	0.9
LPG	45.37	335 eP	35	10.40	0.0
	1.1s	14.65nm			4.8mb
KRA	45.50	349 eP	35	10.30	-0.7
KSP	47.00	347 eP	35	23.00	0.2
SMF	47.52	334 eP	35	27.30	0.3
	0.8s	8.75nm			4.9mb
LBF	47.72	335 eP	35	28.80	0.1
	1.2s	11.90nm			4.9mb
AVF	47.84	334 eP	35	30.00	0.5
	0.7s	4.95nm			4.7mb
TCF	47.97	333 eP	35	31.70	1.1
	1.0s	14.00nm			5.0mb
LOR	47.99	335 eP	35	30.90	0.1
	1.3s	21.65nm			5.1mb
MOX	48.04	343 eP	35	31.00	0.0
CLL	48.24	344 iP	35	31.60	-1.0
	1.2s	12.00nm			4.8mb
LSF	48.26	332 eP	35	33.00	0.2
	1.1s	18.00nm			5.1mb
NUR	55.14	356 iP	36	27.80	3.4X
	0.7s	50.70nm			5.7mb
SUF	57.25	357 iP	36	38.30	-1.1
	0.5s	4.30nm			4.7mb
NB2	57.52	348 P	36	40.00	-1.5
	1.1s	6.30nm			4.6mb
SOD	61.87	358 eP	37	10.00	-1.2
KEV	64.25	358 eP	37	25.00	-1.8
RMQ	116.63	117 ePdiff	42	01.30	10.1X
	0.6s	8.00nm			
BRS	120.04	118 iPdiff	42	16.50	10.2X
S.D. = 1.0 on 20 of 24 abs.					

MAY 23, 1990 12h 52m 25.15± 0.13s
20.634 N ± 2.4km 120.894 E ± 3.4km
DEPTH = 35.3km (16 depth phases)
5.5mb (50 abs.) 4.6Msz (4 obs.)
PHILIPPINE ISLANDS REGION (248)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 12:52:24.8 0.7
Lat 20.40N 0.16 Lon 120.42E 0.25
Dep 28.3 7.8 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-3.73 0.86 Mtt=-1.00 0.76
Mff= 4.73 1.04 Mrt= 2.32 1.37
Mrf=-2.83 1.54 Mtf= 5.01 0.87
Principal Axes:

T	Val= 7.79	Plg= 7	Azm=118
N	-0.49	45	21
P	-7.30	44	215

Best Double Couple:Mo=7.5*10**16
NP1:Strike=246 Dip=55 Slip= -30
NP2: 354 66 -141

TWG	2.18	4 eP	52	58.40	-1.4
		eS	53	11.50	
TWF1	2.73	8 eP	53	07.50	-0.1
		eS	53	28.50	
TWD	3.49	11 eP	53	18.10	-0.2
TWQ	3.62	359 eP	53	19.90	-0.4
BAG	4.21	184 eP	53	27.80	-1.1
ANP	4.56	7 eP	53	18.00	-15.7X
QCP	5.97	178 eP	53	28.00	-25.5X
HKC	6.48	286 iP	53	55.90	-4.7X
MCO	6.99	284 iP	54	03.00	-4.9X
		eS	55	18.10	
GZH	7.42	291 iPc	54	08.80	-5.1X
Z	14s	8.70um			
N	14s	5.00um			
E	14s	8.90um			
SSE	10.42	1 P	54	54.30	-1.0
Z	20s	4.60um			
N	14s	2.20um			
E	14s	3.20um			
QIZ	10.52	263 P	54	51.40	-5.4X
N	13s	4.30um			
E	14s	4.40um			
		eS	56	56.80	
WHN	11.50	330 Pc	55	06.00	-3.9X
Z	16s	6.50um			
N	18s	5.30um			
E	14s	5.00um			
NJ2	11.52	351 eP	55	08.00	-2.2
Z	18s	1.40um			
N	13s	2.20um			
E	14s	3.10um			
DAV	14.21	161 eP	55	47.00	0.9
GYA	14.28	297 iPd	55	43.00	-4.0X
Z	15s	2.90um			
N	13s	3.30um			
E	13s	3.60um			
		pP	55	55.00	
KKM	15.20	198 ePc	56	03.50	4.4X
	1.0s	110.80nm			5.1mb
TIA	15.87	349 eP	56	08.80	1.3
Z	16s	3.40um			
N	14s	2.60um			
E	14s	2.40um			
TSM	16.54	190 eP	56	16.00	-0.2
XAN	17.05	324 Pd	56	22.20	-0.4
	1.5s	200.00nm			5.0mb
N	13s	5.00um			
E	10s	1.70um			

23d 12h

KMI		17.31	288	Pd	56	24.20	-1.9				1.2s	64.30nm		5.3mb		PRU		84.41	322	Pd	04	55.80	0.5
		2.5s	100.00nm				4.5mb X					e	01	39.00	570kmX			1.5s	75.90nm				5.6mb
	Z	15s	4.30um				4.1Msz	GBA		42.02	268	Pd	00	14.50	-0.6		Z	16s	0.70um				5.1MszX
	N	12s	0.90um							1.2s	50.70nm			5.1mb			N	15s	0.60um				
			pP		56	29.00		WB5		42.37	161	iPd	00	17.00	-0.9		E	14s	0.40um				
DL2		18.22	2	eP	56	37.00	0.0					eScP	06	34.50					e		05	05.90	32km
	Z	18s	2.10um					WRA		42.42	161	Pd	00	17.20	-1.1	CLL		84.71	323	iPd	04	57.00	0.3
	N	12s	2.00um							1.1s	274.20nm			5.9mb				1.7s	89.00nm				5.7mb
			esP		56	47.00		KSH		42.67	306	P	00	23.00	2.6X				epP		05	08.00	35km
			eS		59	57.00			E	13s	2.60um					PTJ		85.29	317	eP	05	00.20	0.3
			esS		00	12.00		KOD		43.00	263	eP	00	24.00	0.5	ZAG		85.31	317	eP	05	00.00	0.2
LOE		18.40	263	eP	56	39.00	-0.3	NANU		43.25	187	iPd	00	24.70	-0.3	KHC		85.35	321	Pd	05	00.90	0.8
CD2		18.49	307	eP	56	38.70	-1.8			0.6s	34.00nm			5.3mb				1.2s	30.00nm				5.4mb
	Z	15s	6.20um					POO		44.25	276	iPd	00	33.50	0.1				e		05	10.50	30km
	N	12s	5.46um					QIS		44.84	155	iPd	00	37.00	-1.0	WET		85.76	321	eP	05	02.90	0.8
			eS		00	03.00				0.6s	73.00nm			5.7mb				1.6s	71.00nm				5.6mb
TIY		18.54	338	Pd	56	41.60	0.6	CTA		47.48	147	iPc	00	59.20	0.4	MOX		85.80	323	ePd	05	03.00	0.8
	Z	18s	6.80um							1.1s	193.67nm			6.0mb				1.8s	77.00nm				5.6mb
	N	15s	5.70um									i	01	08.00	29km	HOF		85.80	323	iPd	05	02.60	0.3
BJI		19.76	349	iPd	56	54.50	-0.6					i	01	35.50				1.0s	39.00nm				5.6mb
		1.2s	230.00nm				5.4mb	QLP		52.11	153	iPd	01	34.10	-0.1	VBY		85.90	317	eP	05	04.20	1.4
	Z	12s	2.70um				5.4Msz	RMQ		54.08	149	iPc	01	48.80	0.1	LJU		86.12	318	eP	05	04.00	0.1
	N	13s	1.47um							0.9s	68.00nm			5.7mb		CEY		86.32	318	eP	05	05.00	0.0
			S		00	34.00		MAIO		55.34	300	iPd	01	58.20	0.0	YKA		86.33	23	eP	05	03.80	-0.8
NST		20.33	259	eP	57	02.00	0.8					eS	09	44.00				1.0s	12.80nm				5.1mb
CHG		20.74	269	iPd	57	04.80	-0.6	BRS		56.85	146	iPc	02	09.40	0.5	BHG		86.40	320	iPc	05	06.30	1.0
		1.0s	68.50nm				5.0mb					i	02	30.00	81kmX			1.6s	91.00nm				5.8mb
SNY		21.25	6	eP	57	08.40	-2.0	CMS		57.08	155	iPc	02	10.50	0.1	GRF		86.47	322	iPd	05	06.40	0.8
	Z	16s	2.80um				4.7MszX			1.0s	28.00nm			5.3mb				1.9s	96.00nm				5.7mb
	N	16s	2.00um					ADE		57.83	163	iPd	02	15.30	-0.3		Z	19s	0.50um				4.9Msz
	E	14s	1.70um							1.0s	58.00nm			5.6mb					e		05	19.40	43km
			pP		57	18.00	36km	COO		59.00	149	eP	02	25.20	1.3	VOY		86.53	318	eP	05	05.90	-0.1
			PP		57	40.00		BFD		61.02	160	iPd	02	36.90	-0.6	FVI		86.97	319	Pd	05	17.50	9.5X
			S		01	00.00				1.1s	43.00nm			5.5mb		FUR		87.15	321	iPc	05	10.40	1.5
LZH		21.44	319	Pd	57	11.50	-1.2					epP	02	47.30	34km	ORI		87.40	312	P	05	11.00	0.7
		4.0s	780.00nm				5.5mb X	DZM		61.48	131	iPc	02	40.00	-1.0	SQTA		87.64	320	iPd	05	11.00	-0.4
			sP		57	25.00		TOO		62.35	158	eP	02	47.00	0.4			1.4s	47.90nm				5.6mb
			PP		57	38.00		DHR		64.44	290	eP	03	00.10	-0.5				i		05	22.10	35km
HHC		21.66	341	Pd	57	15.50	0.8	TAB		65.68	303	eP	03	09.00	0.4	TDS		87.65	312	P	05	12.50	1.0
		1.2s	200.00nm				5.4mb	SLY		66.70	301	eP	03	14.00	-1.0	SGO		87.98	313	P	05	13.00	0.0
	Z	16s	7.10um				5.2MszX	RYD		67.89	289	ePd	03	22.00	-0.7	MGR		87.99	312	P	05	12.50	-0.6
	N	15s	5.30um					BHD		68.01	299	ePc	03	22.50	-0.8	SDI		88.50	314	Pc	05	15.50	-0.1
	E	12s	0.80um					MSL		68.45	302	ePc	03	25.50	-0.5	OSS		88.53	320	ePd	05	16.30	0.5
NNT		21.78	252	eP	57	10.00	-6.0X					e	03	36.00	34km	AZI		88.63	315	P	05	16.50	0.5
MAT		21.91	40	eP	57	15.00	-2.1	MJMA		68.79	291	ePd	03	27.50	-0.8	ASS		88.65	316	Pd	05	16.50	0.2
		1.2s	20.31nm				4.4mb X	AFIF		71.07	289	ePd	03	43.70	1.4	SAX		88.73	321	ePc	05	17.50	0.6
	Z	20s	1.42um				4.4Msz	KEV		72.16	339	eP	03	47.00	-0.9	SFI		88.78	317	P	05	18.00	1.3
			eS		01	13.00		SOD		72.78	336	iP	03	51.40	-0.2	SAL		88.82	319	P	05	17.00	0.1
BTO		21.96	337	P	57	18.00	0.3	SUF		74.02	331	iP	03	58.40	-0.4	CRE		88.85	317	P	05	18.00	0.7
	N	15s	2.80um							0.6s	12.50nm			5.1mb		PGD		88.88	317	P	05	19.00	1.5
			pP		57	28.00	38km	NUR		75.28	329	iP	04	06.00	-0.1	MEM		88.92	325	P	05	17.80	0.5
			S		01	18.00				1.0s	34.00nm			5.3mb		MNS		88.95	315	P	05	17.50	-0.2
CN2		23.41	8	Pc	57	31.20	-0.6		Z	16s	2.00um			5.5MszX		LLS		89.13	320	ePc	05	19.10	0.4
	Z	19s	1.50um				4.5Msz					LR	40	02.00		MOI		89.23	319	P	05	18.50	-0.4
	N	14s	1.90um					DSI		75.82	299	eP	04	10.00	0.2	BDI		89.51	317	P	05	20.50	0.2
	E	14s	0.70um					WAJH		76.30	293	ePd	04	13.30	0.7	TMA		89.58	320	ePc	05	20.70	-0.1
			pP		57	39.00	28km	PRNI		76.47	298	eP	04	14.00	0.5	PII		89.72	317	P	05	21.00	-0.2
			eS		01	39.00		INK		76.61	22	eP	04	13.00	-0.5	BOB		89.89	318	Pc	05	22.50	0.4
SNG		23.76	239	eP	57	33.20	-2.2	HQL		76.72	296	eP	04	15.10	0.2	DOU		89.96	325	Pc	05	22.50	0.3
			eS		01	46.80		MBC		76.77	12	eP	04	13.50	-0.8					S	16	15.00	
GUMO		23.94	103	eP	57	37.10	0.0	MSZ		77.87	148	P	04	22.00	1.3	MMK		90.16	320	ePd	05	24.20	0.7
		1.3s	712.42nm				6.0mb	ALT		77.89	307	eP	04	21.20	-0.1	DIX		90.47	320	ePc	05	25.90	0.9
PJG		23.94	103	eP	57	37.20	0.1	VRI		78.28	315	ePc	04	23.50	0.3	PCP		90.56	319	P	05	25.96	0.8
GUA		24.00	103	eP	57	38.10	0.4	ELL		78.71	305	iP	04	25.30	-0.6	EMS		90.77	320	ePd	05	26.60	0.3
		1.2s	375.00nm				5.8mb	UPP		78.82	330	iP	04	25.10	-0.7	CKI		90.78	319	P	05	26.00	-0.1
MDJ		24.98	15	Pc	57	46.50	-0.5					i	04	36.00	35km	FIN		90.94	318	P	05	26.98	0.1
	Z	18s	2.00um				4.7Msz	CMP		79.60	314	ePc	04	30.00	-0.4	LSD		90.95	320	P	05	28.42	1.2
	N	16s	1.50um					HFS		80.52	331	eP	04	34.50	-0.5	ROB		91.10	319	P	05	27.80	0.1
			S		02	13.00				1.0s	28.00nm			5.2mb		LPG		91.17	320	iPd	05	28.90	0.6
IPM		25.06	233	ePd	57	48.10	0.1	KRA		81.19	320	iPd	04	39.10	0.4			1.1s	40.30nm				5.7mb
		0.9s	73.50nm				5.3mb					e	04	50.30	36km	LPL		91.17	320	eP	05	28.90	0.7
			e		58	27.10	199kmX	NB2		81.23	332	P	04	37.90	-0.8			1.1s	36.65nm				5.7mb
KGM		25.23	225	ePd	57	50.20	0.6			1.1s	21.70nm			5.1mb		PGF		91.27	317	iPd	05	29.10	0.6
MKS		25.73	183	iPc	57	45.00	-9.2X	VAY		82.63	311	iP	04	46.40	0.0			0.9s	91.75nm				6.2mb
GTA		26.03	321	iPd	57	56.80	-0.2	SRO		83.03	318	iP	04	49.70	1.4	IMI		91.29	318	P	05	29.14	0.6
		1.4s	100.00nm				5.2mb	KSP		83.04	322	iPd	04	48.70	0.4	ENR		91.42	319	P	05	28.11	-1.1
	Z	15s	3.20um				5.0MszX			1.1s	48.00nm			5.5mb		BNI		91.45	320	P	05	29.00	-0.4
	N	13s	2.00um									i	04	59.20	33km	RRL		91.45	320	P	05	29.96	0.5
PSI		27.87	233	ePd	58	12.70	-1.1	SKO		83.18	312	iPd	04	49.50	0.2	STV		91.47	319	P	05	30.98	1.6
		0.9s	40.50nm				5.1mb	ZST		83.63	319	eP	04	51.40	0.0	SBF		91.59	318	eP	05	29.90	-0.1
LSA		28.33	295	P	58	18.10	-0.3	OHR		83.95	312	iP	04	52.70	-0.5			0.9s	42.60nm				5.9mb
MTN		34.76	162	eP	59	12.30	-2.1			1.1s	76.00nm			5.8mb		LOR		91.91	323	eP	05	31.10	-0.2
		0.6s	45.00nm				5.6mb					i	05	05.40	42km			1.3s	28.90nm				5.5mb
KNA		36.97	167	eP	59	31.60	-1.5	SOP		84.17	319	iPd	04	55.00	0.9	LBF		92.00	322	eP	05	31.70	-0.1
PMG		39.47	137	iPd	59	54.00	-0.2	BRG		84.37	322	iPd	04	55.60	0.5			1.2s	32.75nm				5.6mb
		1.0s	220.00nm				5.9mb			1.5s	64.00nm			5.6mb		PNT		92.11	35	eP	05	34.00	1.8
HYB		40.08	273	ePd	59	58.80	-0.4					i	05	08.40	43km	FRF		92.24	318	eP	05	33.10	0.3

	1.0s	32.00nm		5.7mb		
SMF	92.27	322 eP	05	32.80	-0.1	
AVF	92.47	322 iPd	05	33.70	-0.1	
	1.1s	19.55nm		5.4mb		
LRG	92.47	318 eP	05	34.40	0.5	
	1.1s	53.70nm		5.9mb		
TCF	93.40	322 eP	05	38.40	0.2	
	1.1s	17.10nm		5.4mb		
RJF	94.36	322 eP	05	43.20	0.6	
	1.2s	29.75nm		5.6mb		
ALQ	108.76	40 e(PKP)	10	53.00	0.1	
LKO	119.44	294 PKP	11	12.50	-1.1	
	1.0s	27.00nm				
KIC	120.25	291 PKP	11	14.40	-0.7	
TIC	120.36	291 PKP	11	13.80	-1.5	
LIC	120.57	291 PKP	11	14.40	-1.3	
UPA	144.37	36 iPKPc	11	57.50	-2.7X	
	1.5s	194.44nm				
SLB	145.70	3 ePKP	12	02.45	0.0	
TRN	148.83	4 ePKP	12	10.82	3.4X	
ZOBO	170.41	65 PKP	12	34.00	2.3	
	1.5s	29.57nm				
	Z 24s	0.10um				
LPB	170.55	66 ePKP	12	29.00	-2.6X	
CCH	172.60	65 ePKP	12	34.00	1.7	
SIV	175.02	22 PKP	12	33.60	0.8	
	S.D. = 0.8	on 166 of 182 obs.				

MAY 23, 1990 15h 05m 10.95± 1.20s
32.468 S ± 7.9km 71.323 W ±10.1km
DEPTH = 20.6 ± 6.7 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.57	152 iP	05	23.30	1.0	
		iS	05	33.00		
IHA	0.62	206 eP	05	23.00	0.1	
		iS	05	34.90		
JACH	0.65	109 iPd	05	23.10	-0.5	
		iS	05	33.00		
PEL	0.86	142 iPc	05	27.50	0.4	
		iS	05	39.50		
LCCH	1.03	192 iPd	05	30.00	0.1	
		iS	05	43.60		
FCH	1.22	135 iP	05	32.00	-1.2	
		iS	05	49.00		
TACH	1.23	165 iP	05	32.50	-0.5	
		iS	05	50.00		
PCH	1.34	150 eP	05	35.00	0.4	
		iS	05	53.60		
LNV	1.49	183 iPd	05	36.10	-0.5	
		iS	05	56.70		
CHCH	1.57	159 eP	05	38.00	0.2	
RTBS	1.78	64 e(P)	05	42.00	1.1	
		S	06	05.00		
RTCB	2.36	66 ePd	05	49.50	0.2	
RTCV	2.44	76 e(P)	05	51.00	0.6	
RTLL	2.68	66 ePd	05	52.40	-1.4	
	S.D. = 0.9	on 14 of 14 obs.				

? MAY 23, 1990 16h 06m 03.85± 6.45s
58.956 N ±52.7km 5.966 E ± 9.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.8 (BER).

KMY	0.45	305 iPc	06	12.83	-0.2	
		iSg	06	17.95		
BLS1	0.62	45 iPc	06	16.45	0.0	
		iSg	06	26.71		
ODD1	1.02	19 iP	06	22.92	-0.2	
		iSg	06	38.50		
ASK	1.58	346 iP	06	32.49	0.6	
		iS	06	50.97		
HYA	2.22	3 eP	06	41.04	-0.2	
		eS	07	07.88		
	S.D. = 0.5	on 5 of 5 obs.				

MAY 23, 1990 16h 07m 44.16± 0.24s
4.920 N ± 4.2km 94.475 E ± 3.1km
DEPTH = 51.1km (5 depth phases)
5.0mb (33 obs.)
OFF W COAST OF NORTHERN SUMATERA(705)

BSI	1.00	55 eP	08	04.00	2.0	
TSI	4.32	109 eP	08	49.00	0.1	
SNG	6.51	70 eP	09	20.20	0.5	
	0.9s	156.30nm		5.6mb		
IPM	6.54	93 ePc	09	20.90	0.7	
	0.5s	59.90nm		5.4mb		
		e	10	32.00		
KLM	7.38	104 eP	09	31.20	-0.7	
NNT	9.22	34 eP	09	57.00	-0.4	
KGM	9.29	108 ePc	09	59.10	0.8	
LOE	14.30	29 eP	11	07.00	1.5	
CHG	14.48	17 ePc	11	08.00	0.1	
	1.0s	32.75nm		4.8mb		
KOD	17.66	288 eP	12	06.00	17.4X	
GBA	18.89	298 Pc	12	04.80	1.5	
	0.9s	10.20nm		4.0mb		
HYB	19.93	310 eP	12	14.50	-0.2	
QIZ	20.53	46 eP	12	22.00	1.1	
	N 14s	1.30um				
KMI	21.60	21 Pc	12	33.00	1.0	
	1.5s	100.00nm		5.0mb		
PKI	24.12	340 P	12	57.30	0.5	
	0.6s	26.00nm		4.9mb		
DMN	24.26	339 P	12	58.60	0.5	
	0.6s	38.00nm		5.1mb		
POO	24.26	306 eP	13	06.00	8.1X	
GUN	24.28	341 P	12	58.40	0.0	
GYA	24.38	27 iPd	13	00.00	0.9	
	1.0s	200.00nm		5.6mb		
		pP	13	16.00	69kmX	
GKN	24.79	339 P	13	02.80	-0.2	
LSA	24.85	353 P	13	03.50	-0.4	
GZH	25.65	43 P	13	11.20	0.2	
CD2	27.29	18 Pc	13	24.60	-1.4	
	0.9s	70.00nm		5.3mb		
WHN	31.63	34 eP	14	05.50	0.9	
XAN	31.93	23 P	14	05.60	-1.7	
LZH	32.19	14 Pc	14	07.50	-2.2	
	1.2s	48.00nm		5.2mb		
	Z 15s	0.50um		4.3MszX		
		pP	14	20.00	48km	
NANU	34.21	144 eP	14	27.10	0.0	
GTA	34.67	7 iPc	14	30.10	-1.0	
	0.6s	100.00nm		5.9mb		
NJ2	35.35	37 Pc	14	37.00	0.2	
	0.8s	100.00nm		5.8mb		
	Z 14s	0.40um		4.3MszX		
		pP	14	51.00	54km	
SSE	36.17	41 P	14	44.00	0.3	
	0.8s	20.00nm		5.1mb		
	Z 20s	0.50um		4.3Msz		
	E 14s	0.40um				
TIY	36.53	24 eP	14	46.00	-0.7	
	Z 16s	1.40um		4.8MszX		
	N 14s	0.47um				
TIA	37.46	31 Pc	14	54.10	-0.4	
BTO	38.17	19 eP	15	00.50	-0.1	
HHC	38.92	21 eP	15	07.20	0.3	
WMQ	39.20	352 Pc	15	09.50	0.4	
		pP	15	22.50	49km	
BJI	40.06	26 ePc	15	17.00	0.8	
	1.2s	110.00nm		5.6mb		
	Z 24s	0.32um		4.1MszX		
DL2	41.84	32 eP	15	31.00	0.3	
	1.3s	200.00nm		5.7mb		
		epP	15	45.00	53km	
MAIO	44.79	319 eP	15	54.00	-0.9	
SNY	44.99	31 Pc	15	55.40	-0.8	
WB5	46.32	123 eP	16	07.00	-0.1	
WRA	46.33	124 Pd	16	07.60	0.4	
	0.8s	16.40nm		5.0mb		
TSRJ	48.86	46 P	16	27.00	0.2	
MDJ	50.08	32 Pc	16	36.00	0.0	
		epP	16	49.80	51km	
IIDJ	50.23	47 P	16	36.80	-0.5	
MTMJ	50.66	46 P	16	40.50	-0.2	
MAT	50.93	46 eP	16	41.00	-1.6	
	0.7s	11.64nm		5.0mb		
QIS	51.03	121 eP	16	43.00	-0.6	
CHJJ	51.27	47 P	16	44.20	-1.0	
NIIJ	51.81	45 P	16	48.10	-1.2	
KAKJ	52.20	47 eP	16	50.20	-2.0	
BRS	64.75	123 e(P)	18	20.00	0.1	
COO	65.19	127 eP	18	29.50	6.8X	
BUL	69.29	246 iPd	18	39.90	-8.9X	
	1.0s	20.00nm		5.0mb		
BFT	69.43	240 iPd	18	49.00	-0.7	
	1.0s	30.00nm		5.2mb		
SLR	70.98	241 iPd	18	59.00	0.0	
	0.9s	30.25nm		5.2mb		
KSR	72.22	241 eP	18	54.00	-12.5X	
SUF	75.81	334 iP	19	26.10	-0.2	
	0.5s	6.10nm		4.8mb		
NUR	75.87	331 eP	19	26.00	-0.7	
KRA	76.33	320 eP	19	29.90	0.4	
		e	19	45.40		
SOD	77.06	338 iP	19	33.00	-0.2	
SRO	77.08	318 eP	19	32.80	-0.9	
		e	19	50.90		
KEV	77.72	341 iP	19	37.10	0.3	
ZST	77.93	318 eP	19	39.00	0.6	
		e	19	49.80		
		i	19	53.30		
		e	20	05.50		
KSP	78.74	321 ePc	19	43.20	0.4	
VBY	78.95	315 eP	20	00.70	16.6X	
UPP	79.17	330 iP	19	44.40	-0.5	
LJU	79.49	316 eP	19	47.00	0.0	
PRU	79.78	320 Pc	19	49.00	0.6	
		e	20	04.70		
VOY	79.94	316 e(P)	19	48.80	-0.7	
BRG	80.22	321 eP	19	51.60	0.8	
	1.3s	14.00nm		4.7mb		
KHC	80.34	319 eP	19	52.70	1.2	
ARV	80.49	313 P	19	52.00	-0.4	
MNS	80.64	312 P	20	06.00	12.7X	
FVI	80.74	316 P	19	54.00	0.4	
CLL	80.85	321 eP	19	54.00	-0.1	
HFS	81.16	330 eP	19	55.20	-0.3	
	0.7s	11.70nm		4.9mb		
SFI	81.30	314 P	19	57.00	0.5	
PGD	81.39	313 P	20	01.00	3.7X	
SQTA	81.84	317 iPd	19	58.80	-0.7	
	0.9s	13.80nm		5.0mb		
		ic	19	59.20		
GRF	81.91	319 iPc	20	00.60	0.9	
	1.3s	12.00nm		4.8mb		
		e	20	16.60		
NB2	82.45	331 P	20	01.80	-0.5	
	0.9s	7.60nm		4.7mb		
CKI	83.87	314 P	20	06.00	-3.9X	
LPG	84.93	315 eP	20	16.00	0.5	
	0.6s	2.70nm		4.5mb		
LPL	84.94	315 eP	20	16.10	0.6	
	0.7s	5.50nm		4.8mb		
HAU	85.12	318 eP	20	16.40	0.3	
	0.7s	4.40nm		4.7mb		
LOR	86.84	317 eP	20	25.00	0.4	
	0.4s	2.30nm		4.8mb		
SMF	86.90	316 eP	20	24.90	0.0	
	0.6s	3.60nm		4.8mb		
AVF	87.22	317 eP	20	26.60	0.2	
EKA	90.33	326 Pc	20	41.50	0.6	
	0.7s	4.60nm		4.9mb		
MBC	96.62	8 eP	21	09.50	0.0	
	0.6s	4.00nm		5.1mb		
SIV	153.59	244 (PKP)	27	43.00	11.3X	
ZOBO	159.54	235 ePKP	27	43.00	3.2X	
	S.D. = 0.8	on 81 of 92 obs.				

MAY 23, 1990 16h 27m 42.62± 0.50s
30.200 S ± 5.6km 179.101 E ± 6.2km
DEPTH = 519.0 ± 6.6 km
4.6mb (5 obs.)
KERMADEC ISLANDS REGION (177)

HBZ	7.41	185 P	29	35.00	0.6	
		e	30	22.40		
PUZ	7.88	185 P	29	39.60	0.3	
		S	31	11.20		
WLZ	8.16	200 P	29	45.90	3.8X	
TAZ	8.30	194 P	29	46.60	3.1X	
UTU	8.31	196 P	29	47.40	3.7X	
NOZ	8.44	186 P	29	45.80	0.8	
		e	30	29.90		
		S	31	24.50		
TUTZ	8.87	196 P	29	51.70	2.2	
MOH	9.05	190 P	29	50.80	-0.6	
CNZ	9.44	197 P	29	56.90	1.4	
TTH	9.50	191 P	29	55.70	-0.3	
		e	30	39.50		
PGZ	10.65	192 P	30	08.00	0.2	
KIW	11.17	197 P	30	12.40	-0.9	
MTW	11.32	194 P	30	14.00	-0.8	
CAW	11.37	196 P	30	14.90	-0.5	
		e	30	57.80		
BLW	11.53	194 P	30	16.40	-0.6	
WDW	11.54	196 P	30	16.10	-1.0	

23d 16h

		e	30	57.10		
MRW	11.57	197 P	30	16.60	-0.8	
		e	30	58.10		
		S	32	20.60		
WEL	11.61	196 P	30	16.50	-1.3	
		S	32	22.00		
MOW	11.62	195 P	30	17.30	-0.7	
TCW	11.67	198 P	30	17.20	-1.2	
		e	30	59.70		
THZ	12.58	202 P	30	28.40	0.4	
		S	32	41.30		
KHZ	12.99	199 P	30	31.60	-0.4	
		e	31	14.00		
LTZ	13.70	202 P	30	38.90	-0.5	
		e	31	08.50		
DZM	13.95	303 iPc	30	43.10	1.1	
MQZ	14.43	199 P	30	46.60	0.0	
MHZ	16.73	205 P	31	09.80	0.2	
MMCZ	16.74	205 P	31	10.00	0.3	
TLC	16.92	205 P	31	12.30	0.8	
MSZ	16.93	208 P	31	11.50	0.1	
BRS	23.22	270 e(P)	32	11.50	0.9	
COO	23.46	262 eP	32	14.40	1.7	
RMQ	26.92	270 eP	32	43.70	0.2	
CMS	28.54	259 eP	32	58.00	0.5	
	1.0s	31.00nm			4.8mb	
TOO	28.74	246 eP	33	00.70	1.4	
WRA	41.58	274 Pc	34	44.50	-1.6	
	0.3s	3.50nm			4.4mb	
WB5	41.58	274 iPc	34	45.50	-0.6	
		i	35	01.00		
		eScP	39	30.70		
		eS	40	19.50		
NANU	56.83	261 eP	36	38.00	-1.4	
SPA	59.97	180 iPc	37	01.10	0.9	
	0.7s	25.00nm			4.7mb	
		i	37	17.30		
MAW	71.60	201 iP	38	12.70	0.7	
MAT	76.68	327 (P)	38	37.00	-4.0X	
	1.1s	11.39nm			4.2mb	
PRS	86.60	44 ePd	39	31.90	0.5	
GCC	86.69	43 eP	39	31.50	-0.3	
PCC	86.78	43 ePd	39	31.40	-0.8	
SAO	86.84	44 e(P)	39	32.10	-0.4	
PRI	86.90	45 eP	39	32.40	-0.6	
ABL	86.96	46 P	39	43.60	10.2X	
LLA	87.05	44 e(P)	39	32.60	-0.9	
BRK	87.10	43 e(P)	39	34.00	0.3	
MHC	87.11	43 eP	39	34.40	0.4	
BKS	87.12	43 eP	39	33.30	-0.5	
ARN	87.18	43 P	39	34.60	0.4	
PLM	87.51	49 eP	39	36.00	0.0	
SBB	87.73	47 eP	39	37.00	0.1	
ISA	87.95	46 eP	39	38.00	0.1	
FRI	88.04	45 ePd	39	38.10	0.0	
FHC	88.11	40 e(P)	39	39.20	0.8	
CMB	88.31	43 ePd	39	39.20	-0.3	
TPC	88.51	49 eP	39	41.00	0.5	
CLC	88.59	47 eP	39	41.00	0.2	
ORV	88.67	42 eP	39	41.00	0.0	
GLA	88.67	50 eP	39	43.00	1.8	
WDC	88.76	40 ePd	39	41.80	0.4	
GSC	88.77	47 eP	39	42.00	0.3	
MIN	89.13	41 eP	39	43.00	-0.3	
TNP	90.26	45 P	39	48.50	-0.1	
	0.8s	14.22nm			5.0mb	
KVN	90.34	44 P	39	49.40	0.5	
YKA	106.36	26 ePKP	45	05.70	-2.7	
	0.6s	0.50nm				
FRB	126.49	31 ePKP	45	45.00	-1.8	
KEV	137.35	346 ePKP	46	01.00	-6.3X	
SOD	139.34	344 ePKP	46	05.00	-6.0X	
SUF	143.08	340 iPKP	46	13.40	-4.3X	
	0.4s	14.20nm				
NUR	145.23	338 ePKP	46	20.00	-1.3	
	0.7s	33.40nm				
UPP	147.82	342 iPKP	46	26.90	1.4	
		i	46	30.70		
NB2	148.12	349 PKP	46	27.70	1.6	
	0.8s	19.40nm				
HFS	148.50	346 ePKP	46	28.70	2.1X	
	0.8s	20.40nm				
PRNI	149.08	279 ePKP	46	33.00	4.5X	
MBH	149.08	278 ePKP	46	33.00	4.6X	
EKA	154.83	3 PKP	47	02.00	26.2X	
	0.9s	7.90nm				
LIC	155.84	170 PKP	46	38.70	0.2	
KIC	156.01	171 PKP	46	38.90	0.2	
TIC	156.25	170 PKP	46	39.00	0.0	

S.D. = 0.9 on 69 of 81 obs.

MAY 23, 1990 16h 55m 52.57± 0.49s
14.649 N ± 7.2km 147.225 E ± 7.7km
DEPTH = 42.6km (5 depth phases)
4.4mb (4 obs.)
MARIANA ISLANDS REGION (215)

GUA	2.50	244 eP	56	31.40	-0.3	
		eS	57	04.60		
PJG	2.52	246 eP	56	31.30	-0.7	
GUMO	2.52	246 eP	56	31.20	-0.8	
MAT	23.24	341 eP	00	54.00	-3.0	
OIS	35.78	192 eP	02	49.00	-0.8	
WRA	36.64	201 Pc	02	56.80	-0.2	
	0.9s	5.90nm			4.5mb	
BJI	37.09	319 eP	03	00.00	-0.6	
	1.4s	17.00nm			4.8mb	
TIY	38.42	313 eP	03	12.20	0.2	
XAN	39.58	306 P	03	21.60	0.0	
GYA	39.60	294 P	03	23.60	1.6	
		pP	03	35.80	45km	
HHC	40.51	317 eP	03	29.10	-0.2	
BTO	41.42	316 eP	03	37.40	0.7	
CD2	42.93	300 P	03	49.00	-0.1	
KMI	42.94	291 eP	03	51.00	1.5	
LZH	44.18	307 P	04	00.00	0.6	
		pP	04	12.00	43km	
CHG	46.32	282 eP	04	17.00	0.6	
CHTO	46.32	282 eP	04	17.00	0.6	
	0.8s	3.84nm			4.4mb	
GTA	48.21	310 Pd	04	31.40	0.2	
LSA	53.57	296 P	05	12.60	0.3	
WMO	58.08	313 Pd	05	44.20	0.1	
		pP	05	57.00	45km	
GUN	58.14	294 P	05	45.00	-0.1	
PKI	58.57	294 P	05	47.70	-0.4	
DMN	58.83	294 P	05	49.70	-0.2	
GKN	59.24	294 P	05	52.10	-0.5	
HYB	65.74	283 eP	06	35.50	-0.2	
INK	72.52	23 eP	07	16.00	-0.6	
		pP	07	28.00	40km	
YKA	80.87	28 eP	08	02.50	-0.8	
	0.8s	1.10nm			3.9mb	
SES	86.15	39 eP	08	31.00	0.4	
		pP	08	43.00	39km	
KIC	145.23	305 PKP	15	28.74	0.5	
TIC	145.28	306 PKP	15	28.84	0.5	
LIC	145.54	305 PKP	15	29.68	0.9	
ZOBO	145.92	97 PKP	15	31.00	0.9	
		LR	23	28.00		
LPB	145.95	98 ePKP	15	42.00	12.1X	
SIV	152.68	97 PKP	15	47.20	7.4X	

S.D. = 0.9 on 32 of 34 obs.

MAY 23, 1990 17h 26m 09.99± 0.78s
39.202 N ± 7.6km 29.444 E ± 9.1km
DEPTH = 25.8 ± 8.3 km
TURKEY (366)

ALT	0.54	106 iPg	26	20.50	-0.4	
		iSg	26	28.70		
KHL	0.88	176 iPg	26	26.90	0.3	
		eSg	26	39.70		
GPA	1.27	31 ePn	26	32.00	-0.2	
YLV	1.36	358 iPn	26	33.50	0.0	
GBZT	1.59	0 eP	26	37.20	0.5	
HRT	1.63	6 ePn	26	38.00	0.7	
EDC	1.67	314 ePn	26	37.70	-0.2	
ISK	1.88	351 ePn	26	42.00	1.0	
KGT	2.07	308 ePn	26	44.00	0.3	
CTT	2.09	339 ePn	26	42.00	-2.0	

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

---

* MAY 23, 1990 17h 47m 30.06± 0.96s
33.377 N ± 8.7km 138.264 E ±10.6km
DEPTH = 295.1 ± 10.3 km
4.4mb (5 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	3.16	359 iPd	48	28.10	0.6	
		iS	49	10.70		
MDJ	13.08	332 eP	50	26.00	-0.8	
SNY	14.36	310 eP	50	41.90	-0.4	
CN2	14.43	320 P	50	42.40	-0.7	
NJ2	16.39	271 Pc	51	05.20	0.2	
WHN	20.48	269 iPc	51	48.50	2.0	
TIY	21.43	289 eP	51	57.10	1.3	
XAN	24.39	280 P	52	23.20	-0.4	
GYA	28.17	264 P	52	57.60	-0.3	
CD2	29.24	275 P	53	06.40	-0.8	
GTA	31.36	292 Pd	53	25.00	-0.7	
GUN	45.01	278 P	55	19.10	0.2	
	0.6s	12.00nm			4.4mb	
PKI	45.52	277 P	55	22.70	-0.2	
DMN	45.76	278 P	55	24.60	-0.1	
GKN	46.01	278 P	55	26.50	0.0	
	0.7s	10.00nm			4.3mb	
MTN	46.46	190 iPd	55	29.40	-0.4	
WRA	53.15	185 Pd	56	20.10	-0.1	
	0.7s	14.90nm			4.5mb	
HYB	55.54	269 eP	56	37.50	-0.1	
MBL	57.01	201 eP	56	47.00	-0.6	
NANU	59.70	204 eP	57	06.30	0.2	
KTK1	67.46	339 iP	57	44.04	-11.8X	
		eSg	58	10.68		
SUF	70.07	333 iP	58	12.00	0.2	
	0.5s	4.10nm			4.4mb	
HFS	76.32	335 eP	58	47.70	-0.1	
	0.4s	1.70nm			4.1mb	
CLL	82.93	329 iP	59	24.10	1.1	

S.D. = 0.8 on 23 of 24 obs.

% MAY 23, 1990 19h 09m 35.39± 2.77s
58.544 N ±29.0km 10.442 E ±10.6km
DEPTH = 10.0km (geophysicist)
SWEDEN (536)
MD 2.5 (BER).

BLS2	1.97	294 eP	10	09.44	0.2	
		eSg	10	37.79		
BLS1	2.06	296 iP	10	11.03	0.5	
		eSg	10	40.54		
NRA0	2.27	14 Pn	10	13.10	-0.4	
		S	10	41.00		
HFS	2.31	45 eP	10	14.20	0.2	
	0.2s	7.00nm				
ODD1	2.39	307 iP	10	14.59	-0.7	
		iSg	10	54.35		
KMY	2.78	286 iP	10	20.31	-0.4	
		eSg	11	01.17		
HYA	3.39	323 iP	10	29.94	0.5	
		eSg	11	23.04		

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

MAY 23, 1990 19h 35m 14.90± 0.12s
7.343 S ± 2.6km 128.803 E ± 3.5km
DEPTH = 129.0km (13 depth phases)
5.5mb (40 obs.)
BANDA SEA (280)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 19:35:20.1 0.7
Lat 7.27S 0.06 Lon 128.70E 0.07
Dep 147.1 1.6 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 1.49 0.06 Mtt=-0.46 0.08
Mff=-1.03 0.10 Mrt=-0.17 0.05
Mrf= 0.42 0.08 Mtf= 0.89 0.08
Principal Axes:

T	Val= 1.56	Plg=81	Azm=265
N	0.19	4	145
P	-1.74	8	54

Best Double Couple:Mo=1.6*10**17
NP1:Strike=139 Dip=37 Slip= 83
NP2: 328 53 96

MTN	5.93	157 iPd	36	40.20	-1.5	
KNA	8.36	180 iPd	37	11.60	-3.0	
WB5	13.58	157 iPd	38	18.10	-5.4X	
WRA	13.63	157 Pc	38	19.90	-4.2X	
	0.7s	180.70nm			5.6mb	
DAV	14.69	347 eP	38	41.00	3.4X	
MNDI	14.80	86 eP	38	39.40	0.2	
TSM	15.71	317 ePc	38	56.30	6.0X	
MBL	16.24	211 iPd	38	55.00	-2.0	
	0.2s	48.00nm			5.4mb	
		eS	41	44.00		
OIS	16.79	143 eP	39	01.00	-2.8	
		e	41	54.00		

LAT	18.07	89	eP	39	22.00	2.7		1.0s	202.50nm		5.8mb		eS	48	24.00		GBA	55.08	292	Pd	44	33.80	-2.2
PMG	18.27	98	iPd	39	22.70	1.3				eS	48	24.00						0.8s	27.40nm			5.2mb	
	1.1s	493.67nm			5.7mb		CHTO	39.27	312	iPc	42	33.80	1.0		GKN	55.26	311	Pc	44	37.20	-0.1
KKM	18.29	316	ePc	39	22.70	0.9		1.0s	87.50nm		5.5mb		HYB	55.40	297	eP	44	36.50	-1.9
	1.2s	475.60nm			5.7mb					i	43	03.50	133km			1.0s	100.00nm			5.7mb	
NANU	19.81	219	iPd	39	37.80	0.2	GYA	39.88	328	iPc	42	38.60	0.8		POO	59.98	296	eP	45	08.50	-1.9
			eS	43	15.00			3.0s	800.00nm		6.0mb		NDI	61.26	308	iPc	45	16.40	-2.5
CTA	21.13	129	iPc	39	51.60	0.6				pP	43	09.00	136km			0.7s	47.95nm			5.6mb	
	1.7s	261.54nm			5.3mb					PcP	44	42.00					eS	53	29.00		
			i	39	59.00	27kmX				S	48	28.00			WMQ	63.04	328	iPc	45	30.50	0.0
			i	40	08.00					ScS	52	30.00				Z 16s	0.40um			4.7MszX	
			i	40	25.00		WHN	40.14	340	iPc	42	41.00	1.3				pP	46	01.40	127km	
			iS	43	37.00			1.0s	100.00nm		5.5mb						sP	46	14.00		
			e	43	59.00					PcP	44	42.60					eS	53	48.00		
			eLR	44	25.00		NJ2	40.31	347	iPc	42	41.60	0.6		KSH	67.44	318	P	46	00.50	1.6
MEKA	21.51	206	eP	39	55.10	0.4		1.0s	100.00nm		5.5mb		SBA	73.16	172	e(P)	46	33.80	1.2
	0.4s	29.00nm			5.0mb					pP	43	11.80	135km		MAW	74.20	201	iPc	46	40.10	1.3
			eS	43	51.00					PcP	44	43.40				1.0s	87.00nm			5.5mb	
OCP	23.14	341	eP	40	14.00	3.4X				ScP	48	19.50			MAIO	77.98	309	iPc	47	01.40	0.7
FORR	23.40	182	iPd	40	13.80	0.8				S	48	37.00				1.0s	38.50nm			5.1mb	
QLP	24.12	144	iPd	40	20.40	0.4	KMI	41.05	323	iPc	42	49.50	2.0				eS	56	48.00		
			e	40	47.60	132km		1.5s	0.70nm		3.2mb	X		SPA	82.71	180	iPc	47	25.20	-0.1
			eS	44	54.80		KMI	41.05	323	iP+	42	50.00	2.5			1.0s	39.00nm			5.2mb	
COOL	24.49	196	eP	40	23.70	0.1		2.0s	1.10nm		3.2mb	X					i	47	56.40	122km	
			eS	44	58.00					pP	43	01.50	41kmX		TEH	84.15	307	eP	47	48.00	14.8X
BAG	24.96	341	eP	40	28.00	-0.3				sP	43	33.00			RYD	86.00	295	iPc	47	42.50	0.0
BAL	25.77	205	eP	40	35.20	-0.2				i	45	14.00			TAB	88.59	308	eP	47	55.00	0.2
			e	41	01.00	122km				S	48	48.00			TTA	89.82	26	P	47	59.80	-0.1
			eS	45	24.00		TSRJ	43.18	9	eP	43	04.30	-0.2			1.0s	31.25nm			5.3mb	
GUA	26.20	38	eP	40	38.50	-0.9	IIDJ	43.45	11	eP	43	06.00	-0.7		IMA	91.63	23	P	48	07.60	-0.7
	0.8s	89.55nm			5.4mb		CHJJ	44.21	12	eP	43	11.10	-1.7			1.2s	23.67nm			5.3mb	
GUMO	26.21	38	eP	40	38.80	-0.7	MTMJ	44.50	10	eP	43	14.40	-0.9		NAI	91.82	268	iPd	48	13.00	2.6X
	0.8s	93.70nm			5.4mb		MAT	44.54	11	iPc	43	13.90	-1.5			1.0s	15.00nm			5.2mb	
PJG	26.21	38	eP	40	38.80	-0.7		1.0s	113.00nm		5.5mb			PMR	92.64	28	P	48	12.30	-0.5
			pP	41	09.90	150kmX				eS	49	42.00				1.1s	48.44nm			5.7mb	
KLB	26.24	202	eP	40	39.50	-0.2	KAKJ	44.61	13	eP	43	14.40	-1.6		FBA	93.80	25	P	48	17.20	-0.9
	0.3s	45.00nm			5.5mb		TIA	44.69	347	Pc	43	15.90	-0.7		PRNI	96.93	300	eP	48	34.00	0.8
			e	41	09.00	141kmX				PcP	44	57.00			BUL	96.97	249	iPd	48	23.90	-9.8X
			eS	45	36.00		CD2	44.97	329	eP	43	18.70	-0.3			1.0s	15.00nm			5.4mb	
RMQ	26.88	137	iPd	40	45.70	0.1		1.0s	200.00nm		5.8mb			MBH	96.99	299	eP	48	34.00	0.6
			e	41	17.40	152kmX	XAN	45.26	337	iPc	43	21.60	0.4		INK	99.62	22	eP	48	44.00	-0.5
			eS	45	42.70		NIIJ	45.36	11	eP	43	21.50	-0.4		MBC	102.22	13	ePdiff	48	55.50	-0.4
KGM	27.07	289	ePc	40	48.30	0.9	DL2	46.49	352	eP	43	30.50	-0.3		AIA	106.95	174	ePKP	53	22.30	-4.1X
MUN	27.18	204	eP	40	48.00	-0.2		1.0s	200.00nm		5.8mb			KRA	107.69	320	ePKP	53	39.80	11.6X
	0.8s	160.00nm			5.7mb					epP	43	59.00	124km		YKA	108.58	26	ePdiff	49	23.80	-0.6
			e	41	19.00	148kmX				eS	50	05.00				0.8s	0.80nm			5.0mb	
			eS	45	58.00		TIY	47.36	342	iPc	43	37.40	-0.4		YKA	108.58	26	ePKP	53	28.30	-1.2
RKG	28.74	201	eP	41	07.50	5.2X		0.8s	100.00nm		5.6mb					0.8s	2.60nm				
ADE	28.96	163	iPc	41	04.60	0.3		N 11s	0.20um					HFS	108.70	331	ePKP	53	28.50	-1.3	
	1.0s	70.00nm			5.3mb					pP	44	08.00	134km			0.6s	3.70nm				
IPM	30.14	292	ePc	41	15.30	0.4				S	50	20.00			NB2	109.54	333	PKP	53	31.00	-0.5
	0.9s	93.00nm			5.5mb					sS	51	18.00				0.9s	5.00nm				
BRS	30.23	134	iPc	41	15.00	-0.6	OFUJ	47.70	14	eP	43	40.80	0.5		KSP	109.81	321	ePKP	53	32.50	0.2
			e	41	39.70	112kmX	BJI	48.57	347	iPc	43	47.00	0.1		ZST	109.86	319	ePKP	53	32.30	-0.1
			e(S)	48	38.00			1.0s	130.00nm		5.7mb						e	54	10.30		
PSI	31.44	287	ePc	41	25.50	-0.8				eS	50	34.00			PRU	111.10	321	ePKP	53	27.00	-7.7X
	1.0s	182.90nm			5.8mb		LZH	49.16	333	Pc	43	51.50	-0.3				e	53	35.00		
SNG	31.60	297	eP	41	26.00	-1.6		1.4s	590.00nm		6.2mb			BRG	111.25	322	ePKP	53	35.00	0.0
			e	44	17.50			Z 24s	0.50um		4.4MszX				1.0s	10.00nm				
COO	31.66	140	eP	41	27.90	-0.2				S	50	44.00					e	54	13.70		
			e	42	04.00	172kmX	SNY	49.16	355	iPc	43	50.60	-0.9		VBY	111.65	316	e(PKP)	53	36.80	0.9
			i	42	40.30			1.2s	100.00nm		5.5mb			CLL	111.70	323	ePKP	53	35.00	-0.8
TSI	32.04	289	eP	41	32.00	0.5		E 20s	0.70um							1.2s	12.00nm				
QIZ	32.19	325	Pc	41	33.00	0.3	MSZ	50.35	144	P	44	01.20	0.7				e	54	21.00		
	N 12s	0.60um					HHC	50.51	343	Pc	44	02.00	0.1		TDS	111.92	310	PKP	53	37.00	0.4
BFD	32.22	159	iPc	41	33.00	0.2	BTO	50.75	342	P	44	03.60	-0.1		KHC	111.93	320	PKP	53	36.70	0.3
	0.9s	71.00nm			5.5mb		MRRJ	50.78	12	eP	44	03.60	-0.1			1.0s	6.00nm				
			epP	42	01.50	131km	CN2	50.99	357	iPc	44	04.40	-1.0				e	54	25.50		
			eS	48	06.00			4.0s	300.00nm		5.5mb	X		LJU	112.03	317	e(PKP)	53	36.50	-0.1
BWA	32.45	149	iPc	41	36.10	1.1				pP	44	33.40	124km		WET	112.36	320	iPKPc	53	47.40	10.2X
			e	42	09.90	159kmX				sP	44	46.00			SOI	112.38	308	PKP	53	38.00	0.5
CAN	33.45	149	iPc	41	43.90	0.3				PcP	45	19.00			VOY	112.47	317	ePKP	53	37.20	-0.4
			i	42	12.80	132km				eS	51	10.00			KVN	112.50	51	Pdiff	49	51.10	8.4X
OZH	33.60	343	P	41	44.00	-0.8				ScS	53	44.00			SGO	112.55	311	PKP	53	38.00	0.3
TOO	33.69	156	iPc	41	46.70	1.1	HOOJ	51.22	14	eP	44	08.00	0.9		MOX	112.73	322	ePKP	53	38.00	0.2
			e	48	15.00		LSA	51.63	317	Pc	44	11.30	0.2		BHG	112.73	319	iPKPd	53	37.90	0.0
GZH	33.81	334	Pd	41	47.40	0.7				S	51	14.00				1.1s	21.00nm				
NNT	35.03	304	eP	41	47.00	-10.2X	MDJ	51.72	1	Pc	44	10.70	-0.2		FVI	113.08	318	PKP	53	38.00	-0.5
BSI	35.78	290	eP	41	51.50	-12.1X	KUSJ	52.24	15	eP	44	14.50	-0.3		SDI	113.45	312	PKP	53	39.00	-0.5
LOE	36.34	313	iPc	42	08.50	0.3	ASAJ	52.73	13	eP	44	18.10	-0.3		FUR	113.65	320	ePKP	53	39.90	0.2
NST	36.46	309	iPc	42	10.60	1.4	GTA	53.71	332	iPc	44	26.00	0.2			0.7s	28.00nm				
SSE	38.91	350	Pd	42	29.70	0.2		1.0s	300.00nm		6.2mb			SQTA	113.96	319	iPKPc	53	40.10	-0.4	
	1.0s	90.00nm			5.5mb		HBZ	53.93	132	P	44	27.80	0.5			1.0s	17.90nm				
			pP	42	58.60	129km	KOD	54.02	288	eP	44	28.00	-0.7				e	54	37.00		
			eS	48	13.00		GUN	54.29	312	Pc	44	30.40	-0.2		CTI	113.98	317	PKP	53	40.00	-0.6
DZM	39.10	116	iPc	42	31.10	-0.4	PKI	54.45	311	Pc	44	31.20	-0.5		SFI	114.37	315	PKP	53	42.00	0.8
CHG	39.27	312	iPc	42	34.00	1.2	DMN	54.70	311	Pc	44	33.20	-0.2		PGD	114.47	315	PKP	53	42.00	0.3

23d 19h

SES	114.61	37	ePKP	53	41.00	-0.5	CCH	151.33	149	PKP	54	56.50	6.8X	COOL	44.60	245	eP	07	34.10	-1.2
OSS	114.81	318	ePKPc	53	42.30	0.1				i	55	29.50		MBL	45.97	259	iPd	07	46.00	-0.2
SAX	115.17	319	ePKPc	53	43.00	0.0	UPA	151.91	85	(PKP)	54	50.00	-0.2		0.5s	52.00nm			5.4mb	
LLS	115.51	319	ePKPc	53	43.40	-0.2	BAO	156.95	188	ePKP	54	57.30	0.1	MEKA	46.80	251	eP	07	52.00	-0.7
ZLA	115.71	320	ePKPc	53	43.80	0.1		S.D. = 0.9		on 182 of 202 obs.					0.5s	155.00nm			5.8mb	
BOB	115.82	316	PKP	53	44.00	0.0											eS	08	32.00	
TMA	115.82	318	ePKPc	53	43.60	-0.5		MAY 23, 1990 20h 59m 37.42± 0.13s						KLB	47.53	244	iPd	07	57.00	-1.4
MEM	116.12	323	iPKPd	53	44.80	0.5		18.890 S ± 3.4km 168.858 E ± 3.6km							0.6s	173.00nm			5.9mb	
MMK	116.44	318	ePKPc	53	45.70	0.3		DEPTH = 161.8km (24 depth phases)									e	08	36.00	175kmX
8SF	116.62	320	ePKP	53	44.80	-0.7		5.6mb (39 obs.)						RKG	48.32	241	iPd	08	04.20	-0.2
	0.8s	24.20nm						VANUATU ISLANDS					(186)		0.5s	134.00nm			5.9mb	
CKI	116.71	316	PKP	53	45.00	-0.7		CENTROID, MOMENT TENSOR					(HRV)				e	08	43.00	174kmX
PGF	116.73	314	ePKP	53	45.80	-0.1		Data Used: GDSN						BAL	48.40	246	eP	08	03.50	-1.5
DIX	116.80	318	ePKPc	53	46.30	0.2		L.P.B.: 8S, 17C						MUN	48.87	244	iPd	08	07.30	-1.3
HAU	116.84	321	ePKP	53	45.50	-0.3		Centroid Locotion:							1.0s	180.00nm			5.7mb	
	1.0s	20.00nm						Origin Time 20:59:36.9 0.9									e	08	47.00	178kmX
EMS	117.12	318	ePKPc	53	46.60	0.0		Lat 18.84S FIX;Lon 168.85E FIX						NANU	49.80	256	iPd	08	15.50	-0.3
DOU	117.15	323	PKP	53	46.30	0.0		Dep 150.1 2.7 Half-duration 1.8							0.6s	68.00nm			5.5mb	
SNF	117.17	324	iPKP	53	46.63	0.4		Moment Tensor; Scale 10**16 Nm						MKS	50.00	279	iPc	08	17.60	0.2
AKU	117.36	345	ePKP	53	48.30	2.1		Mrr=-4.38 0.81 Mtt=+0.77 1.08						KKM	57.47	290	eP	09	11.30	-0.8
	1.0s	20.00nm						Mff= 5.15 1.20 Mrt= 5.07 0.77									e	09	51.00	172km
DOI	117.40	317	PKP	53	45.00	-2.1		Mrf=-8.37 0.83 Mtf= 1.79 1.17						SBA	59.01	181	iPd	09	22.00	0.2
LPG	117.42	318	ePKP	53	47.40	0.0		Principal Axes:						CHJJ	61.52	333	eP	09	38.50	-0.8
	0.7s	14.90nm						T Val= 10.12 Plg=32 Azm= 83						IIDJ	61.52	331	eP	09	39.00	-0.4
LPL	117.43	318	ePKP	53	47.40	0.1		N 1.67 19 341						MAT	62.28	332	iPd	09	43.30	-1.1
SBF	117.46	316	ePKP	53	46.80	-0.4		P -11.79 52 225							1.0s	29.00nm			5.1mb	
	0.8s	17.45nm						Best Double Couple:Mo=1.1*10**17						MTMJ	62.49	332	eP	09	45.30	-0.6
BNI	117.61	317	PKPc	53	47.50	0.0		NP1:Strike=218 Dip=22 Slip= -31						NIIJ	62.52	333	eP	09	45.50	-0.4
FFC	117.85	31	ePKPc	53	46.90	-0.6		NP2: 337 79 -109						QZH	65.51	310	P	10	05.50	-0.1
	1.2s	23.00nm												SSE	67.57	317	P	10	17.50	-1.0
LOR	118.68	320	ePKP	53	49.10	-0.2	PVC	1.26	336	iPd	00	07.00	1.2		1.2s	30.00nm			5.0mb	
	0.8s	12.10nm								iS	00	29.00		KGM	67.63	280	ePd	10	19.10	-0.1
LBF	118.71	320	ePKP	53	49.30	-0.1	DZM	3.89	215	iPc	00	37.00	-0.3	GZH	68.40	305	Pd	10	24.20	0.4
	0.8s	13.45nm								iS	01	21.50		QIZ	69.09	300	P	10	28.00	-0.2
EKA	118.89	331	PKP	53	50.00	0.6	HNR	12.76	316	eP	02	37.00	2.7	NJ2	69.71	316	Pc	10	31.80	0.2
	0.9s	9.80nm								eS	04	59.00					pP	11	12.40	169km
SSF	118.98	320	iPKPc	53	49.90	0.0	BRS	17.03	237	iP	03	29.00	1.5	IPM	70.70	282	ePd	10	38.10	0.1
	0.8s	25.50nm								e	04	05.00			0.8s	63.00nm			5.5mb	
AVF	119.18	320	ePKP	53	49.70	-0.5				e	04	38.00					e	11	14.60	150kmX
	0.7s	29.75nm					COO	19.28	230	iPd	03	53.30	1.2	SPA	71.23	180	iPd	10	40.00	-0.5
BGF	119.59	320	iPKPc	53	51.40	0.3	RMQ	20.02	244	iPd	04	00.70	1.1		1.0s	86.50nm			5.5mb	
	0.8s	43.65nm								ipP	04	13.10	56kmX				i	11	11.60	127kmX
TCF	120.10	320	iPKPc	53	52.30	0.2	HBZ	20.39	158	P	04	04.20	1.0	WHN	71.85	312	Pd	10	44.50	0.0
	0.9s	16.40nm					PUZ	20.80	159	P	04	06.90	-0.4		1.0s	400.00nm			6.1mb	
LSF	120.55	320	ePKP	53	52.70	-0.2	CTA	21.34	263	iPd	04	13.20	0.4	PSI	71.97	279	ePc	10	44.00	-1.6
	0.7s	8.25nm						0.8s	185.07nm				5.6mb	SNG	72.04	284	eP	10	45.20	-0.8
LDF	120.58	323	ePKP	53	52.80	0.0				i	04	46.70		DL2	72.52	323	iPd	10	48.50	0.2
	1.0s	14.00nm								iS	08	03.00			1.0s	40.00nm			5.1mb	
CAF	120.72	319	ePKP	53	53.60	0.3	RIV	21.70	223	iPc	04	18.30	2.1				epP	11	29.00	167km
	1.0s	44.00nm						0.7s	2328.77nm				6.7mb X				esP	11	45.00	
LPF	121.38	323	iPKPc	53	54.80	0.4	PGZ	22.57	165	P	04	25.00	0.4	MDJ	72.65	332	Pd	10	49.00	0.1
	1.1s	41.50nm					TCW	22.73	169	P	04	27.20	1.1		1.0s	100.00nm			5.5mb	
LPO	121.39	319	ePKP	53	54.90	0.4	CAW	22.77	168	P	04	26.80	0.2	TIA	73.44	319	Pd	10	53.50	-0.2
	1.0s	28.00nm					MRW	22.82	169	P	04	27.10	0.1	SNY	73.49	326	Pd	10	53.60	-0.2
MFF	121.46	321	iPKPc	53	54.80	0.2	MTW	22.91	167	P	04	27.70	-0.3	CN2	73.97	329	iPd	10	56.20	-0.4
	0.8s	26.85nm					WDW	22.91	168	P	04	27.60	-0.3		1.0s	100.00nm			5.5mb	
LFF	121.58	319	ePKP	53	55.20	0.3	PMG	23.03	291	iPd	04	30.40	1.1				pP	11	35.50	161km
	1.0s	22.00nm						0.9s	336.13nm				5.8mb				sP	11	53.00	
FRB	122.33	9	ePKP	53	55.00	-0.6	THZ	23.06	172	P	04	30.00	0.6				eS	20	17.00	
ALO	122.46	53	ePKP	53	57.70	0.5	BLW	23.11	167	P	04	29.60	-0.3				sS	21	23.00	
	1.0s	16.50nm					MOW	23.11	168	P	04	29.70	-0.2	LOE	75.19	295	iPd	11	04.00	-0.1
EPF	122.60	317	ePKP	53	57.00	0.1	CNB	23.78	223	iPc	04	37.70	1.2	GYA	75.33	305	iPd	11	05.00	0.1
TOL	126.88	315	ePKP	54	06.50	1.1	KHZ	23.79	171	P	04	35.50	-0.9				pP	11	43.00	154km
MEO	128.67	51	e(PKP)	54	09.40	0.5		0.9s	87.00nm				5.3mb				S	20	33.00	
NKM	129.65	311	iPKPd	54	16.00	5.3X	BWA	23.87	226	iPd	04	36.90	-0.4	NST	75.85	292	iPd	11	09.30	1.5
			i	57	19.00		QLP	23.94	247	iPd	04	38.50	0.5	BSI	76.35	281	iPc	11	10.00	-0.7
IFR	130.14	308	iPKPd	54	13.50	1.5				ipP	05	07.40	142kmX	BJI	76.44	321	eP	11	11.00	0.3
			i	57	22.00		LTZ	23.99	174	Pd	04	38.30	-0.1		1.0s	600.00nm			6.3mb	
SCH	131.04	12	ePKP	54	14.00	1.2	CAN	24.02	223	iPd	04	39.20	0.5				eS	20	44.00	
KIC	133.88	272	PKP	54	19.92	0.6	CMS	24.26	234	iPd	04	41.20	0.2	TIY	77.33	317	iPd	11	16.40	0.6
LIC	134.16	272	PKP	54	20.36	0.5		0.5s	110.00nm				5.7mb	XAN	77.61	313	iPd	11	17.50	0.1
TIC	134.18	272	PKP	54	20.40	0.5	LAT	24.50	297	eP	04	45.00	1.6	KMI	77.78	302	Pc	11	20.00	1.2
LKO	134.86	276	PKP	54	21.00	-0.2	MSZ	25.72	182	eP	04	59.00	4.7X		1.0s	200.00nm			5.8mb	
ANT	143.88	149	ePKP	54	36.30	-0.9	TOO	27.63	223	ePd	05	12.00	0.3	CHG	78.18	295	eP	11	21.50	0.8
MBO	145.68	285	iPKPc	54	42.20	1.7				e	05	48.00	176kmX		1.0s	107.75nm			5.5mb	
PT06	147.37	130	iPKP	54	47.80	4.5X	BFD	29.37	226	iPd	05	26.80	-0.5	CHTO	78.18	295	iPd	11	21.50	0.8
			iS	55	24.60			0.8s	71.00nm				5.4mb		1.0s	110.00nm			5.5mb	
PT03	147.67	131	e(PKP)	54	45.40	1.6	ADE	31.13	233	iPc	05	42.80	-0.1				i	12	00.00	156km
PT10	147.92	127	iPKPd	54	48.50	4.3X		1.0s	128.00nm				5.6mb	MAW	78.62	202	iPd	11	23.20	0.9
NNA	148.08	127	iPKP	54	44.50	0.0	WB5	32.52	262	iPd	05	53.30	-1.7		1.0s	130.00nm			5.6mb	
	1.2s	234.38nm					WRA	32.54	262	Pd	05	53.30	-1.9	HHC	79.72	320	Pd	11	29.60	0.8
			i	54	48.40			0.6s	40.70nm				5.3mb	CD2	79.74	308	eP	11	29.00	0.0
ARE	148.97	140	ePKP	54	47.00	0.8	MTN	36.73	274	iPd	06	30.20	-0.7	BTO	80.54	319	eP	11	34.00	0.9
ZOBO	151.17	145	iPKPc	54	51.20	1.4	KNA	38.35	268	iPd	06	43.70	-0.7	LZH	82.23	312	Pd	11	43.00	1.0
	1.1s	52.20nm						0.4s	76.00nm				5.8mb		1.5s	92.00nm			5.3mb	
	Z 24s	0.08um				4.4MszX	FORR	38.65	244	iPd	06	46.40	-0.3				sP	12	43.00	
		eLR	18	46.00				0.3s	70.00nm				5.8mb	PCC	85.54	48	e(P)	11	57.60	-0.9

GCC	85.60	49	ePc	11	57.30	-1.4	KEV	124.12	345	ePKP	18	16.00	-1.4					i	18	58.70			
			epP	12	41.30	177kmX	BUL	125.01	227	iPKPc	18	09.92	-10.8X					e	19	39.00			
PRS	85.73	49	eP	12	00.10	0.7		1.0s		27.50nm				ETA	146.04	355	ePKP	18	59.90	1.6			
			epP	12	40.60	161km	TAB	126.83	304	ePKP	18	24.00	0.2	FVI	146.09	330	PKP	18	58.70	0.1			
BRK	85.80	48	eP	12	00.00	0.3	SUF	129.25	339	iPKP	18	26.30	-1.1	KEK	146.22	314	iPKPd	18	59.70	0.6			
			epP	12	41.00	164km		0.5s		4.00nm				TRI	146.24	328	iPKPd	18	59.50	0.6			
BKS	85.82	48	eP	12	00.80	0.9	BAO	130.07	131	ePKP	18	21.00	-9.5X	SOTA	146.34	332	iPKPc	18	58.20	-1.0			
SAO	85.87	49	e(P)	12	01.00	0.9	NUR	131.27	337	ePKP	18	30.00	-1.3		0.6s		48.00nm						
MHC	85.99	48	ePc	12	01.60	0.7		0.5s		7.00nm							id	19	00.40				
			epP	12	42.00	161km	APO	134.72	343	ePKP	18	28.50	-9.4X	VLS	146.38	312	ePKP	19	00.00	0.6			
FHC	86.01	45	ePc	12	01.70	0.9		0.6s		3.10nm				GWF	146.38	337	PKP	19	00.64	1.5			
ARN	86.07	48	P	12	02.00	0.8	NB2	135.02	345	PKP	18	29.20	-9.3X	DOU	146.42	342	PKPd	19	00.30	1.2			
			pP	12	42.00	159km		0.7s		2.40nm							e	19	41.40				
TTA	86.09	15	P	11	59.40	-1.4	PRNI	136.80	294	ePKP	18	43.00	0.2	ECP	146.57	355	ePKP	18	59.70	0.5			
			pP	12	42.40	172kmX	BBTK	136.94	309	ePKP	18	42.00	-0.9	STR	146.66	337	PKP	19	01.60	2.1			
BCH	86.15	51	P	12	02.10	0.4	MBH	136.94	294	e(PKP)	18	41.00	-2.0	WLS	146.95	337	PKP	19	01.80	1.7			
			pP	12	42.10	159km	KSP	141.41	332	ePKP	18	44.00	-6.5X	CDF	146.98	337	PKP	19	02.08	1.9			
PRI	86.15	50	ePc	12	01.70	0.0				e	19	45.50		CTI	147.02	330	PKPd	19	01.70	1.4			
			epP	12	44.50	171km	BRG	142.40	334	ePKP	18	47.60	-4.7X	SLE	147.05	335	ePKPd	19	01.90	1.7			
GTA	86.63	314	iPd	12	04.60	0.7		0.9s		12.00nm				SAX	147.12	334	ePKPd	19	02.60	1.9			
ABL	86.64	52	P	12	04.30	0.1				e	19	33.10		LCI	147.13	317	PKP	19	02.00	1.5			
WDC	86.87	45	iPc	12	05.50	0.6				e	19	48.40		FEL	147.15	336	PKP	19	02.23	1.7			
			epP	12	46.00	161km				e	21	15.00		ECH	147.19	337	PKP	19	02.36	2.0			
			esP	13	02.70		CLL	142.45	335	ePKP	18	48.00	-4.3X	OSS	147.22	333	ePKPd	19	03.20	2.5X			
ORV	87.10	47	ePc	12	06.10	0.1		1.2s		12.00nm				BRT	147.32	318	PKP	19	02.50	1.7			
			epP	12	46.70	161km				e	19	45.00		ZLA	147.32	335	ePKPd	19	02.70	2.0			
CMB	87.19	48	ePc	12	06.70	0.1	SRO	142.51	327	ePKP	18	48.90	-3.6X	LLS	147.57	334	ePKPd	19	03.80	2.5X			
			epP	12	47.50	162km	PRU	142.80	332	PKP	18	48.80	-4.2X	VITF	147.61	338	PKP	19	03.54	2.6X			
			esP	13	04.10					e	19	31.00		BSF	147.64	337	PKP	19	03.74	2.5X			
FRI	87.22	49	ePc	12	06.70	0.1	ZST	142.87	328	ePKP	18	50.60	-2.5X	HAU	147.66	338	iPKPd	19	03.80	2.6X			
			epP	12	47.50	162km	SRS	143.01	314	ePKP	18	49.50	-4.1X		0.7s		38.60nm						
MWC	87.24	53	eP	12	07.00	-0.1	OUR	143.08	313	iPKPc	18	49.80	-3.9X	VDL	147.67	333	ePKPc	19	04.60	3.1X			
MIN	87.39	46	eP	12	07.40	-0.2	EKA	143.12	352	PKP	18	51.00	-2.3	BBS	147.68	336	PKP	19	03.58	2.3			
ISA	87.54	51	eP	12	08.00	-0.3		1.1s		7.70nm				SAL	147.87	331	PKP	19	04.30	2.8X			
SBB	87.61	52	eP	12	08.00	-0.7	SOH	143.30	314	ePKP	18	50.10	-4.1X	LOMF	148.03	337	PKP	19	04.93	3.1X			
BAR	87.66	54	eP	12	13.00	4.1X	KNT	143.45	315	iPKPd	18	50.60	-3.8X	MDI	148.11	332	PKP	19	04.20	2.3			
RVR	87.66	53	eP	12	09.00	0.2	SOP	143.48	328	iPKPc	18	52.10	-2.1	ARV	148.18	326	PKP	19	02.00	-0.1			
PLM	87.79	54	eP	12	09.00	-0.7	MOX	143.52	336	iPKP	18	51.50	-2.7X	TMA	148.22	333	ePKPc	19	03.70	1.4			
CLC	88.25	51	eP	12	12.00	0.3		1.1s		44.00nm				ORI	148.25	318	PKP	19	06.50	4.2X			
GSC	88.63	52	eP	12	13.00	-0.6	VAY	143.60	315	iPKPc	18	51.30	-3.3X	SFI	148.46	327	PKPd	19	03.00	0.5			
TPC	88.71	53	eP	12	14.00	0.1		1.0s		152.00nm				DUI	148.53	322	PKP	19	06.00	3.2X			
LSA	89.04	302	P	12	15.50	-0.6	HOF	143.67	335	iPKPc	18	52.00	-2.5X	TDS	148.54	317	PKP	19	06.50	3.7X			
BMW	89.23	40	P	12	16.40	0.3		0.7s		23.00nm				PGD	148.56	327	PKP	19	07.00	4.1X			
GLA	89.23	55	eP	12	17.00	0.6	KHC	143.86	332	iPKP	18	53.00	-1.9	CRE	148.61	327	PKP	19	07.00	4.1X			
KVN	89.25	48	P	12	16.40	-0.1		1.0s		17.50nm				ASS	148.62	325	PKPc	19	02.00	-0.9			
			pP	12	56.90	160km				e	19	35.20		MMK	148.65	334	ePKPd	19	07.10	4.0X			
IMA	89.27	14	P	12	15.20	-0.8	GRG	143.88	315	ePKP	18	51.90	-3.3X	SGO	148.68	319	PKP	19	06.50	3.6X			
	0.8s		3.28nm			4.4mb X	SKO	144.03	317	iPKPd	18	54.00	-1.3	AQU	148.69	324	PKP	19	07.00	4.0X			
			pP	12	56.20	162km		1.0s		288.00nm				MME	148.84	329	PKP	19	07.00	3.5X			
TNP	89.47	49	P	12	17.40	-0.2	NEO	144.04	312	iPKPc	18	52.00	-3.5X	BSS	148.85	320	PKP	19	06.50	3.3X			
	0.8s		6.62nm			4.7mb	WTS	144.08	341	ePKP	18	53.00	-2.0	DIX	148.85	335	ePKPd	19	07.60	4.1X			
			pP	12	57.90	160km		0.7s		12.00nm				SDI	148.88	322	PKP	19	06.50	3.2X			
SHW	89.70	40	P	12	19.30	0.9				e	19	41.00		AZI	148.91	323	PKP	19	07.00	3.7X			
FBA	89.85	17	P	12	16.10	-2.4	WET	144.15	333	iPKPd	18	53.50	-1.8	FLN	148.98	346	iPKPc	19	06.80	3.6X			
	0.7s		8.72nm			4.9mb		1.0s		51.00nm					0.9s		27.85nm						
			pP	12	57.90	166km	LIT	144.21	313	iPKPd	18	53.00	-2.7X	ORO	148.98	334	PKP	19	06.70	3.2X			
GMW	90.01	39	P	12	20.00	0.4	ATH	144.21	309	ePKP	18	53.00	-2.7X	BDI	148.99	329	PKPd	19	06.10	2.6X			
			pP	13	00.30	159km	KMR	144.39	331	iPKP-	18	54.40	-1.4	BOB	149.01	331	PKPd	19	07.10	3.6X			
PGC	90.14	38	eP	12	21.00	0.9	GRF	144.42	335	iPKPd	18	54.90	-0.9	EMS	149.05	335	ePKPc	19	08.10	4.4X			
LON	90.22	40	P	12	20.20	-0.5	FNA	144.65	315	ePKP	18	54.50	-2.0	LDF	149.05	346	iPKPc	19	07.00	3.7X			
			pP	13	00.10	157km	VAM	144.74	305	iPKPd	18	56.00	-0.7		0.8s		13.45nm						
MCW	90.52	38	P	12	22.50	0.6	AGG	144.79	312	ePKPd	18	54.50	-2.3	MNS	149.08	324	PKPd	19	07.00	3.4X			
			pP	13	03.00	160km	OHR	144.87	316	iPKPd	18	55.70	-1.2	LOR	149.15	340	iPKPd	19	07.70	4.2X			
RMW	90.55	39	P	12	22.10	-0.1		0.9s		361.00nm					0.8s		50.35nm						
			pP	13	02.90	161km				i	19	36.20		PII	149.27	328	PKP	19	06.50	2.7X			
PNT	92.69	38	eP	12	32.00	0.1	PTJ	144.98	326	iPKPc	18	56.60	-0.3	LBF	149.36	339	ePKP	19	08.40	4.5X			
	0.8s		13.00nm			5.2mb	ZAG	145.02	326	iPKPd	18	56.50	-0.4		0.9s		24.55nm						
GUN	92.72	298	P	12	32.50	-0.5	BHG	145.22	331	iPKPd	18	57.00	-0.2	GRR	149.41	346	iPKPd	19	08.20	4.4X			
PKI	93.00	298	P	12	33.80	-0.4		1.1s		182.00nm					0.8s		43.00nm						
	0.2s		57.00nm			6.4mb	VLI	145.25	308	iPKPc	18	55.90	-1.7	SSF	149.44	340	iPKPd	19	08.60	4.6X			
DMN	93.26	298	P	12	35.30	0.0	ENN	145.42	341	ePKP	18	57.50	0.1		0.8s		42.30nm						
	1.1s		93.00nm			5.9mb		0.7s		35.00nm				RMP	149.44	324	PKP	19	08.30	4.2X			
MSU	93.29	50	P	12	35.30	0.1				e	19	38.00		LSD	149.46	334	PKP	19	09.54	5.2X			
GKN	93.78	298	P	12	36.90	-0.7	MEM	145.54	341	iPKPd	18	57.00	-0.5	RDP	149.47	323	PKP	19	08.70	4.4X			
	1.1s		93.00nm			5.9mb				e	19	38.50		SOI	149.57	315	PKPd	19	09.00	4.6X			
KOD	94.56	279	eP	12	42.50	0.9	FUR	145.59	333	iPKPd	18	58.50	0.7	LPL	149.59	335	iPKPd	19	09.50	5.0X			
GBA	95.63	282	Pd	12	45.70	-0.3		1.0s		77.00nm					0.8s		38.30nm						
	0.8s		39.90nm			5.8mb	VBY	145.61	326	ePKP	18	57.90	0.0	PCP	149.59	332	PKP	19	08.51	4.2X			
HYB	95.77	286	ePd	12	46.50	-0.2				i	18	59.00		LPG	149.60	335	iPKPd	19	09.60	5.0X			
	1.0s		25.00nm			5.6mb	LJU	145.62	328	ePKP	18	57.00	-0.9		0.8s		44.35nm						
ALQ	96.40	55	eP	12	49.00	-0.5				e	19	39.00		SMF	149.70	339	iPKPd	19	08.70	4.3X			
	0.8s		3.17nm			4.8mb	YRH	145.75	353	ePKP	18	57.40	-0.5		0.8s		22.15nm						
WMQ	96.71	314	Pd	12	50.50	0.0	ITM	145.83	309	ePKP	18	57.00	-1.6	LPF	149.79	346	iPKPd	19	09.20	4.8X			
YKA	100.52	27	ePdiff	13	05.70	-1.5	UCC	145.86	342	PKP	18	58.50	0.4		0.8s		43.00nm						
	0.7s		2.60nm			4.9mb	CEY	145.88	327	ePKP	18	58.00	-0.4	CKI	149.80	332	PKPd	19	08.50	3.9X			
ZOBO	113.95	118	Pdiff	14	12.00	3.4X	IGT	145.95	314	iPKPd	18	58.90	0.2	MAO	149.88	326	PKPd	19	09.10	4.3X			
FRB	121.00	26	ePKP	18	09.00	-2.5X	VOY	145.95	328	ePKP	18	57.40	-1.2	BNI	149.99	334	PKPd	19	10.30	5.3X			

23d 21h

FIN	150.00	332	PKP	19 09.23	4.3X
RRL	150.05	334	PKP	19 10.87	5.6X
ROB	150.09	332	PKP	19 09.74	4.7X
BGF	150.10	340	iPKPd	19 10.00	5.1X
	0.7s		25.90nm		
DOI	150.19	333	PKP	19 08.50	3.2X
ENR	150.34	332	PKP	19 08.82	3.3X
PLDF	150.36	339	PKP	19 10.77	5.3X
STV	150.37	333	PKP	19 09.54	4.0X
IMI	150.38	332	PKP	19 10.77	5.2X
AGO	150.45	340	PKP	19 10.88	5.4X
MAF	150.49	340	ePKP	19 11.10	5.5X
AUTN	150.52	332	PKP	19 11.08	5.1X
TCF	150.54	341	iPKPd	19 11.10	5.4X
TOUF	150.58	332	PKP	19 11.17	5.2X
SBF	150.62	332	iPKPd	19 10.90	5.0X
	0.9s		63.90nm		
AURF	150.65	332	PKP	19 11.08	5.1X
MVIF	150.72	332	PKP	19 11.30	5.1X
REVF	150.75	332	PKP	19 11.17	5.1X
PYM	150.76	339	PKP	19 11.74	5.7X
LSF	150.78	342	iPKPd	19 11.30	5.3X
	0.7s		16.00nm		
PGF	150.89	328	PKP	19 12.05	5.6X
MFF	150.92	344	ePKP	19 11.70	5.5X
	0.7s		13.25nm		
CALN	150.95	332	PKP	19 12.18	5.7X
LBL	151.13	339	PKP	19 13.02	6.5X
FRF	151.21	333	iPKPd	19 12.30	5.6X
	0.9s		45.85nm		
LRG	151.42	333	iPKPd	19 12.90	5.9X
	0.8s		36.25nm		
LMR	151.45	332	iPKPd	19 13.10	6.1X
	0.8s		40.30nm		
RJF	151.64	341	ePKP	19 13.40	6.1X
LFF	152.20	342	ePKP	19 14.80	6.7X
	0.8s		16.10nm		
LPO	152.30	341	ePKP	19 15.10	6.8X
LKO	169.27	211	(PKP)	19 26.46	-0.4
	1.0s		32.00nm		

S.D. = 1.0 on 196 of 296 obs.

---

* MAY 23, 1990 21h 39m 13.27± 1.82s
14.269 N ± 4.8km 60.128 W ±18.2km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.4 (TRN). ML 3.3 (FDF).

MVM	0.80	291	iPc	39 28.32	0.3
			S	39 38.20	
CRM	0.90	302	iPc	39 29.72	0.1
			S	39 40.40	
BIM	0.95	285	iPd	39 29.90	-0.4
			S	39 40.80	
FDF	1.09	295	iPc	39 31.81	-0.5
			S	39 44.20	
SVV	1.42	228	eP	39 37.05	0.1
			eS	39 53.22	
SVB	1.47	228	eP	39 37.79	0.0
			eS	39 54.43	
FCV	1.55	225	iP	39 38.57	-0.3
			iS	39 55.60	
DPMT	1.56	309	eP	39 39.51	0.4
			eS	39 46.81	
BBL	1.80	314	ePd	39 42.37	-0.2
			S	39 57.30	
MGG	2.00	325	ePd	39 45.16	-0.3
			S	40 04.10	
SFG	2.23	333	eP	39 48.60	0.0
PAG	2.30	320	eP	39 49.60	-0.2
			S	40 15.00	
SEG	2.50	328	eP	39 32.31	-20.2X
BPA	3.22	329	ePd	40 02.56	-0.2

S.D. = 0.3 on 13 of 14 obs.

? MAY 23, 1990 21h 44m 45.55± 3.75s
15.020 S ±43.8km 75.622 W ±37.3km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)

PT03	1.04	351	iPc	45 04.10	0.3
			iS	45 20.40	
PT06	1.37	330	iP	45 08.60	0.1
			iS	45 29.10	
PT02	2.21	339	eP	45 20.90	0.2
			iS	45 50.70	
PT08	3.17	343	iP	45 34.10	-0.6
			eS	46 28.20	
PT10	3.21	336	e(P)	45 47.00	12.2X
			eS	46 27.00	
NNA	3.24	338	eP	45 39.40	4.1X
			eS	46 22.50	
ZOBO	7.33	101	P	46 33.60	0.0
LPB	7.40	103	eP	46 17.00	-17.4X

S.D. = 0.5 on 5 of 8 obs.

MAY 23, 1990 21h 55m 22.28± 0.79s
41.626 N ±12.7km 20.051 E ± 7.6km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.2 (TTG).

ULC	0.69	300	ePg	55 36.00	0.1
			eSg	55 48.00	
OHR	0.76	132	ePg	55 36.70	-0.5
			eSg	55 48.90	
TTG	1.00	324	ePg	55 40.00	-1.1
			eSg	55 55.40	
SKO	1.09	71	ePn	55 43.00	0.2
			i	55 53.00	
BDV	1.12	306	ePg	55 43.90	0.5
			eSg	56 02.50	
HCY	1.42	306	ePg	55 48.50	0.4
			eSg	56 10.00	
VAY	1.92	98	eP	55 55.70	0.4

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

? MAY 23, 1990 22h 12m 21.65± 3.96s
44.222 N ±41.8km 11.163 E ± 6.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BDI	0.44	249	P	12 30.50	-0.1
			eSg	12 37.40	
PGD	0.53	131	P	12 32.30	-0.2
			eSg	12 39.80	
SFI	0.58	121	P	12 33.50	0.1
			eSg	12 42.00	
PII	0.68	223	P	12 35.20	0.1
			eSg	12 43.00	

S.D. = 0.2 on 4 of 4 obs.

MAY 23, 1990 22h 51m 59.05± 0.71s
35.775 N ± 6.7km 1.220 W ± 5.1km
DEPTH = 28.8 ± 4.9 km
ALGERIA (396)
mbLg 3.9 (MDD).

TAF	1.37	226	iP	52 23.00	0.6
			i	52 40.00	
			i	52 43.00	
ENIJ	1.44	326	iPnc	52 22.90	-0.5
			eSn	52 40.00	
EMEL	1.49	252	ePn	52 23.60	-0.5
			eSn	52 41.20	
EALH	2.08	356	ePn	52 32.70	0.0
			eSn	52 57.70	
AFC	2.38	309	iPnc	52 37.90	0.8
			eSn	53 03.80	
EVIA	3.04	341	ePn	52 46.70	0.4
			eSn	53 20.50	
EBAN	3.15	320	ePn	52 47.80	0.0
			eSn	53 25.40	
NKM	3.43	266	iP	52 52.50	0.7
EJIF	3.51	282	ePn	52 52.60	-0.3
OJEN	3.52	277	iP	52 54.00	0.8
ALJ	3.66	285	iP	52 56.00	0.9
MOMI	3.69	280	iP	52 58.00	2.5
PLAT	3.70	277	iP	52 57.00	1.3
EHOR	3.82	303	iPnc	52 56.60	-0.7
			eSn	53 41.10	
IFR	3.93	236	iP	52 58.00	-1.1
			i	53 03.00	
			i	53 42.00	
CNIL	3.96	280	iP	52 57.00	-2.3
TOL	4.67	332	ePn	53 09.00	-0.4
			ePg	53 22.00	
			eSn	53 56.00	
			eSb	54 05.00	
			eSg	54 20.50	
EVAL	4.79	294	iPnc	53 09.10	-2.1
			eSn	54 01.90	
ETOR	5.08	353	iPnc	53 15.50	0.2
			eSn	54 09.70	
ESEL	5.15	38	iPnc	53 15.50	-0.7
			eSn	54 11.90	
EROQ	5.20	14	iPnc	53 16.60	-0.3
			eSn	54 13.70	
GUD	5.38	335	iPnc	53 19.80	0.2
			eSn	54 17.90	
AVE	5.68	246	eP	53 08.80	-15.6X
			i	53 27.00	
			i	55 06.80	
EPLA	5.75	320	iPnc	53 23.60	-1.2
			eSn	54 27.60	
TIO	6.99	228	iP	54 36.40	54.1X
			i	54 37.60	
EPF	7.35	9	Pn	53 48.50	1.4
			Sn	55 07.20	
LPO	9.09	11	Pn	54 11.80	0.6
LFF	9.28	9	Pn	54 14.40	0.6
CAF	9.48	14	Pn	54 16.40	-0.3
LMR	9.62	36	Pn	54 18.20	-0.4
LRG	9.64	35	Pn	54 18.70	-0.2
FRF	9.86	36	Pn	54 21.60	-0.3
PGF	10.42	46	Pn	54 29.80	0.1
SBF	10.46	37	Pn	54 30.60	0.4

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

& MAY 23, 1990 22h 58m 26.13s
60.645 N 151.738 W
DEPTH = 67.3km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

NKA	0.26	68	iP	58 38.48	1.6
RDT	0.34	258	iP	58 37.01	-0.5
			iS	58 46.60	
RED	0.56	247	iP	58 38.93	-0.7
			eS	58 49.58	
SPU	0.56	344	iP	58 38.95	-0.6
			iS	58 49.68	
NNL	0.64	160	iP	58 41.06	0.7
CRP	0.66	342	iP	58 40.37	-0.4
			eS	58 51.80	
SLKM	0.76	100	iP	58 41.22	-0.6
			iS	58 53.77	
NCG	0.79	345	iP	58 41.73	-0.5
			iS	58 54.19	
SUA	0.95	30	iP	58 43.83	-0.5
			iS	58 58.30	
CNPM	1.15	167	iP	58 46.17	-0.6
			iS	59 02.34	
XLV	1.19	180	eP	58 46.23	-1.1
			eS	59 03.14	
PMS	1.22	60	eP	58 47.02	-0.7
			eS	59 03.38	
SEW	1.26	115	eP	58 47.58	-0.6
SKT	1.34	4	iP	58 48.58	-0.7
PWA	1.35	41	eP	58 49.18	-0.2
PDB	1.50	236	iP	58 49.65	-1.7
			iS	59 08.26	
AUL	1.53	215	eP	58 50.79	-1.0
AUE	1.53	213	eP	58 50.88	-0.9
PLRM	1.58	52	eP	58 52.08	-0.4
			eS	59 12.25	
GHO	1.77	49	eP	58 53.91	-1.3
CUT	1.90	21	eP	58 56.74	-0.2
SVW	1.96	285	eP	58 55.43	-2.3
CDD	1.97	210	eP	58 56.71	-1.2
SML	2.02	53	iP	58 57.13	-1.5
MTU	2.14	106	eP	58 58.16	-2.1
GLI	2.29	82	eP	58 59.13	-3.2
VZW	2.57	78	eP	59 03.48	-2.8
VLZ	2.69	77	eP	59 05.22	-2.6
NCA	2.73	58	eP	59 07.48	-1.0
KTH	2.94	7	eP	59 10.69	-0.9
KLU	2.95	71	iP	59 09.15	-2.5
TOA	3.05	59	eP	59 11.06	-2.0

32 obs. associated

MAY 23, 1990 23h 25m 09.31± 0.25s
41.824 N ± 3.0km 19.261 E ± 2.2km
DEPTH = 13.4 ± 2.0 km
ALBANIA (391)
MD 3.4 (TTG), 3.7 (ATH). Felt (IV) at Ulcinj, Yugoslavia.

ULC	0.14	357	iPgc	25 13.00	0.0
			iSg	25 16.00	
BDV	0.56	325	iPgd	25 30.50	10.0X

			iSg	25	30.60	
TTG	0.61	360	iPgd	25	20.70	-0.5
			iSg	25	30.50	
HCY	0.84	318	iPgd	25	25.80	0.5
			iSg	25	40.70	
PVY	0.93	34	iPgd	25	26.00	-0.9
			iSg	25	41.00	
NKY	1.01	349	iPgd	25	28.70	0.6
			iSg	25	45.50	
IVA	1.15	24	iPgd	25	30.20	-0.3
			iSg	25	48.50	
BRY	1.20	334	ePg	25	32.50	1.0
			eSg	25	52.00	
OHR	1.36	121	iPn	25	32.60	-1.3
			iSn	25	53.80	
			Lg	25	55.70	
PLE	1.51	4	ePg	25	37.00	0.9
			eSg	25	59.40	
SKO	1.63	84	ePn	25	38.50	0.7
			i	25	47.50	
			iSn	26	02.00	
			Lg	26	03.00	
LCI	1.79	214	P	25	38.50	-1.5
BRT	1.81	239	P	25	44.50	4.1X
FNA	1.90	122	eP	25	42.50	0.8
			eS	26	08.20	
KEK	2.15	169	ePb	25	44.30	-0.9
IGT	2.43	160	eP	25	48.70	-0.6
			eS	26	18.40	
HVAR	2.48	304	e(Pn)	25	53.40	3.4X
GRG	2.52	109	eP	25	50.90	0.4
			eS	26	21.70	
VAY	2.53	100	iPn	25	51.40	0.7
ORI	2.76	231	P	25	55.80	1.8
KNT	2.81	102	eP	25	55.30	0.6
			eS	26	29.80	
KKB	2.86	88	iPc	25	56.00	0.7
LIT	2.99	124	eP	25	57.70	0.5
			eS	26	34.50	
VTS	3.03	74	iP	25	59.00	1.1
THE	3.04	112	eP	25	57.60	-0.2
			eS	26	34.40	
TDS	3.10	227	P	26	01.00	2.3
SGO	3.24	248	P	26	01.00	0.3
SOH	3.24	107	eP	26	00.50	-0.3
MGR	3.27	240	P	26	01.40	0.2
SRS	3.33	101	eP	26	02.40	0.3
			eS	26	42.10	
MMB	3.35	93	ePd	26	04.00	1.6
BSS	3.51	254	P	26	06.50	1.9
DUI	3.60	269	P	26	06.30	0.4
AGG	3.65	139	eP	26	06.50	-0.1
			eS	26	49.20	
PGB	3.72	77	eP	26	09.00	1.4
VLS	3.78	164	ePb	25	40.00	-28.5X
OUR	3.87	111	eP	26	09.60	0.0
			eS	26	56.00	
SDI	4.07	270	P	26	13.00	0.4
RZN	4.08	90	eP	26	13.00	0.1
BZS	4.16	23	ePc	26	14.00	0.3
AZI	4.35	274	P	26	17.50	1.0
AQU	4.39	279	P	26	18.00	0.8
SOI	4.48	214	P	26	16.50	-1.9
KDZ	4.61	90	eP	26	20.00	-0.2
VBY	4.69	323	ePn	26	23.00	1.7
			eSn	27	15.90	
PVL	4.70	71	iPd	26	22.00	0.5
PTJ	4.72	331	e(Pn)	26	41.40	19.5X
MNS	4.93	279	P	26	26.00	1.2
ARV	4.95	292	P	26	24.20	-0.9
ASS	5.04	287	P	26	26.50	0.1
ITM	5.08	155	ePn	25	51.00	-35.8X
ALN	5.19	98	eP	26	28.00	-0.4
CEY	5.25	320	ePn	26	29.40	0.1
			eSn	27	30.40	
LJU	5.43	323	eP	26	31.60	-0.2
			eSn	27	33.00	
CMP	5.43	49	ePc	27	15.00	43.1X
TRI	5.56	316	i(Pn)d	26	32.30	-1.3
			i(Sn)	27	34.50	
			i(Sg)	28	08.00	
			i	28	13.50	
VOY	5.72	319	ePn	26	35.20	-0.8
			eSn	27	40.80	
SFI	5.83	294	P	26	37.50	0.1
PGD	5.91	293	P	26	39.00	0.3
FVI	6.66	318	P	26	47.50	-1.6

CTI	6.93	310	P	26	51.00	-2.0
BOB	7.74	296	P	27	03.00	-1.3
KHC	8.32	333	eP	27	23.50	11.1X
			e	28	48.10	

S.D. = 1.0 on 55 of 63 obs.

% MAY 24, 1990 00h 07m 16.86± 1.42s
36.922 N ±12.1km 5.625 W ± 7.7km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)

LIJA	0.17	98	iP	07	21.00	0.2
ALJ	0.25	176	iP	07	23.50	1.3
GIBL	0.28	250	iP	07	22.50	-0.2
EPRU	0.32	82	iP	07	23.40	-0.1
			eS	07	29.40	
EJIF	0.49	165	eP	07	25.50	-1.2
EHOR	0.94	18	eP	07	39.00	4.1X
			eS	07	53.80	

S.D. = 1.3 on 5 of 6 obs.

---

* MAY 24, 1990 00h 33m 06.25± 0.68s
28.741 N ± 7.6km 142.598 E ±11.9km
DEPTH = 33.0km (normal)
4.5mb (7 obs.)
BONIN ISLANDS REGION (212)

KAKJ	7.72	345	P	34	56.90	-2.2
			S	36	20.00	
IIDJ	7.81	331	P	35	02.00	1.6
CHJJ	7.90	338	P	35	00.20	-1.4
			S	36	25.60	
MAT	8.61	336	(P)	35	11.00	-0.6
			(S)	35	24.00	
MDJ	18.93	330	eP	37	28.00	1.2
CN2	20.36	322	P	37	47.60	5.1X
NJ2	20.74	285	Pc	37	46.00	-0.5
GYA	31.85	275	P	39	30.60	0.0
WB5	48.98	190	eP	41	51.80	0.1
WRA	49.05	190	Pc	41	50.70	-1.5
	0.7s		2.40nm			4.3mb
GUN	49.52	283	P	41	57.00	0.7
	0.8s		38.00nm			5.5mb
PKI	50.01	283	P	42	00.00	-0.1
DMN	50.26	283	P	42	02.00	0.1
GKN	50.55	284	P	42	04.20	0.2
	0.8s		20.00nm			5.2mb
INK	61.39	25	eP	43	21.00	0.0
MBC	64.21	15	eP	43	40.50	0.9
	1.0s		2.00nm			4.2mb
YKA	70.53	29	eP	44	19.70	0.3
	0.8s		0.80nm			3.8mb
HFS	82.06	337	eP	45	25.10	0.8
	1.3s		13.50nm			4.8mb
NB2	82.22	338	P	45	25.60	0.4
	0.8s		2.30nm			4.3mb
ZOBO	149.12	73	PKP	52	56.00	6.2X
LPB	149.27	73	PKP	53	04.00	14.2X

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

---

* MAY 24, 1990 01h 35m 05.71± 1.03s
29.745 N ± 9.0km 50.224 E ±15.7km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)
SOUTHERN IRAN (353)

DHR	3.43	181	eP	35	58.00	-0.1
MJMA	5.84	230	ePc	36	32.10	-0.2
RYD	5.95	214	eP	36	34.20	0.3
TEH	6.06	9	eP	36	51.00	15.5X
UQSK	8.00	242	ePc	37	02.70	0.0
AFIF	8.43	230	eP	37	13.70	5.1X
HFS	39.00	332	eP	42	30.40	-0.1
	0.4s		0.80nm			3.8mb
YKA	87.28	353	eP	47	50.00	0.1
	0.4s		0.20nm			3.7mb

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

---

* MAY 24, 1990 01h 54m 09.55± 2.31s
37.605 N ±15.3km 20.734 E ±16.6km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
ML 3.6 (ATH).

VLS	0.58	349	eP	54	20.20	-1.1
			eS	54	28.50	
ITM	1.04	114	eP	54	29.00	-0.2
AGG	1.89	41	ePd	54	43.80	1.6
			eS	55	08.50	
IGT	1.95	351	eP	54	44.40	1.4
			eS	55	10.20	
KEK	2.23	341	ePg	54	52.50	5.4X
ATH	2.39	80	ePb	54	54.00	4.6X
NEO	2.59	48	eP	54	51.90	-0.3
LIT	2.84	28	eP	54	56.80	1.0
			eS	55	31.50	
FNA	3.21	9	eP	55	02.20	1.1
			eS	55	40.40	
THE	3.49	29	eP	55	04.10	-0.7
OHR	3.50	1	ePn	55	04.70	-0.5
GRG	3.59	21	ePd	55	06.00	-0.4
SOH	3.80	32	ePc	55	08.70	-0.8
KNT	3.93	25	eP	55	11.50	0.3
VAY	3.97	20	ePn	55	12.40	0.6
SRS	4.15	31	ePd	55	13.10	-1.2
SKO	4.40	7	ePn	55	17.00	-0.8

S.D. = 1.0 on 15 of 17 obs.

MAY 24, 1990 01h 55m 18.60± 0.38s
32.206 S ± 5.4km 69.199 W ± 6.3km
DEPTH = 16.6 ± 4.9 km
MENDOZA PROVINCE, ARGENTINA (139)

RTCV	0.66	59	iPc	55	31.90	0.6
MDZ	0.74	157	eP	55	32.20	-0.4
			iS	55	43.70	
ZON	0.79	34	iPd	55	32.60	-1.0
RTCB	0.79	25	iPd	55	34.10	0.5
RTLL	1.07	36	iPc	55	38.00	-0.4
JACH	1.27	248	iPd	55	41.00	-0.7
			iS	55	57.00	
FCH	1.45	219	iPd	55	43.50	-0.9
			iS	56	02.50	
PEL	1.56	233	iPd	55	45.50	-0.3
			i	56	05.50	
ROCH	1.71	243	iPd	55	48.00	-0.1
			iS	56	11.00	
SAN	1.75	224	ePd	55	48.80	0.3
			iS	56	12.00	
PCH	1.79	218	iPd	55	49.50	0.4
			iS	56	13.00	
TACH	2.05	225	iPd	55	53.50	0.6
			iS	56	20.90	
CHCH	2.11	215	iPd	55	55.10	1.4
			iS	56	22.20	
			i	56	23.50	
LCCH	2.36	237	iPc	55	58.10	0.9
			iS	56	30.00	
LNV	2.55	226	iPd	55	59.10	-0.8
			iS	56	34.00	
LPB	15.64	4	(P)	59	11.00	10.8X
ZOBO	15.90	4	P	59	04.00	0.2
SIV	17.75	26	eP	59	27.00	0.3

S.D. = 0.7 on 17 of 18 obs.

? MAY 24, 1990 03h 14m 40.95± 4.12s
45.929 N ±28.5km 2.805 E ±13.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.5 (LDG).

MAF	0.34	330	Pg	14	48.60	0.7
			Sg	14	51.00	
TCF	0.55	311	Pg	14	51.70	-0.3
			Sg	14	56.40	
BGF	0.63	3	Pg	14	52.80	-0.8
			Sg	14	58.50	
AVF	0.94	24	Pg	14	59.30	0.4
			Sg	15	09.20	
LSF	0.94	290	Pg	14	59.00	0.0
			Sg	15	09.10	

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

---

* MAY 24, 1990 03h 47m 14.65± 1.02s
23.083 S ± 9.4km 69.428 W ±14.7km
DEPTH = 63.8 ± 18.4 km
3.7mb (1 obs.)
NORTHERN CHILE (123)
Felt (III) in the Antofogosto areo.

ANT	1.10	235	iPc	47	35.40	1.0
			iS	47	48.50	
CCH	6.46	29	P	48	55.50	5.9X

24d 03h

LPB	6.64	11	P	48	53.00	0.8
ARE	6.87	343	eP	48	54.00	-1.3
			iS	50	09.00	
			iS	04	06.00	
ZOBO	6.89	10	P	48	20.00	-35.8X
RTCB	8.39	176	eP	49	15.00	-1.1
SIV	10.57	50	P	49	45.40	-0.5
BAO	21.52	74	eP	52	01.50	1.1
YKA	92.51	341	eP	00	19.50	0.0
	0.7s		0.20nm			3.7mb
SUF	112.78	30	iPKP	05	29.10	-16.0X
	0.5s		2.80nm			

S.D. = 1.4 on 7 of 10 obs.

MAY 24, 1990 04h 06m 32.07± 0.27s
17.927 S ± 5.9km 178.557 W ± 4.0km
DEPTH = 590.3 ± 2.8 km
5.2mb (47 obs.)
FIJI ISLANDS REGION (181)

TVI	1.73	305	iPc	07	45.40	-0.5
KRO	2.05	287	iPc	07	46.20	-0.9
UDU	2.23	322	eP	07	46.90	0.0
NDE	2.43	303	iPc	07	48.40	0.4
OVA	2.54	275	eP	07	48.90	0.5
MBU	2.77	290	iPc	07	50.30	0.7
VUN	2.84	268	ePc	07	50.00	0.0
SVA	2.85	266	eP	07	49.80	-0.2
PVC	12.51	269	iPc	09	18.30	2.5
DZM	14.69	251	iPc	09	37.90	0.6
			iS	12	14.00	
			ScP	16	49.00	
BRS	28.02	245	iP	11	39.80	0.8
COO	29.64	239	iPd	11	53.20	0.3
RMO	31.37	248	iPd	12	07.70	0.2
	0.6s		177.00nm			5.9mb
			i	12	22.00	
			iPcP	14	43.60	
			iS	17	34.40	
CNB	33.30	232	iPc	12	24.50	0.8
	0.4s		162.00nm			6.0mb
CTA	33.30	261	iPd	12	23.20	-0.6
	0.9s		186.55nm			5.7mb
CAN	33.58	232	iPd	12	26.20	0.2
PMG	34.33	280	iPd	12	32.50	0.2
	0.9s		504.20nm			6.1mb
CMS	34.89	240	iPd	12	37.20	0.3
	0.8s		212.00nm			5.8mb
QLP	35.40	249	iPd	12	41.00	0.0
LAT	35.40	284	eP	12	42.50	1.3
TOO	37.05	231	iPd	12	55.10	0.6
	0.8s		189.00nm			5.8mb
BFD	39.11	233	iPd	13	11.20	-0.1
	0.8s		56.00nm			5.2mb
QIS	39.51	259	iPd	13	13.80	-0.9
	0.5s		23.00nm			5.0mb
ADE	41.51	237	iPd	13	30.50	0.0
	1.0s		160.00nm			5.5mb
WB5	44.47	260	iPd	13	52.80	-1.0
			e	18	21.00	
WRA	44.49	260	Pc	13	53.20	-0.7
	0.6s		104.80nm			5.5mb
GUA	47.71	309	eP	14	18.30	-0.2
	0.8s		388.06nm			6.0mb
GUMO	47.78	309	eP	14	18.70	-0.3
	0.7s		228.72nm			5.8mb
			eS	20	36.00	
PJG	47.78	309	eP	14	18.70	-0.3
MTN	48.66	268	iPd	14	24.30	-1.4
KNA	50.33	264	iPd	14	36.80	-1.1
	0.5s		180.00nm			5.8mb
AAI	53.98	279	ePd	15	02.80	-1.3
			eS	15	05.00	
COOL	55.82	245	iPd	15	14.80	-2.0
	0.4s		55.00nm			5.2mb
MBL	57.84	256	iPd	15	29.30	-1.3
	0.4s		87.00nm			5.4mb
MEKA	58.37	249	iPd	15	32.60	-1.6
	0.3s		22.00nm			4.9mb
KLB	58.69	244	iPd	15	34.90	-1.3
	0.5s		112.00nm			5.4mb
RKG	59.23	241	iPd	15	39.00	-0.7
	0.5s		56.00nm			5.1mb
BAL	59.65	245	iPd	15	41.20	-1.4
	0.5s		56.00nm			5.1mb
MUN	59.99	243	eP	15	44.00	-0.8
MRWA	60.37	246	eP	15	44.00	-3.4X
	0.5s		30.00nm			4.8mb
NANU	61.58	254	iPd	15	54.50	-0.8
	0.5s		55.00nm			5.2mb
KAKJ	66.49	324	P	16	25.40	-0.4
CHJJ	67.04	324	P	16	28.70	-0.5
IIDJ	67.26	322	P	16	30.10	-0.5
MAT	67.84	323	eP	16	33.00	-1.1
TSRJ	68.43	321	P	16	37.40	-0.2
KKM	68.61	284	iPd	16	38.70	-0.6
	0.6s		53.80nm			5.3mb
SPA	72.19	180	iPd	16	59.20	-0.2
	1.0s		21.50nm			4.6mb
			i	17	13.60	
QZH	74.57	303	P	17	13.50	0.3
SSE	75.64	310	P	17	18.50	-0.5
	1.0s		20.00nm			4.6mb
BLP	76.01	46	P	17	21.30	0.3
GCC	76.33	43	ePc	17	22.80	0.1
PRS	76.34	44	ePc	17	23.40	0.6
PCC	76.35	43	eP	17	23.00	0.2
SAO	76.54	44	eP	17	23.80	0.0
BCH	76.57	46	P	17	24.50	0.3
BRK	76.64	43	eP	17	24.50	0.2
BKS	76.66	43	iPd	17	25.10	0.6
	0.7s		47.00nm			5.1mb
PRI	76.70	45	eP	17	25.50	0.6
MHC	76.74	43	ePc	17	25.40	0.3
LLA	76.79	44	ePc	17	25.40	0.2
ARN	76.81	43	P	17	25.50	0.1
ABL	76.98	47	P	17	26.40	-0.2
FHC	77.30	39	eP	17	28.30	0.4
PAS	77.34	48	eP	17	28.00	-0.2
MWC	77.46	48	eP	17	28.00	-1.1
BAR	77.65	50	eP	17	30.00	0.1
FRI	77.82	45	iPc	17	30.60	-0.1
RVR	77.82	48	eP	17	30.00	-0.8
PLM	77.85	49	eP	17	31.00	-0.2
SBB	77.86	47	eP	17	31.00	-0.1
PEC	77.92	48	P	17	31.00	-0.4
ISA	77.93	46	eP	17	32.00	0.6
CMB	77.95	43	ePc	17	31.50	0.0
WDC	78.05	40	iPc	17	31.80	0.0
LTCM	78.09	41	P	17	32.00	0.0
ORV	78.10	42	ePc	17	31.90	-0.2
MDJ	78.12	325	Pd	17	32.80	0.7
KDC	78.44	14	P	17	32.80	-0.7
	0.9s		29.17nm			4.7mb
CLC	78.62	46	eP	17	35.00	0.0
TPC	78.82	49	eP	17	36.00	-0.1
GSC	78.90	47	eP	17	37.00	0.5
GLA	79.17	50	eP	17	38.00	0.0
SNY	79.91	320	eP	17	41.40	-0.1
CN2	79.95	322	Pd	17	42.10	0.4
KVN	80.00	43	P	17	42.30	-0.1
			pP	19	46.40	584kmX
TNP	80.07	45	P	17	42.70	0.0
WHN	80.50	306	eP	17	46.00	1.2
TIA	81.16	312	Pd	17	48.20	0.1
BMW	81.19	35	P	17	48.00	-0.1
SHW	81.56	36	P	17	50.70	0.6
VGB	81.99	37	P	17	51.70	-0.4
GMW	82.08	34	P	17	52.30	-0.2
LON	82.13	35	P	17	52.00	-0.8
PGC	82.40	33	eP	17	54.00	0.0
TTA	82.52	10	P	17	53.70	-0.7
	0.9s		31.25nm			4.8mb
RMW	82.56	35	P	17	54.90	-0.1
PMR	82.65	14	P	17	53.90	-1.1
SIT	82.95	22	P	17	56.00	-0.5
	1.0s		35.00nm			4.8mb
SNG	83.53	280	eP	18	02.10	1.7
	0.9s		94.12nm			5.4mb
BJI	83.70	315	P	18	01.50	0.8
	1.5s		52.00nm			4.9mb
PSI	83.71	275	ePd	18	02.10	0.8
	0.8s		85.50nm			5.4mb
MSU	83.71	46	P	18	01.70	0.6
MAW	83.79	200	iP	18	01.30	0.6
DUG	84.09	45	P	18	02.70	-0.1
DPW	84.79	36	P	18	05.50	-0.4
PNT	84.83	34	iPc	18	06.40	0.4
	0.8s		61.00nm			5.3mb
GYA	84.92	300	iPd	18	08.00	0.9
TIY	85.17	312	eP	18	08.50	0.5
	1.0s		20.00nm			4.7mb
NEW	85.61	36	P	18	09.20	-0.6
	0.8s		26.04nm			5.0mb
PTI	85.69	42	P	18	11.00	0.5
IMA	85.81	10	P	18	09.50	-1.1
	0.8s		4.74nm			4.3mb
FBA	85.86	13	P	18	09.30	-1.3
	0.7s		26.16nm			5.1mb
ALQ	86.22	52	ePc	18	13.20	-0.1
	1.0s		17.50nm			4.7mb
			epP	20	19.00	582kmX
LRM	87.08	40	eP	18	17.30	0.1
IMW	87.09	42	P	18	17.50	0.1
BW06	87.47	43	P	18	18.50	-0.6
	0.9s		15.25nm			4.8mb
KMI	87.71	297	Pd	18	22.00	1.4
	1.5s		100.00nm			5.4mb
CHG	88.87	290	ePd	18	26.90	1.2
	0.9s		26.68nm			5.2mb
CD2	88.96	303	P	18	27.20	1.3
GOL	88.98	48	P	18	26.10	0.0
	1.0s		26.25nm			5.1mb
GLD	89.10	48	P	18	27.40	0.8
	1.3s		57.47nm			5.3mb
SES	90.12	36	iPc	18	30.70	-0.1
	0.7s		34.00nm			5.4mb
LZH	90.79	308	Pd	18	35.50	1.1
	1.0s		45.00nm			5.4mb
RSSD	91.68	44	P	18	37.80	-0.6
INK	91.94	15	eP	18	37.40	-1.4
	1.0s		30.00nm			5.3mb
MEO	92.14	54	iPc	18	40.30	-0.1
YKA	94.41	25	eP	18	48.80	-1.3
	0.8s		5.90nm			4.9mb
MBC	100.39	12	ePdiff	19	16.00	-0.8
	0.6s		1.00nm			4.5mb
NUR	134.33	344	ePKP	24	44.00	-0.6
N82	136.38	353	PKP	24	40.80	-7.8X
	0.8s		1.80nm			
HFS	136.93	351	ePKP	24	39.50	-10.1X
	0.4s		2.50nm			
UQSK	141.35	289	iPKPd	24	54.30	-4.4X
EKA	142.50	4	PKP	24	56.00	-3.6X
	0.9s		3.10nm			
OTFJ	144.68	300	PKPd	25	03.90	-0.3
KSP	145.09	344	iPKPd	25	05.20	1.0
	0.8s		20.00nm			
			e	25	14.50	
BBTK	145.23	315	ePKP	25	04.00	-0.9
CLL	145.45	347	iPKP	25	05.80	1.1
	0.7s		15.00nm			
			i	25	15.00	
BRG	145.65	346	iPKP	25	05.00	-0.1
	1.0s		14.00nm			
MDSJ	145.74	300	PKPd	25	07.10	1.1
BURJ	145.94	301	PKPc	25	07.60	1.3
SALJ	146.10	301	PKPc	25	08.00	1.5
KFNJ	146.15	301	PKPd	25	08.10	1.7
PRU	146.33	345	ePKP	25	06.00	-0.2
			e	25	08.50	
MOX	146.36	348	e(PKP)	25	06.00	-0.3
LWI	146.42	236	iPKPd	25	10.90	3.2X
DSI	146.47	300	ePKP	25	08.00	1.0
WAJH	146.51	290	iPKPd	25	09.80	2.6X
LFK	146.70	308	iPKP	25	10.70	3.3X
PRNI	147.11	298	iPKPd	25	10.00	1.9
SRO	147.15	339	ePKP	25	11.00	3.4X
ZST	147.22	341	ePKP	25	11.40	3.7X
HQL	147.31	296	iPKPd	25	12.00	3.6X
MBH	147.34	297	iPKPd	25	11.00	2.6X
GRF	147.35	348	iPKPd	25	11.70	3.8X
	1.1s		10.00nm			
KHC	147.36	345	ePKP	25	08.50	0.5
			i	25	11.90	
ALT	147.39	316	ePKP	25	11.00	2.6X
BADA	147.51	295	iPKPd	25	12.30	3.6X
KHL	148.17	315	ePKP	25	13.20	3.5X
DIM	148.37	325	ePKP	25	14.00	4.3X
ELL	148.70	313	ePKP	25	15.00	4.4X
KDZ	148.71	324	ePKP	25	15.00	4.7X
FLN	149.20	2	ePKP	25	15.00	4.3X
	0.4s		5.15nm			
CDF	149.22	352	ePKP	25	15.80	4.9X
	0.4s		4.00nm			
VTS	149.23	328	iPKPd	25	16.00	4.8X
LDF	149.39	2	ePKP	25	15.50	4.5X
	0.4s		4.00nm			
GRR	149.56	3	ePKP	25	16.40	5.1X
	0.4s		5.75nm			
MMB	149.67	326	ePKPc	25	17.00	5.2X

SOTA	149.70	347	iPKPd	25	16.70	5.0X
	0.7s		15.50nm			
			i	25	26.90	
			e	25	45.00	
HAU	149.73	353	ePKP	25	16.90	5.3X
	0.4s		3.45nm			
BSF	149.85	353	ePKP	25	17.00	5.1X
	0.6s		3.60nm			
LPF	149.91	3	ePKP	25	17.20	5.4X
	0.4s		2.30nm			
AKSR	149.98	286	ePKP	25	18.00	5.4X
VBY	150.19	340	e(PKP)	25	18.70	6.4X
AKRL	150.26	286	ePKP	25	19.50	6.4X
AWAL	150.40	286	ePKP	25	19.00	5.7X
AGMR	150.42	286	ePKP	25	20.00	6.7X
VAY	150.48	327	ePKP	25	18.00	5.1X
AWKL	150.52	286	ePKP	25	19.20	5.7X
SKO	150.57	329	iPKP	25	19.00	5.9X
LOR	150.67	357	ePKP	25	19.00	5.9X
	0.5s		8.75nm			
SSF	150.90	357	ePKP	25	19.60	6.2X
	0.4s		4.60nm			
LBF	150.95	356	ePKP	25	19.30	5.8X
	0.3s		1.30nm			
AVF	151.17	357	ePKP	25	19.90	6.1X
	0.5s		1.45nm			
BGF	151.43	358	ePKP	25	20.80	6.6X
	0.5s		5.45nm			
OHR	151.54	328	ePKP	25	20.90	6.3X
	0.7s		51.00nm			
TCF	151.71	359	ePKP	25	21.20	6.6X
	0.5s		1.80nm			
LSF	151.76	360	ePKP	25	21.50	6.9X
	0.6s		3.60nm			
LPG	152.16	352	ePKP	25	23.30	7.7X
	0.6s		1.80nm			
RJF	152.70	360	ePKP	25	23.80	7.8X

S.D. = 0.8 on 143 of 190 obs.

MAY 24, 1990 05h 49m 05.17± 0.30s
39.995 N ± 3.2km 27.500 E ± 2.7km
DEPTH = 15.4 ± 2.9 km
4.1mb (16 obs.)
TURKEY (366)

EDC	0.45	38	iPg	49	14.80	0.6
KGT	0.48	342	iPg	49	16.30	1.5
EZN	0.92	260	iPn	49	21.60	-0.6
CTT	1.35	31	iPn	49	30.00	0.6
ALN	1.43	310	iPd	49	31.30	0.9
			eS	49	49.70	
YLV	1.54	68	iPn	49	33.30	1.2
ISK	1.60	48	iPn	49	33.90	1.0
ITU	1.60	46	ePn	49	33.00	0.1
			iSg	49	55.00	
IZM	1.61	187	iPn	49	31.60	-1.4
GBZT	1.68	61	iPnc	49	34.00	-0.1
			ePg	49	37.00	
			iSg	50	01.00	
DMK	1.83	6	iPn	49	36.90	0.6
HRT	1.85	63	iPn	49	37.80	1.2
RDO	1.89	308	iPnd	49	37.30	0.3
ALT	2.23	114	iPn	49	42.60	0.5
KDZ	2.29	317	iPd	49	44.00	1.1
			iS	50	12.00	
KHL	2.29	136	iPn	49	43.20	0.2
SMG	2.34	193	ePn	49	42.00	-1.6
DIM	2.54	325	eP	49	47.00	0.7
JMB	2.56	345	eP	49	45.00	-1.8
RZN	2.71	310	iPd	49	49.00	0.0
OUR	2.72	278	iPd	49	48.30	-0.7
			iS	50	25.30	
YER	2.92	168	iPn	49	50.00	-1.9
PLD	2.99	316	iPd	49	54.00	1.3
SRS	3.18	292	iPd	49	55.20	-0.4
			eS	50	36.00	
MMB	3.28	300	iPd	49	57.00	0.0
NEO	3.37	260	ePn	49	58.50	0.2
BCK	3.50	135	iPn	50	00.60	0.5
THE	3.53	282	eP	50	01.40	1.0
ATH	3.57	237	ePb	50	08.50	7.4X
PGB	3.58	317	iPd	50	01.00	-0.3
KNT	3.69	290	iPd	50	02.80	-0.1
			eS	50	47.90	
PSN	3.72	8	iPd	50	03.00	-0.2
ELL	3.75	149	iPn	50	05.40	1.6
KKB	3.83	301	iPd	50	04.00	-0.8
LIT	3.85	273	ePd	50	03.80	-1.2
			iS	50	53.50	
VAY	3.98	291	iPn	50	07.20	0.4
GRG	4.01	286	eP	50	07.80	0.5
			eS	50	55.80	
BBTK	4.05	90	ePn	50	07.00	-0.9
			ePg	50	21.00	
			eSg	51	15.00	
AGG	4.12	258	eP	50	11.40	2.6
VTS	4.14	310	iPd	50	10.00	0.6
KSL	4.20	156	ePn	50	11.00	0.9
BUC1	4.48	346	eP	50	12.00	-2.0
BUC	4.54	347	ePd	50	28.00	13.3X
FNA	4.74	282	ePc	50	17.70	-0.1
SKO	4.99	295	iPn	50	21.00	-0.3
N	11s		1.15um			
			iPg	50	38.50	
			iSn	51	16.00	
			i	51	22.00	
			i	51	46.00	
ISR	5.19	352	ePc	50	25.50	1.5
ITM	5.19	239	ePn	50	26.50	2.4
CFR	5.21	5	ePc	50	24.00	-0.2
OHR	5.22	284	iPn	50	24.40	-0.2
			iSn	51	21.70	
			Lg	51	28.70	
VAM	5.27	211	ePn	50	22.50	-2.8X
IGT	5.54	268	ePc	50	30.40	1.3
VRI	5.90	355	ePc	50	33.00	-1.0
KVT	6.60	78	ePn	50	43.00	-1.0
LFK	6.71	133	eP	50	47.00	1.4
BZS	7.09	324	ePc	50	48.50	-2.2
SRO	10.24	323	i(P)	51	34.30	-0.1
ZST	11.09	321	eP	51	49.20	3.2X
KHC	13.47	317	P	52	18.00	0.0
CLL	15.16	323	eP	52	44.00	3.9X
SBF	15.42	291	eP	52	49.00	5.3X
	0.8s		25.50nm		4.6mb	
FRF	15.95	290	eP	52	54.50	4.0X
LMR	16.03	289	eP	52	55.60	4.1X
LPG	16.19	297	eP	52	57.60	3.8X
	0.6s		5.85nm		3.9mb	
HAU	17.16	305	eP	53	07.60	1.9
	0.8s		5.35nm		3.7mb	
SMF	18.42	299	eP	53	22.50	1.2
	0.9s		5.75nm		3.7mb	
SSF	18.73	300	eP	53	24.90	-0.3
AVF	18.77	299	eP	53	25.20	-0.5
	0.8s		7.40nm		3.9mb	
MAF	19.20	297	eP	53	31.00	0.1
	0.6s		5.85nm		4.0mb	
TCF	19.45	297	eP	53	34.10	0.1
LPO	19.97	292	eP	53	39.60	0.1
MFF	21.11	297	eP	53	50.80	-0.5
	0.6s		5.40nm		4.1mb	
LDF	21.47	303	eP	53	54.00	-0.9
	0.5s		4.35nm		4.1mb	
FLN	21.74	303	eP	53	56.40	-1.2
	0.6s		8.10nm		4.3mb	
GRR	21.90	302	eP	53	58.40	-0.8
	0.6s		10.80nm		4.5mb	
LPF	21.95	301	eP	53	58.80	-0.9
	0.8s		12.10nm		4.4mb	
APO	22.23	342	eP	54	04.00	1.6
	0.5s		1.90nm		3.8mb	
NB2	23.34	340	P	54	12.80	-0.6
	0.7s		4.00nm		4.1mb	
MAIO	25.36	88	eP	54	36.00	2.9X
EKA	25.45	317	P	54	32.00	-1.6
	0.8s		8.20nm		4.4mb	
GKN	48.12	86	P	57	44.60	-1.9
	0.6s		9.00nm		5.0mb	
YKA	73.41	343	eP	00	36.40	-1.5
	0.8s		0.70nm		3.8mb	

S.D. = 1.1 on 71 of 81 obs.

& MAY 24, 1990 07h 46m 30.73s
65.446 N 148.699 W
DEPTH = 12.8km
2.6mb (1 obs.)
ALASKA (676)
<AGS-P>.

FBA	0.67	145	iP	46	43.54	-0.2
GLM	0.72	129	eP	47	29.04	44.4
NEA	0.89	191	iP	46	47.62	0.1
CCB	0.89	154	iP	46	47.50	0.0
WRH	1.01	165	iP	46	49.90	0.3
HDA	1.28	144	iP	46	53.64	-0.6
			eS	47	11.10	
MCK	1.72	183	eP	47	00.22	-0.4
			eS	47	23.05	
FYU	1.81	50	eP	47	01.17	-0.6
DMW	1.89	136	eP	47	02.27	-0.7
RND	2.05	182	eP	47	04.97	-0.4
			eS	47	30.30	
DDM	2.07	142	iP	47	04.62	-1.0
KTH	2.13	208	eP	47	06.04	-0.5
			eS	47	34.16	
IMA	2.15	289	eP	47	07.27	0.4
DOT	2.70	130	eP	47	12.83	-1.8
PAX	2.86	149	eP	47	16.44	-0.5
TMW	3.27	128	eP	47	20.77	-1.9
TOA	3.54	160	eP	47	27.19	0.7
NCA	3.57	166	eP	47	27.17	0.3
SML	3.66	177	eP	47	27.15	-1.1
GHO	3.69	182	eP	47	27.88	-0.9
SKT	3.70	201	eP	47	28.12	-0.7
PWA	3.85	188	eP	47	30.24	-0.6
PLRM	3.87	183	eP	47	30.48	-0.7
SUA	4.10	194	eP	47	34.63	0.1
KLU	4.16	161	eP	47	35.35	0.0
DWY	4.21	105	P	47	35.20	-0.8
PMS	4.24	186	eP	47	36.43	0.0
VLZ	4.46	165	eP	47	39.10	-0.4
CRP	4.47	202	eP	47	39.10	-0.8
VZW	4.51	167	eP	47	40.49	0.2
SPU	4.54	201	eP	47	40.05	-0.7
GLI	4.64	170	eP	47	42.34	0.2
SLKM	5.01	189	eP	47	48.37	1.1
RDT	5.17	201	eP	47	50.86	1.2
BALM	5.27	144	eP	47	49.16	-2.0
TGL	5.41	148	eP	47	52.53	-0.6
INK	6.63	58	P	48	08.00	-2.1
HYT	6.87	127	P	48	17.00	3.4
YKA	15.14	85	eP	50	10.60	5.1
	0.7s		0.20nm			2.6mb

39 obs. associated

MAY 24, 1990 08h 23m 04.38± 0.59s
45.871 N ± 7.1km 14.686 E ± 4.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 3.8 (LJU). Slight damage (V) at Velike Lasce. Also felt at Grosuplje.

LJU	0.20	328	iPgd	23	08.50	-0.3
			eSg	23	11.50	
CEY	0.22	234	iPgd	23	08.40	-0.8
			iSg	23	11.40	
VBY	0.54	132	iPgc	23	14.80	-0.6
			iSg	23	23.80	
VOY	0.58	286	iPgd	23	15.10	-1.0
			eSg	23	23.30	
TRI	0.67	256	iPgd	23	16.20	-1.4
			iSg	23	24.20	
PTJ	0.89	88	iPgc	23	21.70	0.2
			eSg	23	30.40	
ZAG	0.91	93	ePg	23	21.30	-0.5
			i	23	23.50	
			i(Sg)	23	30.00	
			i	23	31.60	
			i	23	38.20	
			i	23	47.60	
FVI	1.51	299	P	23	33.00	1.6
CTI	2.12	276	P	23	41.20	0.7
ARV	2.68	208	P	23	52.00	3.7X
SOTA	2.75	301	iPgd	23	52.40	2.9X
			i	23	55.00	
			i	24	31.20	
SFI	2.80	227	P	23	53.50	3.5X
ZST	2.85	35	e(Pn)	23	50.80	0.0
			i	24	07.60	
			i	24	27.60	
			i	24	45.80	
CRE	2.97	222	P	23	56.50	4.0X
ASS	3.15	208	P	23	57.00	1.9
SRO	3.16	51	eP	24	03.00	8.0X
			i	24	12.80	
KHC	3.35	347	ePn	24	08.10	10.3X
			ePg	24	14.00	
			Sg	24	50.00	
PRU	4.12	359	ePn	24	23.00	14.3X

24d 08h

		e	24 49.00		
		eSg	25 18.50		
GRF	4.48	330 e(Pn)	24 25.40	11.6X	
		e	24 37.60		
		e	24 45.40		
		eSg	25 31.80		
	S.D. = 1.2		on 11 of 19 obs.		

? MAY 24, 1990 08h 39m 34.74± 9.36s
30.902 S ±67.8km 68.893 W ±14.5km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.56	140 iPc	39 46.40	0.2	
RTCB	0.59	172 iPd	39 47.20	0.5	
ZON	0.67	164 eP	39 47.00	-1.1	
		eS	39 58.00		
RTBS	0.90	212 eP	39 52.00	0.1	
		S	40 06.00		
RTCV	1.00	162 ePd	39 49.80	-4.0X	
		(S)	40 02.00		
	S.D. = 1.2		on 4 of 5 obs.		

* MAY 24, 1990 09h 03m 48.83± 1.04s
26.600 N ±16.0km 95.522 E ± 7.4km
DEPTH = 82.3 ± 15.3 km
4.8mb (8 obs.)
BURMA-INDIA BORDER REGION (294)

KMI	6.67	101 Pc	05 27.00	0.7	
CHG	8.37	157 ePc	05 48.80	-0.7	
	1.0s	14.75nm		4.7mb	
GUN	8.68	281 P	05 54.40	0.3	
	0.4s	19.00nm		5.2mb	
PKI	9.07	278 P	05 59.00	-0.3	
	0.4s	11.00nm		5.1mb	
DMN	9.34	279 P	06 02.90	-0.1	
	0.4s	9.00nm		5.0mb	
GKN	9.78	281 P	06 08.20	-0.7	
	0.4s	21.00nm		5.5mb	
HYB	18.18	243 ePc	07 58.50	1.2	
	1.0s	30.00nm		4.5mb	
GBA	21.31	236 Pd	08 30.80	0.2	
	0.5s	4.70nm		4.1mb	
WB5	59.62	137 eP	13 45.90	-0.7	
WRA	59.65	137 P	13 47.00	0.2	
	0.8s	2.20nm		4.3mb	
	S.D. = 0.8		on 10 of 10 obs.		

% MAY 24, 1990 09h 29m 30.30± 0.77s
44.216 N ±12.5km 7.467 E ± 5.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

ENR	0.03	287 P	29 32.69	0.3	
		S	29 35.97		
STV	0.11	285 P	29 32.90	-0.3	
		S	29 35.97		
ROB	0.30	75 P	29 36.69	0.1	
		S	29 42.74		
IMI	0.43	135 P	29 39.15	0.0	
FIN	0.53	91 P	29 41.00	-0.1	
	S.D. = 0.3		on 5 of 5 obs.		

? MAY 24, 1990 09h 52m 06.79± 6.69s
57.436 N ±55.0km 11.767 E ±23.3km
DEPTH = 5.0km (geophysicist)
SWEDEN (536)
MD 3.6 (BER).

HFS	2.89	20 eP	52 53.80	-0.5	
	0.1s	1.70nm			
BLS2	3.16	308 eP	52 57.63	-0.6	
		eS	53 39.59		
NRA0	3.31	358 Pn	53 01.20	0.9	
		S	53 47.30		
ODD1	3.66	315 iP	53 05.21	0.0	
		eS	53 53.25		
KMY	3.87	300 eP	53 09.00	0.8	
		eS	53 55.23		
ASK	4.57	315 eP	53 12.81	-5.3X	
		eS	54 16.84		
HYA	4.71	325 eP	53 19.27	-0.8	
MOL	5.57	339 eP	53 32.49	0.2	
		eS	54 42.46		
	S.D. = 0.8		on 7 of 8 obs.		

? MAY 24, 1990 09h 56m 39.94± 9.99s
18.007 N ±81.4km 61.735 W ±20.6km
DEPTH = 35.2 ± 27.5 km
LEEWARD ISLANDS (92)
MD 4.3 (TRN). ML 4.1 (FDF).

CPB	0.38	193 eP	56 48.41	-0.4	
BPA	0.96	187 iPc	56 56.76	-0.4	
		S	57 12.90		
NEV	1.18	223 iPc	57 00.10	-0.1	
		S	57 17.30		
MGH	1.36	200 ePc	57 03.39	0.5	
		S	57 24.70		
SEG	1.61	172 eP	57 07.11	0.6	
		S	57 31.00		
SFG	1.82	163 eP	57 10.01	0.6	
PAG	1.97	178 eP	57 11.90	0.3	
		S	57 38.90		
BBL	2.48	174 eP	57 19.00	0.1	
FDF	3.30	170 eP	57 29.98	-0.6	
		S	58 09.30		
CRM	3.33	166 eP	57 30.50	-0.4	
MVM	3.53	167 eP	57 33.14	-0.6	
BIM	3.53	169 eP	57 33.66	-0.1	
SLB	4.21	171 eP	57 46.00	2.5	
SOA	4.64	173 eP	57 48.90	-0.6	
SVV	4.69	174 eP	57 49.77	-0.4	
SVB	4.73	174 eP	57 50.35	-0.5	
FCV	4.85	174 eP	57 51.69	-0.8	
TRN	7.32	177 eP	58 27.39	0.1	
		eS	59 52.86		
	S.D. = 0.8		on 18 of 18 obs.		

MAY 24, 1990 12h 09m 39.27± 1.06s
28.180 N ± 4.7km 129.688 E ± 4.2km
DEPTH = 31.1 ± 7.8 km
4.9mb (24 obs.) 4.5Msz (3 obs.)
RYUKYU ISLANDS (238)

KAGJ	3.17	19 P	10 29.30	1.1	
KUMJ	4.45	13 P	10 47.20	0.8	
SHNJ	6.05	11 P	11 10.30	1.4	
SHK	6.83	21 eP	11 20.00	0.1	
TKSJ	6.89	32 P	11 19.30	-1.4	
YONJ	7.69	24 P	11 31.20	-0.7	
WKYJ	7.86	39 P	11 32.70	-1.7	
SSE	7.95	293 P	11 34.50	-1.0	
	0.8s	10.00nm		5.0mb	
	Z 20s	14.00um		4.7MszX	
TSRJ	9.08	35 P	11 50.20	-1.0	
		eS	13 27.90		
IIDJ	10.09	42 P	12 03.70	-1.5	
NJ2	10.14	295 eP	12 04.00	-1.8	
	Z 16s	1.00um			
	N 12s	2.90um			
QZH	10.44	255 eP	12 10.90	0.9	
MTMJ	10.83	37 P	12 14.50	-0.8	
MAT	11.01	39 eP	12 17.00	-0.8	
	0.8s	11.19nm		5.1mb	
		eS	14 36.00		
CHJJ	11.12	43 P	12 19.20	0.0	
KAKJ	11.95	45 P	12 30.50	0.2	
DL2	12.63	330 eP	12 38.00	-1.4	
	Z 18s	3.00um			
	N 13s	3.10um			
	E 13s	1.90um			
		S	15 02.00		
TIA	13.31	310 eP	12 49.60	1.1	
WHN	13.58	284 eP	12 54.00	1.9	
	Z 16s	1.20um			
BAG	14.42	218 eP	13 03.00	-0.4	
SNY	14.50	341 Pc	13 04.00	-0.1	
	Z 15s	4.50um			
	N 13s	1.80um			
	E 10s	1.30um			
		S	15 50.00		
QCP	15.67	212 eP	13 20.00	0.5	
CN2	15.96	349 eP	13 29.00	6.0X	
	1.5s	130.00nm		4.8mb	
	Z 24s	1.59um		5.7Msz	
	N 16s	1.69um			
		esP	13 39.00		
		eS	16 32.00		
BJI	16.26	320 eP	13 29.00	2.1	
	1.5s	131.00nm		4.8mb	
	Z 24s	1.59um		4.5Msz	
	N 16s	1.69um			
		esP	13 39.00		
		eS	16 32.00		
MDJ	16.40	360 eP	13 31.50	2.8X	
TIY	17.30	308 Pc	13 36.00	-4.1X	
	Z 14s	3.00um			
	N 17s	2.90um			
		pP	13 45.00		
		S	16 51.00		
		sS	17 04.50		
XAN	18.70	293 P	13 56.20	-1.2	
	N 10s	1.10um			
	E 11s	0.70um			
HHC	19.52	315 eP	14 05.90	-1.2	
	Z 22s	1.90um			
	N 13s	0.70um			
	E 14s	1.20um			
		sP	14 16.00		
GUMO	20.26	133 eP	14 12.30	-2.7	
PJG	20.26	133 eP	14 11.50	-3.5X	
QIZ	20.32	248 eP	14 20.00	4.5X	
	N 13s	1.70um			
		eS	17 57.00		
GUA	20.33	133 eP	14 18.20	2.5X	
BTO	20.37	313 eP	14 16.00	0.0	
	N 14s	1.00um			
	E 14s	0.70um			
		esP	14 23.00		
GYA	20.53	271 P	14 17.20	-0.6	
	Z 16s	1.20um		4.4MszX	
	N 15s	3.20um			
	E 15s	1.40um			
DAV	21.34	191 eP	14 35.50	9.5X	
CD2	22.71	283 P	14 39.40	-0.2	
	Z 16s	0.90um		4.3MszX	
	N 10s	2.20um			
		S	18 43.00		
LZH	23.21	296 Pc	14 45.00	0.3	
	1.5s	33.00nm		4.6mb	
	Z 18s	1.00um		4.3Msz	
	N 13s	1.00um			
	E 13s	1.00um			
		pP	14 51.50	23kmX	
		PP	15 14.00		
		S	18 48.00		
KMI	24.26	269 Pc	14 54.50	-0.5	
	2.0s	100.00nm		5.0mb	
	Z 21s	1.40um		4.4Msz	
	N 13s	0.90um			
		sP	15 07.50		
KKM	25.46	213 eP	15 08.00	1.7	
GTA	27.12	302 eP	15 20.40	-1.1	
LOE	27.85	253 eP	15 16.50	-11.7X	
CHG	29.63	258 iPd	15 43.00	-1.2	
CHTO	29.63	258 iP	15 42.10	-2.1	
	0.8s	12.99nm		4.7mb	
BDT	30.24	256 eP	15 50.00	0.4	
IPM	35.96	235 ePd	16 41.00	1.7	
WMO	36.96	306 eP	16 56.50	9.0X	
	Z 16s	1.30um		4.8MszX	
GUN	38.51	280 P	16 59.60	-1.4	
	0.8s	40.00nm		5.3mb	
PSI	38.77	235 ePc	17 02.50	-0.3	
PKI	38.98	280 P	17 03.20	-1.8	
	0.6s	14.00nm		4.9mb	
DMN	39.24	280 P	17 05.40	-1.6	
	0.8s	27.00nm		5.1mb	
GKN	39.57	281 P	17 08.00	-1.6	
	0.4s	10.00nm		4.9mb	
MTN	40.81	178 eP	17 18.10	-1.5	
	0.7s	54.00nm		5.4mb	
KNA	43.68	181 eP	17 43.00	0.0	
NDI	45.83	284 eP	18 11.20	10.9X	
WB5	47.99	174 eP	18 16.90	-0.4	
WRA	48.05	174 Pc	18 17.70	-0.1	
	0.6s	7.10nm		4.9mb	
QIS	49.39	168 eP	18 27.50	-0.6	
GBA	50.56	265 Pd	18 34.70	-2.5	
	0.9s	6.20nm		4.6mb	
CTA	50.59	160 iPc	18 38.00	0.7	
	1.0s	41.00nm		5.4mb	
KOD	52.03	261 eP	18 49.00	0.2	
TTA	58.20	31 eP	19 41.10	8.6X	
	1.2s	13.26nm		4.9mb	
MAIO	58.77	297 eP	19 36.00	-0.9	
KDC	60.24	37 eP	19 55.50	8.9X	
DZM	61.28	141 iPc	19 54.10	-0.1	
FBA	61.71	29 eP	19 55.80	-0.7	

```
INK     66.59   24 eP     20 27.00   -1.3
MBC     67.63   14 ePc    20 33.20   -1.6
         0.6s     12.00nm          5.2mb
KEV     68.10  339 eP     20 36.00   -1.8
SOD     69.15  336 eP     20 44.00   -0.3
SUF     71.23  332 eP     20 54.00   -3.0X
NUR     72.85  330 eP     21 03.00   -3.6X
YKA     76.22   26 eP     21 24.70   -1.3
         0.9s     3.10nm          4.3mb
UPP     76.22  331 iP     21 23.40   -2.6
HFS     77.70  333 eP     21 31.70   -2.5
         0.4s     2.10nm          4.5mb
NB2     78.14  334 P      21 34.30   -2.4
         0.8s     6.60nm          4.7mb
VRI     78.60  316 ePd    21 39.00   -0.5
MLR     79.26  316 eP     21 44.00    0.7
KRA     80.39  322 eP     21 50.20    1.2
PNT     81.31   38 eP     21 54.00    0.1
BRG     83.08  325 eP     22 05.60    2.5X
         2.0s    22.00nm          4.9mb
                   e      22 17.60
                   i      22 45.60
CLL     83.29  326 eP     22 05.00    0.9
         1.5s    17.00nm          5.0mb
PRU     83.30  324 eP     22 06.00    1.8
      Z  17s     0.80um          5.2MszX
      N  16s     0.50um
      E  17s     0.50um
VAY     83.50  314 eP     22 07.40    2.0
SKO     83.87  315 eP     22 09.00    1.7
KHC     84.32  324 P      22 13.00    3.6X
      Z  16s     0.90um          5.2MszX
      N  16s     0.30um
      E  16s     0.60um
MOX     84.39  326 eP     22 11.00    1.3
      Z  15s     1.20um          5.4MszX
      N  15s     0.90um
      E  16s     0.50um
SES     85.14   34 eP     22 14.00    0.4
GRF     85.18  325 eP     22 13.10   -0.6
      Z  18s     0.60um          5.0Msz
                   e      22 15.90
ORV     85.53   47 eP     22 16.60    0.9
BKS     85.96   49 eP     22 19.90    2.1
FFC     86.27   27 iPc    22 18.80   -0.2
         0.7s     9.00nm          5.1mb
CMB     87.10   48 eP     22 24.20    0.7
LRM     87.29   38 eP     22 25.00    0.5
KVN     88.00   46 eP     22 28.60    0.6
DOU     88.14  328 P      22 31.30    3.2X
BCH     88.88   50 eP     22 40.00    7.8X
TNP     89.12   47 eP     22 34.50    1.1
BW06    90.83   39 eP     22 41.00   -0.3
         0.8s    17.14nm          5.4mb
RSSD    92.88   36 eP     22 50.70    0.0
GLA     93.67   49 eP     22 55.00    0.7
PT10   150.38   63 e(PKP) 29 29.50    5.2X
NNA    150.43   62 ePKP   29 28.50    4.1X
         0.5s     6.34nm
ZOBO   159.72   58 ePKP   29 26.00  -11.3X
SIV    164.31   42 ePKP   30 00.00   18.8X
      S.D. = 1.3  on  82 of 104 obs.
-------------------------------------
   MAY  24, 1990  12h 41m 18.77± 1.07s
    1.244 N ± 5.7km  123.031 E ± 7.9km
   DEPTH =   8.3 ±  7.2 km
    4.7mb (  6 obs.)  4.4Msz (  1 obs.)
 MINAHASSA PENINSULA                (265)

MNI      1.82   84 eP     41 50.00   -0.5
                 eS      42 11.50
TSM      5.77  301 eP     42 32.10  -14.6X
         0.2s    65.30nm
DAV      6.34   24 eP     42 55.00    0.3
AAI      7.11  134 eP     43 15.00    9.3X
MKS      7.34  209 iPc    43 16.00    7.2X
KKM      8.31  305 eP     43 23.00    0.5
MTN     16.14  150 eP     45 12.40    4.7X
IPM     22.22  279 eP     46 21.50    3.9X
MBL     22.48  188 eP     46 19.90   -0.2
SNG     23.11  285 eP     46 27.30    1.0
WB5     23.76  153 eP     46 32.90    0.4
WRA     23.80  153 Pc     46 32.90   -0.1
         0.7s     7.80nm          4.4mb
PSI     24.14  274 ePc    46 38.50    2.3
PMG     26.25  114 eP     46 56.00   -0.4
OIS     27.07  144 ePd    47 04.00    0.1

MEKA    28.03  189 eP     47 11.90   -0.6
CHG     29.37  308 eP     47 24.50   -0.2
KMI     30.78  322 eP     47 37.50    0.1
      Z  16s     0.50um          4.3MszX
MRWA    31.03  192 eP     47 38.10   -1.2
MUN     33.67  190 eP     48 01.00   -1.3
CD2     34.70  330 eP     48 13.20    1.9
XAN     35.20  339 P      48 14.60   -0.9
TIY     37.58  346 Pc     48 35.10   -0.5
      Z  20s     0.60um          4.4Msz
      N  17s     0.50um
LZH     38.97  335 eP     48 47.50    0.1
         1.0s    20.00nm          4.7mb
                   pP     48 52.00   15kmX
BJI     39.12  352 eP     48 47.50   -0.8
         1.5s    13.00nm          4.4mb
GTA     43.49  334 Pd     49 24.80    0.3
CAN     43.73  149 eP     49 28.40    2.1
GUN     44.34  310 P      49 31.40   -0.4
         0.8s    26.00nm          5.1mb
PKI     44.53  309 P      49 32.80   -0.5
DMN     44.78  309 P      49 35.00   -0.3
GKN     45.34  309 P      49 39.00   -0.6
         0.6s    11.00nm          5.0mb
HYB     46.57  293 eP     49 49.00   -0.3
GBA     46.75  287 Pc     49 49.20   -1.4
         0.6s     3.90nm          4.7mb
WMQ     52.76  328 eP     50 35.50   -1.0
                 eS      58 06.00
MAW     80.17  200 eP     53 31.00    0.3
ZOBO   161.46  144 ePKP   01 24.00    1.3
      S.D. = 1.0  on  31 of  36 obs.
-------------------------------------
   MAY  24, 1990  13h 16m 19.91± 1.00s
    1.330 N ± 5.8km  123.037 E ± 7.3km
   DEPTH =  45.6 ± 10.8 km
    4.7mb (  4 obs.)  4.4Msz (  2 obs.)
 MINAHASSA PENINSULA                (265)

MNI      1.81   86 ePc    16 47.50   -1.6
                 eS      17 09.50
TSM      5.73  300 eP     17 44.10   -0.6
DAV      6.25   24 eP     17 51.50   -0.5
AAI      7.17  134 eP     18 07.50    2.6
MKS      7.42  209 iPd    18 13.00    4.7X
KKM      8.26  305 eP     18 21.50    1.4
MTN     16.21  151 eP     20 09.30    3.1X
KNA     17.89  162 eP     20 27.50    0.3
IPM     22.21  279 ePd    21 17.70    3.5X
MBL     22.57  188 eP     21 16.50   -1.1
SNG     23.09  285 eP     21 25.10    2.4X
WB5     23.83  153 eP     21 29.80   -0.1
WRA     23.87  153 Pd     21 30.70    0.4
         0.4s     8.90nm          4.6mb
PSI     24.14  274 ePd    21 35.00    2.1
PMG     26.28  114 eP     21 53.00   -0.2
OIS     27.14  144 eP     22 00.00   -1.0
WARB    27.57  173 eP     22 04.50   -0.4
MEKA    28.12  189 eP     22 08.50   -1.3
MRWA    31.11  192 iPd    22 35.10   -1.3
MUN     33.75  190 eP     22 58.00   -1.4
CD2     34.63  330 eP     23 10.00    3.0X
XAN     35.12  339 P      23 11.00   -0.2
DL2     37.42  358 eP     23 34.00    3.6X
TIY     37.50  346 Pc     23 31.60    0.4
      Z  20s     0.90um          4.6Msz
      N  17s     0.50um
                   S      29 23.00
LZH     38.89  335 Pc     23 44.00    0.9
         1.0s    12.00nm          4.7mb
      Z  16s     0.50um          4.4MszX
                   sP     24 01.50
                   eS     29 44.00
BJI     39.03  352 eP     23 44.00    0.1
      Z  18s     0.29um          4.1Msz
                   eS     29 36.00
SNY     40.32    1 eP     23 53.80   -0.7
BRS     40.42  137 e(P)   23 56.00    0.3
GTA     43.42  334 eP     24 21.40    1.2
CAN     43.80  149 eP     24 25.00    1.8
GUN     44.29  310 P      24 27.20   -0.4
         0.8s    20.00nm          4.9mb
PKI     44.48  309 P      24 29.00   -0.2
DMN     44.73  309 P      24 31.20    0.1
HYB     46.54  293 eP     24 44.00   -1.3
GBA     46.73  287 Pc     24 46.00   -0.7
         0.6s     3.30nm          4.5mb

WMQ     52.68  328 eP     25 31.20   -1.0
      Z  14s     0.30um          4.5MszX
                   eS     33 00.00
MAIO    68.07  309 eP     27 17.00   -0.4
MAW     80.25  200 eP     28 28.00    1.0
ZOBO   161.53  144 PKP    36 20.00    1.7
      S.D. = 1.1  on  33 of  39 obs.
-------------------------------------
?  MAY  24, 1990  14h 10m 22.10± 2.99s
   20.384 S ±20.2km  178.130 W ±18.3km
   DEPTH = 545.9 ± 34.6 km
   4.1mb (  2 obs.)
 FIJI ISLANDS REGION                (181)

DZM     14.48  261 iPc    13 26.40    0.1
WB5     44.48  262 eP     17 46.90    0.2
WRA     44.49  262 Pd     17 46.60   -0.2
         0.7s     2.80nm          3.9mb
RKG     58.40  242 eP     19 27.50   -0.1
MUN     59.27  244 eP     19 33.00   -0.4
MRWA    59.78  247 eP     19 37.00    0.2
SPA     69.74  180 eP     20 38.90    0.1
         1.0s     9.50nm          4.3mb
PRS     77.82   44 eP     21 24.50    0.0
CMB     79.46   43 eP     21 32.90   -0.2
EKA    144.90    5 PKPc   28 58.30    0.3
         0.7s     4.70nm
SSF    153.36  358 ePKP   29 34.50   23.3X
         1.1s     9.75nm
LBF    153.41  357 ePKP   29 34.70   23.4X
         1.1s     9.75nm
AVF    153.63  358 ePKP   29 34.00   22.5X
SMF    153.76  357 ePKP   29 36.80   25.1X
         0.8s     3.35nm
TCF    154.16  359 ePKP   29 37.80   25.5X
LSF    154.20    1 ePKP   29 37.90   25.6X
         0.6s     5.85nm
MAF    154.22  359 ePKP   29 38.50   26.1X
         0.7s     6.05nm
      S.D. = 0.3  on  10 of  17 obs.
-------------------------------------
%  MAY  24, 1990  14h 40m 09.93± 0.79s
   31.438 N ± 8.9km   36.330 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 DEAD SEA REGION                    (373)

CSTJ     0.43  137 Pc     40 19.80    1.1
MKRJ     0.60  281 Pd     40 21.20   -0.9
KFNJ     0.70  307 P      40 24.10    0.4
LISJ     0.75  255 Pd     40 24.00   -0.6
SALJ     0.79  316 Pd     40 25.80    0.4
BURJ     0.92  331 Pd     40 28.50    1.0
QTFJ     1.05   68 Pd     40 28.50   -1.3
      S.D. = 1.1  on   7 of   7 obs.
-------------------------------------
   MAY  24, 1990  15h 12m 17.14± 0.80s
   32.944 N ± 7.5km   46.801 E ± 3.0km
   DEPTH =  58.6 ±  6.8 km
   4.9mb ( 30 obs.)
 IRAN-IRAQ BORDER REGION            (346)

BHD      2.05  280 iPnd   12 50.50    0.7
                 iP*     12 53.50
                 iPg     12 56.50
                 iSn     13 19.00
                 iS*     13 22.00
SLY      2.86  338 iPnd   13 01.70    0.5
                 iP*     13 06.00
                 iPg     13 12.50
                 iSn     13 39.00
                 iS*     13 46.00
MSL      4.56  320 ePnd   13 23.00   -2.2
                 eP*     13 35.00
                 iPg     13 44.00
                 iSn     14 15.00
                 iSg     14 42.00
TEH      4.71   52 ePd    13 27.00   -0.4
TAB      5.13  356 eP     13 33.00   -0.3
MAIO    10.98   69 eP     14 53.00   -1.1
                 eS      16 36.00
BBTK    13.23  305 eP     15 25.00    1.0
HLW     13.56  261 eP     15 28.00   -0.2
                 eS      19 36.00
ALT     14.81  299 eP     15 46.00    1.3
KHL     15.03  296 eP     15 50.00    2.5
HRT     15.79  305 eP     16 01.00    3.9X
YLV     15.89  304 iP     16 02.40    4.0X
```

24d 15h

QUE	17.39	94	eP	16 19.80	2.4
ALN	18.37	302	ePd	16 29.20	0.0
RDO	18.81	302	eP	16 34.60	0.0
VAM	18.86	284	eP	16 34.80	-0.4
KDZ	19.07	303	eP	16 37.00	-0.5
RZN	19.57	303	eP	16 41.00	-2.2
OUR	19.71	298	eP	16 44.40	0.0
PVL	19.72	308	eP	16 44.00	-0.4
PAIG	19.83	297	ePc	16 45.80	0.1
VLI	19.93	288	eP	16 44.70	-2.1
SRS	20.20	300	ePd	16 49.00	-0.6
MMB	20.24	302	iPd	16 50.00	0.0
PGB	20.25	305	iPc	16 50.00	-0.1
SOH	20.30	299	ePd	16 50.50	-0.1
MLR	20.38	314	iPc	16 53.50	2.0
THE	20.53	299	ePc	16 52.70	-0.2
KNT	20.72	300	ePd	16 56.20	1.3
LIT	20.76	297	ePd	16 55.10	-0.2
ITM	20.78	289	eP	16 53.80	-1.7
KKB	20.79	302	iPc	16 54.00	-1.6
VAY	21.00	300	P	16 57.00	-0.7
GRG	21.03	299	ePd	16 58.60	0.6
FNA	21.74	298	ePc	17 05.60	0.4
SKO	21.99	301	iP	17 09.60	2.0
OHR	22.24	299	eP	17 10.50	0.3
	0.9s	66.00nm		5.1mb	
IGT	22.29	295	ePd	17 09.70	-0.9
BZS	23.13	311	eP	17 19.50	0.8
LCI	24.22	296	P	17 28.00	-1.3
KSH	24.36	66	P	17 33.00	2.1
BRT	24.87	297	P	17 36.00	0.4
TDS	25.37	294	P	17 45.00	4.7X
SOI	25.48	290	P	17 42.00	0.7
BUD	25.53	313	eP	17 42.70	1.0
SPC	25.58	317	eP	17 42.80	0.4
ATN	25.95	290	P	17 47.00	1.3
MGR	26.02	295	P	17 47.00	0.7
SRO	26.11	313	iP	17 50.30	3.3X
KRA	26.19	319	eP	17 47.90	0.1
	1.0s	50.00nm		5.0mb	
		e		17 55.20	
SGO	26.25	296	P	17 49.00	0.6
NDI	26.42	91	eP	17 56.00	5.9X
ZST	27.01	313	eP	17 58.70	3.4X
DUI	27.03	298	P	17 58.00	2.3
SDI	27.52	298	P	18 00.00	0.0
KSP	28.61	318	eP	18 10.00	0.2
PRU	29.26	315	eP	18 13.50	-2.1
		e		18 19.50	
SFI	29.29	302	P	18 18.00	2.1
PGD	29.37	302	P	18 19.00	2.1
KHC	29.52	313	eP	18 17.50	-0.5
CTI	29.86	306	P	18 21.00	-0.1
BRG	29.97	317	e(P)	18 22.00	0.1
	1.0s	10.00nm		4.5mb	
MME	30.15	302	P	18 24.50	0.6
SQTA	30.45	308	iPc	18 25.60	-0.7
	0.5s	12.50nm		4.9mb	
		id		18 25.90	
		i		18 32.80	
		i		18 38.50	
FUR	30.66	310	iPc	18 28.10	0.1
	0.9s	37.00nm		5.1mb	
CLL	30.69	317	e(P)	18 28.00	-0.2
BOB	31.13	303	P	18 33.20	0.9
GRF	31.16	313	iPc	18 32.70	0.3
	0.9s	15.00nm		4.7mb	
NUR	31.16	339	eP	18 32.00	-0.3
CKI	31.90	302	P	18 38.00	-1.0
SBF	32.44	301	eP	18 43.70	0.0
	0.8s	32.25nm		5.2mb	
HYB	32.47	111	iP	18 44.00	-0.2
	1.0s	35.00nm		5.1mb	
SUF	32.55	342	iP	18 44.80	0.4
	0.5s	22.60nm		5.3mb	
DOI	32.65	302	P	18 44.00	-1.6
GKN	32.86	88	P	18 47.20	-0.5
	0.6s	30.00nm		5.3mb	
FRF	32.98	301	eP	18 48.20	-0.1
UPP	33.09	333	iP	18 48.50	-0.6
BNI	33.12	303	Pd	18 49.70	0.0
LPL	33.14	304	eP	18 49.70	-0.3
DMN	33.38	89	P	18 52.00	-0.3
	0.5s	19.00nm		5.2mb	
BSF	33.50	308	eP	18 52.30	-0.7
	1.1s	14.65nm		4.8mb	
WMQ	33.54	59	Pc	18 53.50	0.2
PKI	33.65	89	P	18 54.20	-0.5
	0.6s	23.00nm		5.2mb	
HAU	33.83	308	eP	18 54.90	-0.8
	0.6s	3.60nm		4.5mb	
GBA	33.90	117	Pc	18 55.60	-1.0
	0.9s	5.30nm		4.5mb	
GUN	33.93	88	P	18 57.00	-0.2
	0.6s	30.00nm		5.4mb	
SMF	35.29	306	eP	19 07.60	-0.6
	0.8s	26.85nm		5.2mb	
LOR	35.36	307	eP	19 07.90	-0.9
	0.9s	6.55nm		4.6mb	
DOU	35.39	312	P	19 09.60	0.6
SSF	35.57	306	iPc	19 10.00	-0.6
	0.9s	15.55nm		4.9mb	
AVF	35.64	306	eP	19 10.40	-0.7
	1.0s	12.00nm		4.8mb	
BGF	35.96	305	eP	19 13.30	-0.6
MAF	36.12	305	eP	19 15.10	-0.1
NB2	36.33	331	P	19 16.40	-0.4
	0.8s	6.10nm		4.6mb	
TCF	36.37	305	eP	19 17.00	-0.3
	0.9s	5.75nm		4.5mb	
SOD	36.44	347	iP	19 18.00	0.4
MFF	38.02	305	eP	19 30.40	-0.7
	1.0s	12.00nm		4.8mb	
LDF	38.18	308	eP	19 31.40	-1.1
FLN	38.44	309	eP	19 33.80	-0.8
KEV	38.48	349	eP	19 36.00	1.3
GRR	38.65	308	eP	19 35.70	-0.7
LPF	38.74	307	eP	19 36.30	-0.8
	1.0s	12.00nm		4.7mb	
EKA	41.12	318	Pc	19 56.90	0.2
	0.9s	7.40nm		4.4mb	
ASMO	41.17	291	iPc	19 57.50	0.1
APHE	41.19	290	iPc	19 59.00	1.3
ATEJ	41.45	290	eP	20 00.00	0.1
ALOJ	41.49	291	iPc	19 59.50	-0.6
LZH	46.53	69	Pd	20 41.00	0.2
	1.5s	36.00nm		5.1mb	
CD2	47.88	76	eP	20 50.20	-1.1
CHG	48.52	93	eP	20 56.00	-0.4
XAN	51.09	71	P	21 15.90	0.0
DL2	59.32	61	eP	22 15.40	0.3
	1.0s	30.00nm		5.4mb	
CN2	60.45	55	P	22 21.60	-1.2
MBC	70.73	357	ePc	23 28.90	0.6
	0.8s	5.00nm		4.5mb	
FRB	71.05	335	eP	23 31.00	0.6
FBA	81.81	6	iP	24 32.10	1.4
	1.0s	11.00nm		4.8mb	
YKA	83.72	351	eP	24 40.90	0.3
	1.1s	3.10nm		4.2mb	
SPA	122.77	180	ePKP	31 08.00	0.9
	1.0s	4.50nm			
	S.D. = 1.0	on 112 of 118 obs.			

---

* MAY 24, 1990 15h 49m 24.92± 1.36s
36.586 N ±12.0km 70.990 E ± 9.2km
DEPTH = 173.0 ± 16.8 km
4.4mb (7 obs.)
HINDU KUSH REGION (718)

QUE	7.22	209	eP	51 10.50	1.5
MAIO	9.27	272	eP	51 34.00	-2.0
			eS	53 12.00	
NDI	9.47	145	iPd	51 39.00	0.5
	0.7s	47.95nm		5.1mb	
GKN	14.36	123	P	52 41.60	0.0
DMN	14.93	123	P	52 48.40	-0.4
PKI	15.16	122	P	52 52.40	0.7
GUN	15.27	120	P	52 51.80	-1.3
HYB	20.23	159	eP	53 49.00	0.7
	1.0s	40.00nm		4.8mb	
		eS		57 28.00	
GBA	23.60	164	Pc	54 21.20	0.0
	0.5s	14.30nm		4.8mb	
NUR	37.75	324	eP	56 25.00	-0.2
SUF	37.85	328	eP	56 26.00	0.1
SOD	39.66	335	eP	56 42.00	1.2
NB2	44.31	323	P	57 18.60	-0.2
	0.8s	4.40nm		4.1mb	
MBC	67.25	3	eP	00 03.00	1.0
	0.6s	2.00nm		4.1mb	
YKA	81.16	3	eP	01 22.60	0.8
	0.5s	1.00nm		3.8mb	
WB5	82.02	122	eP	01 25.50	-1.5
WRA	82.04	122	Pd	01 26.00	-1.1
	0.6s	4.80mb		4.4mb	
	S.D. = 1.1	on 17 of 17 obs.			

MAY 24, 1990 16h 58m 21.33± 0.81s
44.621 N ± 7.4km 9.171 E ± 6.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

BOB	0.25	53	Pd	58 26.50	-0.1
			eSg	58 31.50	
PCP	0.45	260	P	58 30.06	-0.5
			S	58 36.63	
FIN	0.80	240	P	58 36.83	-0.1
			S	58 48.31	
RO8	0.99	251	P	58 39.60	-0.5
			S	58 53.44	
IMI	1.16	233	P	58 43.19	0.1
ENR	1.31	253	P	58 45.96	0.3
			S	59 03.41	
ORX	1.32	321	P	58 45.34	-0.4
			S	59 01.44	
STV	1.38	255	P	58 47.13	0.5
RSP	1.46	292	P	58 48.31	0.5
LSD	1.66	301	P	58 51.08	0.3
	S.D. = 0.4	on 10 of 10 obs.			

---

* MAY 24, 1990 17h 16m 13.62± 3.11s
40.701 N ±19.4km 30.251 E ±24.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GPA	0.41	174	iPg	16 22.10	0.0
			iSg	16 28.40	
HRT	0.46	285	ePg	16 22.80	-0.2
			eSg	16 28.80	
GBZT	0.62	278	ePg	16 27.00	0.9
			iSg	16 33.00	
YLV	0.68	259	iPg	16 26.80	-0.4
			iSg	16 35.80	
ISK	0.97	292	ePg	16 31.80	-0.3
			eSg	16 44.80	
CTT	1.45	288	iPn	16 39.80	-0.1
	S.D. = 0.6	on 6 of 6 obs.			

MAY 24, 1990 17h 18m 39.96± 0.51s
37.763 N ± 4.9km 20.850 E ± 3.1km
DEPTH = 50.1 ± 6.9 km
4.4mb (9 obs.)
IONIAN SEA (399)
MD 4.2 (ATH).

ITM	1.04	124	ePg	18 55.50	-2.9
AGG	1.71	42	ePc	18 55.50	-12.4X
			eS	19 10.30	
IGT	1.81	347	ePd	19 10.10	0.8
			eS	19 34.20	
VLI	1.97	121	ePg	19 13.00	1.6
KEK	2.11	337	ePn	19 14.00	0.5
ATH	2.28	84	ePb	19 17.00	1.2
NEO	2.42	50	ePn	19 18.50	0.7
LIT	2.66	28	ePd	19 22.10	0.8
			iS	19 55.50	
FNA	3.04	8	ePd	19 27.50	0.6
			eS	20 04.80	
PAIG	3.09	45	eP	19 27.60	0.2
THE	3.30	29	eP	19 31.40	1.0
			eS	20 10.80	
OHR	3.34	359	iPnc	19 32.40	1.3
			eSn	20 29.50	
			Lg	20 31.10	
GRG	3.41	20	ePc	19 33.30	1.3
			eS	20 12.90	
LCI	3.42	320	P	19 32.80	0.8
OUR	3.54	43	ePc	19 33.70	-0.1
VAM	3.58	130	ePn	19 33.30	-1.0
SOH	3.62	32	ePc	19 36.00	1.0
KNT	3.75	24	ePc	19 37.10	0.4
			eS	20 21.80	
VAY	3.79	20	iPn	19 37.70	0.4
SOI	3.80	276	P	19 37.50	0.0
			eSn	20 19.00	
			eTT	22 53.00	
SRS	3.97	32	ePc	19 40.10	0.3
TDS	4.00	300	P	19 42.00	1.7
			eSn	20 27.30	

ORI	4.13	305	P	19 45.70	3.6X
BRT	4.20	319	P	19 44.50	1.4
SKO	4.23	6	iPnc	19 43.70	0.2
			iPg	19 59.00	
			iSn	20 33.00	
			iSg	20 55.00	
			LR	21 30.00	
ATN	4.28	277	P	19 43.60	-0.6
ULC	4.37	344	ePn	19 44.00	-1.5
			eSn	20 32.50	
MMB	4.42	29	iPc	19 47.00	0.8
KKB	4.44	22	iPd	19 46.00	-0.5
BAI	4.55	319	P	19 50.00	2.0
SMG	4.75	89	ePn	19 52.50	1.7
EZN	4.75	63	eP	19 49.70	-1.1
MEU	4.76	264	P	19 49.20	-1.9
			eSn	20 41.90	
MGR	4.76	302	P	19 51.40	0.4
TTG	4.82	346	ePn	19 51.10	-0.7
			eSn	20 46.20	
MNO	4.87	274	P	19 51.00	-1.9
RZN	4.92	36	iPc	19 53.00	-0.5
RDO	4.96	46	ePn	19 52.70	-1.1
HCY	5.01	340	ePn	19 52.20	-2.4
			eSn	20 45.00	
IZM	5.10	81	eP	20 00.80	4.9X
ALN	5.10	51	ePc	19 55.50	-0.3
SGO	5.13	305	P	19 57.50	1.3
VTS	5.15	20	iP	19 57.00	0.4
IVA	5.15	352	ePn	19 55.00	-1.6
			eSn	20 55.00	
PLD	5.25	33	eP	19 58.00	0.1
PGB	5.41	27	eP	19 55.00	-5.2X
BRY	5.43	342	ePn	19 56.00	-4.5X
			eSn	20 55.00	
BSS	5.58	305	P	20 03.10	0.6
DIM	5.59	39	eP	20 03.00	0.3
PLE	5.67	349	ePn	20 03.00	-0.9
			eSn	21 05.00	
EDC	6.04	63	eP	20 08.00	-0.9
DUI	6.28	310	P	20 12.50	0.1
HVAR	6.36	330	iPn	20 10.60	-2.9X
			iSn	21 20.90	
PVL	6.43	31	iPd	20 12.00	-2.4
JMB	6.43	41	eP	20 13.00	-1.4
SDI	6.70	308	P	20 18.00	-0.3
KSL	7.18	101	ePn	20 27.00	2.0
YLV	7.19	64	eP	20 25.00	-0.1
ELL	7.30	95	eP	20 33.00	6.3X
MNS	7.78	309	P	20 34.00	0.7
GPA	7.78	68	eP	20 35.00	1.7
BZS	7.87	4	eP	20 33.00	-1.4
ASS	8.19	313	P	20 39.00	0.0
MLR	8.61	25	eP	20 45.00	0.2
VBY	8.79	333	ePn	20 47.30	0.1
			eSn	22 19.90	
ZAG	8.83	337	iP	20 45.80	-1.8
PTJ	8.91	337	eP	20 45.80	-3.1X
SFI	9.18	315	P	20 53.50	1.0
VRI	9.21	27	ePd	20 52.00	-0.9
CEY	9.30	331	eP	20 52.40	-1.8
			eS	22 32.50	
LJU	9.52	332	eP	20 55.00	-2.1
			eS	22 37.00	
TRI	9.54	329	e(Pn)	20 59.30	1.9
			i(Sn)	22 36.90	
VOY	9.75	330	eP	20 57.50	-2.9X
			eS	22 45.20	
FVI	10.66	328	P	21 14.50	1.8
CTI	10.74	323	P	21 13.00	-1.0
ZST	10.78	346	eP	21 02.50	-11.9X
			e	21 40.20	
SPC	11.43	358	eP	21 21.00	-2.3
SQTA	11.82	326	e(P)	21 29.50	1.0
			e(S)	23 27.00	
			i	23 36.40	
KHC	12.52	337	eP	21 30.00	-7.8X
			e	21 40.40	
PRU	13.03	342	eP	21 42.50	-2.0
			e	21 47.50	
GRF	13.79	333	iPc	22 04.10	9.7X
	1.2s		37.00nm	5.0mb	
BRG	14.00	342	eP	22 06.40	9.3X
MOX	14.47	336	e(P)	22 07.00	3.8X
CLL	14.64	340	eP	22 12.00	6.5X
	1.4s		13.00nm	4.1mb	
MEM	16.64	325	Pc	22 40.20	9.2X

DOU	16.96	322	P	22 40.30	5.3X
			S	26 02.00	
UPP	22.21	356	iP	23 32.80	-0.4
NUR	22.89	5	eP	23 40.00	0.1
	0.5s		11.20nm	4.6mb	
			i	23 44.80	
EKA	23.92	325	Pc	23 51.50	1.6
	0.8s		8.60nm	4.3mb	
NB2	24.08	348	P	23 51.60	0.2
	0.6s		4.40nm	4.2mb	
SUF	25.20	6	iP	24 03.00	0.9
	0.6s		6.60nm	4.3mb	
SOD	29.84	4	eP	24 44.00	-0.2
GKN	53.53	81	P	27 57.40	-0.6
	0.6s		8.00nm	4.9mb	
DMN	54.08	81	P	28 01.80	-0.4
GUN	54.55	80	P	28 04.20	-1.5
YKA	73.87	340	eP	30 12.00	1.2
	0.8s		0.80nm	3.7mb	
FFC	75.67	330	eP	30 23.00	1.7
	1.1s		13.00nm	4.8mb	
S.D. = 1.2 on 80 of 97 obs.					

MAY 24, 1990 17h 21m 19.75± 0.88s
38.814 N ± 6.4km 25.614 E ± 9.2km
DEPTH = 33.0km (normal)
AEGEAN SEA (365)
ML 3.4 (ATH).

EZN	1.15	28	iPg	21 39.70	0.1
IZM	1.36	107	ePn	21 42.80	0.2
SMG	1.46	139	ePn	21 46.30	2.2
			eSn	22 05.50	
ATH	1.71	241	ePb	21 52.50	4.8X
KGT	2.09	38	iPn	21 54.30	1.1
CIN	2.29	121	ePn	21 55.00	-1.0
EDC	2.32	48	ePn	21 55.80	-0.6
RDO	2.33	359	ePn	21 56.00	-0.5
YER	2.69	128	ePn	22 00.00	-1.8
VLI	2.98	226	ePn	22 05.80	0.0
KHL	3.10	98	ePn	22 07.90	0.3
CTT	3.18	42	ePn	22 10.00	1.4
YLV	3.39	58	ePn	22 17.00	5.3X
DMK	3.42	28	ePn	22 11.00	-1.1
ISK	3.47	49	ePn	22 20.00	7.2X
ITU	3.47	48	ePn	22 22.50	9.7X
			iS	23 07.00	
ALT	3.51	85	ePn	22 13.00	-0.5
GBZT	3.55	55	ePn	22 24.00	10.1X
			iSg	23 12.50	
SRO	10.44	332	eP	23 14.60	-35.6X
S.D. = 1.2 on 13 of 19 obs.					

---

* MAY 24, 1990 18h 02m 13.54± 1.01s
19.978 S ± 9.9km 68.585 W ±10.7km
DEPTH = 119.4 ± 11.1 km
5.0mb (5 obs.)
CHILE-BOLIVIA BORDER REGION (124)

LPB	3.46	8	P	03 07.00	-0.1
ZOBO	3.71	7	P	03 13.00	2.3
ANT	4.08	204	iPd	03 14.70	-0.3
SIV	8.17	62	iPc	04 10.00	-1.0
PT03	9.11	310	eP	04 21.80	-1.8
			eS	05 49.80	
NNA	11.23	314	eP	05 00.20	8.4X
	0.6s		6.67nm	4.5mb	
			eS	06 53.50	
BAO	20.07	81	eP	06 40.00	0.1
LIC	67.68	74	Pc	12 59.80	-0.5
TIC	67.86	74	P	13 01.00	-0.4
KIC	67.99	74	Pc	13 01.80	-0.4
	0.3s		20.00nm	5.5mb	
LKO	68.58	71	Pc	13 05.24	-0.6
	0.5s		31.00nm	5.4mb	
SPA	70.15	180	iPd	13 16.90	2.1
	1.0s		19.50nm	4.9mb	
KVN	74.79	322	eP	13 43.00	0.4
			epP	14 15.00	128kmX
YKA	89.86	340	eP	14 59.70	0.1
	0.5s		1.50nm	4.3mb	
WRA	134.41	211	PKP	21 22.00	2.2X
	0.5s		0.70nm		
GBA	146.90	96	PKPc	21 44.90	2.8X
	0.5s		2.60nm		
S.D. = 1.3 on 13 of 16 obs.					

MAY 24, 1990 18h 51m 49.39± 0.56s
37.676 N ± 5.4km 20.929 E ± 3.8km
DEPTH = 18.7 ± 3.8 km
4.2mb (3 obs.)
IONIAN SEA (399)
ML 4.0 (ATH).

VLS	0.57	332	ePg	51 58.50	-2.0
ITM	0.94	122	iPgc	52 06.50	-0.3
AGG	1.74	39	eP	52 21.50	2.6
			eS	52 44.70	
VLI	1.87	120	ePb	52 22.50	1.8
IGT	1.91	346	ePd	52 22.70	1.3
			iS	52 48.40	
KEK	2.22	337	ePb	52 28.00	2.2
ATH	2.23	82	ePb	52 28.00	2.1
NEO	2.43	47	ePn	52 28.00	-0.8
LIT	2.71	26	ePd	52 33.20	0.4
			iS	53 06.40	
PAIG	3.11	43	eP	52 38.30	-0.1
FNA	3.12	6	iPd	52 39.10	0.4
			eS	53 16.20	
THE	3.35	28	ePc	52 42.40	0.6
			eS	53 22.70	
OHR	3.43	358	iPn	52 43.00	-0.1
			iSn	53 35.50	
			Lg	53 36.60	
GRG	3.47	19	ePc	52 43.90	0.3
			eS	53 26.20	
VAM	3.47	130	ePn	52 44.50	0.9
LCI	3.52	320	P	52 46.50	2.2
OUR	3.56	41	ePd	52 44.90	0.0
			eS	53 26.90	
SOH	3.66	30	ePc	52 47.30	0.9
			eS	53 29.40	
KNT	3.80	23	ePc	52 48.40	0.1
			eS	53 33.50	
VAY	3.85	19	iPn	52 49.30	0.3
SOI	3.88	277	P	52 48.00	-1.3
			eSn	53 31.50	
			eTT	56 01.00	
SRS	4.01	30	ePd	52 51.10	-0.1
			eS	53 38.90	
TDS	4.10	300	P	52 52.20	-0.4
ORI	4.23	306	P	52 58.30	3.9X
SKO	4.31	5	iPn	52 55.00	-0.5
			iPg	53 08.00	
			iSn	53 44.50	
			LR	54 43.00	
BRT	4.31	319	P	52 56.50	1.0
ATN	4.35	278	P	52 56.30	0.2
			eSn	53 43.70	
MMB	4.47	28	ePc	52 58.00	0.3
KKB	4.50	21	iPd	52 58.00	-0.2
SMG	4.69	88	ePn	53 01.80	0.9
MEU	4.81	265	P	52 59.90	-2.8
MGR	4.86	302	P	53 03.60	0.3
			eSn	53 59.00	
RZN	4.96	35	iPc	53 04.00	-0.8
RDO	4.97	44	ePn	53 04.00	-0.9
ALN	5.11	49	eP	53 05.60	-1.2
VTS	5.21	19	iP	53 09.00	0.6
KDZ	5.27	40	eP	53 07.00	-2.1
PLD	5.29	32	eP	53 09.00	-0.4
PGB	5.46	26	eP	53 10.00	-1.9
BSS	5.68	305	P	53 15.00	0.1
KSL	7.11	100	ePn	53 34.70	-0.3
ELL	7.23	95	eP	53 42.50	5.7X
MLR	8.66	24	eP	53 56.00	-0.8
VBY	8.90	333	eP	54 00.70	0.8
PTJ	9.01	337	eP	54 02.40	0.8
FVI	10.76	328	P	54 27.50	2.0
KHC	12.63	337	eP	54 52.20	1.5
			e	55 27.00	
PRU	13.14	342	eP	55 04.00	6.5X
GRF	13.90	333	eP	55 15.40	7.9X
			e	55 17.00	
CLL	14.74	340	eP	55 24.00	5.4X
	1.5s		12.00nm	4.1mb	
UPP	22.30	356	iP	56 47.20	0.3
NUR	22.98	5	eP	56 53.00	-0.5
EKA	24.02	325	Pd	57 03.10	-0.6
	0.8s		7.80nm	4.3mb	
NB2	24.17	348	P	57 03.50	-1.7
	1.2s		6.60nm	4.1mb	
SUF	25.28	6	eP	57 14.00	-1.7
S.D. = 1.2 on 50 of 55 obs.					

MAY 24, 1990 19h 02m 23.81± 0.62s
37.743 N ± 6.4km 20.925 E ± 5.1km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
IONIAN SEA (399)
ML 3.5 (ATH).

VLS	0.51	329	iPgc	02 33.00	-1.1
			eSg	02 40.90	
ITM	0.98	125	ePg	02 42.30	0.0
VLI	1.90	122	ePg	03 01.50	4.9X
KEK	2.16	336	ePb	03 02.00	1.7
ATH	2.22	83	ePg	03 05.00	3.8X
NEO	2.39	48	ePn	03 04.20	0.6
OHR	3.37	358	ePn	03 18.00	0.5
LCI	3.47	319	P	03 26.00	7.1X
VAM	3.52	131	ePn	03 19.50	-0.1
VAY	3.79	19	ePn	03 23.40	-0.1
SOI	3.87	276	P	03 23.00	-1.6
			eSn	04 05.50	
TDS	4.07	299	P	03 29.00	1.6
ORI	4.19	305	P	03 29.00	-0.2
SKO	4.24	5	ePn	03 29.20	-0.7
ATN	4.34	277	P	03 32.50	1.2
MMB	4.41	29	ePd	03 32.00	-0.3
MGR	4.82	301	P	03 37.00	-1.2
RZN	4.91	35	iPc	03 39.00	-0.5
VTS	5.15	19	eP	03 43.00	0.1
NB2	24.11	348	P	07 36.60	-3.7X
	0.7s		1.50nm		3.7mb

S.D. = 1.0 on 16 of 20 obs.

---

* MAY 24, 1990 19h 02m 28.28± 1.14s
13.749 N ±10.1km 120.681 E ±13.2km
DEPTH = 78.3 ± 13.1 km
4.9mb (7 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

QCP	0.96	23	eP	02 46.00	-1.0
BAG	2.65	358	eP	03 11.20	1.4
BJI	26.49	352	eP	08 00.00	0.0
			e	08 13.00	
MBL	34.70	181	eP	09 13.00	0.3
GUN	35.30	299	P	09 18.40	0.1
	0.4s		17.00nm		5.3mb
PKI	35.61	298	P	09 20.40	-0.5
	0.4s		14.00nm		5.2mb
DMN	35.88	298	P	09 22.80	-0.3
	0.4s		12.00nm		5.2mb
WB5	36.03	158	eP	09 23.80	-0.2
WRA	36.08	158	Pc	09 24.70	0.3
	0.8s		4.10nm		4.4mb
GKN	36.39	299	P	09 26.80	-0.4
	0.6s		17.00nm		5.2mb
GBA	41.98	275	Pd	10 13.70	0.2
	0.6s		4.90nm		4.5mb
YKA	92.74	22	eP	15 32.60	-0.2
	0.5s		0.40nm		4.1mb

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

MAY 24, 1990 19h 09m 49.98± 1.09s
37.747 N ± 7.5km 20.883 E ± 9.6km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
IONIAN SEA (399)
ML 3.8 (ATH).

VLS	0.49	332	iPgd	09 59.00	-0.9
ITM	1.01	124	ePb	10 09.00	0.0
AGG	1.71	41	ePd	10 21.80	1.8
			eS	10 40.70	
IGT	1.83	347	eP	10 23.00	1.2
			eS	10 44.90	
VLI	1.93	121	ePb	10 23.70	0.5
KEK	2.14	337	ePg	10 34.00	7.8X
ATH	2.25	83	ePb	10 29.80	1.9
NEO	2.41	49	ePn	10 30.00	-0.1
LIT	2.66	28	ePd	10 33.70	0.0
			eS	11 06.20	
FNA	3.06	7	eP	10 39.30	0.0
THE	3.30	29	ePd	10 42.90	0.2
OHR	3.36	359	ePn	10 43.20	-0.4
			eSn	11 34.50	
			Lg	11 37.00	
GRG	3.41	20	eP	10 45.20	0.9
LCI	3.45	319	P	10 54.00	9.3X
OUR	3.53	42	eP	10 45.30	-0.7
VAM	3.55	130	ePn	10 44.60	-1.6
SOH	3.62	31	ePc	10 47.30	0.0
KNT	3.75	24	ePd	10 48.80	-0.3
VAY	3.80	20	ePn	10 49.50	-0.3
SRS	3.97	31	ePc	10 51.30	-0.8
TDS	4.04	300	P	11 15.50	22.4X
BRT	4.23	319	P	11 13.00	17.1X
SKO	4.24	6	ePn	10 55.00	-1.1
			iSn	11 40.00	
			LR	12 42.00	
ALN	5.09	50	ePc	11 07.60	-0.5
VRI	9.21	26	ePc	12 04.00	-1.8
			ed	39 36.00	
CLL	14.66	340	e(P)	13 21.00	1.8
NB2	24.10	348	P	15 11.40	5.1X
	0.9s		1.90nm		3.7mb

S.D. = 1.1 on 22 of 27 obs.

---

* MAY 24, 1990 19h 29m 09.51± 1.43s
37.590 N ±10.2km 20.920 E ±11.6km
DEPTH = 5.0km (geophysicist)
IONIAN SEA (399)
ML 3.5 (ATH).

VLS	0.64	336	ePg	29 20.50	-1.9
ITM	0.90	117	ePg	29 25.00	-2.2
AGG	1.81	37	ePc	29 20.50	-21.1X
			eS	30 42.00	
IGT	1.99	347	ePc	29 45.10	0.9
			eS	30 07.00	
ATH	2.25	79	ePg	29 53.00	5.1X
KEK	2.29	338	ePb	29 48.50	-0.1
NEO	2.49	46	ePn	29 51.80	0.4
LIT	2.79	26	eP	29 56.70	1.0
PAIG	3.18	42	eP	30 00.90	-0.2
FNA	3.21	6	eP	30 01.90	0.3
VAM	3.42	129	ePn	30 06.40	1.8
THE	3.43	27	eP	30 04.50	-0.2
OHR	3.52	359	eP	30 08.00	2.0
OUR	3.63	40	eP	30 08.20	0.6
SOH	3.74	30	ePd	30 09.10	-0.1
KNT	3.88	23	eP	30 11.50	0.4
SRS	4.09	30	eP	30 13.10	-0.9
SKO	4.40	5	eP	30 17.00	-1.4
ALN	5.17	49	eP	30 29.00	-0.4

S.D. = 1.2 on 17 of 19 obs.

MAY 24, 1990 19h 34m 44.24± 0.19s
5.277 N ± 3.2km 31.829 E ± 3.0km
DEPTH = 16.5km (geophysicist)
5.9mb (49 obs.) 6.6Msz (14 obs.)
SUDAN (557)
Ms 6.7 (PAS), 6.6 (BRK). Felt in the Juba oreo. Also felt in the Kopenguria area, Kenyo and in Ugondo. Depth from broodbond displacement seismograms.
RADIATED ENERGY
No. of sta: 8 Focol mech. M
Energy 2.4±0.6*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 9 No. of sto: 14
Moment Tensor; Scole 10**18 Nm
Mrr=-4.78 Mtt= 4.28
Mff= 0.50 Mrt= 1.16
Mrf= 0.97 Mtf= 1.82
Principol axes:

	Val=	Plg=	Azm=
T	5.22	8	337
N	-0.19	5	247
P	-5.03	80	124

Best Double Couple:Mo=5.1*10**18
NP1:Strike= 74 Dip=37 Slip= -81
NP2: 243 53 -97
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 15S, 42C
Centroid Locotion:
Origin Time 19:34:53.6 0.5
Lat 5.93N 0.04 Lon 31.64E 0.03
Dep 15.0 BDY Holf-durotion 6.7
Moment Tensor; Scole 10**18 Nm
Mrr=-5.58 0.10 Mtt= 5.51 0.12
Mff= 0.07 0.14 Mrt=-1.59 0.49
Mrf= 0.09 0.33 Mtf= 3.06 0.12
Principol Axes:

	Val=	Plg=	Azm=
T	7.04	6	156
N	-1.19	9	247
P	-5.86	79	31

Best Double Couple:Mo=6.4*10**18
NP1:Strike=236 Dip=39 Slip=-104
NP2: 74 52 -79

AAE	7.83	61	eP	36 40.50	0.0
LWI	8.05	202	iPd	36 42.20	-1.4
ARO	12.54	60	iPd	37 45.80	0.9
TAIF	17.94	27	ePc	38 58.00	3.1X
AWKL	18.05	2	iPc	38 56.00	0.0
AGAL	18.07	3	iP	38 56.00	-0.3
			eS	43 56.00	
AGMR	18.17	2	iPc	38 57.00	-0.5
AKSR	18.29	3	iPc	38 58.00	-1.0
AKRL	18.30	3	iPc	38 57.50	-1.6
ASW	18.72	3	iPc	39 04.00	-0.3
			eS	42 36.00	
KMSA	19.41	38	eP+	39 13.30	0.5
WAJH	21.27	12	ePc	39 31.30	-0.8
AFIF	21.67	29	ePc	39 32.00	-4.3X
UQSK	22.75	25	ePc	39 46.00	-1.1
BADA	23.31	7	eP+	39 53.30	0.9
QASM	23.53	27	ePc	39 56.00	1.4
RYD	23.99	35	iPc	40 00.00	1.0
HOL	24.06	7	ePc	40 01.10	1.5
MJMA	24.18	31	eP	40 00.30	-0.6
HLW	24.45	359	iP+	40 04.00	0.6
			e	44 27.00	
KOT	24.52	0	eP	40 04.00	-0.1
MBH	24.53	6	ePd	40 05.50	1.3
PRNI	25.11	6	ePd	40 11.00	1.2
MKT	25.73	7	eP	40 17.00	1.4
DSI	26.37	7	eP	40 21.50	0.1
DHR	27.27	38	iPc	40 30.50	0.8
HRI	28.09	7	e(P)	40 38.00	0.7
PPCY	29.47	1	eP	40 50.00	0.5
CSS	29.57	2	eP	40 50.70	0.2
FAM	29.64	4	eP	40 52.50	1.4
LFK	29.90	3	iP	40 56.10	2.6
BHD	30.21	21	ePd	40 56.50	0.3
			iS	45 41.00	
			esS	46 40.00	
			eSS	47 24.00	
KSL	30.76	356	eP	41 02.50	1.5
BFT	30.83	183	iPd	41 02.00	0.1
SLR	31.02	186	iPd	41 03.50	0.0
	Z 18s		15.12um		5.7Msz
			S	46 12.00	
KSR	31.32	189	iPc	41 14.50	8.2X
ELL	31.37	357	iP	41 08.00	1.5
SHGH	31.72	273	eP	41 09.00	-0.8
			S	06 38.00	
LEGH	31.87	272	eP	41 11.00	0.0
			S	06 39.00	
YER	31.87	355	iP	41 11.20	0.3
KOGH	31.92	273	eP	41 11.30	-0.3
			S	06 37.00	
WEGH	32.01	272	eP	41 12.00	-0.3
			S	06 40.00	
KUK	32.05	273	eP	41 11.30	-1.3
			S	06 34.00	
BCK	32.05	358	iP	41 13.20	0.7
SMG	32.60	353	eP	41 18.00	0.9
MSL	32.65	17	ePc	41 17.00	-0.6
			ePP	42 38.00	
			eSSS	48 32.00	
			e	54 40.50	
SLY	32.70	21	ePc	41 17.50	-0.5
			ePP	42 38.00	
			eS	46 33.00	
			e	47 50.50	
			eSSS	48 55.00	
			eLR	49 51.00	
KHL	32.96	357	eP	41 22.00	1.6
IZM	33.23	353	iP	41 23.80	1.2
ATH	33.37	348	eP	41 26.00	2.2
			e	46 42.00	
SEK	33.65	187	iPd	41 26.50	0.0
			(S)	46 52.00	
ALT	33.66	358	eP	41 26.00	-0.5
B8TK	34.42	1	iPd	41 33.00	0.0
			e	41 40.00	
EZN	34.75	353	eP	41 37.70	2.0
GPA	34.88	358	eP	41 39.00	2.1
EDC	35.10	355	eP	41 39.80	1.1
YLV	35.20	357	iP	41 41.10	1.4

24d 19h

TAB	35.21	20	eP	41	40.00	0.1	VOY	43.48	342	e(P)	42	49.00	0.6	EBAN	46.02	320	iPc	43	08.50	-0.3
KGT	35.26	354	iP	41	42.10	2.1	PSZ	43.70	348	iP	42	51.50	1.4	SAX	46.08	339	ePc	43	08.70	-0.7
TEH	35.26	28	eP	41	46.00	5.7X	EMEL	43.82	318	eP	42	53.60	2.4	RAC	46.11	348	eP	43	11.00	1.8
ITU	35.76	356	iPc	41	48.00	3.7X	IMI	43.87	335	P	42	51.36	-0.2	EJIF	46.15	317	iPc	43	09.70	-0.1
CTT	35.84	356	iP	41	46.70	1.7	SRO	43.94	347	eP	42	52.40	0.5	PLAT	46.17	317	iP	43	13.50	3.5X
KVT	35.85	5	iP	41	45.30	0.2	BOB	43.94	337	P	42	56.30	4.2X	FUR	46.20	341	iPc	43	09.90	-0.2
FAI	35.91	335	P	41	53.50	7.9X	REVF	43.95	334	P	42	50.50	-1.7		0.8s		93.00nm			5.8mb
ATN	35.96	338	P	41	47.50	1.4	UZH	43.96	351	eP	42	55.50	3.4X	EPRU	46.28	318	iPc	43	11.00	0.1
KAS	35.98	2	eP	41	47.00	0.7	FIN	43.98	335	P	42	51.88	-0.5	KHC	46.36	343	P	43	10.90	-0.5
MNO	36.06	337	P	41	51.00	3.9X	LMR	44.00	333	eP	42	51.80	-0.7		1.2s		220.00nm			6.0mb
RDO	36.16	352	eP	41	50.00	2.4	SBF	44.02	335	eP	42	51.60	-1.2				S	49	56.00	
HVD	36.19	189	iPd	42	05.00	16.8X	AURF	44.09	334	P	42	52.90	-0.4	ALJ	46.37	318	iP	43	13.50	1.8
MCT	36.23	335	P	41	53.20	4.6X	PCP	44.11	336	P	42	51.47	-2.0	CNIL	46.50	317	iP	43	15.00	2.4
GIB	36.38	336	P	41	52.70	3.0X	FRF	44.12	334	eP	42	52.70	-0.8	WET	46.58	343	iPd	43	12.10	-1.0
KIC	36.39	274	Pd	41	49.70	-0.3	CKI	44.12	336	P	42	52.80	-0.7		1.7s		446.00nm			6.2mb
	2.0s	1041.00nm				6.4mb	AUTN	44.13	335	P	42	53.70	-0.2	ETOR	46.61	324	eP	43	13.00	-0.5
KDZ	36.67	352	eP	41	53.00	1.0	ACU	44.16	323	eP	42	55.90	2.0	ZLA	46.62	338	ePc	43	12.70	-0.7
TIC	36.67	274	Pd	41	52.06	-0.3	LRG	44.17	333	eP	42	53.10	-0.7	EHOR	46.77	319	eP	43	14.10	-0.5
	1.8s	988.50nm				6.3mb		1.2s		142.80nm			5.7mb	EPF	46.78	328	eP	43	14.30	-0.5
LIC	36.68	273	Pd	41	52.04	-0.4	CALN	44.17	334	P	42	52.30	-1.8		1.6s		291.50nm			6.1mb
	1.9s	966.00nm				6.3mb	MVIF	44.17	334	P	42	56.10	2.0	SLE	46.82	339	ePc	43	14.00	-1.0
		S		47	33.00		ROB	44.19	335	P	42	53.93	-0.2	PRU	46.88	345	Pd	43	14.00	-1.4
RZN	36.81	351	iP	41	54.00	0.6	TOUF	44.22	335	P	42	54.50	-0.1		Z 15s		39.00um			6.5MszX
VAY	36.83	348	eP	42	06.00	12.7X	CTI	44.23	340	P	42	56.50	2.0		N 14s		29.70um			
MMB	36.87	350	iP	41	54.00	0.3	SAL	44.25	339	P	42	54.50	0.0		E 15s		11.40um			
OHR	37.02	346	eP	42	05.30	10.3X	ENIJ	44.31	320	eP	42	57.60	2.4				PP	45	15.50	
DIM	37.04	352	eP	41	57.00	1.9	ENR	44.32	335	P	42	54.75	-0.5				S	50	00.00	
LCI	37.07	342	P	41	54.00	-1.3	FVI	44.33	341	P	42	56.00	0.8	BBS	46.93	338	P	43	14.55	-1.4
PLD	37.22	351	eP	41	53.00	-3.5X	EALH	44.36	322	eP	42	57.20	1.7	LBL	46.96	332	P	43	17.15	1.1
KKB	37.26	349	eP	41	58.00	1.0	IFR	44.36	314	iPc	42	57.00	1.2	FEL	47.09	338	P	43	15.85	-1.4
ORI	37.30	340	P	41	59.70	2.4	STV	44.38	335	P	42	57.11	1.4	DSH	47.10	40	iPd	43	18.00	0.6
JMB	37.33	354	eP	41	59.00	1.5	ZST	44.58	346	eP	42	56.80	-0.4				eS	50	08.00	
LKO	37.33	279	Pd	41	57.60	-0.3	DOI	44.62	335	P	42	59.10	1.4	LOMF	47.10	337	P	43	15.56	-1.7
MGR	37.67	339	P	42	01.00	0.6	PZZ	44.68	335	P	42	58.54	0.3	JAU	47.16	328	P	43	17.56	-0.3
SKO	37.69	347	iP	42	03.00	2.4	TIO	44.69	310	iPd	42	58.50	0.0	LHE	47.21	328	P	43	17.95	-0.3
			i	43	20.00		MDI	44.69	338	Pc	42	57.40	-0.7	TOL	47.22	322	iPd	43	18.09	-0.1
			iS	47	47.00		SPC	44.85	349	eP	43	00.00	0.4				ed	43	21.23	
PGB	37.74	351	iPd	42	02.00	1.0	ETER	44.96	329	e(P)	43	00.10	-0.2				epPc	43	24.05	20kmX
BKR	37.77	14	iPd	42	00.00	-1.4	VAI	45.12	337	P	43	00.40	-1.1				esPc	43	26.86	
			iS	47	45.00		RSP	45.14	335	P	43	00.59	-1.3				ePcP	44	49.57	
PSN	38.38	356	iPd	42	09.00	2.7X	RRL	45.15	335	P	43	03.46	1.4				iPP	45	19.09	
BSS	38.52	339	P	42	09.30	1.8	OGA	45.16	340	eP	43	02.20	0.1	HYB	47.24	71	iPd	43	18.50	-0.2
BUC1	39.24	353	ePc	42	16.00	2.5		1.5s		257.00nm			5.9mb		1.6s		266.70nm			6.1mb
RFI	39.26	339	P	42	16.50	2.8X	EBR	45.17	326	eP	43	04.00	2.0				eS	50	10.00	
BUC	39.30	354	ePc	42	14.50	0.5				eS	49	44.00		KSP	47.24	347	iPd	43	17.20	-1.0
DUI	39.41	339	P	42	16.50	1.4	ECHE	45.19	324	iPc	43	03.20	1.0		2.0s		460.00nm			6.2mb
SIM	39.57	3	ePd	42	16.00	-0.2	EROO	45.22	326	eP	43	03.20	0.8				iPP	45	13.70	
			e(S)	48	19.00		ORO	45.23	336	P	42	48.50	-14.1X				i	45	25.00	
SDI	39.68	339	P	42	18.00	0.7	KMR	45.23	343	iP	43	01.50	-0.9	CAF	47.28	331	eP	43	18.60	-0.1
CFR	39.88	356	ePd	42	21.50	2.7X	ORX	45.24	336	P	42	59.98	-2.7	OGE	47.30	328	P	43	18.75	-0.1
ISR	39.97	354	ePc	42	21.00	1.4	APHE	45.25	319	iPd	43	03.29	0.4	PLDF	47.35	333	P	43	18.79	-0.5
MAIO	39.97	36	iPd-	42	19.60	-0.2	TMA	45.28	338	ePc	43	02.10	-1.0	ATE	47.37	328	P	43	19.14	-0.3
	1.2s	83.33nm				5.3mb	BNI	45.30	335	Pc	43	03.30	0.1	ISSF	47.38	328	P	43	19.29	-0.3
		eS		48	19.00		BHG	45.30	342	iPd	43	02.40	-0.6	STU	47.42	340	ePd	43	18.00	-1.7
AZI	40.06	339	P	42	21.90	1.6	OSS	45.31	339	ePc	43	03.70	0.4		1.1s		68.35nm			5.6mb
RDP	40.13	338	P	42	23.10	2.1	AFC	45.33	319	iPd	43	03.60	0.0	PYM	47.46	333	P	43	19.95	-0.2
RMP	40.18	338	P	42	22.40	1.1	SOTA	45.40	340	iPc	43	03.10	-0.8	MADF	47.47	328	P	43	19.62	-0.6
BRD	40.30	355	ePd	42	27.50	5.2X		1.4s		222.00nm			5.9mb	BSF	47.51	337	P	43	19.40	-1.2
MLR	40.38	354	eP	42	20.00	-3.1X				id	43	03.40		LPO	47.53	330	eP	43	20.20	-0.4
AQU	40.39	339	P	42	24.70	1.6	LSD	45.43	336	P	43	04.08	-0.2	BOH	47.55	327	P	43	20.59	-0.3
VRI	40.68	355	ePc	42	24.50	-0.9	ACHM	45.43	319	eP	43	06.70	2.4	GRF	47.56	342	iPd	43	19.70	-1.1
MNS	40.68	338	P	42	26.10	0.6	ATEJ	45.44	319	iPd	43	04.26	-0.2				e	43	22.40	
PPE	40.95	356	eP	42	30.00	2.5	KOD	45.46	81	eP	43	05.00	0.0	ELYF	47.58	328	P	43	20.41	-0.7
BZS	41.16	349	eP	42	28.00	-1.2	EVIA	45.51	322	iPc	43	04.50	-0.4	EVAL	47.63	318	iPd	43	20.50	-1.0
DEV	41.19	351	ePc	42	32.00	2.5	ASMO	45.52	319	eP	43	04.92	-0.1	AGO	47.63	333	P	43	20.79	-0.6
ASS	41.28	339	P	42	30.50	0.1	NKM	45.57	316	iP	43	04.50	-0.7	ECH	47.69	338	P	43	20.63	-1.2
MAO	41.30	337	P	42	31.20	0.7				i	43	07.00		GUD	47.74	323	eP	43	21.80	-0.7
QUE	41.33	49	iPd-	42	32.50	1.4	MMK	45.59	337	ePc	43	05.70	0.1	SMF	47.77	334	iPd	43	21.30	-1.2
TIM	41.35	349	iPc	42	34.00	3.2X	MAL	45.60	318	iP-	43	05.00	-0.4	CDF	47.81	338	P	43	21.26	-1.6
ARV	41.56	339	P	42	32.30	-0.3				iPP	44	44.00		RJF	47.82	331	eP	43	22.20	-0.7
IAS	41.92	356	eP	42	36.00	0.5				iS	49	48.40			1.3s		108.30nm			5.8mb
CRE	42.03	338	P	42	54.00	17.4X	ALOJ	45.62	319	iPd	43	06.09	0.3	HAU	47.83	337	eP	43	21.70	-1.2
PGF	42.29	335	P	42	36.90	-1.8	LPG	45.63	335	eP	43	04.70	-1.2	BRG	47.85	345	iP	43	21.30	-1.7
SFI	42.31	338	P	42	39.50	0.7		1.4s		340.35nm			6.1mb		2.0s		500.00nm			6.2mb
PGD	42.32	338	P	42	40.00	0.9	LPL	45.65	335	eP	43	04.90	-1.1				i	43	23.80	
VBY	42.59	343	ePc	42	42.00	0.9	KRA	45.74	349	ePd	43	05.50	-0.8				i	43	33.00	
PII	42.64	337	P	42	41.70	0.2		1.5s		338.00nm			6.1mb				i	49	32.00	
ZAG	42.67	344	eP	42	43.00	1.3				i	43	14.80					iS	50	16.00	
PTJ	42.75	344	iPc	42	33.60	-8.9X				e	43	30.40					i	54	16.00	
BDI	42.90	337	P	42	42.10	-1.6				i	45	05.00		HOF	47.91	343	eP	43	22.00	-1.6
POO	43.05	68	iPd	42	45.40	0.2				iS	49	49.00			1.5s		156.00nm			5.9mb
CEY	43.05	342	eP	42	44.90	0.0	AAPN	45.74	319	iPd	43	06.78	0.1	LFF	47.93	330	eP	43	23.40	-0.4
ESEL	43.12	327	iPc	42	47.90	2.5	DIX	45.83	336	ePc	43	07.10	-0.4		1.4s		148.10nm			5.9mb
TAF	43.18	317	iP	42	50.00	3.9X	LLS	45.88	338	ePc	43	07.10	-0.7	LBF	47.98	334	iPd	43	23.10	-1.1
TRI	43.23	342	P	42	46.80	0.5	AVE	45.91	312	iP	43	09.00	1.1		1.1s		80.60nm			5.7mb
LJU	43.30	342	eP	42	47.00	0.2	OJEN	46.01	317	iP	43	13.00	4.2X	MAF	48.02	333	eP	43	24.30	-0.1
BUD	43.47	347	eP	42	47.00	-1.1	EMS	46.02	336	ePc	43	07.40	-1.5	ECRI	48.04	326	iPd	43	24.80	0.1

24d 19h

AVF		48.10	334	iPd	43	24.00	-1.0
VITF		48.14	337	P	43	24.25	-1.0
BGF		48.15	333	eP	43	24.60	-0.8
GWF		48.15	339	P	43	24.50	-1.0
TCF		48.23	333	iPd	43	25.90	-0.2
SSF		48.24	334	iPd	43	25.00	-1.2
		0.9s		36.05nm			5.4mb
LOR		48.25	335	iPd	43	25.00	-1.2
		0.8s		83.95nm			5.8mb
MOX		48.29	343	ePd-	43	25.00	-1.5
		1.8s		246.00nm			6.0mb
	Z	15s		33.70um			6.4MszX
	N	15s		32.50um			
	E	15s		28.70um			
CLL		48.49	344	iPd	43	26.30	-1.7
		2.3s		400.00nm			6.1mb
				i	43	37.30	
				eS	50	23.00	
LSF		48.52	332	iPd	43	27.70	-0.6
EPLA		48.58	321	iPd	43	28.10	-0.8
MBO		48.82	284	eP	43	32.30	1.3
NDI		48.84	56	eP	43	32.00	0.9
TNS		48.92	340	ePd	43	30.00	-1.4
CFTV		49.19	303	iPc	43	34.90	1.1
				i	43	42.50	
BRN		49.45	345	eP	43	35.00	-0.3
MFF		49.56	331	eP	43	35.40	-0.9
OBN		49.83	4	iPd	43	37.00	-1.1
		2.0s		320.00nm			6.0mb
	Z	14s		25.00um			6.4MszX
				iS	50	46.00	
LIS		49.83	318	eP	43	39.00	0.5
MEM		50.09	339	P	43	39.80	-0.5
DOU		50.20	337	Pc	43	39.70	-1.4
ENN		50.25	339	eP	43	40.00	-1.5
		2.0s		667.00nm			6.3mb
				e	45	03.00	
GGC		50.40	302	iPd	43	44.80	1.7
				i	43	51.10	
ERUA		50.59	323	iPc	43	43.60	-0.6
SNF		50.65	338	P	43	43.10	-1.4
PTO		50.77	321	eP	43	44.50	-1.1
				eS	50	51.00	
UCC		50.85	338	P	43	45.30	-0.8
				S	51	02.00	
WTS		50.97	340	eP	43	47.00	0.1
		1.0s		71.00nm			5.6mb
LDF		51.00	333	eP	43	45.80	-1.5
		0.8s		65.80nm			5.6mb
LPF		51.02	332	eP	43	46.20	-1.1
		1.1s		73.25nm			5.5mb
GRR		51.19	332	eP	43	47.30	-1.4
FLN		51.29	333	eP	43	47.80	-1.6
EMON		51.31	324	iPc	43	49.60	-0.2
EZAM		51.39	322	eP	43	50.00	-0.4
DBN		51.62	339	eP-	43	52.00	0.2
	Z	20s		26.40um			6.3Msz
				ePP	45	52.00	
				iS	51	16.00	
				eSS	55	14.00	
WIT		51.71	341	eP	43	53.00	0.5
STS		51.72	323	eP	43	52.20	-0.6
CHIE		52.25	301	ePd	43	57.70	0.6
				i	44	06.00	
KSH		52.34	43	Pc	43	57.60	-0.1
TBT		52.48	302	ePd	44	01.50	2.7X
				i	44	07.00	
FRU		53.17	39	iPd	44	03.00	-0.7
				eS	51	27.00	
PUL		54.37	359	iPd	44	11.00	-1.1
				iS	51	47.00	
CRZF		54.47	163	iPd	44	16.00	2.9X
				ePP	46	20.00	
				eS	52	05.00	
				eSS	55	55.00	
GKN		54.90	59	Pd	44	12.60	-4.3X
TLG		55.13	39	ePc	44	16.00	-2.1
				eS	51	58.00	
DMN		55.21	60	Pd	44	15.20	-4.1X
NUR		55.37	356	iP	44	17.40	-2.1
		1.0s		102.00nm			5.8mb
				e	45	24.00	
				e	46	32.00	
				e	49	22.00	
				e	52	00.00	
				e	55	44.00	
PKI		55.47	60	Pd	44	16.80	-4.4X
UPP		55.52	351	iP	44	18.70	-1.9
				iS	52	01.00	
GUN		55.95	60	Pd	44	20.40	-4.3X
YRH		56.04	334	eP	44	26.00	1.5
ECP		56.37	333	eP	44	27.00	0.2
ETA		56.64	333	eP	44	28.00	-0.8
KONO		56.85	347	ePc	44	26.47	-3.7X
				ed	44	30.94	
				esPc	44	33.76	
ESY		57.46	338	ePd	44	33.40	-1.2
		0.9s		116.00nm			5.9mb
SUF		57.47	357	iP	44	33.10	-1.4
		0.6s		104.60nm			6.0mb
NB2		57.76	348	P	44	34.40	-2.2
		1.0s		125.20nm			5.9mb
VAL		58.04	331	iP	44	30.00	-8.6X
				S	52	40.00	
EBH		58.05	338	ePd	44	37.40	-1.2
		0.8s		99.00nm			5.9mb
EDU		58.08	338	ePd	44	37.40	-1.5
		0.8s		110.00nm			5.9mb
ELO		58.29	338	eP	44	38.80	-1.5
EAB		58.32	337	eP	44	39.00	-1.5
BER		58.53	345	iP	44	40.80	-1.1
LSA		60.85	59	Pd	44	57.10	-1.9
	N	16s		3.30um			
	E	18s		3.60um			
				pP	45	02.00	16kmX
				PP	47	14.00	
				S	53	13.50	
PDA		61.32	310	iPc	45	06.00	4.5X
SOD		62.09	358	iP	45	04.50	-1.7
WMQ		62.13	43	iPd	45	06.00	-1.0
	Z	20s		36.10um			6.5Msz
				ed	45	08.32	
				epPc	45	10.14	13kmX
				esPc	45	11.47	
				PcP	45	41.00	
				PcS	49	44.00	
				S	53	30.50	
				ScS	54	56.00	
				SS	57	28.00	
APA		62.18	1	iP	45	00.00	-6.7X
KEV		64.47	358	ePd	45	21.39	-0.3
		0.9s		55.80nm			5.7mb
				ed	45	24.20	
				epPc	45	27.02	18kmX
				e	49	24.00	
				e	53	56.00	
TRO		64.82	355	iP	45	22.80	-1.3
TSI		66.54	88	eP	45	36.00	-0.1
CHG		66.66	72	ePd	45	35.10	-1.7
		1.0s		57.50nm			5.7mb
				eS	54	26.00	
CHTO		66.66	72	iPd	45	34.84	-1.9
		7.0s		3.10nm			3.6mb X
	Z	20s		36.40um			6.6Msz
				e	45	36.99	
				ePP	48	01.65	
				iS	55	14.00	
PSI		66.96	89	ePd	45	39.20	0.4
NST		67.72	75	eP	45	43.40	0.0
SNG		68.35	84	eP	45	46.80	-0.7
				eS	54	52.00	
IPM		68.91	87	ePc	45	52.00	1.0
LOE		69.27	73	eP	45	51.00	-2.1
AKU		69.60	340	iP	45	55.60	1.4
		2.0s		400.00nm			6.2mb
				i	46	14.60	
GTA		69.70	50	iPd	45	54.60	-1.0
		8.0s		4800.00nm			6.7mb X
	Z	18s		40.00um			6.7Msz
				PP	48	30.00	
				S	55	02.00	
				SKS	55	52.00	
REY		70.10	338	eP	46	04.00	6.7X
KMI		70.50	65	P-	46	00.00	-0.8
		7.0s		3.10nm			3.5mb X
	Z	20s		36.40um			6.6Msz
				S	55	12.50	
				iS	55	14.00	
KGM		71.39	90	ePc	46	06.20	0.1
CD2		71.81	59	eP	46	05.80	-2.6
				S	55	24.00	
LZH		72.38	54	iPd	46	11.48	-0.4
		2.5s		1100.00nm			6.5mb
				ed	46	13.79	
				epPc	46	16.77	17kmX
				PcP	46	28.00	
				ePP	48	47.73	
				ePPP	50	34.67	
				ScS	56	16.00	
GYA		74.10	64	iPd	46	20.00	-2.0
		5.0s		4100.00nm			6.7mb X
	N	20s		5.80um			
	E	20s		4.70um			
				pP	46	30.00	32kmX
				S	55	52.00	
KBS		74.29	356	iP	46	21.50	-0.4
MAW		75.96	168	iPd-	46	33.40	1.7
XAN		76.37	56	Pd	46	34.80	0.0
		9.0s		3400.00nm			6.4mb X
	N	10s		0.70um			
	E	11s		1.10um			
QIZ		76.98	72	Pd	46	38.00	-0.3
		9.0s		5000.00nm			6.6mb X
	E	18s		5.30um			
				PP	49	30.00	
BTO		77.62	50	iPd	46	42.00	0.4
		9.0s		5200.00nm			6.6mb X
				S	56	34.50	
HHC		78.80	50	Pd	46	49.00	0.8
		4.0s		2500.00nm			6.6mb X
	Z	22s		8.40um			6.0Msz
	N	12s		2.60um			
	E	13s		5.90um			
				PP	49	46.00	
				S	56	45.00	
TIY		79.36	53	iPd	46	51.00	-0.2
		2.0s		200.00nm			5.8mb
	E	13s		2.70um			
				PP	49	45.00	
				S	56	45.50	
GZH		80.16	68	iPd	46	56.00	0.4
	Z	24s		65.00um			6.9MszX
				S	57	00.00	
WHN		80.91	60	eP	47	00.00	0.5
				S	57	08.00	
HKC		80.95	68	iP	47	00.00	0.2
BAO		81.66	253	eP	47	05.00	1.2
BJI		82.31	50	iPd	47	07.50	0.9
		2.0s		610.00nm			6.3mb
				ed	47	09.98	
				epPc	47	13.46	19kmX
				ePP	50	16.00	
				S	57	24.00	
TIA		83.12	54	Pd	47	11.20	0.3
				S	57	29.00	
KKM		83.89	85	ePd	47	16.00	0.7
HIA		84.68	41	iPd	47	19.01	0.5
				ed	47	21.49	
				epPc	47	24.47	17kmX
				ePP	50	37.64	
NJ2		84.71	58	Pd	47	19.50	0.5
		1.8s		500.00nm			6.4mb
				PP	50	35.00	
				S	57	41.00	
QZH		84.87	66	iPd	47	20.50	0.6
				S	57	46.00	
DL2		86.57	51	iPd	47	29.00	0.9
		2.0s		500.00nm			6.4mb
	Z	20s		30.80um			6.7Msz
				PP	50	45.00	
SSE		86.76	59	iPd	47	29.00	-0.2
		8.0s		4200.00nm			6.7mb X
	E	14s		3.60um			
				PP	50	54.00	
				SKS	57	53.00	
				S	58	06.00	
				sS	58	14.00	
				SS	03	48.00	
TIK		87.25	18	iPd	47	30.50	-0.3
				eS	58	08.00	
BAG		87.33	74	ePd-	47	32.00	-0.4
		2.0s		470.59nm			6.4mb
				eS	58	06.00	
MRWA		87.47	119	eP	47	26.00	-6.7X
ANP		87.50	65	eP	47	34.00	1.0
SNY		87.82	48	iPd	47	33.50	-0.6
		9.5s		5300.00nm			
				PP	51	00.00	
				SKS	58	00.00	
				iS	58	18.00	
OCP		87.96	76	eP	47	33.00	-2.2

MUN	88.01	122	eP	47	36.00	0.8
MKS	88.13	95	ePd	47	36.00	-0.1
CN2	89.00	46	Pd	47	38.50	-1.2
	7.0s	3400.00nm				6.8mb X
	Z 18s	13.20um				6.4Msz
	N 13s	1.20um				
	E 13s	0.80um				
		sP	47	42.50		
FRB	89.88	334	eP	47	43.00	-0.4
MDJ	91.84	45	Pd	47	52.00	-0.9
	1.2s	100.00nm				6.1mb
		ePP	51	33.00		
		SKS	58	22.00		
		eS	58	56.00		
LPA	92.79	235	ePKP-	48	00.00	2.7X
	Z 20s	63.83um				7.1Msz
		ePKS	51	18.00		
CBM	92.95	317	eP	47	59.30	1.4
DAV	93.06	83	eP	47	52.00	-7.0X
SIV	94.21	254	P	48	05.00	0.7
SPA	95.24	180	iPd	48	10.00	1.8
	1.0s	45.00nm				5.9mb
	Z 18s	22.20um				6.7Msz
MBC	96.90	353	eP	48	15.50	0.0
	1.2s	16.00nm				5.4mb
MAT	99.90	52	eP	48	29.00	-0.9
	1.0s	12.00nm				5.4mb
		eS	59	10.00		
ZOBO	101.00	255	iPdiff	48	35.12	-0.8X
		e	48	37.10		
		epP	48	40.74		
SCP	101.26	313	ePdiff	48	41.19	5.3X
		ePP	52	47.61		
WRA	103.53	109	Pdiff	48	55.20	8.8X
WB5	103.55	109	ePdiff	48	46.00	-0.5
ARE	104.23	254	ePdiff	48	52.00	2.1
BOG	105.34	276	e(Pdif	48	58.00	3.0X
INK	105.87	354	ePdiff	48	55.00	-0.6
INK	105.87	354	ePKP	53	16.00	7.8X
PET	106.72	30	ePdiff	49	00.00	0.2
		eSKS	59	40.00		
YKA	107.72	344	ePdiff	48	53.50	-10.5X
	0.8s	0.50nm				
YKA	107.72	344	ePKP	53	28.80	17.0X
	1.1s	10.20nm				
IMA	108.72	2	PKP	53	13.00	-0.8
FFC	108.99	334	ePdiff	49	12.00	2.1
GUMO	110.95	73	ePdiff	49	20.00	0.5
CCM	111.90	315	ePdiff	49	26.26	3.1X
		ePP	53	56.23		
QLP	112.37	116	ePKP	53	23.20	1.4
OLY	113.16	312	ePKP	53	23.10	0.1
CTA	114.72	110	iPdiff	49	44.00	7.8X
		e	53	28.00		
		i	54	24.00		
		i	04	08.00		
UYO	115.95	312	iPKPd	53	28.50	0.0
SES	115.97	335	ePKP	53	27.00	-1.1
LNO	116.11	314	(PKP)	53	25.10	-3.5X
RSSD	116.83	326	ePKPc	53	29.80	-0.3
MEO	118.65	314	iPKPc	53	34.20	0.6
PNT	120.22	339	ePKP	53	37.00	0.9
GLD	120.25	323	PKP	53	30.00	-6.7X
	Z 20s	25.00um				6.8Msz
IMW	120.67	329	iPKPc	53	38.00	0.5
BW06	120.73	328	ePKP	53	36.50	-1.1
LON	123.18	339	ePKP	53	41.50	-0.4
DAU	123.29	327	ePKPc	53	42.80	0.1
VGB	123.83	337	ePKPc	53	44.20	1.0
ANMO	123.96	319	ePKPd	53	43.70	-0.3
ANMO	123.96	319	ePKP	53	47.19	3.2X
		iPP	55	28.72		
ALQ	123.96	319	ePKP	53	43.50	-0.5
	Z 18s	18.90um				6.8Msz
DUG	124.29	328	ePKPc	53	44.90	0.5
MSU	125.13	326	ePKPd	53	47.00	0.8
KVN	127.86	330	ePKPd	53	47.00	-4.4X
TNP	128.16	329	ePKPd	53	48.00	-4.0X
MIN	128.45	334	ePKP	53	52.10	-0.3
WDC	128.66	335	ePKP	53	52.00	-0.6
		ePP	55	49.00		
ORV	129.05	333	ePKP	53	53.00	-0.4
CMB	129.76	331	ePKP	53	54.35	-0.5
		ePP	56	01.15		
		iSKP	57	16.47		
GSC	130.01	326	ePKP	53	57.00	1.5
CLC	130.06	327	ePKP	53	56.00	0.5
			e	56	08.00	
FRI	130.26	330	ePKP	53	56.20	0.5
TPC	130.45	325	ePKP	53	58.00	1.7
GLA	130.47	323	ePKP	53	58.00	1.7
			e	56	16.00	
BKS	130.75	333	ePdiff	50	59.00	11.8X
BKS	130.75	333	ePKP	54	03.10	6.4X
			iPP	56	04.00	
			iPKS	57	24.00	
			ePPP	57	30.00	
			eSKS	01	11.00	
			iSKKS	03	10.00	
			e	03	17.00	
			ePKKP	03	57.00	
			eSKSP	06	06.00	
			e	06	07.00	
			iPPS	08	08.00	
			eSKKP	08	09.00	
			eSPP	09	19.00	
			eSS	13	26.00	
			eSSP	14	32.00	
			eSSS	18	16.00	
ARN	130.86	332	PKP	53	57.00	0.1
SNZO	131.16	143	Pdiff	51	08.00	19.1X
SNZO	131.16	143	PKP	54	08.00	10.7X
			PP	56	22.00	
			e	57	24.00	
			ePPP	59	16.00	
			PS	06	22.00	
			e	08	25.00	
			SS	14	12.00	
RVR	131.29	326	ePKP	54	02.00	4.2X
PLM	131.46	325	ePKP	53	59.00	0.6
ABL	131.66	328	PKP	53	59.00	0.2
BAR	131.83	324	ePKP	54	01.00	2.1
DZM	133.07	115	iPKPc	54	02.80	1.2
HON	151.86	20	PKP	54	20.00	-13.9X
	Z 20s	15.32um				6.8Msz
	S.D. = 1.1	on 380 of 441 obs.				

MAY 24, 1990 19h 37m 21.27± 1.11s
37.631 N ±11.2km 20.924 E ± 4.6km
DEPTH = 45.3 ± 10.0 km
4.1mb (2 obs.)
IONIAN SEA (399)

AGG	1.78	38	ePd	37	52.10	2.0
			eS	38	11.80	
IGT	1.95	346	eP	37	53.50	0.9
			iS	38	17.30	
ATH	2.24	80	eP	37	59.00	2.4
LIT	2.75	26	ePd	38	04.00	0.0
			iS	38	36.70	
FNA	3.17	6	iPd	38	09.70	-0.2
			eS	38	46.20	
THE	3.39	27	ePd	38	13.00	0.0
			eS	38	52.30	
OHR	3.48	358	iPn	38	13.50	-0.8
GRG	3.51	19	ePc	38	14.90	0.2
LCI	3.55	320	P	38	16.00	0.7
			eSn	38	28.00	
OUR	3.60	41	eP	38	15.80	-0.1
SOH	3.70	30	ePd	38	17.70	0.3
KNT	3.84	23	eP	38	19.30	-0.1
			eS	39	03.60	
SOI	3.88	278	P	38	18.40	-1.5
VAY	3.90	19	ePn	38	19.70	-0.5
SRS	4.05	30	ePc	38	21.90	-0.5
TDS	4.12	301	P	38	22.80	-0.6
ORI	4.25	306	P	38	26.90	1.6
SKO	4.35	5	iPn	38	25.00	-1.6
			iPg	38	39.50	
			iSn	39	14.50	
			i	39	25.00	
			LR	40	12.00	
MMB	4.51	28	iPc	38	28.00	-0.8
KKB	4.55	21	eP	38	28.00	-1.3
BAI	4.69	319	P	38	32.00	0.7
MEU	4.80	265	P	38	30.80	-2.3
			eSn	39	26.20	
MGR	4.88	303	P	38	32.70	-1.3
RZN	5.00	35	iPc	38	36.00	0.2
ALN	5.14	49	ePc	38	37.00	-0.7
SGO	5.26	306	P	38	40.00	0.7
SGO	5.26	306	P	39	14.20	34.9X
VTS	5.25	19	eP	38	39.00	-0.5
KDZ	5.30	39	iP	38	39.00	-1.0
DIM	5.66	37	eP	38	45.00	0.0
BSS	5.70	305	P	38	46.70	1.1
DUI	6.41	311	P	38	56.00	0.4
CTT	6.79	57	iPg	39	46.70	45.8X
			eSg	39	49.20	
SDI	6.83	309	P	39	03.00	1.6
PTJ	9.05	337	e(P)	39	37.70	5.4X
			e	42	43.40	
TRI	9.68	329	eP	40	19.50	38.7X
SQTA	11.96	326	e(P)	40	13.00	1.1
			e(S)	42	19.00	
GRF	13.94	333	e(P)	40	45.70	7.8X
	1.0s	11.00nm				4.6mb X
UPP	22.35	356	iP	42	15.20	-1.1
NUR	23.02	5	eP	42	23.00	0.1
EKA	24.06	325	Pc	42	34.80	1.8
	0.8s	6.10nm				4.2mb
NB2	24.22	348	P	42	33.80	-0.8
	0.7s	3.10nm				4.0mb
SUF	25.32	6	eP	42	45.00	0.0
CFTV	30.61	263	ePc	43	49.20	15.9X
			i	43	56.90	
	S.D. = 1.1	on 38 of 44 obs.				

? MAY 24, 1990 19h 39m 07.99± 1.59s
31.283 S ±37.0km 68.652 W ±22.3km
DEPTH = 100.8km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.16	107	iPc	39	22.90	0.3
RTCB	0.24	212	iPd	39	23.10	0.2
			(S)	39	33.90	
ZON	0.26	185	eP	39	22.00	-0.9
			eS	39	34.00	
RTCV	0.58	170	iPc	39	25.00	0.3
			(S)	39	37.80	
RTBS	0.78	241	ePd	39	26.50	0.1
			(S)	39	40.00	
	S.D. = 0.8	on 5 of 5 obs.				

? MAY 24, 1990 19h 40m 10.90± 1.41s
38.045 N ±14.1km 21.224 E ±13.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.4 (ATH).

VLI	1.90	134	ePn	40	43.50	-0.2
ATH	1.97	91	ePn	40	45.00	0.4
KEK	2.00	327	ePn	40	45.20	0.1
NEO	2.01	51	ePn	40	45.00	-0.3
	S.D. = 0.5	on 4 of 4 obs.				

MAY 24, 1990 19h 59m 04.28± 0.75s
37.760 N ± 8.0km 20.808 E ± 4.3km
DEPTH = 10.0km (geophysicist)
4.4mb (2 obs.)
IONIAN SEA (399)
ML 4.3 (ATH).

VLS	0.45	338	ePg	59	14.20	0.7
AGG	1.74	43	eP	59	37.60	2.9X
			eS	00	00.90	
IGT	1.81	348	eP	59	40.00	4.3X
			eS	00	05.10	
VLI	1.99	121	ePb	59	44.00	5.6X
KEK	2.10	338	ePg	59	47.70	7.7X
ATH	2.31	84	ePn	59	43.20	0.2
NEO	2.44	50	ePn	59	45.00	0.1
LIT	2.68	29	eP	59	50.40	2.1
			eS	00	22.50	
FNA	3.05	8	eP	59	55.00	1.5
			eS	00	32.60	
THE	3.32	30	eP	59	57.70	0.4
			eS	00	36.40	
OHR	3.35	360	eP	00	10.00	12.3X
	1.3s	582.00nm				
			i	01	09.00	
LCI	3.40	320	P	59	59.10	0.7
GRG	3.42	21	eP	59	59.60	0.8
OUR	3.57	43	eP	59	59.90	-0.8
VAM	3.60	130	ePn	00	02.90	1.6
SOH	3.64	32	eP	00	03.00	1.1
KNT	3.76	25	eP	00	04.70	1.1
TDS	3.98	300	P	00	09.70	3.1X
SRS	3.99	32	eP	00	06.70	0.0
ORI	4.10	305	P	00	11.30	2.9X
BRT	4.18	319	P	00	11.00	1.5

24d 20h

SKO	4.24	6	eP	00	16.00	5.7X	BRF	27.30	39	eP	05	57.60	3.5X				e(S)	13	09.00				
ATN	4.24	277	P	00	11.20	0.8		0.4s	215.00nm				6.2mb	HCY	38.79	344	eP	07	34.50	0.7			
MMB	4.44	30	ePd	00	13.00	-0.2	HRI	28.01	7	eP	06	00.70	0.1	IVA	38.83	346	eP	07	35.50	1.3			
KKB	4.46	22	iP	00	14.00	0.5	BHD	30.13	21	iPc	06	20.00	0.5	NKY	39.00	345	eP	07	37.00	1.3			
BAI	4.53	319	P	00	15.00	0.5	VAM	30.72	348	eP	06	25.20	0.5	BUC1	39.17	353	iPd	07	40.00	3.1X			
MEU	4.72	264	P	00	14.90	-2.5	ELL	31.29	357	eP	06	30.50	0.6	RFI	39.19	339	P	07	38.47	1.3			
MGR	4.73	302	P	00	18.60	1.2	VLI	32.26	347	eP	06	38.40	0.2	BRY	39.20	344	eP	07	38.50	1.1			
SMG	4.78	89	ePn	00	19.30	1.3	CIN	32.27	354	eP	06	40.00	1.7	DUI	39.34	339	Pd	07	39.10	0.6			
RZN	4.95	36	iP	00	20.00	-0.5	SMG	32.52	353	eP	06	41.00	0.6	CGL	39.51	332	P	07	41.08	1.1			
RDO	4.98	46	ePn	00	20.00	-0.9	MSL	32.57	17	iPc	06	41.00	0.1		1.7s	224.90nm				5.6mb			
SGO	5.11	305	P	00	24.00	1.4				eS	12	01.00		SDI	39.61	339	P	07	41.08	0.4			
ALN	5.13	51	eP	00	22.20	-0.7				e	15	21.00			1.7s	1750.70nm				6.5mb			
VTS	5.16	20	iP	00	24.00	0.4				e	17	02.50		CFR	39.80	356	ePd	07	43.00	0.9			
KDZ	5.26	41	eP	00	23.00	-1.9	SLY	32.62	21	iPc	06	41.00	-0.3	ISR	39.89	354	ePd	07	44.50	1.5			
GIB	5.37	275	P	00	25.00	-1.5				iS	11	41.00		AZI	39.99	339	P	07	44.80	1.0			
PGB	5.43	27	eP	00	22.00	-5.3X	KHL	32.88	357	eP	06	44.40	0.7	HVAR	40.05	342	iPd	07	45.00	0.7			
BSS	5.55	305	P	00	31.80	2.8X	ITM	32.95	345	iPd	06	45.00	0.8	RDP	40.06	338	P	07	45.40	1.0			
DIM	5.62	39	eP	00	29.00	-0.8	ATH	33.30	348	iPd	06	48.00	0.8	BRD	40.22	355	ePd	07	49.00	3.4X			
DUI	6.26	310	P	00	41.00	2.1	ALT	33.58	358	eP	06	50.30	0.5	MLR	40.31	354	iPd	07	46.50	0.0			
HVAR	6.35	330	i(Pn)	00	39.80	-0.4	SEK	33.73	187	eP	06	51.50	0.2	AQU	40.32	339	P	07	47.90	1.3			
			iSn	01	49.50		NEO	34.68	348	iPd	06	59.00	-0.2	VRI	40.60	354	ePd	07	48.50	-0.2			
PVL	6.45	31	eP	00	39.00	-2.6	GPA	34.80	358	iP	07	01.70	1.5	MNS	40.61	338	Pd	07	49.20	0.2			
SDI	6.68	308	P	00	48.00	3.2X	IZI	34.89	357	eP	07	04.00	3.0X	PPE	40.87	356	ePd	07	53.00	2.1			
AZI	7.07	309	P	00	55.00	4.8X	YLV	35.12	357	iP	07	05.10	2.1	BZS	41.08	349	iPc	07	54.00	1.4			
ELL	7.33	95	eP	00	57.00	2.9X	PZI	35.13	336	P	07	04.10	1.0	DEV	41.11	350	iPc	07	40.00	-12.9X			
MNS	7.76	309	P	01	03.00	3.1X	TAB	35.13	20	ePd	07	04.00	0.8	ASS	41.22	339	P	07	46.20	-7.7X			
GPA	7.82	68	eP	01	03.00	2.2	KGT	35.18	354	iP	07	04.60	1.2	MAO	41.23	337	Pd	07	54.30	0.4			
ASS	8.17	313	P	01	07.00	1.3	TEH	35.18	28	ePc	07	06.00	2.3	QUE	41.26	49	iPd	07	56.20	1.6			
ARV	8.28	316	P	01	08.40	1.1	MEU	35.18	336	Pc	07	05.20	1.6	ARV	41.49	339	Pd	07	55.50	-0.6			
VBY	8.78	334	ePn	01	17.00	2.9X	ISK	35.64	356	iP	07	09.60	2.3	CRE	41.96	338	P	07	59.20	-0.8			
			eSn	02	47.90		FAI	35.85	335	P	07	10.90	1.8	RSM	42.04	339	P	08	00.50	0.0			
PTJ	8.90	338	e(P)	01	19.50	3.6X	KEK	35.89	344	eP	07	10.00	0.5	PGF	42.22	335	P	08	01.92	-0.3			
CTI	10.72	323	P	01	39.40	-1.6	ATN	35.89	338	Pd	07	10.60	1.1	SFI	42.25	338	P	08	01.10	-1.1			
GRF	13.78	333	iPc	02	31.20	9.3X	MSI	35.90	338	P	07	11.30	1.8	PGD	42.26	338	P	08	00.80	-1.8			
	1.2s	33.00nm				5.1mb X	KAS	35.90	2	iPd	07	10.20	0.6	VBY	42.52	343	iPd	08	05.40	0.9			
MOX	14.45	336	eP	02	38.00	7.3X	MNO	35.99	337	P	07	11.50	0.9	PII	42.58	337	P	08	04.80	-0.1			
CLL	14.63	340	eP	02	40.00	7.0X	RDO	36.08	352	eP	07	10.70	-0.3	ZAG	42.60	344	iPd	08	06.00	0.9			
	2.2s	57.00nm				4.8mb X	MCT	36.17	335	P	07	14.06	2.0	PTJ	42.68	344	iPd	08	06.40	0.5			
UPP	22.21	356	iP	04	00.50	-1.6		2.1s	3578.80nm				6.9mb	BDI	42.84	337	P	08	05.50	-1.7			
NUR	22.90	5	eP	04	07.00	-1.9	PTS	36.20	333	P	07	13.30	1.2	MME	42.91	338	P	08	06.60	-1.4			
EKA	23.90	325	Pc	04	17.40	-1.3	GIB	36.31	336	P	07	14.40	1.3	CEI	42.93	351	eP	08	13.00	5.2X			
	0.8s	9.80nm				4.4mb	KIC	36.41	273	P	07	13.16	-1.0	POO	43.00	69	eP	08	11.00	2.1			
NB2	24.07	349	P	04	18.40	-2.0		2.1s	2428.50nm				6.7mb	TRI	43.16	341	iPd	08	08.50	-1.2			
	0.8s	7.40nm				4.3mb	DMK	36.49	355	eP	07	15.10	0.6				i	10	03.50				
SUF	25.20	6	eP	04	29.00	-2.2	CVT	36.56	334	Pd	07	16.90	1.8	BUD	43.39	347	iP	08	11.50	-0.1			
SOD	29.84	5	eP	05	12.00	-1.5	KDZ	36.59	352	iPd	07	16.00	0.7	PSZ	43.62	348	iP	08	13.70	0.1			
S.D. = 1.4 on 42 of 61 obs.							TIC	36.68	274	Pd	07	15.32	-1.2	IMI	43.80	335	Pd	08	15.14	0.1			
----------							LIC	36.69	273	Pd	07	15.60	-1.0	SRO	43.86	347	iPd	08	16.50	1.2			
MAY 24, 1990 20h 00m 08.19± 0.17s								2.3s	2928.00nm				6.7mb				e	10	01.20				
5.358 N ± 3.3km 31.848 E ± 3.2km							RZN	36.73	351	iPd	07	17.00	0.3				i	38	14.20				
DEPTH = 16.0km (geophysicist)							VAY	36.76	348	iPc	07	17.40	0.7	BOB	43.87	337	P	08	14.60	-1.0			
6.5mb (52 obs.) 7.0Msz (14 obs.)								2.4s	4300.00nm				6.8mb	RBL	43.88	342	P	08	18.60	3.0X			
SUDAN (557)										i	07	25.00		UZH	43.88	351	eP	08	18.00	2.5			
Ms 7.0 (BRK), 6.9 (PAS).							MMB	36.80	350	iPd	07	16.00	-1.1	REVF	43.89	334	P	08	15.61	-0.1			
Mo=1.1*10**20 Nm (PPT). Some							TDS	36.91	340	Pd	07	19.20	1.2	FIN	43.91	335	Pd	08	15.96	0.1			
buildings domoged in the Juba							OHR	36.95	346	iP	07	18.40	0.0	LMR	43.94	333	iPd	08	15.80	-0.2			
oreo. Felt in the Kapengurio								1.3s	684.00nm				6.3mb	SBF	43.96	334	iPd	08	15.70	-0.6			
oreo ond ot Nokuru, Kenyo. Also										i	07	29.30		AURF	44.02	334	P	08	16.59	-0.3			
felt in Ugondo. Depth from							ERC	36.95	334	Pd	07	19.20	0.7	PCP	44.05	336	Pd	08	16.57	-0.4			
broadbond displacement							DIM	36.97	352	iP	07	18.00	-0.5	CKI	44.06	336	P	08	16.10	-0.9			
seismogroms.							LCI	37.00	342	Pd	07	18.90	0.2	FRF	44.06	334	iPd	08	16.50	-0.5			
RADIATED ENERGY							LVI	37.02	334	P	07	19.50	0.6	AUTN	44.07	335	P	08	17.18	-0.2			
No. of sto: 6 Focal mech. C							PLD	37.14	351	iPd	07	20.00	0.1	LRG	44.10	333	iPd	08	17.40	0.1			
Energy 3.3±0.7*10**14 Nm							KKB	37.18	349	iP	07	19.00	-1.3		1.5s	693.70nm				6.3mb			
CENTROID, MOMENT TENSOR (HRV)							ORI	37.23	340	P	07	21.80	1.0	CALN	44.10	334	P	08	17.78	0.2			
Dotо Used: GDSN							JMB	37.25	354	iPd	07	21.00	0.2	MVIF	44.10	334	P	08	17.65	0.1			
L.P.B.: 16S, 40C M.W.: 12S, 31C							USI	37.27	336	P	07	22.62	1.6	ROB	44.12	335	Pd	08	17.70	0.1			
Centroid Locotion:								0.7s	305.20nm				6.2mb	TOUF	44.16	334	P	08	18.00	-0.1			
Origin Time 20:00:21.7 0.2							LKO	37.34	279	Pd	07	21.46	-0.5	CTI	44.16	340	Pd	08	18.30	0.3			
Lot 5.70N 0.02 Lon 31.67E 0.02							MGR	37.61	339	Pd	07	23.80	-0.1	SAL	44.18	339	P	08	18.60	0.7			
Dep 15.0 FIX Holf-duration 15.0							SKO	37.62	347	iPd	07	24.50	0.5	ENR	44.26	335	Pd	08	18.62	-0.1			
Moment Tensor; Scole 10**19 Nm								1.6s	863.00nm				6.3mb	FVI	44.26	341	Pd	08	19.40	0.8			
Mrr=-3.55 0.05 Mtt= 4.41 0.04										i	07	33.00		STV	44.31	335	Pd	08	19.44	0.3			
Mff=-0.86 0.05 Mrt=-1.61 0.31										i	07	40.00		ZST	44.50	346	iPd	08	21.50	0.9			
Mrf= 1.53 0.31 Mtf= 1.21 0.04							PGB	37.66	351	iPd	07	24.00	-0.4				i	08	31.30				
Principol Axes:							BKR	37.69	14	iPd	07	26.00	1.3				i	10	14.60				
T Vol= 4.87 Plg= 9 Azm=171										iS	13	32.00		DOI	44.55	335	P	08	20.30	-0.8			
N -0.20 26 265							VTS	37.86	350	iPd	07	26.00	-0.2	PZZ	44.62	335	P	08	21.80	0.1			
P -4.67 62 63							BAI	38.05	342	Pd	07	27.00	-0.6	MDI	44.62	338	P	08	21.20	-0.3			
Best Double Couple:Mo=4.8*10**19							SGO	38.07	339	P	07	22.30	-5.4X	SPC	44.77	349	iPd	08	23.00	0.0			
NP1:Strike=232 Dip=43 Slip=-131							PVL	38.14	352	iPd	07	27.00	-1.3				i	10	04.50				
NP2: 102 59 -59							ULC	38.14	345	eP	07	30.00	1.6	VAI	45.06	337	P	08	23.76	-1.2			
							PSN	38.30	356	iPd	07	30.00	0.3		1.9s	7605.30nm				7.3mb			
ARO	12.48	60	ePd	03	08.70	0.5	BSS	38.45	339	P	07	31.20	0.3	RSP	45.07	335	Pd	08	24.16	-1.2			
MBH	24.45	6	eP	05	30.00	2.6	BDV	38.55	344	eP	07	33.10	1.3	RRL	45.08	335	Pd	08	26.01	0.4			
PRNI	25.03	6	eP	05	34.70	1.6	PVY	38.55	346	eP	07	33.50	1.5	OGA	45.09	340	iPd	08	26.00	0.4			
DSI	26.29	7	eP	05	46.00	1.3	TTG	38.57	345	eP	07	33.60	1.6	EBR	45.11	326	iP	08	26.00	0.5			

KMR	45.16	343	iP+	08	27.40	1.5
ORO	45.17	336	P	08	24.90	-1.2
ORX	45.17	336	Pd	08	24.47	-1.7
APHE	45.20	319	iPd	08	27.05	0.5
TMA	45.22	338	ePd	08	25.50	-1.1
BHG	45.23	342	iPd	08	26.10	-0.4
	2.2s	847.00nm			6.3mb	
BNI	45.24	335	Pd	08	26.50	-0.2
OSS	45.24	339	ePd	08	26.70	0.0
VDL	45.31	338	ePd	08	27.20	-0.1
SQTA	45.33	340	iPd	08	27.00	-0.4
	1.5s	926.00nm			6.5mb	
		i		08	36.00	
LSD	45.36	336	Pd	08	27.65	-0.2
ACHM	45.38	319	iPd	08	28.68	0.8
ATEJ	45.40	319	iPd	08	26.86	-1.2
KOD	45.42	81	eP	08	28.30	-0.5
ASMO	45.47	319	eP	08	26.29	-2.4
MMK	45.52	337	ePd	08	27.60	-1.5
LPG	45.56	335	iPd	08	28.60	-0.8
	1.2s	371.90nm			6.2mb	
ALOJ	45.57	319	iPd	08	29.82	0.4
LPL	45.59	335	iPd	08	28.70	-0.8
GBA	45.64	76	P	08	30.00	-0.1
	1.3s	170.50nm			5.8mb	
KRA	45.66	349	iPd	08	29.50	-0.3
	1.5s	857.00nm			6.5mb	
Z	20s	68.00um			6.6Msz	
E	20s	76.50um				
		i		08	37.40	
		iS		15	23.00	
AAPN	45.69	319	iPd	08	30.33	0.0
DIX	45.77	336	ePd	08	29.50	-1.5
LLS	45.81	338	ePd	08	30.30	-1.0
AVE	45.86	312	iP	08	32.80	1.2
OJEN	45.96	317	eP	08	33.50	1.1
RAC	46.03	348	eP	08	33.00	0.3
		e		10	26.00	
		eS		15	22.00	
PLAT	46.12	317	eP	08	34.00	0.3
FUR	46.13	341	iPd	08	32.90	-0.7
	2.2s	1800.00nm			6.7mb	
MOMI	46.21	317	eP	08	29.00	-5.3X
KHC	46.29	343	iPc	08	34.10	-0.7
	1.0s	589.00nm			6.5mb	
Z	16s	69.10um			6.7MszX	
N	16s	48.50um				
E	16s	55.50um				
		e		15	24.00	
LIJA	46.31	318	eP	08	32.50	-2.7
ALJ	46.32	317	eP	08	33.50	-1.8
CNIL	46.46	317	eP	08	37.00	0.8
WET	46.51	343	iPd	08	35.80	-0.7
ZLA	46.55	338	ePd	08	35.40	-1.5
GIBL	46.64	317	eP	08	38.00	0.3
EPF	46.72	328	iPd	08	38.20	-0.1
	1.6s	437.25nm			6.2mb	
SLE	46.75	338	ePd	08	37.50	-1.0
PRU	46.81	345	iPd	08	37.60	-1.2
	2.5s	1666.70nm			6.6mb	
Z	16s	75.50um			6.7MszX	
N	13s	79.50um				
E	16s	29.30um				
		e		10	05.80	
		PP		10	38.90	
		S		15	22.00	
LBL	46.89	332	P	08	39.54	0.0
JAU	47.10	328	P	08	42.00	0.5
LHE	47.15	327	P	08	41.87	0.1
TOL	47.16	322	iPd	08	42.00	0.2
		eS		15	51.00	
		eSS		19	25.00	
KSP	47.17	347	iPd	08	41.10	-0.6
	1.8s	1182.00nm			6.7mb	
		iPP		10	35.50	
HYB	47.20	71	iPd	08	41.70	-0.7
	1.4s	550.00nm			6.4mb	
		eS		15	28.00	
CAF	47.22	331	iPd	08	42.40	0.2
ESCF	47.24	328	P	08	42.28	-0.1
OGE	47.25	328	P	08	42.78	0.4
PLDF	47.29	333	P	08	42.46	-0.3
ATE	47.31	328	P	08	42.82	-0.1
ISSF	47.32	327	P	08	43.06	-0.1
PYM	47.40	333	P	08	44.01	0.4
MADF	47.41	328	P	08	43.36	-0.4
BSF	47.45	337	iPd	08	43.00	-1.1
LPO	47.47	330	iPd	08	44.00	-0.1
BOH	47.49	327	P	08	44.60	0.1
GRF	47.49	342	iPd	08	43.50	-0.8
	2.1s	2210.00nm			6.9mb	
		e		08	52.10	
ELYF	47.52	327	P	08	44.51	-0.1
AGO	47.57	333	P	08	44.92	0.0
SMF	47.71	334	iPd	08	45.20	-0.8
CDF	47.74	338	iPd	08	45.20	-1.2
HAU	47.76	337	iPd	08	45.60	-0.8
	1.5s	367.25nm			6.2mb	
RJF	47.76	331	iPd	08	46.00	-0.5
BRG	47.77	345	iPd	08	45.60	-0.8
	2.3s	1600.00nm			6.7mb	
		i		08	53.00	
		iPcP		10	14.00	
		iScP		14	02.50	
		iS		15	42.00	
HOF	47.84	343	iPd	08	45.80	-1.3
	1.7s	850.00nm			6.5mb	
LFF	47.87	330	iPd	08	47.10	-0.2
LBF	47.91	334	iPd	08	46.70	-1.0
MAF	47.95	333	iPd	08	48.20	0.2
AVF	48.04	334	iPd	08	47.80	-0.7
BGF	48.08	333	iPd	08	48.50	-0.4
TCF	48.17	333	iPd	08	49.40	-0.2
SSF	48.18	334	iPd	08	48.60	-1.1
LOR	48.19	335	iPd	08	48.80	-1.0
	1.3s	310.25nm			6.2mb	
MOX	48.22	343	iPd	08	49.00	-0.9
	2.6s	2626.00nm			6.8mb	
Z	15s	76.40um			6.8MszX	
N	16s	67.40um				
E	14s	56.60um				
CLL	48.42	344	iPd	08	50.30	-1.1
	2.2s	1150.00nm			6.5mb	
		i		08	58.00	
LSF	48.45	332	iPd	08	51.00	-0.8
NDI	48.78	56	eP	08	56.00	1.4
MBO	48.82	284	iPd	08	56.50	1.5
TNS	48.85	340	iPd	08	53.90	-0.9
CFTV	49.16	303	iPd	08	58.00	0.4
		i		09	08.20	
BRN	49.37	345	ePd	08	58.00	-0.7
MFF	49.50	331	iPd	08	59.20	-0.6
OBN	49.74	4	iPd	09	00.00	-1.5
	2.1s	3900.00nm			7.0mb	
Z	14s	110.00um			7.0MszX	
		iS		16	06.00	
LIS	49.78	318	iPd	09	02.00	-0.1
MEM	50.02	339	iPd	09	03.10	-0.7
PLH	50.07	340	ePd	09	03.70	-0.3
DOU	50.13	337	P	09	03.30	-1.3
ENN	50.18	339	iPd	09	04.60	-0.4
	1.6s	730.00nm			6.4mb	
		e		09	13.00	
		e		10	25.00	
JCK	50.23	339	ePd	09	04.80	-0.5
GGC	50.37	302	iPd	09	07.70	0.8
		i		09	19.50	
SNF	50.58	338	Pd	09	07.20	-0.8
PTO	50.72	321	iPd	09	08.50	-0.7
UCC	50.79	338	P	09	09.00	-0.6
WTS	50.90	340	iPd	09	10.00	-0.4
	1.5s	1023.00nm			6.5mb	
		e		09	19.00	
		e		10	37.00	
LDF	50.94	333	iPd	09	09.60	-1.2
LPF	50.95	332	iPd	09	10.10	-0.8
CTFE	51.00	303	iPc	09	13.00	1.4
		i		09	21.20	
GRR	51.13	332	iPd	09	11.20	-1.0
FLN	51.23	333	iPd	09	11.70	-1.3
WIT	51.64	341	iPd	09	16.80	0.8
		e		09	24.00	
CHIE	52.23	301	iPd	09	22.00	1.1
KSH	52.27	43	P	09	22.00	0.8
		S		16	43.00	
TBT	52.45	302	ePd	09	23.00	0.4
		i		09	31.00	
FRU	53.09	39	i(P)	09	30.00	2.8X
PUL	54.29	359	iPd	09	35.00	-0.5
		eS		17	11.00	
GKN	54.85	59	Pd	09	38.60	-1.9
	0.6s	27.00nm			5.5mb X	
DMN	55.16	60	Pd	09	41.00	-1.9
NUR	55.29	356	iP	09	41.00	-1.9
	1.5s	1083.40nm			6.7mb	
		i		09	52.80	
		i		11	14.20	
		iPKKP		24	12.00	
PKI	55.41	60	Pd	09	42.60	-2.2
UPP	55.45	351	iP	09	42.40	-1.6
		i		09	50.60	
		eS		17	27.00	
GUN	55.89	60	Pd	09	46.00	-2.3
YRH	55.98	334	eP	09	47.00	-1.0
ECP	56.30	333	eP	09	49.40	-0.9
	1.9s	1260.00nm			6.6mb	
ETA	56.58	333	iPd	09	51.60	-0.7
	2.0s	1800.00nm			6.8mb	
KONO	56.78	347	iPc	09	51.80	-1.9
EKA	57.17	337	P	09	56.00	-0.5
	1.7s	847.20nm			6.5mb	
BLS1	57.22	345	eP	09	55.67	-1.3
SUF	57.39	357	iP	09	56.60	-1.3
EBL	57.45	337	iPd	09	57.40	-1.1
KMY	57.48	344	eP	09	58.86	0.2
NB2	57.69	348	P	09	58.00	-2.1
ODD1	57.72	345	iP	09	59.75	-0.7
VAL	57.98	331	iP	10	01.00	-1.1
EBH	57.98	338	iPd	10	01.30	-0.9
EDU	58.01	338	iPd	10	01.10	-1.3
ELO	58.22	338	ePd	10	02.60	-1.3
	1.1s	350.00nm			6.3mb	
EAB	58.25	337	ePd	10	02.90	-1.2
	0.8s	156.00nm			6.1mb	
BER	58.46	345	iP	10	04.83	-0.6
ASK	58.58	345	eP	10	05.50	-0.8
HYA	58.92	346	eP	10	07.45	-1.2
SUE	59.19	345	eP	10	09.44	-1.0
MOL	59.84	347	iP	10	13.72	-1.2
LSA	60.79	59	P	10	21.30	-1.3
N	24s	255.00um				
SOD	62.02	358	iP	10	28.60	-1.1
		i		10	38.20	
		iPKKP		24	06.20	
WMQ	62.06	43	iPd	10	30.00	-0.5
Z	10s	34.10um			6.8MszX	
N	22s	633.00um				
		PP		12	46.30	
BSI	63.13	87	ePc	10	38.90	0.9
KTK1	63.82	357	iPd	10	39.60	-2.0
LOF	63.89	352	iPd	10	40.30	-1.7
KEV	64.39	358	ePd	10	44.64	-0.6
	1.1s	463.10nm			6.6mb	
		epPc		10	49.60	16kmX
		i		10	54.20	
		ePKKP		24	07.80	
TRO	64.74	355	iPd	10	45.67	-1.9
TSI	66.52	89	ePd	10	59.50	-0.5
CHG	66.62	72	ePd	10	58.80	-1.7
	1.2s	103.52nm			5.9mb	
BDT	66.63	74	eP	10	59.90	-0.6
	1.0s	265.70nm			6.4mb	
NNT	67.29	79	iPc	11	04.00	-0.8
NST	67.68	75	eP	11	07.00	-0.2
SNG	68.33	84	eP	11	11.20	-0.2
IPM	68.89	87	ePd	11	15.00	0.1
	1.8s	797.20nm			6.6mb	
LOE	69.23	73	eP	11	15.00	-1.9
AKU	69.53	340	iP	11	19.20	1.4
	1.9s	1242.10nm			6.7mb	
KLM	69.61	89	eP	11	19.50	0.2
GTA	69.63	50	iPd	11	18.60	-0.6
	6.0s	8100.00nm			7.0mb X	
		PP		13	55.50	
		S		20	25.00	
REY	70.03	338	iP	11	23.10	2.2
JNW	70.36	347	iP	11	24.00	1.2
KMI	70.45	65	iPd	11	23.92	-0.6
	5.0s	5700.00nm			7.0mb X	
N	21s	116.00um				
E	24s	106.00um				
		epPc		11	29.06	17kmX
		sP		11	35.80	
		S		20	34.00	
		iS		20	39.00	
KGM	71.37	90	ePc	11	30.20	0.1
CD2	71.75	59	P	11	30.00	-2.1
	6.0s	8840.00nm			7.0mb X	
Z	30s	126.00um			7.0MszX	
N	16s	87.60um				
E	15s	55.60um				

24d 20h

		pP	11 41.50	38kmX		
		sP	11 45.00			
LZH	72.32	54 ePd	11 35.62	0.1		
	6.0s	8844.00nm		7.0mb X		
	Z 30s	125.90um		7.0MszX		
	N 16s	87.60um				
	E 15s	55.60um				
		ePPc	11 41.25	18kmX		
		sP	11 45.00			
		PP	14 30.00			
		i	16 02.00			
		S	21 22.00			
GYA	74.04	64 iPd	11 44.60	-1.1		
	6.0s	7100.00nm		6.9mb X		
	Z 20s	54.60um		6.8Msz		
	N 20s	102.00um				
	E 20s	96.70um				
		S	21 20.00			
KBS	74.21	356 iPd	11 45.40	-0.1		
MAW	76.04	168 iPd-	11 56.90	0.8		
	1.0s	182.00nm		6.1mb		
XAN	76.31	56 Pd	11 57.60	-0.9		
	1.5s	300.00nm		6.1mb		
	N 14s	57.10um				
	E 14s	35.10um				
		sP	12 07.00			
		PcP	12 11.00			
QIZ	76.94	72 iPd	12 02.00	-0.1		
	8.0s	******nm		6.9mb X		
	E 17s	91.70um				
		eS	21 42.00			
BTO	77.55	50 iPd	12 06.50	1.2		
HHC	78.74	50 iPd	12 13.00	1.2		
	6.0s	9500.00nm		7.0mb X		
	Z 30s	109.00um		7.0MszX		
	N 15s	30.00um				
	E 15s	76.20um				
TIY	79.30	53 iPd	12 14.50	-0.4		
	1.2s	1400.00nm		6.9mb		
	Z 34s	103.00um		6.9MszX		
	N 17s	84.60um				
GZH	80.11	68 Pd	12 20.30	0.9		
WHN	80.85	60 iPd	12 24.00	0.8		
	Z 28s	77.60um		6.9MszX		
	E 14s	56.70um				
HKC	80.90	68 iP	12 25.70	2.1		
		iS	22 04.00			
BAO	81.70	253 eP	12 28.50	0.5		
BJI	82.24	50 iPd	12 31.55	1.3		
	2.5s	2190.00nm		6.8mb		
	Z 16s	117.00um		7.3MszX		
		ipPc	12 37.02	17kmX		
		ePP	15 40.00			
		eS	22 50.00			
TIA	83.06	54 Pd	12 34.80	0.2		
	8.0s	7800.00nm		6.9mb X		
	N 15s	76.20um				
KKM	83.86	85 iPc	12 22.00	-17.2X		
		i	14 32.00			
HIA	84.60	41 iPd	12 42.98	0.8		
		ePPc	12 48.11	16kmX		
NJ2	84.66	58 Pd	12 43.20	0.5		
	6.0s	9200.00nm		7.2mb X		
	Z 21s	39.10um		6.8Msz		
	N 14s	43.90um				
	E 17s	55.00um				
QZH	84.82	66 iPd	12 45.00	1.3		
	6.0s	8100.00nm		7.1mb X		
	Z 20s	52.40um		6.9Msz		
	E 17s	51.70um				
NANU	86.22	113 iPd	12 40.00	-10.7X		
DL2	86.50	51 iPd	12 52.00	0.2		
	1.6s	1000.00nm		6.8mb		
	N 18s	53.60um				
	E 18s	55.90um				
SSE	86.70	59 P	12 53.20	0.3		
	6.0s	6600.00nm		7.0mb X		
TIK	87.17	18 iPd	12 54.00	-0.4		
		eS	23 28.00			
BAG	87.30	74 eP	12 56.00	-0.2		
	2.1s	1213.33nm		6.8mb		
MRWA	87.50	119 eP	12 56.00	-0.8		
		e	13 37.00			
SNY	87.76	48 iPd	12 58.00	0.2		
	6.0s	8400.00nm		7.2mb X		
	N 20s	104.00um				
	E 17s	43.10um				

		S	23 33.00			
QCP	87.92	76 eP	12 57.00	-2.0		
MUN	88.04	122 eP	13 00.00	0.7		
	1.8s	13.00nm		5.0mb X		
BAL	88.28	121 iPc	13 00.70	0.1		
	1.8s	11.00nm		4.9mb X		
CN2	88.93	46 Pd	13 02.50	-0.9		
	7.0s	5000.00nm		6.9mb X		
	Z 20s	61.70um		7.0Msz		
	N 14s	54.00um				
	E 14s	32.00um				
		sP	13 11.00			
		PP	16 38.00			
		iS	23 55.00			
KLB	89.30	122 iPc	13 05.20	-0.2		
MEKA	89.42	117 eP	13 05.00	-1.0		
		e	13 11.00			
FRB	89.82	334 eP	13 07.00	-0.1		
SCH	90.62	325 eP	13 11.00	-0.1		
MDJ	91.77	45 Pd	13 15.50	-1.1		
	1.5s	100.00nm		6.0mb		
	Z 26s	62.20um		6.9MszX		
	N 20s	165.00um				
		epP	13 21.10	17kmX		
		ePP	16 57.00			
		SKS	23 45.00			
BBL	91.78	286 eP	13 18.00	0.9		
SVB	91.79	283 eP	13 19.42	2.2		
FCV	91.80	283 eP	13 18.61	1.4		
PAG	91.92	286 eP	13 17.50	-0.3		
BPA	91.98	287 eP	13 17.00	-1.0		
COOL	92.11	121 P	13 18.00	-0.4		
TRN	92.20	281 eP	13 21.00	1.9		
TPP	92.29	281 eP	13 23.36	3.9X		
MGH	92.36	287 eP	13 17.50	-2.2		
EMM	92.87	315 P	13 22.80	1.2		
CBM	92.90	317 ePc	13 23.00	1.3		
SIV	94.25	254 P	13 28.40	-0.1		
SPA	95.32	180 iPd	13 33.10	0.5		
BNH	95.53	316 P	13 35.00	1.1		
SHK	95.86	55 eP	13 35.00	-0.6		
HRV	96.22	314 ePd	13 38.59	1.6		
MBC	96.82	353 eP	13 40.00	0.9		
HBVT	96.84	316 P	13 40.00	0.2		
TBR	98.47	313 P	13 47.00	-0.2		
CCH	99.19	253 (P)	13 52.00	0.8		
MAT	99.84	52 eP	13 53.00	-0.6		
	1.3s	53.85nm		5.9mb		
		eS	25 35.00			
LPB	101.02	254 ePdiff	13 56.00	-3.8X		
ZOBO	101.04	255 ePdiff	13 57.96	-2.1		
		epPd	14 02.76			
SCP	101.22	313 iPdiff	13 59.41	-0.3X		
ARE	104.27	254 ePdiff	14 05.00	-9.1X		
INK	105.79	354 ePdiff	14 18.00	-1.3		
INK	105.79	354 ePKP	18 38.00	6.0X		
PET	106.65	30 ePKP	18 35.00	0.9		
YKA	107.65	344 ePdiff	14 40.50	12.8X		
	1.2s	2.70nm				
YKA	107.65	344 ePKP	18 52.90	17.2X		
	1.7s	35.80nm				
RSCP	108.66	310 PKP	18 50.00	11.4X		
	Z 20s	47.46um		7.1Msz		
UPA	110.13	282 ePKP	18 42.00	0.1		
SLM	110.89	315 PKP	18 50.00	7.4X		
	Z 20s	35.00um		6.9Msz		
PMR	113.24	1 PKP	18 45.00	-1.3		
	Z 20s	39.00um		7.0Msz		
SMY	113.90	24 PKP	18 45.00	-2.9X		
	Z 20s	37.00um		7.0Msz		
SES	115.91	335 ePKP	18 51.00	-1.0		
UYO	115.91	312 iPKPd	18 52.30	-0.1		
LNO	116.07	314 ePKP	18 35.70	-16.8X		
TUL	116.07	314 ePKP	18 53.60	0.9		
	1.3s	30.20nm				
MEO	118.61	314 iPKPc	18 57.40	-0.2		
SDN	118.66	8 PKP	19 00.00	3.1X		
	Z 20s	42.50um		7.1Msz		
LRM	119.94	332 ePKP	18 57.90	-2.2		
NEW	120.07	337 PKP	18 58.00	-1.9		
PNT	120.15	339 ePKP	19 01.00	1.0		
GLD	120.20	323 PKP	19 00.50	-0.1		
	Z 20s	48.00um		7.1Msz		
GOL	120.32	323 ePKPc	19 00.00	-1.0		
	Z 20s	78.50um		7.3Msz		
IMW	120.61	329 PKP	19 00.00	-1.4		
GMW	122.77	340 PKP	19 05.00	0.0		

LON	123.11	339 PKP	19 04.00	-1.8		
LVVM	123.37	298 ePKP	19 07.30	0.3		
ANMO	123.91	319 PKP	19 07.00	-0.9		
ALQ	123.91	319 ePKP	19 07.00	-1.0		
	Z 20s	42.55um		7.1Msz		
OXX	124.52	295 iPKP	19 11.30	1.7		
PPM	125.53	298 ePKP	19 13.40	1.5		
CRX	126.33	299 iPKP	19 14.80	1.6		
III	126.53	297 iPKP	19 15.00	1.5		
ACX	127.41	296 (PKP)	19 14.50	-0.4		
KVN	127.80	330 ePKPd	19 14.50	-0.8		
TNP	128.10	329 PKP	19 15.50	-0.4		
MIN	128.39	334 iPKPd	19 15.90	-0.4		
		ePP	21 17.70			
HNR	128.41	98 ePdiff	16 03.00	1.7		
		e	21 23.00			
WDC	128.59	335 iPKPd	19 15.80	-0.7		
		ePP	21 17.80			
ORV	128.99	334 iPKPd	19 16.80	-0.5		
FHC	128.99	336 ePKPd	19 17.90	0.6		
CMB	129.70	331 iPKPd	19 18.70	-0.1		
		ePP	21 18.70			
CLC	130.00	327 ePKP	19 20.00	0.6		
FRI	130.20	330 iPKPd	19 19.90	0.3		
		ePP	21 23.90			
TPC	130.40	325 ePKP	19 21.00	0.8		
GLA	130.42	323 ePKP	19 21.00	0.7		
ISA	130.59	328 ePKP	19 21.00	0.5		
BKS	130.69	333 iPKP	19 22.10	1.5		
	1.3s	138.00nm				
		iPP	21 32.00			
		ePPP	22 56.00			
		iPPS	33 36.00			
		eSS	37 00.00			
		iSSS	44 00.00			
BRK	130.70	333 ePKPd	19 21.20	0.6		
ARN	130.79	332 PKP	19 21.00	0.1		
LLA	131.10	331 ePKPd	19 22.30	0.9		
PEC	131.19	325 PKP	19 22.00	0.3		
RVR	131.23	326 ePKP	19 23.00	1.3		
GCC	131.27	332 ePKPd	19 22.80	1.1		
PRI	131.34	330 iPKPd	19 23.40	1.4		
PLM	131.41	325 ePKP	19 23.00	0.7		
MWC	131.44	326 ePKP	19 23.00	0.6		
PRS	131.53	331 ePKPd	19 23.00	0.8		
PAS	131.56	326 iPKPd	19 22.93	0.6		
		i	19 29.55			
ABL	131.60	328 PKP	19 23.50	0.8		
BAR	131.78	324 ePKP	19 24.00	1.1		
BCH	131.79	329 PKP	19 24.00	1.1		
SYP	132.25	328 ePKP	19 26.00	2.2		
HON	151.78	20 PKP	20 00.00	2.1		
	Z 20s	15.43um		6.8Msz		
TBI	162.07	176 PKP	20 14.40	4.0X		
	1.2s	180.00nm				
TVO	167.61	175 PKP	20 18.80	3.3X		
	1.5s	455.00nm				
PAE	167.69	174 PKP	20 18.30	2.9X		
	1.5s	225.00nm				
PPT	167.78	174 PKP	20 18.60	3.1X		
	1.5s	290.00nm				
PPN	167.84	174 PKP	20 19.00	3.4X		
	1.5s	195.00nm				
VAH	170.17	183 PKP	20 19.80	2.8X		
	1.5s	195.00nm				
RUV	170.20	184 PKP	20 19.80	2.8X		
	1.5s	165.00nm				
PMO	170.41	181 PKP	20 20.10	3.0X		
	1.5s	260.00nm				
TPT	170.42	183 PKP	20 20.30	3.2X		
	1.5s	350.00nm				

S.D. = 1.0 on 404 of 438 obs.

& MAY 24, 1990 20h 01m 17.46s
58.739 N 153.018 W
DEPTH = 69.1km
KODIAK ISLAND REGION (13)
<AGS-P>.

CDD	0.38	301 iP	01 28.25	-1.1		
		iS	01 37.58			
AUE	0.65	344 iP	01 31.31	-0.6		
		eS	01 42.93			
AUL	0.68	342 eP	01 31.49	-0.8		
MCNL	0.82	304 iP	01 33.11	-0.8		
		eS	01 45.33			
XLV	0.98	42 eP	01 35.03	-0.9		

			eS	01 47.74		
KDC	1.03	164	eP	01 35.69	-0.8	
			eS	01 51.10		
CNPM	1.21	49	eP	01 38.03	-0.9	
			eS	01 53.97		
NNL	1.58	33	iP	01 44.00	0.2	
RED	1.69	4	eP	01 44.15	-1.3	
RDT	1.87	9	eP	01 46.79	-1.1	
NKA	2.20	23	eP	01 54.61	2.2	
SLKM	2.27	37	eP	01 52.12	-1.4	
SEW	2.28	52	eP	01 52.84	-0.7	
SPU	2.50	11	iP	01 55.87	-0.8	
CRP	2.57	9	eP	01 57.24	-0.6	
SUA	2.96	22	eP	02 02.66	-0.5	
PMS	3.06	33	eP	02 01.57	-2.9	
INK	12.87	34	eP	04 31.00	12.1	

18 obs. associated

MAY 24, 1990 20h 09m 23.24± 0.08s
7.363 S ± 2.8km 120.363 E ± 3.2km
DEPTH = 588.9km (14 depth phases)
6.4mb (25 obs.)
FLORES SEA (279)

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=245 Dip=65 Slip= -90
NP2: 65 25 -90
Principal Axes:
T Plg=20 Azm=335
P 70 155

Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting. The preferred fault plane is NP1.

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C M.W.: 9S, 19C
Centroid Location:
Origin Time 20:09:31.0 0.4
Lat 7.30S 0.03 Lon 120.95E 0.06
Dep 580.3 3.2 Half-duration 11.0
Moment Tensor; Scale 10**19 Nm
Mrr=-3.69 0.14 Mtt= 2.16 0.17
Mff= 1.53 0.23 Mrt= 2.94 0.13
Mrf= 0.98 0.14 Mtf= 1.18 0.14
Principal Axes:
T Val= 4.20 Plg=21 Azm=329
N 0.75 7 61
P -4.95 68 169
Best Double Couple:Mo=4.6*10**19
NP1:Strike= 46 Dip=25 Slip=-107
NP2: 245 66 -82

MKS	2.31	337	iPd	10 40.00	1.7	
			iS	11 57.00		
AAI	8.61	65	ePd	11 28.60	0.0	
			eS	13 05.00		
MNI	9.82	27	ePd	11 41.50	1.0	
			eS	11 47.00		
KNA	11.71	136	iPc	11 58.70	-0.5	
TSM	11.73	349	iPd	12 02.20	2.8X	
MTN	11.92	118	iPc	12 00.80	-0.4	
MBL	13.73	182	iPc	12 19.20	0.2	
DAV	15.27	20	iPc+	12 34.90	0.8	
	1.8s	*******	nm		7.4mb X	
WB5	18.42	134	iPd	13 03.80	-0.5	
WRA	18.44	134	P	13 04.50	0.0	
KGM	19.39	298	iPc	13 14.50	1.2	
			i	13 19.50	19kmX	
			i	13 49.70		
WARB	19.65	163	iPd	13 15.20	-0.5	
	0.3s	33.00	nm		5.4mb	
KLM	21.38	298	ePc	13 31.70	0.2	
QCP	21.87	2	iP	13 35.00	-0.9	
IPM	22.65	301	eP	13 43.00	0.0	
			e	15 05.20		
			e	15 37.00		
QIS	22.78	127	iPd	13 43.00	-1.2	
MNDI	23.16	88	iP	13 48.00	0.1	
BAL	23.38	188	eP	13 48.00	-1.4	
COOL	23.41	178	iPd	13 48.00	-1.8	
PSI	23.61	294	ePc	13 50.50	-1.1	
BAG	23.62	1	iPc+	13 49.00	-2.9	
			e	19 54.80		
			e	23 37.90		
KL8	24.23	185	eP	13 55.00	-2.0	
SNG	24.42	306	eP	14 02.20	3.4X	
MUN	24.80	188	eP	14 01.00	-0.9	
	1.0s	880.00	nm		6.3mb	
LAT	26.45	90	eP	14 16.50	-0.1	
PMG	26.58	96	iPd-	14 16.90	-0.8	
	0.9s	1579.83	nm		6.6mb	
RKG	26.76	186	iPd	14 23.70	4.6X	
CTA	28.10	119	iPd-	14 30.10	-0.9	
			i	14 36.00	21kmX	
			iS	16 58.00		
CTAO	28.10	119	iPd	14 31.38	0.4	
QIZ	28.20	339	iPc	14 31.60	-0.2	
			S	18 32.60		
QLP	29.67	133	iP	14 44.50	0.1	
			e	16 12.50		
			e	17 30.00		
			ePKKP	47 05.00		
MCO	30.05	347	iP	14 47.00	-0.6	
HKC	30.10	349	iP	14 47.40	-0.6	
NST	30.42	319	eP	14 51.60	0.8	
			e	17 34.00		
			e	20 21.50		
LOE	30.74	323	eP	14 52.00	-1.5	
GZH	31.03	347	iPc	14 56.00	0.2	
	6.0s	*******	nm		7.5mb X	
STK	31.41	144	P	14 59.00	0.0	
GUMO	32.02	50	eP	15 04.00	-0.2	
PJG	32.02	50	eP	15 04.20	0.0	
GUA	32.02	50	eP	15 04.20	-0.1	
	0.9s	2178.15	nm		6.8mb	
			e	15 59.30	278kmX	
			eS	19 32.50		
			i	19 53.80		
QZH	32.16	357	iPc	15 04.50	-0.7	
	4.0s	*******	nm		7.7mb X	
			S	19 35.00		
ANP	32.37	2	iP	15 06.00	-1.2	
			eS	15 19.00		
RMQ	33.02	129	iPd	15 13.30	0.7	
			e	16 47.30		
			eS	20 11.60		
CHG	33.51	321	iPd	15 16.50	-0.2	
			e	19 12.00		
			eS	19 56.00		
CMS	33.78	139	iPd	15 19.20	0.3	
			e	19 43.00		
			e	20 52.00		
BFD	35.88	149	iPd	15 36.00	-0.2	
			ePcP	17 17.00		
			eS	20 33.50		
			i	22 40.00		
			iScS	24 12.40		
GYA	36.15	339	iPc	15 39.00	0.4	
	5.0s	*******	nm		7.3mb X	
			pP	17 29.00		
			S	20 39.00		
			ScS	24 48.00		
KMI	36.57	333	iP+	15 44.00	1.8	
	7.0s	74.80	nm		4.4mb X	
N	15s	27.60	um			
E	16s	37.70	um			
			iS	23 58.00		
BRS	36.60	127	iPc	15 43.90	1.6	
	0.5s	58.00	nm		5.5mb	
			i	17 25.00	570kmX	
			i	20 46.00		
			i	24 04.00		
			e	27 29.00		
COO	37.48	132	iPd	15 50.80	1.4	
TOO	37.74	147	iPc	15 52.70	1.3	
	0.4s	214.00	nm		6.1mb	
			e	17 34.00	594km	
			e	21 00.00		
			e	24 20.00		
WHN	38.13	352	iPc	15 55.50	0.9	
	7.0s	*******	nm		6.9mb X	
			sP	18 40.00		
SSE	38.25	1	iPd	15 56.00	0.5	
	6.0s	*******	nm		7.2mb X	
			S	21 02.00		
CAN	38.26	141	iPd	15 56.00	0.2	
			e	17 37.00	588km	
			e	47 38.50		
CNB	38.49	140	iPc	15 58.40	0.8	
			e	17 39.00	583km	
			e	21 04.00		
			e	24 32.00		
			e	29 24.00		
RIV	38.76	137	iPd	16 01.70	2.0	
	1.0s	*******	nm		8.0mb X	
			e	17 40.00	560kmX	
			iS	21 19.50		
NJ2	39.22	358	iPc	16 03.80	0.4	
	4.0s	*******	nm		7.3mb X	
			S	21 16.00		
CD2	41.25	338	P	16 18.00	-1.7	
			iS	21 48.00		
TAU	42.62	151	iPd	16 31.44	1.1	
SHK	43.26	15	iPc	16 34.20	-1.3	
	1.0s	1180.00	nm		6.4mb	
			e	18 11.30	530kmX	
			e	21 07.00		
TIA	43.45	356	Pc	16 35.80	-1.1	
TIY	45.45	351	iPc	16 51.00	-1.4	
	1.2s	1400.00	nm		6.4mb	
			pP	18 36.00	585km	
LZH	45.92	341	iPc	16 56.76	0.6	
DL2	46.05	1	iPc	16 56.00	-0.8	
	1.6s	4800.00	nm		6.8mb	
KOD	46.15	292	iP	16 57.00	-1.4	
LSA	46.33	324	P	16 59.00	-0.7	
			S	23 03.00		
DZM	46.71	113	iPd	17 02.00	-0.3	
			iS	18 23.00		
MAJO	46.77	20	iPc	17 00.29	-2.1	
			ipPc	18 46.89	592km	
			esPd	19 51.78		
			iScP	21 20.98		
MAT	46.77	20	iPc	17 01.00	-1.4	
			eS	23 04.00		
BJI	47.32	356	iPc	17 05.44	-1.0	
			ePP	18 52.00		
			S	23 14.00		
			eScS	25 56.00		
PVC	47.80	107	iPd	17 11.50	1.0	
HYB	48.09	301	iPc	17 10.60	-2.1	
	1.0s	880.00	nm		6.2mb	
			iS	23 18.00		
HHC	48.65	351	P	17 15.50	-1.1	
			S	23 40.00		
BTO	48.67	350	iPc	17 16.00	-0.7	
	6.0s	*******	nm		6.7mb X	
SNY	49.04	3	iPc	17 17.00	-2.2	
	6.0s	*******	nm		7.0mb X	
			pP	19 05.00	591km	
			PcS	22 29.00		
GTA	50.28	339	iPc	17 28.80	0.1	
	5.5s	*******	nm		7.3mb X	
			S	23 59.00		
CN2	51.13	5	iPc	17 31.80	-2.8	
			PcP	18 39.00		
			pP	19 19.00	574kmX	
			ePP	19 34.00		
			ScS	26 21.20		
MDJ	52.40	8	iPc	17 42.70	-1.1	
			S	24 24.00		
POO	52.60	300	iPc	17 43.50	-2.2	
	1.0s	1030.00	nm		6.2mb	
SAP	53.68	19	iP	17 52.50	-0.4	
			eS	24 41.00		
MSZ	55.47	140	P	18 04.80	-0.6	
			PcP	18 55.00		
			pP	19 58.00	596km	
			S	25 05.00		
			RRPKP	47 40.00		
MCQ	56.25	154	iPd	18 11.10	0.6	
			eS	20 04.00		
HIA	56.39	360	iPc	18 10.12	-1.5	
TLC	56.44	140	P	18 10.90	-1.3	
MHZ	56.51	140	P	18 11.30	-1.4	
SVA	57.46	107	iPd	18 19.00	-0.4	
VUN	57.46	107	iPd	18 18.90	-0.5	
LTZ	57.54	137	Pd	18 18.70	-1.0	
THZ	57.60	135	Pd	18 19.60	-0.5	
MBU	57.66	105	ePd	18 20.60	-0.2	
YSS	57.67	18	P	18 20.00	-0.3	
OVA	57.75	106	eP	18 21.50	0.1	
MQZ	58.15	138	Pc	18 23.20	-0.5	
NDE	58.22	105	ePd	18 25.00	0.3	
KHZ	58.28	136	P	18 24.10	-0.5	
WLZ	58.29	130	P	18 25.30	0.6	
KRO	58.32	106	ePd	18 24.60	-0.6	
TCW	58.38	134	P	18 23.90	-1.4	
CCW	58.52	135	Pd	18 25.20	-1.0	
MRW	58.69	134	P	18 25.70	-1.6	

24d 20h

SNZO		58.71	134	iP	18	26.00	-1.5	SOD		98.19	337	iP	21	57.60	-1.0			1.2s	41.10nm								
				PcP	19	05.00						i	22	15.80	64kmX	FIN	110.94	315	PKP	26	51.99	0.1						
				pP	20	22.00	600kmX	SUF		98.43	332	iP	21	58.80	-1.0	MOF	110.95	318	PKP	26	51.29	-0.6						
				S	25	47.00		NUR		99.18	330	iP	22	03.00	-0.1	MEM	111.02	322	iPKPd	26	59.00	7.3X						
				ScS	27	13.00				1.0s	178.00nm				6.5mb	DIX	111.14	317	ePKPc	26	52.40	-0.1						
				e	47	54.00		RKT		100.45	115	iPdiff	22	14.00	4.3X	ROB	111.17	315	PKP	26	52.50	0.1						
WEL		58.75	134	Pd	18	26.40	-1.3			1.2s	165.00nm				6.4mb	BSF	111.18	319	PKP	26	52.20	-0.1						
				e	20	22.60	601kmX	KRA		102.30	320	iPdiff	22	18.50	1.2	IMI	111.22	314	PKP	26	52.70	0.2						
TVI		58.85	105	ePd	18	28.90	0.1			0.9s	75.00nm				6.3mb	LOMF	111.26	318	PKP	26	52.13	-0.4						
WMQ		58.90	333	iPc	18	28.73	0.0	UPP		102.72	330	iPdiff	22	18.30	-0.6	RSP	111.43	316	PKP	26	52.29	-0.6						
				S	25	48.00		INK		102.74	21	ePdiff	22	19.00	0.2	HAU	111.43	319	iPKPd	26	52.40	-0.3						
CAW		58.91	134	P	18	27.40	-1.4			1.0s	90.00nm				6.4mb		0.9s	217.55nm										
WDW		58.91	134	P	18	27.00	-1.8	SIT		103.92	33	Pdiff	22	24.00	-0.3	LSD	111.44	316	PKP	26	53.73	0.6						
MTW		59.23	134	Pd	18	29.50	-1.4			1.2s	75.76nm				6.3mb	EMS	111.47	317	ePKPc	26	53.20	0.1						
BLW		59.28	134	Pd	18	30.10	-1.2	MBC		104.08	12	ePdiff	22	25.50	0.9	ENR	111.50	315	PKP	26	52.40	-0.6						
PGZ		59.62	133	Pc	18	32.50	-1.0	HVAR		105.15	313	iPKP	26	40.00	-0.9	AUTN	111.54	314	PKP	26	53.18	-0.1						
TTH		59.70	132	P	18	33.60	-0.5	PTJ		105.27	315	iPKP	26	41.10	-0.1	SBF	111.56	314	iPKPd	26	53.10	0.0						
MOH		59.83	131	P	18	34.40	-0.5	NB2		105.64	331	Pdiff	22	30.80	-1.1	STV	111.56	315	PKP	26	52.50	-0.6						
HBZ		60.29	129	Pd	18	37.70	-0.3			0.9s	51.70nm				6.4mb	DOI	111.57	315	PKP	26	51.47	-1.7						
				e	20	36.60	614kmX	MGR		106.03	310	PKP	27	01.26	18.6X		1.1s	429.80nm										
NOZ		60.36	130	Pd	18	37.60	-0.8	BRG		106.03	321	e(Pdif	22	33.80	0.0	VITF	111.62	319	PKP	26	53.15	0.2						
PUZ		60.38	130	Pd	18	37.50	-1.1			1.6s	85.00nm				6.3mb	AURF	111.63	314	PKP	26	53.30	0.0						
QUE		63.37	309	iPc	18	56.80	-1.4	SGO		106.19	310	PKP	26	58.58	15.6X	REVF	111.63	314	PKP	26	53.32	0.1						
				e	20	54.00	589km			0.9s	7.10nm					TOUF	111.66	314	PKP	26	53.58	0.1						
MAW		71.23	200	iPd-	19	45.00	0.1	CLL		106.55	321	i(PKP)	26	43.00	-0.3	PZZ	111.67	315	PKP	26	52.91	-0.5						
	Z	16s	31.00um				6.7MszX	TRI		106.82	315	PKP	26	44.00	0.0	LPG	111.71	316	iPKPd	26	53.80	0.1						
MHI		71.64	312	iPd	19	48.00	0.0	MOL		106.91	334	iPKPc	26	44.27	0.6		0.6s	35.25nm										
		1.5s	5211.11nm				6.8mb	AZI		107.47	312	PKP	26	45.59	0.3	LPL	111.72	316	iPKPd	26	53.70	0.1						
				eS	21	47.00				1.0s	53.80nm					MVIF	111.75	314	PKP	26	53.72	0.1						
SBA		74.38	171	iPd-	20	04.00	1.3	HYA		107.95	332	iPKPc	26	46.00	0.4	RRL	111.81	315	PKP	26	54.24	0.5						
				S	28	55.60		MNS		107.98	312	PKP	26	45.91	-0.5	BNI	111.86	316	PKP	26	53.90	0.2						
SMY		75.18	30	P	20	08.40	1.0			0.8s	614.40nm					CALN	111.96	314	PKP	26	54.23	0.2						
				pP	22	10.00	581km	RDP		108.02	311	PKP	26	37.84	-8.7X	UCC	111.98	322	PKP	26	54.00	0.4						
BRF		75.36	299	iP	20	12.00	3.0X			1.4s	938.80nm					DOU	112.03	321	iPKPd	26	54.30	0.6						
		0.4s	237.00nm				6.1mb	RMP		108.03	311	PKP	26	46.90	0.5				e	33	47.70							
TEH		77.56	309	ePc	20	22.00	1.0			1.3s	597.30nm					YKA	112.15	24	ePdiff	23	02.00	1.3						
ADK		79.65	34	P	20	32.00	0.7	WATA		108.09	317	iPKPc	26	46.60	0.0		0.9s	9.70nm										
		1.1s	2000.00nm				6.5mb			1.2s	406.00nm					YKA	112.15	24	ePKP	26	43.70	-9.9X						
				pP	22	36.00	585km					i	27	13.10			0.5s	12.70nm										
TAB		82.12	310	iPc	20	46.30	1.8	ODD1		108.13	331	iPKPc	26	46.64	0.5	FRF	112.17	314	iPKPd	26	54.10	-0.1						
SPA		82.69	180	iPd	20	46.60	-0.2	FUR		108.16	318	iPKPd	26	46.60	0.1	LMR	112.32	314	iPKPd	26	54.40	-0.1						
HON		84.92	68	P	21	00.00	1.6			0.8s	353.00nm						0.9s	62.25nm										
DHH		85.09	68	P	21	01.00	1.8	BLS1		108.18	330	iPKPc	26	46.74	0.4	LRG	112.40	314	iPKPd	26	54.80	0.2						
BKR		85.15	313	iPd	21	01.40	2.0	CTI		108.24	316	PKP	26	47.06	0.2		0.8s	125.95nm										
ILT		86.30	19	iPd	21	05.00	0.9			1.2s	1137.70nm					PGC	112.68	40	iPKPc	26	55.80	0.8						
				iS	30	34.00		SQTA		108.36	317	i(PKP)	26	47.50	0.4		0.8s	164.00nm										
TBI		87.29	113	iP	21	11.20	1.5			1.0s	277.00nm					MCW	113.06	40	PKP	26	56.80	0.9						
		1.2s	2885.00nm				6.9mb					ic	38	00.70		LBF	113.24	318	iPKPd	26	56.20	-0.1						
AFR		87.68	107	iP	21	14.90	3.3X					i	38	16.00		LOR	113.25	318	iPKPd	26	56.10	-0.2						
PAE		87.85	107	iP	21	15.60	3.2X	SFI		108.39	314	PKP	26	43.79	-3.2X		0.9s	166.35nm										
PPT		87.87	107	iP	21	15.80	3.3X			1.4s	2976.00nm					BMW	113.38	42	PKP	27	02.30	5.7X						
PPN		88.01	107	iP	21	16.40	3.3X	OGA		108.54	317	iPKPc	26	48.10	0.6	GMW	113.40	41	PKP	26	57.00	0.4						
TVO		88.15	108	iP	21	17.20	3.3X	BER		108.60	332	iPKPc	26	47.70	0.8	SMF	113.42	318	iPKPd	26	56.20	-0.4						
PMO		89.79	105	iP	21	24.50	3.2X	ASK		108.63	332	iPKP	26	47.50	0.6	SSF	113.53	318	iPKPd	26	56.80	0.0						
SDN		89.87	34	P	21	21.00	0.1	SUE		108.65	332	ePKP	26	46.46	-0.5	AVF	113.70	318	iPKPd	26	56.60	-0.5						
ANM		89.92	25	P	21	22.20	1.2	KMY		109.01	330	iPKPc	26	48.06	0.4	PLDF	113.74	317	PKP	26	57.64	0.3						
VAH		90.01	105	iP	21	25.30	2.9X	MAO		109.10	312	PKP	26	48.58	0.1	AGO	114.04	317	PKP	26	57.86	0.0						
TPT		90.06	105	iP	21	25.70	3.1X			0.9s	247.40nm					RMW	114.06	41	PKP	26	57.90	0.0						
RUV		90.26	105	iP	21	26.40	2.9X	OSS		109.17	317	ePKPc	26	49.00	0.3	EDU	114.09	330	iPKPd	26	57.20	-0.3						
		1.2s	2525.00nm				7.0mb	BDI		109.27	314	PKP	26	46.97	-1.8	BGF	114.10	318	iPKPd	26	58.20	0.3						
KVT		90.52	311	iP	21	24.80	0.5			0.4s	334.80nm					SHW	114.12	43	PKP	26	59.20	1.1						
KAS		92.26	311	iPc	21	34.20	1.8	PII		109.37	314	PKP	26	47.58	-1.3	FHC	114.13	49	iPKPd	26	59.40	1.2						
OBN		92.42	325	iPc	21	33.00	0.4			1.2s	378.50nm								ePKKP	37	42.00							
		1.0s	550.00nm				6.5mb	TNS		109.59	321	iPKPd	26	48.90	-0.3	ESY	114.15	329	iPKPd	26	57.20	-0.5						
				iSKS	31	09.00		SAX		109.61	318	ePKPc	26	49.60	0.0	LBL	114.18	316	PKP	26	58.75	0.7						
SVW		93.50	29	P	21	38.70	1.1	VDL		109.66	317	ePKPc	26	49.80	0.2	PYM	114.21	317	PKP	26	58.46	0.2						
TTA		93.60	27	P	21	38.00	-0.1	LLS		109.91	317	ePKPc	26	50.20	0.1	MAF	114.38	318	iPKPd	26	58.70	0.2						
				pP	23	47.00	592km	BOB		109.97	315	PKP	26	50.06	-0.1	EBL	114.43	329	iPKPd	26	57.40	-0.8						
KDC		94.64	33	P	21	43.20	0.5			1.4s	1718.60nm					EDI	114.44	329	iPKPd	26	58.20	0.0						
GPA		94.74	310	iP	21	43.50	-0.2	SLE		110.07	318	ePKPc	26	49.60	-0.5	EBH	114.47	329	iPKPd	26	58.10	-0.2						
ALT		94.78	309	eP	21	44.00	0.1	TMA		110.14	316	ePKPc	26	50.20	-0.3	ELO	114.48	330	iPKPd	26	58.20	-0.1						
IMA		95.03	24	P	21	45.20	0.6	ZLA		110.20	318	ePKPc	26	50.10	-0.3	TCF	114.60	318	iPKPd	26	58.80	-0.1						
				pP	23	54.00	590km	FEL		110.37	318	PKP	26	50.35	-0.5	EAU	114.61	329	iPKPd	26	59.10	0.5						
KHL		95.17	308	eP	21	46.00	0.3	STR		110.38	319	PKP	26	50.77	0.1	EKA	114.67	328	PKPd	26	59.80	1.1						
IZI		95.39	310	eP	21	47.60	1.0	GWF		110.39	320	PKP	26	50.83	0.1		1.1s	306.70nm										
YLV		95.48	310	iP	21	47.10	0.1	PCP		110.65	315	PKP	26	51.47	0.1	PNT	114.90	39	ePKPd	27	00.00	0.7						
ISK		95.76	311	eP	21	49.00	0.9	PGF		110.66	313	PKP	26	51.74	0.2	EAB	114.91	330	iPKP	26	59.10	0.0						
EDC		96.61	310	eP	21	51.70	-0.3	WLS		110.69	319	PKP	26	50.77	-0.5	AKU	115.04	342	iPKPd	27	01.10	2.1						
PMR		96.66	29	P	21	51.50	-0.2	CDF		110.74	319	PKP	26	50.94	-0.5		1.2s	656.25nm										
				pP	23	59.50	585km	MMK		110.77	316	ePKPc	26	52.10	0.3				i	29	41.80							
IZM		96.94	308	eP	21	46.80	-6.8X	BBS		110.79	318	PKP	26	50.88	-0.6	LSF	115.06	318	iPKPd	26	59.70	0.0						
KGT		97.05	310	iP	21	54.60	0.6	ORX		110.84	316	PKP	26	51.78	0.0	CAF	115.06	316	iPKPd	27	00.20	0.4						
FBA		97.40	25	P	21	53.70	-1.4	ORO		110.84	316	PKP	26	51.00	-0.8	WDC	115.25	49	iPKPd	27	00.40	0.1						
				pP	24	04.00	598km	CKI		110.85	315	PKP	26	51.18	-0.5				esPKP	29	40.60							
KEV		98.02	339	iP	21	58.20	0.3			1.1s	216.10nm								ePKKP	37	36.20							
		0.7s	32.00nm				5.8mb	ECH		110.86	319	PKP	26	51.03	-0.6				eSKKP	41	38.30							
TOA		98.08	28	P	22	01.20	2.9X	CGL		110.90	309	PKP	26	51.91	-0.2	VGB	115.29	43	PKP	27	00.70	0.5						

RJF	115.34	317	iPKPd	27	00.50	0.2
LDF	115.42	321	iPKPd	27	00.20	-0.1
NWRM	115.43	51	PKP	27	01.00	0.4
FLN	115.59	321	iPKPd	27	00.60	0.0
	0.7s	241.15nm				
LPO	115.73	316	iPKPd	27	01.50	0.5
GRR	115.95	321	iPKPd	27	01.20	-0.1
LFF	115.97	317	iPKPd	27	01.80	0.3
MIN	116.00	49	iPKPd	27	01.70	-0.2
			ePKKP	37	34.40	
PCC	116.00	52	iPKPd	27	02.10	0.3
BRK	116.03	51	iPKPd	27	02.30	0.5
			esPKP	29	42.40	
			ePKKP	37	35.10	
BKS	116.04	51	iPKP	27	02.60	0.7
	1.0s	804.00nm				
			isPKP	30	13.00	
			iSP	37	04.00	
MFF	116.07	319	iPKPd	27	01.50	-0.1
LPF	116.18	320	iPKPd	27	01.80	0.0
ORV	116.25	49	iPKPd	27	02.30	0.1
			esPKP	29	42.50	
			ePKKP	37	33.30	
DPW	116.26	40	PKP	27	02.00	0.0
GCC	116.40	52	iPKPd	27	02.50	0.0
			esPKP	29	42.40	
			ePKKP	37	39.80	
YRH	116.51	326	ePKP	27	02.00	-0.2
			e	28	21.00	
ARN	116.70	52	PKP	27	03.50	0.3
EPF	116.77	315	iPKPd	27	03.30	0.1
	0.7s	51.70nm				
SAO	116.88	53	ePKP	27	04.00	0.5
			ePKKP	37	37.20	
PRS	117.03	53	iPKPd	27	04.70	0.9
			esPKP	29	44.80	
			ePKKP	37	37.20	
			eP'P'	45	11.90	
EDM	117.05	33	iPKPc	27	03.90	0.6
EBR	117.24	312	iPKP	27	04.00	0.0
			e	34	22.00	
JAU	117.27	315	PKP	27	04.97	0.7
REY	117.29	342	iPKPd	27	04.90	1.6
			i	29	45.70	
LLA	117.31	53	iPKPd	27	05.30	1.0
			esPKP	29	45.60	
			ePKKP	37	36.10	
			eSKKP	41	25.50	
			eP'P'	45	10.10	
OGE	117.31	315	PKP	27	04.33	0.2
ESCF	117.40	315	PKP	27	04.68	0.4
ETA	117.43	327	iPKPd	27	04.30	0.3
	0.5s	496.00nm				
			e	28	23.00	
CMB	117.44	51	iPKPd	27	04.90	0.3
			isPKP	29	45.20	
			ePKKP	37	29.60	
			eSKKP	41	31.20	
			eP'P'	45	10.00	
LHE	117.48	315	PKP	27	05.22	0.7
ATE	117.49	315	PKP	27	05.05	0.6
MADF	117.56	315	PKP	27	04.72	0.1
ISSF	117.57	315	PKP	27	05.50	0.7
PRI	117.62	53	iPKPd	27	06.30	1.2
			esPKP	29	46.80	
			ePKKP	37	30.00	
			eP'P'	45	08.20	
ELYF	117.67	315	PKP	27	04.88	0.0
BOH	117.70	315	PKP	27	05.37	0.4
ECP	117.75	326	iPKPd	27	04.70	0.1
	0.7s	711.00nm				
			e	28	24.00	
PHAM	117.90	53	PKP	27	01.30	-4.2X
BST	117.98	321	PKP	27	04.64	-0.5
FRI	118.20	52	iPKPd	27	06.40	0.5
			isPKP	29	46.40	
			ePKKP	37	26.30	
			eSKKP	41	22.80	
			eP'P'	45	05.00	
SYP	118.49	55	iPKPd	27	07.00	0.2
KVN	118.94	49	iPKPd	27	08.00	0.4
ISA	119.46	53	ePKP	27	09.00	0.5
SES	119.59	35	ePKP	27	09.00	0.7
	0.8s	902.00nm				
TNP	119.86	50	PKP	27	08.30	-1.1
VAL	119.98	327	iPKP	27	08.90	0.1
CIS	120.00	56	ePKP	27	11.00	1.5
PAS	120.03	55	iPKPd	27	10.50	0.9
			esP	30	30.00	
			ePP	32	05.00	
			ePPP	34	41.00	
			eSKKS	37	57.00	
			eSS	39	00.00	
			e	39	55.00	
			ePKKP	41	08.00	
			ePS	42	08.00	
			esPS	44	48.00	
MWC	120.11	55	iPKPd	27	10.00	0.0
			e	28	43.00	
			e	29	51.00	
CLC	120.12	53	iPKPd	27	10.00	0.2
			e	28	15.00	
			e	29	10.00	
CLC	120.12	53	ePKP	27	11.60	1.8
SBB	120.20	54	ePKP	27	11.80	1.9
LRM	120.68	40	iPKPd	27	10.80	0.0
RVR	120.71	55	iPKPd	27	11.00	0.2
GSC	120.87	53	ePKP	27	13.40	2.2
PEC	120.91	55	PKP	27	11.00	-0.3
HPI	121.06	43	PKP	27	12.20	0.6
CPE	121.18	56	ePKP	27	13.60	1.8
PLM	121.27	55	ePKP	27	12.00	-0.2
ASMO	121.34	309	iPKPd	27	11.26	-0.8
APHE	121.41	309	iPKPd	27	11.54	-0.7
ACHM	121.47	309	ePKP	27	11.80	-0.5
BAR	121.57	56	iPKP+	27	13.00	0.4
			e	28	53.00	
			e	29	54.00	
BAR	121.57	56	ePKP	27	14.50	1.9
AAPN	121.64	309	iPKPd	27	12.08	-0.6
ATEJ	121.67	309	iPKPd	27	11.96	-0.8
ALOJ	121.68	309	iPKPd	27	12.03	-0.7
TPC	121.76	54	iPKPd	27	13.00	0.1
PTI	121.86	44	PKP	27	15.20	2.2
FFC	121.94	27	iPKPd	27	12.50	0.0
	0.8s	497.00nm				
IKP	122.04	56	ePKP	27	15.80	2.3
HAY	122.18	55	ePKP	27	16.00	2.3
ALJ	122.96	309	ePKP	27	15.00	-0.3
GLA	123.00	55	iPKPd	27	16.00	0.6
			e	28	03.00	
			e	29	59.00	
OJEN	123.07	308	ePKP	27	16.00	0.5
MOMI	123.15	309	ePKP	27	17.50	2.0
GIBL	123.18	309	ePKP	27	16.50	0.9
PLAT	123.24	309	ePKP	27	17.00	1.3
FRB	123.35	5	ePKP	27	14.00	-1.0
	0.8s	584.00nm				
CNIL	123.39	309	ePKP	27	17.00	1.1
DAU	123.53	46	PKP	27	16.80	0.3
PTO	123.68	315	iPKPd	27	16.70	0.4
LIS	124.96	313	iPKPd	27	17.50	-1.4
KIC	125.52	273	PKP	27	20.94	0.2
LIC	125.79	272	PKP	27	21.36	0.1
TIC	125.81	273	PKP	27	21.46	0.2
ANMO	129.06	50	PKP	27	27.00	-0.1
ALQ	129.06	50	ePKP	27	25.00	-2.2
			e	29	42.00	
			i	29	54.00	
MZX	132.43	65	ePKP	27	18.70	-14.9X
			(S)	30	07.30	
TUL	136.42	44	ePKP	27	29.60	-11.2X
	0.6s	16.50nm				
LNO	136.43	44	ePKP	27	20.20	-20.5X
AGX	136.44	66	ePKP	27	36.16	-5.0X
LNV	137.42	165	iPKPd	27	32.00	-10.7X
			i	30	21.00	
CHCH	137.62	166	ePKP	27	33.30	-9.9X
			i	27	43.50	
TACH	137.82	166	ePKPd	27	32.00	-11.5X
			i	27	43.50	
			i	30	21.50	
LCCH	137.84	165	iPKPc	27	34.50	-9.0X
			i	30	22.50	
PCH	137.95	166	ePKPd	27	33.00	-10.9X
			i	27	44.00	
			i	30	23.00	
SAN	138.08	166	ePKP	27	32.50	-11.5X
			i	27	44.00	
			i	28	23.50	
IHA	138.24	165	ePKP	27	34.00	-10.2X
			i	27	44.00	
			i(S)	30	23.70	
FCH	138.29	167	ePKP	27	35.00	-9.8X
PEL	138.37	166	iPKPd	27	34.10	-10.5X
	0.5s	528.17nm				
			i	30	24.00	
ROCH	138.46	166	ePKP	27	35.00	-10.0X
			i	27	45.00	
			i	30	45.00	
JACH	138.83	166	ePKP	27	37.00	-8.5X
IIJ	139.24	68	iPKP	27	39.70	-7.4X
			(S)	30	27.70	
CRX	139.36	69	iPKP	27	39.80	-7.2X
			(S)	30	27.50	
ELF	139.54	25	PKP	27	38.30	-8.0X
ACX	139.63	73	ePKP	27	44.53	-2.7
IIC	139.67	68	iPKP	27	40.69	-6.9X
DLA	139.71	25	PKP	27	39.10	-7.5X
LDN	139.73	25	PKP	27	38.80	-7.8X
III	139.75	70	iPKP	27	40.30	-7.3X
			(S)	30	28.50	
CBM	139.91	9	ePKPc	27	39.20	-7.6X
RTBS	140.08	167	ePKP	27	41.00	-6.6X
ZON	140.36	168	iPKPc	27	41.50	-6.7X
RTCB	140.39	168	iPKPc	27	42.20	-6.1X
PPM	140.40	69	iPKP	27	42.80	-6.4X
			(S)	30	32.30	
RTLL	140.61	168	ePKPc	27	41.90	-6.8X
IIT	140.70	69	iPKP	27	45.30	-4.1X
			(S)	30	31.00	
WVLY	141.24	23	PKP	27	43.50	-5.9X
HBVT	141.33	15	PKP	27	44.00	-5.5X
OXX	142.55	72	iPKP	27	51.30	-1.3
RSCP	143.20	37	PKP	28	00.00	7.0X
TXNY	143.92	19	iPKP	27	53.30	-0.6
GBTN	143.94	35	PKP	27	52.80	-1.4
TBR	143.94	19	PKP	27	53.20	-0.8
PNJ	144.18	19	PKPd	27	54.50	0.1
			PP	30	38.30	
			PKKP	30	44.00	
GMTN	144.19	19	iPKP	27	53.40	-1.0
PSM	144.21	72	ePKP	27	55.80	0.6
NAV	144.52	30	PKP	27	54.50	-0.7
BLA	144.79	29	iPKPd	27	55.10	-0.5
CVL	145.07	26	PKP	27	55.60	-0.4
CBN	145.35	25	iPKPc	27	56.80	0.4
			e	30	16.00	
PRM	146.13	35	PKP	27	57.70	-0.2
SCX	146.46	71	iPKP	28	02.70	3.9X
JSC	146.61	34	PKP	27	58.40	-0.2
LHS	146.70	33	PKP	27	58.80	0.1
TPX	147.16	74	iPKP	28	01.30	1.3
ANT	147.38	161	iPKPd	28	01.50	1.4
PT06	153.21	142	iPKPc	28	08.00	-1.0
ARE	153.58	154	iPKPd	28	11.10	1.3
PT02	153.82	140	iPKPc	28	10.90	1.1
PT10	154.12	138	iPKPc	28	11.50	1.3
NNA	154.27	138	iPKPd	28	10.60	0.1
	1.2s	859.38nm				
	Z 20s	5.14um				6.3Msz
			eS	31	40.60	
PT08	154.48	139	iPKPd	28	12.60	1.4
CCH	154.59	165	PKP	28	12.50	1.3
LPB	154.83	161	PKP	28	06.00	-5.7X
ZOBO	155.06	160	PKP	28	13.00	0.8
SIV	156.75	177	PKP	28	13.40	-0.3
TUNG	159.31	114	PKP	28	20.00	2.9X
QTO	159.71	111	ePKP	28	19.20	1.6
COTA	160.09	110	PKP	28	19.30	1.1
UPA	160.24	84	iPKPd	28	17.10	-0.5
	1.0s	1460.00nm				
	Z 20s	10.28um				
			i	29	03.90	
PSO	161.33	108	ePKP	28	19.00	-0.2
BOG	165.40	100	iPKP	28	23.50	0.5
			i	29	28.00	
PORP	167.37	32	PKP	28	23.00	-0.9
CPD	167.75	29	PKP	28	24.00	-0.1
SDV	169.01	81	iPKPd	28	25.30	0.1
CPB	169.56	12	ePKP	28	25.22	0.1
SKI	169.64	17	iPKP	28	25.51	0.2
TOV	169.67	76	iPKPd	28	25.90	0.4
FISA	169.68	67	iPKPc	28	24.00	-1.4
NEV	169.87	16	ePKP	28	25.00	-0.4
BPA	170.13	12	ePKP	28	25.50	-0.1
MGH	170.36	15	ePKP	28	26.00	0.3
MORO	170.75	67	iPKPc	28	25.00	-1.0
PAG	171.16	13	ePKP	28	26.00	-0.1
BBL	171.69	12	ePKP	28	26.50	0.2
PLAV	171.83	72	iPKP	28	25.70	-1.0

24d 20h

GUAC	171.95	69	iPKP	28	26.20	-0.4
CAR	172.15	66	iPKPc	28	25.50	-1.1
LLAV	172.27	66	iPKPc	28	25.20	-1.5
OLLA	172.44	69	iPKPd	28	25.70	-1.0
SLB	173.43	12	ePKP	28	26.93	-0.1
GUAN	173.52	66	iPKPc	28	25.20	-2.0
SVV	173.88	15	iPKP	28	27.23	0.1
SVB	173.92	15	iPKP	28	26.94	-0.2
FCV	174.03	15	ePKP	28	26.95	-0.2
CUM	174.56	55	iPKPc	28	25.40	-2.0
			i	33	55.50	
TRN	176.30	28	ePKP	28	28.93	1.2
	1.3s	3369.60nm				
TPP	176.56	31	ePKP	28	29.65	1.9
	S.D. = 0.9	on 412 of 471 obs.				

? MAY 24, 1990 20h 30m 36.12± 7.19s
8.184 S ±49.3km 127.876 E ±23.5km
DEPTH = 126.1 ± 54.2 km
4.5mb (1 obs.)
TIMOR (289)

KNA	7.57	173	eP	32	25.80	0.6
	0.3s	25.00nm			5.3mb X	
			iS	33	50.70	
WB5	13.22	152	eP	33	39.00	-1.1
			eS	36	01.50	
MBL	15.06	210	eP	34	02.50	-1.0
	0.2s	5.00nm			4.5mb	
			eS	36	41.00	
WARB	17.94	184	iPd	34	40.50	1.3
			eS	38	00.00	
PMG	19.09	95	eP	34	52.50	0.9
MRWA	23.72	207	eP	35	38.00	0.3
			eS	40	02.00	
MUN	26.04	203	eP	36	28.00	28.6X
DZM	39.57	115	iPd	37	55.90	-1.0
	S.D. = 1.4	on 7 of 8 obs.				

MAY 24, 1990 21h 57m 10.43± 0.49s
43.506 N ± 4.6km 11.162 E ± 3.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PII	0.51	295	P	57	20.00	-0.8
			eSg	57	29.00	
PGD	0.55	47	P	57	21.10	-0.5
			eSg	57	29.80	
CRE	0.59	78	P	57	22.20	-0.2
			eSg	57	30.90	
SFI	0.65	50	Pd	57	22.50	-0.9
			eSg	57	33.30	
BDI	0.69	324	P	57	23.80	-0.4
			eSg	57	35.00	
MME	0.76	334	P	57	25.90	0.4
			eSg	57	37.60	
RSM	1.03	65	P	57	30.90	1.1
MAO	1.09	180	P	57	31.30	0.4
			eSg	57	47.30	
ASS	1.18	111	P	57	32.00	-0.5
			eSg	57	49.00	
ARV	1.30	90	P	57	34.80	0.4
MNS	1.58	135	P	57	38.30	-0.3
BOB	1.76	316	P	57	41.80	0.5
CTI	2.57	8	P	57	52.50	-0.3
			eSn	58	22.90	
SQTA	3.72	0	iPnc	58	10.20	1.0
			i	58	13.60	
			iSn	58	54.70	
	S.D. = 0.7	on 14 of 14 obs.				

? MAY 24, 1990 21h 59m 20.06± 2.27s
39.619 N ±15.3km 143.352 E ±30.9km
DEPTH = 33.0km (normal)
4.8mb (2 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

HOOJ	2.76	359	P	00	03.40	0.5
			S	00	34.50	
MRRJ	3.29	329	P	00	10.20	-0.2
			eS	00	50.60	
MAT	5.09	234	iPc	00	36.20	0.1
			eS	00	52.00	
GUN	48.45	274	P	08	01.40	-0.3
	0.7s	20.00nm			5.3mb	
GKN	49.36	275	P	08	09.00	0.5
NB2	72.39	338	P	10	43.80	-0.6
	1.0s	3.30nm			4.3mb	
	S.D. = 0.6	on 6 of 6 obs.				

* MAY 24, 1990 22h 13m 27.06± 1.63s
34.346 N ±16.4km 24.886 E ±12.3km
DEPTH = 10.0km (geophysicist)
CRETE (370)

VAM	1.20	332	ePb	13	48.10	-1.3
			eSg	14	03.00	
VLI	2.85	327	ePb	14	14.70	1.3
KSL	4.23	64	ePn	14	32.50	-0.5
ELL	4.74	58	ePn	14	41.50	1.0
BCK	5.57	54	ePn	14	52.00	-0.1
DSI	9.24	105	eP	15	43.00	-0.3
PRNI	9.44	112	eP	15	46.00	0.0
	S.D. = 1.1	on 7 of 7 obs.				

MAY 24, 1990 22h 16m 03.38± 0.23s
5.436 N ± 3.6km 31.876 E ± 3.7km
DEPTH = 10.0km (geophysicist)
5.5mb (53 obs.)
SUDAN (557)

LWI	8.22	202	iPd	18	03.90	-1.9
NAI	8.29	143	iPd	18	06.00	-0.7
ARO	12.42	60	iPd	19	08.00	4.7X
AWKL	17.89	2	eP	20	14.00	-0.1
AGAL	17.91	3	eP	20	14.00	-0.3
AGMR	18.01	2	P	20	15.00	-0.5
AKSR	18.13	3	eP	20	17.00	0.0
AKRL	18.14	2	P	20	17.00	-0.1
UQSK	22.59	25	iPc	21	04.30	-1.3
BADA	23.15	7	ePc	21	12.30	1.4
QASM	23.37	27	ePc	21	13.80	0.7
RYD	23.83	35	iP	21	18.20	0.6
HQL	23.89	7	ePc	21	19.70	1.6
MJMA	24.02	31	eP	21	20.80	1.3
HLW	24.30	359	eP	21	24.00	2.0
M8H	24.37	6	eP	21	24.00	1.3
RMN	25.06	6	eP	21	30.70	1.2
DSI	26.20	7	eP	21	40.00	-0.1
HRI	27.93	7	eP	21	56.00	0.0
LFK	29.74	3	eP	22	12.70	0.5
BHD	30.05	21	ePc	22	15.00	0.1
			eS	27	40.00	
BFT	30.99	183	iPc	22	24.00	0.5
SLR	31.18	186	iPd	22	26.00	0.9
	1.5s	55.56nm			5.2mb	
			(S)	26	47.80	
ELL	31.22	357	eP	22	26.00	0.7
KSR	31.49	189	eP	22	29.00	1.1
TEGH	31.73	272	eP	22	30.00	0.1
			S	32	59.00	
SHGH	31.76	272	eP	22	29.00	-1.3
			S	32	40.00	
BCK	31.90	358	iP	22	32.10	0.9
LEGH	31.91	272	eP	22	30.50	-1.0
			S	32	50.00	
WEGH	32.05	272	eP	22	32.00	-0.8
KUK	32.09	273	eP	22	31.50	-1.6
			S	32	50.00	
VLI	32.19	346	eP	22	36.00	2.3
MSL	32.49	17	ePd	22	35.00	-1.3
			eS	28	04.00	
SLY	32.54	21	eP	22	36.00	-0.7
			eS	28	07.00	
ITM	32.88	345	eP	22	39.50	-0.2
IZM	33.08	353	eP	22	45.90	4.4X
ALT	33.50	358	eP	22	44.00	-1.2
SEK	33.81	187	iPc	22	48.00	-0.1
NEO	34.61	348	eP	22	55.00	0.2
TAB	35.04	20	eP	23	03.00	4.4X
YLV	35.05	357	iP	23	00.00	1.5
SOI	35.53	338	P	23	04.00	1.4
KVT	35.69	5	iP	23	02.80	-1.1
ATN	35.83	338	P	23	06.00	0.8
RDO	36.01	352	eP	23	06.50	0.0
GRI	36.06	339	P	23	08.60	1.5
HVD	36.35	189	iPd	23	30.00	20.2X
KIC	36.43	273	Pd	23	09.96	-0.5
	1.5s	163.50nm			5.6mb	
KDZ	36.52	352	eP	23	11.00	0.1
RZN	36.66	351	iPc	23	12.00	-0.3
VAY	36.69	348	eP	23	12.60	0.3
TIC	36.71	274	P	23	12.44	-0.4
	1.2s	154.00nm			5.7mb	

LIC	36.72	273	Pd	23	12.46	-0.4
	1.4s	131.50nm			5.5mb	
OHR	36.88	346	eP	23	13.80	-0.2
	2.3s	457.00nm			5.9mb	
			i	24	45.00	
			e	25	05.00	
PLD	37.07	351	eP	23	16.00	0.6
SKO	37.55	347	iP	23	19.20	-0.3
VTS	37.79	350	eP	23	20.00	-1.7
BUC1	39.09	353	ePc	23	36.00	3.6X
RFI	39.13	338	P	23	36.20	3.4X
SDI	39.55	339	P	23	37.70	1.4
ISR	39.82	354	eP	23	40.00	1.5
MAIO	39.82	36	eP	23	38.00	-0.7
AZI	39.93	338	P	23	40.50	1.1
MLR	40.23	354	eP	23	42.00	0.0
VRI	40.53	354	ePc	23	44.00	-0.3
MNS	40.55	338	P	23	45.30	0.7
ASS	41.15	339	Pc	23	37.60	-11.9X
QUE	41.19	49	eP	23	51.30	1.1
ARV	41.42	339	P	23	51.00	-0.7
VBY	42.46	343	eP	24	01.00	0.9
ZAG	42.53	344	eP	24	05.00	4.3X
PTJ	42.61	344	eP	24	02.50	1.0
TRI	43.10	341	iPd	24	04.10	-1.2
BUD	43.32	347	e(P)	24	08.00	0.9
PSZ	43.55	348	eP	24	11.00	1.9
SRO	43.79	347	iP	24	12.30	1.4
LMR	43.88	333	iPc	24	11.60	-0.1
	1.6s	111.95nm			5.4mb	
FRF	44.00	334	iPc	24	12.50	-0.2
	1.6s	149.25nm			5.6mb	
CTI	44.10	340	P	24	14.30	0.7
SAL	44.12	338	P	24	19.00	5.4X
FVI	44.20	341	P	24	15.40	1.2
IFR	44.28	314	iPc	24	17.00	1.7
ZST	44.44	346	eP	24	16.10	-0.1
MDI	44.56	338	P	24	21.10	3.9X
TIO	44.63	309	iP	24	18.20	0.1
SPC	44.70	349	eP	24	17.60	-0.9
VAI	44.99	337	P	24	19.40	-1.3
OGA	45.02	340	iPc	24	22.30	1.1
	1.7s	52.00nm			5.2mb	
ECHE	45.09	324	iPc	24	22.50	0.9
ORO	45.11	336	P	24	20.00	-1.7
TMA	45.16	337	ePc	24	21.70	-0.5
APHE	45.16	319	iPc	24	24.00	1.6
OSS	45.18	339	ePc	24	23.00	0.6
BNI	45.18	335	P	24	22.80	0.4
AFC	45.24	319	iPc	24	23.80	0.8
SQTA	45.27	340	eP	24	23.00	0.0
	1.5s	82.50nm			5.5mb	
			ic	24	23.50	
			i	24	31.10	
			i	25	03.20	
			i	26	04.00	
ATEJ	45.36	319	iPc	24	25.00	1.1
EVIA	45.41	322	iPd	24	23.80	-0.5
ASMO	45.43	319	iPd	24	25.50	1.0
MMK	45.46	337	ePc	24	25.60	0.9
NKM	45.49	316	iPc	24	25.00	0.2
LPG	45.50	335	iPc	24	24.50	-0.6
	1.4s	117.65nm			5.7mb	
MAL	45.51	318	eP	24	28.00	3.1X
ALOJ	45.53	319	iPd	24	26.60	1.4
LPL	45.53	335	iPc	24	24.60	-0.6
	1.3s	90.25nm			5.6mb	
KRA	45.59	349	eP	24	24.20	-1.1
	1.5s	143.00nm			5.7mb	
			e	24	30.40	
GBA	45.59	76	P	24	32.00	6.2X
	0.5s	4.00nm			4.6mb	
AAPN	45.65	319	iPc	24	26.50	0.3
DIX	45.71	336	ePc	24	25.90	-0.8
LLS	45.75	338	ePc	24	26.50	-0.4
AVE	45.83	312	iP	24	28.00	0.5
EMS	45.89	336	ePc	24	27.10	-0.9
EBAN	45.93	320	iPc	24	27.70	-0.6
SAX	45.94	339	ePc	24	28.00	-0.6
EJIF	46.07	317	iPc	24	28.60	-0.7
FUR	46.07	341	eP	24	29.00	-0.2
EPRU	46.19	318	iPc	24	30.30	0.0
KHC	46.22	343	iPc	24	30.00	-0.4
	1.2s	33.50nm			5.2mb	
WET	46.44	343	eP	24	31.50	-0.6
	1.3s	38.00nm			5.3mb	
ZLA	46.49	338	ePc	24	31.70	-0.9

```
ETOR   46.51 324 iPc   24 33.50   0.6
EPF    46.67 328 iPc   24 34.10   0.0
       1.6s    62.20nm          5.4mb
EHOR   46.68 319 eP    24 33.30  -0.8
SLE    46.69 338 ePc   24 33.50  -0.6
PRU    46.74 345 P     24 33.50  -0.9
       2.5s   111.10nm          5.5mb
                e      24 38.00
LBL    46.84 332 P     24 35.44   0.2
KSP    47.10 347 eP    24 37.00  -0.3
                i      24 42.70
                e      26 31.00
TOL    47.12 322 iP    24 38.00   0.4
       1.2s   125.00nm          5.9mb
HYB    47.15  71 eP    24 36.00  -2.2
CAF    47.17 331 iPc   24 38.30   0.4
       1.8s   129.45nm          5.7mb
PLDF   47.23 333 P     24 37.92  -0.5
PYM    47.34 333 P     24 39.42   0.1
BSF    47.38 337 iPc   24 39.40  -0.3
       1.5s    94.00nm          5.7mb
LPO    47.41 330 iPc   24 40.00   0.1
       1.6s   124.40nm          5.8mb
GRF    47.42 342 eP    24 39.40  -0.5
                e      24 43.60
                e      25 01.30
                e      25 10.80
AGO    47.51 333 P     24 40.16  -0.5
EVAL   47.54 318 iPd   24 40.20  -0.8
GUD    47.65 323 iPc   24 41.70  -0.2
SMF    47.65 334 iPc   24 41.50  -0.2
       1.2s    83.30nm          5.7mb
CDF    47.68 338 iPc   24 41.30  -0.7
BRG    47.70 345 eP    24 41.60  -0.5
       2.0s    85.00nm          5.5mb
                i      24 46.50
                e      26 39.60
                e      27 07.10
RJF    47.71 331 iPc   24 42.30   0.1
       1.5s    73.10nm          5.5mb
HOF    47.78 343 iPc   24 42.20  -0.5
LFF    47.82 330 iPc   24 43.10   0.1
       1.5s    83.55nm          5.6mb
LBF    47.86 334 iPc   24 42.70  -0.7
       1.5s    67.90nm          5.5mb
MAF    47.90 333 iPc   24 44.10   0.4
       1.1s    61.05nm          5.6mb
ECRI   47.93 326 eP    24 43.90  -0.2
AVF    47.98 334 iPc   24 43.90  -0.4
       1.6s   118.15nm          5.7mb
BGF    48.02 333 iPc   24 44.60   0.0
       1.3s    43.30nm          5.4mb
TCF    48.11 333 iPc   24 45.60   0.3
       1.2s    86.30nm          5.7mb
SSF    48.12 334 iPc   24 44.70  -0.7
       1.5s    52.25nm          5.4mb
LOR    48.13 335 iPc   24 44.80  -0.7
       1.5s    99.25nm          5.7mb
MOX    48.15 343 eP    24 45.00  -0.6
       1.4s    36.00nm          5.3mb
CLL    48.35 344 iPd   24 46.00  -1.1
       1.8s    71.00nm          5.4mb
                i      24 50.40
LSF    48.40 332 iPc   24 47.60   0.1
       1.2s    68.45nm          5.6mb
EPLA   48.49 321 eP    24 47.80  -0.6
TNS    48.78 340 ePc   24 51.20   0.7
MFF    49.45 331 iPc   24 55.40  -0.2
MEM    49.96 339 P     25 04.40   5.0X
DOU    50.07 337 P     24 59.10  -1.2
ENN    50.12 339 eP    25 05.00   4.3X
       1.0s    16.00nm          4.9mb
ERUA   50.49 323 eP    25 06.20   2.5
UCC    50.72 338 P     25 09.00   3.7X
WTS    50.84 340 eP    25 06.00  -0.1
       1.0s    17.00nm          4.9mb
LDF    50.88 333 iPc   25 05.80  -0.7
       1.5s   114.90nm          5.6mb
LPF    50.90 332 iPc   25 06.30  -0.3
       1.2s    71.40nm          5.5mb
GRR    51.07 332 iPc   25 07.10  -0.8
       1.5s    73.10nm          5.4mb
FLN    51.17 333 iPc   25 07.70  -1.0
EMON   51.21 324 eP    25 08.30  -0.9
KSH    52.19  43 P     25 17.00   0.2
     N  16s    13.30um
                sP     25 27.00
                S      32 42.00
GKN    54.78  60 P     25 34.00  -2.2
       0.8s    34.00nm          5.4mb
DMN    55.09  60 P     25 37.20  -1.4
       0.6s    23.00nm          5.4mb
NUR    55.22 356 iP    25 37.00  -1.5
       1.1s    36.00nm          5.3mb
PKI    55.35  60 P     25 38.60  -1.9
UPP    55.37 351 iP    25 38.80  -0.9
GUN    55.83  60 P     25 41.40  -2.6
       0.8s    32.00nm          5.4mb
APO    56.63 349 eP    25 46.00  -2.8X
       1.5s    64.00nm          5.4mb
EKA    57.11 337 P     25 51.00  -1.3
       2.2s   127.90nm          5.6mb
SUF    57.32 357 iP    25 52.10  -1.5
       0.8s    31.50nm          5.4mb
NB2    57.62 348 P     25 53.80  -2.0
       0.9s    30.50nm          5.3mb
LSA    60.73  59 P     26 17.20  -1.2
SOD    61.94 358 iP    26 23.90  -1.4
WMO    61.98  43 P     26 25.20  -1.0
KEV    64.31 358 eP    26 40.00  -0.9
                e      26 46.00
CHG    66.57  72 eP    26 55.40  -1.0
CHTO   66.57  72 eP    26 55.00  -1.4
       1.0s     3.75nm          4.5mb
BDT    66.58  74 eP    26 57.00   0.6
GTA    69.56  50 Pd    27 14.20  -0.7
       2.0s   200.00nm          5.9mb
KMI    70.39  65 Pc    27 20.00  -0.4
       5.0s   500.00nm          5.9mb X
CD2    71.69  59 eP    27 28.70   0.8
LZH    72.25  54 Pd    27 30.50  -0.8
       2.0s    53.00nm          5.3mb
                pP     27 34.00   11kmX
GYA    73.99  64 iPc   27 41.40  -0.1
MAW    76.11 168 iP    27 55.00   2.3
BTO    77.48  50 eP    28 02.20   1.1
HHC    78.67  50 P     28 09.60   2.0
       1.2s    40.00nm          5.3mb
TIY    79.23  53 Pd    28 12.00   1.3
     N  15s     1.40um
                S      38 13.50
WHN    80.79  60 eP    28 16.00  -3.1X
BAO    81.75 253 eP    28 27.00   2.5
BJI    82.17  50 eP    28 28.00   1.9
       2.0s    88.00nm          5.5mb
TIA    82.99  54 Pc    28 31.60   1.1
NJ2    84.59  58 eP    28 40.00   1.4
SSE    86.64  59 eP    28 50.50   1.7
SNY    87.68  48 eP    28 55.00   1.4
CN2    88.85  46 eP    29 01.60   2.4
FRB    89.76 334 eP    29 03.00  -0.1
SIV    94.30 254 P     29 26.00   1.1
MBC    96.75 353 eP    29 39.00   4.0X
ZOBO  101.08 255 Pdiff 30 04.00   7.5X
YKA   107.58 344 ePKP  34 49.20  17.4X
       0.9s     1.30nm
IMA   108.56   2 PKP   34 40.50   6.7X
TNP   128.05 329 PKP   35 08.70  -3.4X
GLA   130.37 323 PKP   35 17.70   1.3
     S.D. = 1.0  on 190 of 212 obs.
-------------------------------------------
%  MAY  24, 1990  22h 27m 01.11± 0.84s
   22.922 N ± 7.9km  120.703 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                          (244)

TWM1    0.27 249 ePc   27 06.90   0.0
TWG     0.36 106 iPd   27 08.40   0.0
                eS     27 13.80
TWK     0.40 330 iPc   27 08.80  -0.4
                eS     27 14.00
TWF1    0.69  52 iPc   27 14.20  -0.6
                eS     27 24.00
TWD     1.35   5 eP    27 26.50   0.5
TWD     1.41  35 eP    27 27.40   0.6
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------------
%  MAY  24, 1990  22h 37m 59.01± 1.19s
   41.710 N ±10.7km   14.202 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                  (390)

SDI     0.29 269 Pc    38 04.80  -0.3
                eSg    38 08.80
AZI     0.64 296 P     38 11.00  -0.8
                eSg    38 22.50
AQU     0.88 318 P     38 15.20  -0.7
                eSg    38 31.70
BSS     1.03 153 Pd    38 18.40   0.0
                eSg    38 34.00
RDP     1.11 273 P     38 20.00   0.1
                eSg    38 36.00
MNS     1.32 301 Pc    38 25.00   1.6
                eSn    38 41.50
ASS     1.77 321 P     38 30.00   0.0
                eSn    38 53.00
     S.D. = 1.0  on   7 of   7 obs.
-------------------------------------------
*  MAY  24, 1990  22h 42m 14.81± 0.95s
   37.792 N ±10.2km   20.866 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 IONIAN SEA                      (399)
     ML 3.6 (ATH).

VLS     0.44 331 iPgd  42 23.50  -0.3
ITM     1.04 126 ePg   42 34.00  -0.5
VLI     1.97 122 ePg   42 51.00   2.4
KEK     2.09 337 ePg   42 54.70   4.4X
ATH     2.26  85 ePn   42 53.70   0.9
NEO     2.39  50 ePn   42 54.80   0.2
OHR     3.32 359 ePn   43 07.80   0.0
LCI     3.40 319 P     43 20.00  11.0X
VAM     3.59 131 ePn   43 09.20  -2.4
VAY     3.76  20 ePn   43 14.60   0.5
SOI     3.81 276 P     42 56.00 -18.8X
SKO     4.20   6 ePn   43 20.00  -0.3
MGR     4.76 301 P     43 28.40   0.1
SGO     5.13 304 P     43 35.00   1.6
HFS    22.82 351 eP    47 16.50  -2.2
       0.5s     1.10nm          3.6mb
     S.D. = 1.5  on  12 of  15 obs.
-------------------------------------------
?  MAY  24, 1990  23h 19m 58.16± 3.85s
   37.732 N ±25.1km   20.664 E ±36.5km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                      (399)
     ML 3.5 (ATH).

VLS     0.45 352 ePg   20 06.50  -0.8
                eSg    20 15.00
ITM     1.15 118 ePg   20 15.20  -4.4X
                eSg    20 30.30
VLI     2.08 118 ePn   20 33.00  -0.5
KEK     2.09 341 ePg   20 42.00   8.3X
ATH     2.43  83 ePg   20 39.00   0.5
OHR     3.38   2 ePn   20 53.50   1.5
VAY     3.88  22 ePn   20 58.30  -0.7
     S.D. = 1.4  on   5 of   7 obs.
-------------------------------------------
&  MAY  24, 1990  23h 22m 30.59s
   62.908 N          150.654 W
   DEPTH = 108.2km
 CENTRAL ALASKA                  (  1)
     <AGS-P>.

HUR     0.47  81 iP    22 46.67  -0.6
                iS     22 59.31
CUT     0.54 160 iP    22 47.42  -0.3
                eS     23 00.88
SKT     1.02 204 iP    22 51.31  -0.8
                eS     23 08.34
PWA     1.31 164 iP    22 55.21  -0.2
                eS     23 14.22
GHO     1.40 144 eP    22 56.32  -0.2
                eS     23 16.74
SUA     1.45 182 eP    22 57.25   0.1
PLRM    1.50 151 eP    22 57.35  -0.3
                eS     23 18.25
SML     1.55 135 iP    22 57.71  -0.6
                S      23 19.56
SPU     1.85 201 eP    23 02.70   0.5
     9 obs. associated
-------------------------------------------
*  MAY  24, 1990  23h 37m 25.56± 0.87s
   33.198 N ± 8.3km  115.561 W ± 7.0km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN CALIFORNIA             ( 43)
     ML 3.1 (NEIS).

GLA     0.63 103 eP    37 38.50   0.3
```

24d 23h

IKP	0.72	220	eP	37	40.10	0.2	LRG	44.04	333	eP	50	41.70	0.1		2.0s	85.00nm	5.5mb
BAR	1.07	241	eP	37	44.20	-2.0		1.0s	32.00nm	5.1mb						e	51	17.00	
PLM	1.10	278	eP	37	47.50	0.7	CTI	44.10	340	Pc	50	44.00	1.8			e	52	40.00	
CPE	1.33	257	eP	37	52.00	1.4	SOP	44.10	345	eP	50	43.00	1.0			i	52	46.60	
TNP	5.06	345	eP	38	44.00	0.0	SAL	44.12	338	P	50	47.50	5.3X			e	53	11.00	
KVN	6.19	341	eP	38	59.50	-0.5	ENIJ	44.21	320	eP	50	43.60	0.5	LFF	47.82	330	iPd	51	11.80	0.2
S.D. = 1.3 on 7 of 7 obs.							EALH	44.25	322	eP	50	44.60	1.2		1.1s	36.65nm	5.4mb			
							IFR	44.27	314	iPc	50	45.50	1.7	LBF	47.85	334	iPd	51	11.20	-0.8
MAY 25, 1990 00h 42m 31.97± 0.26s							ZST	44.44	346	iP	50	44.80	0.0		0.9s	18.00nm	5.2mb			
5.425 N ± 4.1km 31.848 E ± 4.1km										i	50	53.80		MAF	47.89	333	iPd	51	12.60	0.4
DEPTH = 10.0km (geophysicist)										e	52	39.80			1.0s	50.00nm	5.6mb			
5.3mb (48 obs.) 5.2Msz (2 obs.)							MDI	44.56	338	P	50	45.50	-0.3	ECRI	47.93	326	eP	51	12.50	-0.1
SUDAN (557)							TIO	44.61	309	iP	50	47.40	0.8	AVF	47.98	334	iPd	51	12.30	-0.5
										i	50	53.40			1.0s	40.00nm	5.5mb			
AAE	7.74	62	eP	44	28.00	0.3	VAI	44.99	337	P	50	47.80	-1.5	BGF	48.02	333	iPd	51	13.00	-0.2
LWI	8.20	202	iPd	44	32.40	-1.7	OGA	45.02	340	iPc	50	50.90	1.1		1.0s	24.00nm	5.2mb			
NAI	8.29	143	iPd	44	35.50	0.1		1.7s	52.00nm	5.2mb				TCF	48.11	333	iPd	51	14.00	0.1
ARO	12.45	60	ePd	45	34.00	1.8	ECHE	45.08	324	iPd	50	51.00	0.9		1.0s	66.00nm	5.7mb			
AWKL	17.91	2	eP	46	46.00	3.2X	APHE	45.15	319	iPc	50	52.40	1.5	SSF	48.12	334	iPd	51	13.00	-1.0
AGAL	17.92	3	eP	46	46.00	3.0X	TMA	45.16	337	ePc	50	50.40	-0.4		0.9s	14.75nm	5.1mb			
AGMR	18.02	2	iP	46	47.00	2.8X	BHG	45.17	342	iPc	50	50.80	0.1	LOR	48.13	335	iPd	51	13.20	-0.8
			eS	51	52.00			0.8s	16.00nm	5.0mb					0.9s	31.10nm	5.4mb			
AKRL	18.15	3	eP	46	50.00	4.2X	BNI	45.18	335	Pc	50	51.60	0.7	MOX	48.15	343	iPc	51	14.00	-0.2
ASW	18.57	3	iPc	46	58.00	6.9X	OSS	45.18	339	ePc	50	51.70	0.7		2.0s	69.00nm	5.4mb			
			eS	50	28.00		AFC	45.23	319	iPd	50	52.30	0.7	CLL	48.36	344	eP	51	15.00	-0.7
AFIF	21.53	29	ePd	47	20.00	-3.6X	SQTA	45.27	340	iPd	50	51.60	0.0		2.0s	70.00nm	5.4mb			
KRI	22.22	186	iP	47	22.00	-8.6X		1.1s	31.40nm	5.2mb				LSF	48.39	332	iPd	51	16.00	-0.1
			iSn	51	20.00					i	51	05.00			1.0s	50.00nm	5.5mb			
UOSK	22.61	25	ePd	47	33.70	-0.7				e	52	31.00		EPLA	48.48	321	iPd	51	16.70	-0.2
BADA	23.17	7	eP	47	41.70	2.1				i	52	38.30		TNS	48.79	340	ePd	51	18.30	-0.8
HLW	24.31	359	eP	47	52.50	1.8	ATEJ	45.35	319	eP	50	53.00	0.6	MFF	49.44	331	iPd	51	23.80	-0.3
			eS	52	20.00		EVIA	45.40	322	iPd	50	53.00	0.2		1.0s	28.00nm	5.2mb			
MBH	24.38	6	eP	47	52.00	0.5	ASMO	45.42	319	iPc	50	54.00	1.0	MEM	49.96	339	P	51	26.20	-1.8
RMN	25.08	6	eP	47	58.70	0.5	NKM	45.48	316	iPc	50	54.00	0.7	DOU	50.07	337	Pc	51	27.90	-1.0
BUL	25.61	187	iP	47	55.10	-8.3X	LPG	45.50	335	iPd	50	53.00	-0.7				e	52	55.50	
			iSn	52	38.30			1.1s	36.65nm	5.3mb				ENN	50.12	339	eP	51	29.50	0.2
CSTJ	25.96	9	Pd	48	08.00	1.5	ALOJ	45.52	319	iPd	50	55.90	2.1		1.2s	25.00nm	5.1mb			
MKRJ	26.23	7	Pd	48	09.00	-0.1	KRA	45.60	349	eP	50	53.40	-0.6			e	51	36.00		
MDSJ	26.40	8	Pc	48	10.80	0.2				e	51	00.30		ERUA	50.48	323	e(P)	51	31.70	-0.5
KFNJ	26.54	7	Pc	48	11.90	0.1	AAPN	45.64	319	iPc	50	55.50	0.8	WTS	50.84	340	eP	51	35.00	0.3
JVI	26.57	7	eP	48	13.30	1.3	DIX	45.71	336	ePc	50	54.20	-1.1		1.0s	22.00nm	5.0mb			
OTFJ	26.79	11	Pd	48	14.70	0.6	LLS	45.75	338	ePc	50	55.00	-0.5			e	51	41.50		
BCK	31.91	358	iP	49	01.60	1.7	EMS	45.89	336	ePc	50	55.80	-0.8	LDF	50.88	333	iPd	51	34.30	-0.8
KUK	32.06	273	eP	49	00.00	-1.5	EBAN	45.92	320	eP	50	56.50	-0.3		0.8s	29.55nm	5.3mb			
PRY	32.44	187	eP	49	04.50	-0.3	SAX	45.94	339	ePc	50	56.60	-0.6	LPF	50.89	332	iPd	51	34.60	-0.6
SEK	33.80	187	iPc	49	17.00	0.4	EJIF	46.06	317	eP	50	57.80	0.0		0.8s	36.25nm	5.4mb			
			S	53	40.20		FUR	46.07	341	iPc	50	57.60	-0.2	GRR	51.07	332	iPd	51	35.60	-0.9
BBTK	34.27	1	eP	49	21.00	0.5	EPRU	46.18	318	iPd	50	58.80	-0.1		0.8s	18.80nm	5.1mb			
TAB	35.06	20	eP	49	35.00	7.6X	KHC	46.23	343	iPd	50	59.10	0.0	EMON	51.21	324	e(P)	51	36.80	-0.9
ATN	35.83	338	P	49	35.30	1.6	WET	46.44	343	eP	51	00.20	-0.5	KSH	52.22	43	P	51	46.00	0.4
GIB	36.25	336	Pc	49	39.50	2.1	ZLA	46.49	338	ePc	51	00.40	-0.8	N	14s	1.60um				
KIC	36.40	273	Pd	49	38.86	0.0	ETOR	46.51	324	iPd	51	02.00	0.6			S	59	07.00		
	1.2s	52.00nm	5.2mb				EPF	46.67	328	iPd	51	02.60	0.0	GKN	54.81	60	P	52	03.20	-1.8
KDZ	36.52	352	eP	49	40.00	0.5		1.1s	20.75nm	5.1mb					1.0s	47.00nm	5.5mb			
RZN	36.66	351	eP	49	41.00	0.1	SLE	46.69	338	ePc	51	02.00	-0.7	DMN	55.12	60	P	52	06.80	-0.6
TIC	36.68	274	Pd	49	41.24	0.1	PRU	46.74	345	eP	51	02.50	-0.6		0.8s	28.00nm	5.3mb			
	1.1s	65.50nm	5.4mb				Z	17s	0.50um	4.5MszX				NUR	55.23	356	iP	52	06.00	-1.2
LIC	36.69	273	Pd	49	41.14	-0.1				e	51	09.00			1.0s	34.00nm	5.3mb			
	1.2s	48.50nm	5.2mb				LBL	46.83	332	P	51	04.32	0.5			i	52	12.80		
VAY	36.69	348	eP	49	41.40	0.5	KSP	47.10	347	eP	51	05.00	-0.9	PKI	55.38	60	P	52	07.40	-1.9
OHR	36.88	346	eP	49	38.50	-4.1X				e	51	12.50		UPP	55.38	351	iP	52	06.80	-1.5
PLD	37.07	351	eP	49	44.00	-0.1				e	53	03.00				i	52	13.30		
KKB	37.12	349	iPc	49	44.00	-0.5	TOL	47.11	322	iPd	51	06.50	0.3	GUN	55.86	60	P	52	11.60	-1.2
SKO	37.56	347	eP	49	43.00	-5.2X		1.2s	125.00nm	5.9mb					1.0s	70.00nm	5.6mb			
VTS	37.80	350	eP	49	51.00	0.6	CAF	47.16	331	iPd	51	06.80	0.3	HFS	56.30	349	eP	52	13.30	-1.7
SGO	38.00	339	P	49	52.50	0.6		1.1s	24.40nm	5.2mb					1.3s	53.50nm	5.4mb			
PVL	38.07	352	eP	49	51.00	-1.5	PLDF	47.23	333	P	51	07.10	0.1	EKA	57.11	337	Pd	52	19.90	-1.0
SDI	39.55	339	P	50	05.50	0.6	PYM	47.34	333	P	51	08.43	0.5		1.1s	24.90nm	5.2mb			
MAIO	39.84	36	iPd	50	07.60	0.1	BSF	47.38	337	eP	51	07.40	-0.9	SUF	57.33	357	iP	52	21.50	-0.7
AZI	39.93	338	P	50	09.00	1.0		1.1s	31.75nm	5.3mb					0.8s	53.50nm	5.6mb			
MLR	40.24	354	eP	50	12.00	1.3	LPO	47.41	330	iPd	51	08.60	0.2	NB2	57.62	348	P	52	22.80	-1.6
VRI	40.53	354	ePd	50	13.00	0.1		1.1s	29.30nm	5.3mb					1.2s	64.00nm	5.5mb			
			ec	52	02.00		GRF	47.43	342	iPd	51	08.00	-0.5	SOD	61.95	358	iP	52	52.60	-1.4
MNS	40.55	338	P	50	14.00	0.8				ec	51	14.40				i	52	59.20		
BZS	41.01	349	ePc	50	14.00	-2.8				ePcP	52	38.90		WMQ	62.01	43	Pd	52	54.00	-0.9
ASS	41.15	339	P	50	17.00	-1.1				e	52	45.80		Z	24s	0.90um	4.8MszX			
QUE	41.22	49	eP	50	20.60	1.6	AGO	47.51	333	P	51	09.11	-0.1			eS	01	16.00		
ARV	41.43	339	P	50	19.00	-1.3	GUD	47.64	323	eP	51	10.50	0.0	KEV	64.32	358	iP	53	09.20	-0.4
VBY	42.46	343	eP	50	27.30	-1.4	SMF	47.65	334	iPd	51	09.80	-0.5		0.9s	45.60nm	5.7mb			
TRI	43.10	341	iPd	50	31.50	-2.4		1.0s	52.00nm	5.6mb						i	53	16.20		
VOY	43.35	342	eP	50	25.50	-10.6X	CDF	47.68	338	eP	51	09.40	-1.2	AKU	69.47	340	iP	53	44.00	1.8
			i	50	36.40			1.1s	17.10nm	5.1mb					1.3s	61.54nm	5.6mb			
SRO	43.80	347	eP	50	40.40	0.8	HAU	47.70	337	eP	51	09.80	-0.9	GTA	69.59	50	iPd	53	43.00	-0.7
LMR	43.88	333	eP	50	40.20	-0.1		1.2s	23.80nm	5.2mb				GYA	74.02	64	P	54	09.40	-0.9
	1.0s	32.00nm	5.1mb				RJF	47.70	331	iPd	51	10.80	0.1	XAN	76.27	56	P	54	22.00	-1.0
FRF	44.00	334	eP	50	41.00	-0.3		1.2s	32.75nm	5.3mb				HHC	78.70	50	P	54	38.00	1.6
	1.0s	26.00nm	5.0mb				BRG	47.71	345	eP	51	09.40	-1.3	TIY	79.26	53	eP	54	40.00	0.5

```
      Z  20s      1.00um          5.2Msz
      N  16s      0.50um
                    pP     54 48.00   25kmX
BAO     81.72 253 eP      54 55.00    2.1
BJI     82.20  50 eP      54 55.50    0.7
        1.9s     48.00nm          5.3mb
NJ2     84.62  58 eP      55 08.00    0.6
FRB     89.76 334 eP      55 31.00   -0.7
SIV     94.27 254 P       55 54.40    1.0
MBC     96.76 353 eP      56 04.00    0.3
YKA    107.58 344 ePKP    01 14.00   13.6X
        1.1s     1.80nm
LON    123.05 339 PKP     01 30.20   -0.3
                    pP     01 37.70
ANMO   123.86 319 PKP     01 32.40   -0.3
ALQ    123.86 319 ePKP    01 32.50   -0.2
      Z  18s      0.52um          5.2Msz
MSU    125.02 326 PKP     01 35.70    0.9
                    pP     01 42.70
KVN    127.74 330 PKP     01 40.00    0.0
                    pP     01 47.10
TNP    128.04 329 PKP     01 41.60    0.9
        1.1s     14.07nm
                    pP     01 48.40
CMB    129.64 331 ePKPc   01 44.30    0.8
                    e      01 51.20
FRI    130.14 330 ePKPc   01 45.50    1.2
                    e      01 52.20
GLA    130.37 323 PKP     01 45.90    0.9
                    pP     01 53.80
PEC    131.13 325 PKP     01 48.30    1.9
     S.D. = 1.0  on 166 of 180 obs.
-------------------------------------
* MAY  25, 1990  01h 02m 21.61± 0.77s
   8.129 N ± 8.9km   32.035 E ±28.0km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 15 obs.)
 SUDAN                              (557)

KRI     24.91 186 iP      07 46.50    0.0
                  iSn     11 22.50
BUL     28.30 187 iP      08 26.00    8.3X
                  iSn     12 32.00
SLR     33.86 186 e(P)    09 07.00    0.3
        1.3s     96.15nm          5.6mb
                  (S)     13 31.00
LPG     43.15 334 eP      10 24.80    0.4
        0.8s      4.05nm          4.2mb
KHC     43.71 342 iPc     10 31.40    2.8
CAF     44.91 330 eP      10 38.70    0.3
TOL     45.14 320 eP      10 39.00   -1.2
LPO     45.18 329 eP      10 40.40   -0.1
HAU     45.31 336 eP      10 42.20    0.7
SMF     45.33 333 eP      10 41.90    0.3
        0.7s      4.40nm          4.5mb
RJF     45.46 330 eP      10 42.80    0.2
        0.9s      8.20nm          4.7mb
LFF     45.59 329 eP      10 43.60   -0.1
MAF     45.61 331 eP      10 44.60    0.8
        0.8s      6.70nm          4.7mb
AVF     45.66 333 eP      10 44.40    0.2
        0.9s      6.55nm          4.6mb
SSF     45.80 333 eP      10 45.20   -0.1
        1.0s      4.00nm          4.3mb
TCF     45.82 331 eP      10 46.40    0.9
        1.0s     12.00nm          4.8mb
LSF     46.12 331 eP      10 48.10    0.2
        1.0s     12.00nm          4.9mb
MFF     47.19 330 eP      10 55.70   -0.6
        1.0s     10.00nm          4.9mb
LDF     48.58 332 eP      11 06.30   -0.8
        0.6s      3.60nm          4.6mb
LPF     48.62 331 eP      11 06.40   -1.0
        0.9s     13.10nm          5.0mb
GRR     48.79 331 eP      11 07.60   -1.1
NUR     52.56 355 eP      11 49.00   11.8X
SUF     54.65 357 iP      11 53.10    0.5
        0.7s      4.80nm          4.6mb
EKA     54.72 336 P       11 53.00   -0.2
        0.9s      4.70nm          4.5mb
NB2     55.03 348 P       11 55.00   -0.5
        1.0s      6.50nm          4.6mb
SOD     59.27 358 eP      12 24.00   -1.4
KEV     61.64 358 eP      12 41.00   -0.5
     S.D. = 0.9  on  25 of  27 obs.
-------------------------------------
   MAY  25, 1990  01h 42m 25.56± 3.96s
   35.853 N ±18.0km     0.990 W ±41.0km
   DEPTH =  10.0km  (geophysicist)
 ALGERIA                            (396)

ENIJ     1.49 319 eP      42 52.00   -0.4
                  eS      43 09.50
TAF      1.56 229 eP      43 00.00    6.6X
                  iS      43 22.00
EMEL     1.70 252 eP      42 55.60    0.3
                  eS      43 16.00
EALH     2.03 350 eP      43 00.00   -0.2
EVIA     3.03 337 eP      43 15.00    0.5
                  eS      43 49.00
IFR      4.13 237 iPn     43 30.00   -0.2
                  i       43 31.00
                  iSn     44 14.00
                  i       44 16.00
     S.D. = 0.5  on   5 of   6 obs.
-------------------------------------
   MAY  25, 1990  02h 03m 27.56± 0.12s
    2.871 S ± 3.0km  130.338 E ± 3.6km
   DEPTH =  14.6km  (geophysicist)
   5.8mb ( 55 obs.)  5.4Msz ( 22 obs.)
 CERAM                              (272)
      Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=310 Dip=82 Slip=  90
       NP2:       130      8        90
       Principal Axes:
        T                 Plg=53  Azm=220
        P                    37       40
      Comment: The focal mechanism is
       poorly controlled and
       corresponds to reverse
       faulting. The preferred fault
       plane is NP2.
      RADIATED ENERGY
       No. of sta:   5  Focal mech.  M
       Energy        2.4±0.9*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep  16              No. of sta:  4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.34        Mtt=-1.08
        Mff=-0.25        Mrt=-4.22
        Mrf= 2.97        Mtf= 0.58
       Principal axes:
        T  Val=  5.33  Plg=52  Azm=217
        N        0.01      2       125
        P       -5.34     38        33
      Best Double Couple:Mo=5.3*10**17
       NP1:Strike=109 Dip= 8 Slip=  74
       NP2:       305     83        92
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 13S, 29C
      Centroid Location:
      Origin Time        02:03:32.0 1.3
      Lat  2.70S 0.10 Lon 129.98E 0.09
      Dep  15.0 FIX Half-duration  2.9
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 4.20 0.25  Mtt=-2.41 0.30
        Mff=-1.80 0.40  Mrt=-3.41 1.04
        Mrf= 4.67 0.94  Mtf= 2.12 0.26
       Principal Axes:
        T  Val=  7.21  Plg=62  Azm=241
        N       -0.10      6       139
        P       -7.11     27        46
      Best Double Couple:Mo=7.2*10**17
       NP1:Strike=121 Dip=19 Slip=  71
       NP2:       321     72        96

AAI      2.29 249 ePc     04 06.90    1.5
                  e(S)    04 18.00
MNI      6.97 308 eP      05 12.00    0.4
MTN      9.94 176 iPc     05 49.10   -3.9X
DAV     10.97 334 eP      06 08.00    0.9
KNA     12.89 187 iPd     06 27.70   -5.3X
                  eS      08 48.00
TSM     14.14 300 ePd     06 50.00    0.5
KKM     16.65 302 ePd     07 21.50   -0.7
LAT     17.02 103 eP      07 32.00    5.2X
WB5     17.36 167 eP      07 23.00   -8.0X
                  eS      10 30.50
WRA     17.41 167 Pc      07 23.50   -8.2X
        0.7s     44.80nm          4.7mb X
PMG     17.93 112 iPd-    07 32.50   -5.6X
        1.0s    640.00nm          5.7mb
QCP     19.67 332 eP      08 07.00    7.9X
QIS     19.77 153 iPd     07 56.40   -3.8X
                  eS      22 38.00
MBL     20.86 209 eP      08 07.00   -4.6X
        0.4s     47.00nm          5.2mb
BAG     21.45 334 eP      08 17.00   -0.8
                  eS      12 14.00
GUA     21.79  41 eP      08 21.70    0.7
        0.9s    423.53nm          5.9mb
GUMO    21.80  41 eP      08 21.10    0.0
        1.8s   3070.42nm          6.4mb
                  i       08 23.20    8kmX
PJG     21.80  41 eP      08 21.70    0.6
RAB     21.83  94 iPd-    08 24.00    2.6
                  iS      12 22.00
CTA     23.11 139 iPc+    08 34.00   -0.1
        0.9s    332.77nm          5.9mb
                  e       09 08.00  174kmX
                  iS      12 47.00
CTAO    23.11 139 iPc     08 34.37    0.3
NANU    24.28 215 iPd     08 43.00   -2.4
        0.6s    189.00nm          5.9mb
MEKA    26.18 205 eP      08 59.70   -3.7X
        0.6s    105.00nm          5.7mb
QLP     27.08 152 iPc     09 10.70   -1.0
                  e       09 46.00  172kmX
KGM     27.44 280 ePd     09 16.30    1.2
COOL    29.19 196 iPc     09 27.40   -3.3X
        0.7s    143.00nm          5.9mb
RMQ     29.39 145 iPc     09 31.50   -1.0
        0.8s     92.00nm          5.6mb
                  e       09 46.00   59kmX
                  e       10 04.00
MRWA    29.54 206 iPd     09 30.10   -3.8X
HKC     29.59 329 iP      09 42.00    7.7X
QIZ     29.67 318 Pd      09 38.00    2.9X
      N  14s      9.90um
IPM     30.21 284 ePc     09 41.40    1.4
        1.0s    353.20nm          6.2mb
BAL     30.45 204 eP      09 38.00   -4.0X
        0.7s     71.00nm          5.6mb
GZH     30.66 328 Pd      09 44.60    0.7
                                    5.0MszX
      Z  29s      5.30um
      N  11s      2.40um
      E  11s      1.40um
                  S       14 46.00
KLB     30.93 201 iPc     09 42.80   -3.4X
        0.6s    231.00nm          6.2mb
SNG     31.30 289 eP      09 49.80    0.2
        1.0s    122.00nm          5.7mb
                  eS      14 58.10
MUN     31.86 203 iPd     09 50.90   -3.4X
        0.8s   1389.00nm          6.9mb X
      Z  20s     10.30um          5.5Msz
PSI     31.88 280 ePc     09 53.60   -1.1
        0.8s    259.00nm          6.2mb
CMS     31.99 154 eP      09 54.60   -0.9
        0.8s     50.00nm          5.5mb
TSI     32.38 281 ePc     09 57.50   -1.6
BRS     32.48 141 iPd     09 58.50   -1.3
                  e       10 11.00   48kmX
                  e       11 09.00
                  eS      15 09.00
ADE     32.87 167 iPc     10 02.50   -0.6
        1.0s    520.00nm          6.4mb
RKG     33.44 200 iPd     10 10.70    2.6
        0.7s    335.00nm          6.4mb
KAGJ    33.87   1 eP      10 11.50   -0.3
NNT     34.06 297 eP      10 09.00   -4.7X
COO     34.28 146 iPd     10 15.40    0.0
LOE     34.68 307 eP      10 19.00    0.1
SSE     34.88 346 Pc      10 20.00   -0.5
        1.0s     70.00nm          5.5mb
      Z  20s      1.80um          4.8Msz
      N  13s      1.30um
      E  11s      1.10um
                  pP      10 25.00   17kmX
                  sP      10 30.70
                  PcP     12 54.00
                  S       15 44.00
KUMJ    35.21   1 eP      10 23.20   -0.1
BWA     35.63 154 iPc     10 27.80    0.9
BFD     35.94 163 iPc     10 28.80   -0.7
        0.8s    300.00nm          6.2mb
                  e       11 41.00  366kmX
NJ2     36.40 343 Pc      10 33.80    0.4
```

25d 02h

```
   Z  20s      1.60um              4.8Msz
   N  11s      1.30um
   E  10s      0.90um
                  S       16 15.00
                  iScP    16 45.40
WHN     36.56 336 Pd      10 35.00   0.2
    4.0s    900.00nm            6.0mb X
   Z  20s      2.50um           5.0Msz
   E  12s      2.49um
                  S       16 16.00
CAN     36.64 154 iPc     10 35.20  -0.2
                  e       11 57.80 431kmX
                  i       13 05.80
                  e       15 43.60
CNB     36.79 154 iPd     10 36.80   0.0
    0.7s     50.00nm          5.4mb
SHNJ    36.80   1 eP      10 35.90  -0.8
BDT     36.82 304 eP      10 39.00   2.0
    1.1s    193.20nm          5.8mb
TKSJ    36.82   5 P       10 36.90   0.0
GYA     37.07 323 iPd     10 40.60   1.4
    1.2s    100.00nm          5.5mb
   N  16s      4.10um
   E  16s      2.30um
                  pP      10 46.00  18kmX
                  PP      12 08.00
                  PcP     13 00.80
                  S       16 24.00
                  PcS     16 51.00
                  ScS     20 53.00
WKYJ    37.22   7 P       10 40.60   0.3
TOO     37.23 160 iPc     10 41.00   0.6
    0.8s     77.00nm          5.5mb
                  epP     10 50.00  30kmX
                  eS      19 36.00
SHK     37.27   3 eP      10 40.00  -0.6
CHTO    37.66 306 iPc     10 44.65   0.4
                  epPd    10 49.29  16kmX
                  esP     10 52.10
YONJ    37.97   4 P       10 46.50  -0.1
TSRJ    38.57   7 P       10 51.40  -0.2
KMI     38.62 318 P+      10 53.50   1.1
    4.0s      1.30nm          3.0mb X
   Z  18s      3.90um         5.3Msz
   N  13s      2.30um
   E  10s      0.80um
                  sP      11 24.00
                  PPP     12 46.00
                  S       16 46.00
IIDJ    38.80  10 P       10 52.40  -1.2
CHJJ    39.55  11 P       10 59.70  -0.1
MTMJ    39.86   9 P       11 02.00  -0.5
MAT     39.89  10 (P)     11 01.00  -1.6
    0.9s     40.34nm          5.1mb
   Z  20s      2.84um         5.1Msz
                  eS      16 47.00
DZM     39.91 122 iPc     11 02.90  -0.2
KAKJ    39.94  12 P       11 01.40  -1.6
PVC     40.06 114 iPc     11 04.80   0.6
NIIJ    40.71  11 P       11 09.00  -0.3
TIA     40.79 344 eP      11 09.00  -1.0
   Z  20s      2.00um         5.0Msz
XAN     41.89 333 P       11 18.20  -0.9
   N  13s      2.30um
   E  12s      1.10um
                  S       17 34.20
CD2     42.07 325 P       11 20.20  -0.4
    1.0s    100.00nm          5.5mb
   Z  18s      2.30um         5.1Msz
DL2     42.34 350 Pd      11 24.00   1.4
   Z  18s      2.40um         5.1Msz
   N  17s      2.40um
   E  15s      3.20um
                  S       17 43.00
OFUJ    43.03  13 P       11 29.40   1.1
TIY     43.66 339 Pd      11 32.90  -0.6
    0.8s    100.00nm          5.7mb
   Z  27s      3.40um         5.1MszX
   E  13s      2.00um
                  S       18 00.00
BJI     44.64 344 ePd     11 39.88  -1.4
    4.0s    480.00nm          5.7mb X
   Z  24s      2.29um         5.0MszX
   N  14s      1.38um
                  isPd    11 46.00
                  PcP     13 25.00
                  ScP     17 16.00
```

```
SNY     44.91 353 Pd      11 42.00  -1.4
    0.8s    100.00nm          5.8mb
   Z  20s      7.20um         5.6Msz
   N  18s      5.30um
   E  14s      1.00um
                  iS      18 16.00
                  sS      18 36.00
                  ScS     21 40.00
LZH     45.98 330 ePd     11 52.01  -0.2
    4.0s    960.00nm          6.1mb X
   Z  25s      3.20um         5.2MszX
   N  13s      2.00um
   E  12s      1.50um
                  ipPd    11 56.98  17kmX
                  PP      13 36.00
                  S       18 34.00
                  sS      18 49.00
                  ScS     21 48.00
CN2     46.67 355 P       11 56.90  -0.4
    4.0s    700.00nm          6.1mb X
   Z  20s      5.60um         5.5Msz
   N  18s      4.00um
   E  18s      1.50um
                  eS      18 40.00
HHC     46.77 340 P       11 58.00  -0.3
    1.0s    200.00nm          6.1mb
   Z  30s      5.50um         5.3MszX
   N  14s      2.10um
                  eS      18 50.00
BTO     47.08 339 P       12 01.00   0.2
   N  15s      0.80um
   E  15s      2.40um
                  S       18 52.00
                  SS      22 14.00
MDJ     47.28 359 iPd     12 02.00  -0.1
   Z  33s      5.00um         5.3MszX
   N  12s      1.10um
   E  12s      1.30um
                  S       18 55.00
LSA     49.53 314 P       12 19.20  -1.3
    3.0s    800.00nm          6.2mb
                  pP      12 29.00  33kmX
                  PP      14 09.00
                  S       19 26.50
GTA     50.57 329 iPd     12 27.20  -0.7
    1.0s    100.00nm          5.7mb
   Z  20s      3.90um         5.4Msz
   N  12s      1.00um
                  ScP     17 42.20
                  S       19 40.00
                  ScS     22 18.20
GUN     52.58 309 P       12 42.40  -1.1
HIA     52.73 351 eP      12 43.84  -0.1
                  esPd    12 49.63
PKI     52.78 308 P       12 43.70  -1.4
DMN     53.04 308 P       12 46.00  -0.9
MSZ     53.16 147 P       12 47.00  -0.1
GKN     53.59 308 P       12 49.40  -1.4
KOD     54.22 285 eP      12 54.80  -0.9
THZ     54.32 141 P       12 54.80  -1.0
LTZ     54.50 143 P       12 55.80  -1.3
TCW     54.88 140 P       12 58.80  -1.1
GBA     54.96 289 Pd      12 59.20  -1.6
    0.9s     79.50nm          5.7mb
KHZ     55.07 142 P       13 00.60  -0.6
    0.8s    160.00nm          6.1mb
CCW     55.13 141 P       13 00.10  -1.6
MRW     55.17 140 P       13 00.70  -1.2
MOZ     55.26 144 P       13 02.00  -0.5
CAW     55.34 140 P       13 01.40  -1.8
WDW     55.37 140 P       13 01.90  -1.5
HBZ     55.85 135 P       13 07.50   0.6
POO     59.50 293 iPc     13 30.50  -2.5
NDI     59.81 306 iPc     13 32.00  -2.9
    1.5s    222.22nm          6.1mb
WMQ     60.17 326 ePd     13 36.73  -0.5
   Z  22s      2.30um         5.3Msz
                  epPc    13 40.54  12kmX
                  iS      21 49.00
                  ScS     23 25.00
KSH     65.22 316 eP      14 12.00   1.0
   E  16s      2.40um
                  ePP     16 35.00
                  S       22 56.00
                  sS      23 03.00
QUE     68.75 304 iPc     14 32.50  -1.1
    0.9s   1008.40nm          7.0mb X
```

```
                  e(S)    23 33.20
ADK     70.51  32 e(P)    14 41.00  -2.6
HON     74.03  67 P       15 10.00   5.0X
   Z  18s      2.06um         5.5Msz
MAIO    76.38 308 iPd     15 18.40   0.0
    0.8s     34.77nm          5.5mb
                  eS      25 04.00
SBA     77.36 173 eP      15 23.90   0.9
MAW     78.89 201 iPc+    15 31.10  -0.4
    1.0s    182.00nm          6.1mb
AFR     79.50 107 iP      15 38.60   2.8X
    1.0s    100.00nm          5.8mb
PAE     79.69 107 iP      15 39.60   2.8X
    1.0s     90.00nm          5.7mb
PPT     79.69 107 iP      15 39.60   2.8X
    1.0s    105.00nm          5.8mb
SDN     80.67  33 eP      15 41.60   0.3
PMO     81.31 105 iP      15 48.60   3.2X
    1.0s    120.00nm          5.9mb
VAH     81.57 105 iP      15 49.50   2.8X
    1.0s     60.00nm          5.6mb
TPT     81.58 105 iP      15 50.00   3.2X
    1.0s     70.00nm          5.7mb
RUV     81.81 105 iP      15 50.90   2.9X
    1.0s     55.00nm          5.6mb
DHR     82.49 297 eP      15 50.50  -0.9
TEH     82.72 306 ePc     16 09.00  16.4X
SVW     84.84  28 eP      16 04.40   1.7
TTA     85.16  26 P       16 05.00   0.7
    1.0s    155.00nm          6.2mb
RYD     85.49 295 eP      16 07.50   0.8
KDC     85.59  32 eP      16 06.50   0.1
MJMA    86.78 296 iPc     16 13.70   0.6
IMA     86.95  23 eP      16 13.70   0.5
    1.2s     25.40nm          5.3mb
TAB     87.04 308 eP      16 16.00   1.8
SPA     87.15 180 iPc     16 13.90  -0.3
    1.1s    142.26nm          6.1mb
   Z  20s      2.70um         5.7Msz
                  i       17 12.60 242kmX
SLY     87.45 306 iP      16 16.50   0.5
                  e       16 50.00 130kmX
                  eSKS    26 54.00
PMR     88.00  28 ePc     16 18.60   0.5
    1.3s    117.90nm          6.1mb
   Z  20s      2.30um         5.6Msz
BHD     88.17 303 iPd     16 21.00   1.5
                  iSKS    27 03.00
QASM    88.38 296 eP      16 21.30   0.5
AFIF    88.56 294 ePc     16 23.50   1.8
FBA     89.13  25 eP      16 22.90  -0.6
UOSK    89.41 296 ePc     16 27.30   1.6
MSL     89.42 306 iPd     16 26.00   0.6
                  eSKS    26 54.00
                  eS      27 13.50
TOA     89.46  28 eP      16 26.00   0.8
INK     94.93  22 eP      16 49.00  -1.2
    1.1s     70.00nm          6.0mb
KVT     95.11 311 iP      16 51.40  -0.2
HOL     96.00 299 eP      16 56.00   0.1
KEV     97.28 340 eP      17 02.00   1.1
MBC     97.54  13 eP      17 02.00   0.1
    0.9s     32.00nm          5.9mb
BBTK    97.65 310 ePc     17 02.00  -1.3
SOD     97.90 338 iP      17 03.20  -0.5
BFT     98.02 244 iPc     17 04.50  -0.9
    1.0s     40.00nm          6.0mb
SUF     99.03 333 iP      17 08.60  -0.2
    0.8s     10.00nm          5.5mb
SLR     99.59 243 iPc     17 11.60  -0.8
    0.9s     29.41nm          5.8mb
SEK     99.80 241 iPd     17 13.50   0.1
BUL    100.00 249 iPdiff17 03.10 -11.4X
PRY    100.14 242 iPdiff17 14.70  -0.3
    1.0s     30.00nm          5.8mb
NUR    100.19 331 ePdiff17 14.00  -0.1
VRI    101.53 316 ePdiff17 21.50   1.0
                  ed      20 01.50
MLR    102.12 316 ePdiff17 23.00  -0.3
YKA    103.91  26 ePdiff17 30.70   0.0
    0.9s      2.80nm          5.1mb
LON    104.28  42 Pdiff  17 27.00  -5.8X
PNT    105.17  40 ePdiff17 38.00   1.4
KRA    105.21 321 ePdiff17 36.70  -0.1
HFS    105.50 332 ePKP   21 51.40   0.1
    2.2s    132.10nm
SLL    105.54 333 ePdiff17 36.60  -1.4
```

0.7s 8.80nm 5.9mb
ORV 105.80 50 ePKPc 22 08.00 15.4X
ARN 106.12 52 Pdiff 17 40.30 -0.9
NB2 106.26 334 Pdiff 17 39.90 -1.4
0.8s 6.20nm 5.7mb
CMB 106.91 51 ePKPc 22 05.80 11.0X
NEW 107.03 40 Pdiff 17 45.80 0.8
ZST 107.49 320 ePKP 21 55.70 0.2
KVN 108.48 50 Pdiff 17 50.00 -1.9
PRU 108.57 322 ePKP 21 58.00 0.5
BRG 108.65 323 ePKP 22 06.40 8.8X
e 22 39.80
CLL 109.06 324 e(PKP) 21 41.00 -17.4X
Z 18s 1.00um 5.4Msz
e 22 01.00
e 22 50.00
SBB 109.53 54 ePKP 22 19.00 19.1X
MOX 110.12 324 ePKP 22 02.00 1.6
SES 110.15 37 ePdiff 18 00.00 1.2
GRF 110.70 323 ePKP 22 02.10 0.6
e 22 30.00
GLA 112.29 55 Pdiff 18 14.00 5.2X
FFC 113.25 30 ePKP 22 13.00 6.8X
1.4s 23.00nm
MEM 113.41 325 PKP 22 07.50 0.9
CDF 113.59 322 ePKP 22 07.00 -0.2
0.8s 4.05nm
BSF 114.12 322 ePKP 22 08.10 -0.2
0.8s 16.10nm
HAU 114.32 322 ePKP 22 08.90 0.3
0.7s 8.80nm
DOU 114.44 325 PKP 22 09.60 0.9
PGF 114.67 316 ePKP 22 09.50 0.0
0.8s 21.50nm
LPG 115.08 320 ePKP 22 10.80 0.3
0.7s 6.60nm
SBF 115.26 318 ePKP 22 10.30 -0.3
0.8s 21.50nm
BNI 115.31 319 PKP 22 11.00 0.3
EKA 115.70 333 PKP 22 12.00 1.1
0.9s 5.70nm
FRF 115.91 318 ePKP 22 11.70 0.0
0.8s 10.75nm
LRG 116.14 318 ePKP 22 12.50 0.4
LOR 116.16 322 iPKPc 22 12.40 0.3
0.8s 8.05nm
LBF 116.21 322 iPKPc 22 12.50 0.3
0.8s 13.45nm
SMF 116.44 322 ePKP 22 12.60 0.0
0.8s 5.35nm
SSF 116.46 322 iPKPc 22 13.00 0.3
0.8s 18.80nm
AVF 116.68 322 ePKP 22 13.00 0.0
0.8s 9.40nm
BGF 117.10 322 ePKP 22 14.40 0.5
0.7s 25.35nm
TCF 117.61 322 iPKPc 22 15.40 0.5
0.8s 14.80nm
FRB 117.70 9 ePKP 22 14.00 -0.4
GOL 117.76 46 PKP 22 25.00 9.3X
Z 20s 1.90um 5.7Msz
GLD 117.85 46 PKP 22 25.00 9.2X
Z 18s 2.58um 5.9Msz
LSF 118.05 322 iPKPc 22 15.90 0.2
0.8s 13.45nm
CAF 118.33 321 ePKP 22 17.00 0.7
1.0s 16.00nm
RJF 118.50 321 ePKP 22 16.90 0.3
0.8s 5.35nm
ALQ 118.54 51 ePKP 22 18.00 0.7
Z 22s 1.93um 5.7Msz
LPF 118.69 325 ePKP 22 17.40 0.6
0.9s 16.40nm
MFF 118.89 323 ePKP 22 17.30 0.0
0.8s 30.90nm
LPO 118.99 321 ePKP 22 18.40 0.9
0.9s 21.30nm
LFF 119.15 321 ePKP 22 18.40 0.6
0.8s 16.10nm
EPF 120.30 319 ePKP 22 05.00 -15.2X
0.8s 9.40nm
MEO 124.64 49 iPKPd 22 29.30 0.6
TOL 124.71 318 ePKP 22 29.00 0.3
ASMO 125.71 315 iPKPc 22 30.50 -0.4
APHE 125.86 315 iPKPc 22 32.00 0.8
ALOJ 126.08 315 iPKPc 22 31.40 -0.2
ATEJ 126.11 315 iPKPc 22 31.50 -0.2

TUL 126.22 47 ePKP 22 32.20 0.4
0.9s 17.90nm
SCH 126.37 12 ePKP 22 32.00 0.5
UYO 127.99 48 iPKPd 22 24.80 -10.3X
IFR 128.47 312 iPKPc 22 35.00 -1.3
RSCP 133.48 41 PKP 22 45.00 -0.6
TIC 135.37 277 PKP 22 38.80 -11.0X
BLA 135.66 36 PKP 22 50.00 0.3
MBO 145.76 291 iPKPc 23 09.30 1.1
ANT 146.74 144 iPKP 23 11.00 1.4
PT10 149.06 119 ePKP 23 15.00 1.4
i 23 39.00
PT03 149.14 124 e(PKP) 23 15.30 1.6
NNA 149.21 119 iPKPc 23 14.80 0.9
1.0s 125.00nm
Z 18s 0.34um 5.2Msz
i 23 19.50
UPA 149.69 77 ePKP 23 14.50 0.0
ARE 151.12 132 ePKP 23 19.00 2.0
PSO 152.31 93 ePKP 23 20.50 1.5
LPB 153.48 137 PKP 23 18.00 -2.5
eLR 16 30.00
ZOBO 153.64 137 ePKP 23 21.63 0.7
Z 22s 0.84um 5.5Msz
LR 16 58.00
CCH 154.13 142 PKP 23 23.50 2.2
BOG 155.59 85 ePKP 23 24.00 0.6
SIV 158.13 149 PKPc 23 27.00 0.9
i 24 00.60
SDV 158.31 73 ePKP 23 26.90 0.3
FISA 158.79 66 ePKP 23 26.90 0.0
TOV 158.86 70 ePKP 23 28.30 1.3
MORO 159.86 66 ePKP 23 27.50 -0.7
LLAV 161.38 65 iPKP 23 30.00 0.3
BAO 161.54 185 ePKP 23 29.80 0.0
OLLA 161.56 67 iPKP 23 30.00 0.1
GUAN 162.63 65 ePKP 23 30.10 -0.9
S.D. = 1.0 on 205 of 246 obs.

---

* MAY 25, 1990 02h 49m 02.32± 0.86s
5.358 N ±12.3km 31.328 E ±19.6km
DEPTH = 10.0km (geophysicist)
4.8mb (21 obs.)
SUDAN (557)

AWKL 17.99 3 iP 53 19.00 4.7X
eS 58 15.00
AGMR 18.11 4 iP 53 21.00 5.3X
eS 58 15.00
AKRL 18.24 4 iP 53 20.00 2.6
eS 58 25.00
HLW 24.37 0 eP 54 22.00 0.3
8FT 30.88 182 eP 55 23.00 1.5
1.3s 115.38nm 5.6mb
S 00 24.50
MLR 40.25 354 eP 56 45.00 3.9X
VRI 40.55 355 ePd 56 44.00 0.6
SRO 43.75 347 eP 57 16.10 6.6X
e 57 25.30
FRF 43.83 334 eP 57 10.20 -0.1
ZST 44.38 346 e(P) 57 17.20 2.5
e 59 05.20
SPC 44.68 350 eP 57 19.30 2.0
BNI 45.02 335 P 57 21.00 1.0
SQTA 45.16 341 eP 57 23.00 1.9
LPL 45.37 336 eP 57 22.20 -0.7
0.6s 2.25nm 4.3mb
KRA 45.57 350 eP 57 27.20 3.1X
KHC 46.15 344 iP 57 28.60 -0.2
Z 17s 1.10um 4.9MszX
N 17s 0.60um
E 16s 0.80um
TOL 46.85 322 eP 57 36.00 1.6
CAF 46.97 332 eP 57 35.70 0.4
LPO 47.21 331 eP 57 37.50 0.3
0.6s 5.40nm 4.8mb
8SF 47.25 338 eP 57 36.70 -0.9
0.8s 5.35nm 4.7mb
GRF 47.33 342 eP 57 37.00 -1.1
e 57 41.30
SMF 47.49 334 eP 57 39.10 -0.3
0.8s 9.40nm 4.9mb
RJF 47.51 332 eP 57 39.80 0.2
CDF 47.55 338 eP 57 38.70 -1.2
LFF 47.62 331 eP 57 40.60 0.2
BRG 47.64 345 e(P) 57 45.80 5.3X
LBF 47.69 335 eP 57 40.20 -0.8

0.8s 4.05nm 4.6mb
MAF 47.72 333 eP 57 41.60 0.4
0.6s 5.40nm 4.8mb
AVF 47.81 334 eP 57 41.40 -0.5
0.8s 6.70nm 4.8mb
BGF 47.85 334 eP 57 41.80 -0.4
0.8s 6.70nm 4.8mb
TCF 47.93 333 eP 57 43.30 0.4
0.8s 10.05nm 5.0mb
SSF 47.95 335 eP 57 42.20 -0.8
0.6s 1.80nm 4.3mb
LOR 47.97 335 eP 57 42.40 -0.7
0.8s 8.05nm 4.9mb
MOX 48.06 343 eP 57 47.00 3.1X
LSF 48.21 332 eP 57 45.30 0.2
0.8s 8.05nm 4.8mb
CLL 48.28 345 eP 57 45.00 -0.5
MFF 49.25 332 eP 57 52.80 -0.2
0.7s 4.40nm 4.6mb
DOU 49.93 338 P 57 57.30 -0.9
LDF 50.71 333 eP 58 03.50 -0.6
0.6s 3.60nm 4.5mb
LPF 50.71 332 eP 58 03.90 -0.2
0.9s 8.20nm 4.7mb
GRR 50.89 333 eP 58 04.80 -0.7
NUR 55.25 356 eP 58 32.00 -5.7X
HFS 56.27 349 eP 58 42.50 -2.6X
0.5s 0.70nm 3.9mb
EKA 56.97 337 P 58 50.00 -0.2
1.5s 18.80nm 4.9mb
SUF 57.37 357 iP 58 50.80 -2.0
0.5s 5.00nm 4.8mb
NB2 57.58 349 P 58 52.50 -2.0
0.9s 8.60nm 4.8mb
KEV 64.37 358 eP 59 41.00 0.8
LZH 72.74 54 Pd 00 31.50 -1.6
2.0s 42.00nm 5.2mb
YKA 107.51 344 ePdiff 03 41.20 19.0X
0.8s 0.60nm
S.D. = 1.2 on 39 of 49 obs.

& MAY 25, 1990 04h 44m 34.94s
63.185 N 150.623 W
DEPTH = 134.3km
CENTRAL ALASKA (1)
<AGS-P>.

KTH 0.39 340 iP 44 53.87 -0.4
eS 45 07.62
HUR 0.49 114 eP 44 54.27 -0.5
CUT 0.80 168 iP 44 56.50 -0.3
eS 45 13.07
RND 0.83 74 iP 44 56.73 -0.4
eS 45 13.65
MCK 0.94 53 eP 44 57.58 -0.4
SKT 1.28 200 iP 45 00.86 -0.5
iS 45 21.14
PWA 1.58 167 eP 45 04.27 -0.3
eS 45 26.56
GHO 1.62 150 iP 45 04.69 -0.5
eS 45 28.12
SUA 1.73 182 eP 45 06.39 0.0
PLRM 1.74 156 iP 45 05.48 -1.0
SML 1.74 141 iP 45 05.62 -0.9
PMS 2.01 165 eP 45 09.14 -0.6
SPU 2.12 199 eP 45 10.55 -0.5
NCA 2.13 123 eP 45 10.42 -0.7
TOA 2.32 116 eP 45 13.65 0.0
PAX 2.36 93 eP 45 13.61 -0.5
SLKM 2.69 176 eP 45 17.63 -0.7
RDT 2.75 199 eP 45 18.71 -0.5
KLU 2.77 126 eP 45 17.95 -1.5
GLI 2.85 143 eP 45 18.73 -1.6
VZW 2.86 136 eP 45 18.94 -1.6
VLZ 2.88 134 eP 45 18.90 -1.8
SEW 3.14 169 eP 45 23.02 -1.1
23 obs. associated

? MAY 25, 1990 06h 12m 44.88± 1.97s
4.490 N ±33.6km 31.490 E ±12.6km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.) 4.0Msz (1 obs.)
SUDAN (557)

AAE 8.52 58 eP 14 51.50 0.0
KHC 47.02 344 iP 21 18.50 0.3
GRF 48.20 342 e(P) 21 10.00 -17.5X

25d 06h

CLL	49.16	345	e(P)	21 39.00	4.2X
	1.5s		17.00nm		4.8mb
GKN	55.60	59	P	22 23.30	-0.3
DMN	55.90	60	P	22 26.00	0.1
	1.0s		31.00nm		5.3mb
PKI	56.15	60	P	22 28.00	0.2
	1.0s		12.00nm		4.9mb
GUN	56.64	59	P	22 31.20	-0.1
HFS	57.15	350	eP	22 34.30	0.3
	0.4s		0.80nm		4.1mb
Z	18s		0.12um		4.0Msz
			LR	49 44.00	
SUF	58.24	357	iP	22 41.20	-0.3
	0.6s		4.70nm		4.7mb
NB2	58.46	349	P	22 42.30	-0.9
	0.9s		5.70nm		4.6mb
KEV	65.24	358	eP	23 29.00	0.6
S.D. = 0.5		on	10 of	12 obs.	

---

* MAY 25, 1990 06h 31m 52.10± 3.09s
2.936 N ±11.7km 127.288 E ±23.6km
DEPTH = 64.0 ± 29.4 km
4.7mb (3 obs.)
MOLUCCA PASSAGE (266)

MNI	2.86	239	ePc	32 36.30	0.0
			eS	33 09.50	
WB5	23.72	163	iPc	36 59.00	-0.3
WRA	23.77	163	Pc	37 00.20	0.4
	0.4s		11.40nm		4.7mb
MBL	25.04	197	eP	37 12.10	0.2
QIS	26.29	153	iPd	37 23.40	-0.2
	0.3s		4.00nm		4.4mb
WARB	28.95	181	iPc	37 47.80	0.1
MUN	36.28	196	eP	38 51.00	-0.3
BJI	38.28	346	eP	39 08.00	0.0
	1.0s		15.00nm		4.9mb
YKA	99.98	25	eP	45 41.70	10.4X
	1.0s		0.50nm		
S.D. = 0.3		on	8 of	9 obs.	

MAY 25, 1990 07h 17m 07.46± 0.65s
40.180 N ± 5.3km 29.363 E ± 5.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.39	1	iPg	17 15.60	0.2
GBZT	0.61	6	ePg	17 20.00	0.2
			iSg	17 35.00	
HRT	0.68	20	iPg	17 21.20	0.2
GPA	0.73	81	iPn	17 21.30	-0.6
KCT	0.77	275	iPn	17 21.60	-1.0
ISK	0.91	345	ePn	17 24.60	-0.3
			eSg	17 39.60	
EDC	1.16	279	iPn	17 29.60	0.5
CTT	1.20	324	ePn	17 30.00	0.2
KHL	1.86	176	ePn	17 40.20	0.5
S.D. = 0.6		on	9 of	9 obs.	

---

* MAY 25, 1990 07h 51m 32.81± 1.85s
32.199 S ± 9.5km 71.526 W ±15.3km
DEPTH = 7.3 ± 3.8 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.89	151	iP	51 50.50	0.3
			i	52 04.80	
JACH	0.92	122	iPd	51 51.00	0.2
			iS	52 04.40	
PEL	1.18	143	iPc	51 54.70	-0.4
			iS	52 11.10	
LCCH	1.27	182	iPd	51 57.50	0.8
			iS	52 15.80	
FCH	1.53	138	eP	52 00.50	-0.4
			i	52 23.00	
TACH	1.53	161	eP	52 00.50	-0.1
			i	52 24.00	
PCH	1.65	149	iP	52 02.50	0.1
			i	52 12.50	
			i	52 25.60	
LNV	1.75	177	iPc	52 03.00	-0.8
			iS	52 27.50	
RTBS	1.84	74	ePd	52 04.00	-1.0
			S	52 27.60	
RTCB	2.43	74	eP	52 14.50	0.9
RTCV	2.56	83	eP	52 15.80	0.4
RTLL	2.74	72	e(P)	52 18.00	-0.1
S.D. = 0.7		on	12 of	12 obs.	

---

* MAY 25, 1990 08h 17m 57.70± 0.98s
31.548 S ±11.2km 68.727 W ±12.4km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.09	315	iPd	18 05.10	1.5
RTLL	0.31	45	iPc	18 04.70	-0.9
RTCV	0.35	153	iPc	18 07.00	0.8
RTBS	0.63	259	ePc	18 09.50	-0.6
			(S)	18 21.80	
MDZ	1.34	184	eP	18 19.50	-0.8
			iS	18 41.10	
S.D. = 1.6		on	5 of	5 obs.	

? MAY 25, 1990 08h 38m 01.52± 2.19s
32.321 S ±15.3km 69.617 W ±32.1km
DEPTH = 120.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)

RTBS	0.67	12	ePd	38 20.80	-0.1
			S	38 35.00	
MDZ	0.86	131	iP	38 22.60	0.0
			iS	38 39.70	
RTCV	1.02	64	iPc	38 24.00	-0.1
RTCB	1.08	40	iPd	38 25.00	0.2
			eS	38 43.50	
RTLL	1.39	45	iPc	38 28.10	0.0
			eS	38 49.70	
S.D. = 0.2		on	5 of	5 obs.	

MAY 25, 1990 10h 00m 13.14± 0.41s
6.469 S ± 3.1km 129.043 E ± 5.5km
DEPTH = 289.6 ± 4.6 km
4.8mb (21 obs.)
BANDA SEA (280)

AAI	2.89	343	iPd	01 09.50	2.0
			iS	01 55.00	
MTN	6.66	162	iPc	01 50.40	-0.5
MNI	8.91	332	iPc	02 20.30	1.6
	1.0s		554.50nm		5.5mb
KNA	9.23	182	eP	02 21.90	-0.7
			eS	04 02.00	
WB5	14.30	159	iPd	03 23.20	-1.8
			eS	05 55.50	
			iScP	11 25.80	
WRA	14.35	159	Pd	03 23.60	-2.0
	0.6s		143.00nm		5.5mb
MBL	17.11	211	eP	03 55.60	-0.6
	0.3s		13.00nm		4.8mb
			eS	07 11.00	
QIS	17.35	145	iPd	03 57.90	-0.8
			e	07 03.60	
			eS	07 33.80	
KKM	17.84	314	ePc	04 03.70	-0.3
PMG	18.17	100	eP	04 07.00	-0.2
WARB	19.74	186	iPd	04 23.90	1.0
	0.3s		16.00nm		4.9mb
NANU	20.64	218	iPd	04 32.50	0.8
			eS	05 00.50	
CTA	21.50	131	iPd	04 41.80	1.6
	1.1s		150.63nm		5.3mb
MEKA	22.40	205	eP	04 48.90	0.2
	0.4s		10.00nm		4.6mb
			eS	09 13.00	
FORR	24.27	182	iPd	05 05.30	-0.8
QLP	24.69	146	eP	05 10.00	0.0
MRWA	25.76	207	iPd	05 19.20	-0.6
	0.4s		11.00nm		4.7mb
			e	05 58.00	
BAL	26.66	204	eP	05 27.00	-0.9
KLB	27.13	201	iPd	05 31.50	-0.6
	0.3s		13.00nm		4.9mb
RMQ	27.37	139	eP	05 34.00	-0.3
MUN	28.07	204	eP	05 40.00	-0.4
			e	06 33.00	
ADE	29.73	164	iPd	05 55.00	-0.1
	1.0s		72.00nm		5.2mb
BRS	30.68	135	iPc	06 03.20	-0.2
			i	17 14.00	
COO	32.18	141	iPc	06 17.40	1.0
BFD	32.95	160	iPd	06 23.30	0.4
	0.6s		39.00nm		5.1mb
BWA	33.08	150	iPd	06 26.10	2.0
CAN	34.08	150	iPd	06 33.50	0.9
CNB	34.26	150	eP	06 35.00	0.9
TOO	34.39	157	iPd	06 36.70	1.6
	0.6s		36.00nm		5.1mb
			e	08 00.50	
BDT	37.90	309	eP	07 06.20	1.5
SSE	38.10	349	Pd	07 06.50	0.4
	0.9s		40.00nm		4.9mb
CHTO	38.88	311	iP	07 13.10	0.4
	0.8s		24.71nm		4.6mb
WHN	39.40	340	ePc	07 17.70	0.8
	1.0s		30.00nm		4.6mb
NJ2	39.52	346	iPc	07 18.40	0.6
IIDJ	42.55	11	P	07 42.10	-0.5
CHJJ	43.31	12	P	07 47.20	-1.4
MTMJ	43.61	10	P	07 50.50	-0.6
MAT	43.64	11	iPc	07 50.10	-1.1
	0.9s		57.14nm		4.9mb
KAKJ	43.72	13	P	07 50.30	-1.5
CD2	44.35	328	P	07 56.50	-0.5
NIIJ	44.47	11	P	07 56.80	-0.9
XAN	44.56	336	P	07 57.50	-1.1
YAMJ	45.58	12	P	08 06.90	0.4
TIY	46.60	342	eP	08 14.00	-0.6
OFUJ	46.81	13	eP	08 16.10	0.1
SNY	48.32	355	Pd	08 27.00	-0.6
LZH	48.49	333	Pc	08 29.00	-0.3
	2.0s		57.00nm		4.6mb
CN2	50.14	357	Pc	08 40.70	-0.7
MDJ	50.85	1	Pc	08 47.00	0.2
MSZ	50.92	145	P	08 47.80	0.5
GTA	53.05	332	iPc	09 03.20	-0.1
GUN	53.89	311	P	09 09.00	-0.8
PKI	54.06	311	P	09 10.00	-1.1
	0.6s		18.00nm		4.7mb
DMN	54.31	311	P	09 12.10	-0.6
	0.6s		20.00nm		4.7mb
GKN	54.87	311	P	09 16.00	-0.7
MAIO	77.61	309	eP	11 40.00	0.6
SDN	84.38	33	eP	12 14.20	0.2
TTA	88.94	26	eP	12 36.60	0.6
IMA	90.74	23	eP	12 44.50	0.2
PMR	91.76	28	eP	12 48.50	-0.4
	1.1s		12.50nm		4.8mb
FBA	92.91	25	eP	12 53.00	-1.2
TOA	93.23	28	eP	12 56.40	0.7
INK	98.73	22	eP	13 20.00	-0.5
MBC	101.32	13	ePdiff	13 32.00	0.1
	0.6s		1.00nm		4.5mb
YKA	107.69	26	ePdiff	14 00.50	0.0
	0.6s		0.40nm		4.8mb
YKA	107.69	26	ePKP	18 06.10	-0.8
	0.6s		0.50nm		
YKA	107.69	26	ePKP	18 32.40	25.5X
	0.6s		0.30nm		
BSF	116.10	321	ePKP	18 23.70	0.1
LPL	116.94	318	ePKP	18 25.40	0.0
	0.5s		2.55nm		
LBF	118.19	321	ePKP	18 27.60	0.1
	0.6s		2.70nm		
SSF	118.46	321	ePKP	18 28.10	0.1
	0.5s		1.80nm		
BGF	119.08	320	ePKP	18 29.70	0.5
	0.6s		6.30nm		
TCF	119.59	320	ePKP	18 30.30	0.1
	0.6s		1.80nm		
LIC	134.36	272	PKP	19 00.40	1.1
TIC	134.38	273	PKP	19 00.80	1.4
ZOBO	151.73	143	PKP	19 31.00	1.4
			e	20 54.00	
S.D. = 0.9		on	75 of	76 obs.	

% MAY 25, 1990 10h 27m 00.37± 1.10s
37.090 N ±10.1km 29.399 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.53	130	iPn	27 11.10	-0.1
YER	0.89	273	iPn	27 17.50	0.0
BCK	1.02	68	iPn	27 19.40	-0.3
KHL	1.23	5	ePn	27 22.00	-1.4
ALT	2.04	16	ePn	27 37.00	1.8
S.D. = 1.6		on	5 of	5 obs.	

---

* MAY 25, 1990 10h 40m 49.41± 0.57s
18.378 S ±12.3km 168.075 E ±16.1km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
VANUATU ISLANDS (186)

PVC	0.67	20	iPd	41	02.20	-0.6
			iS	41	10.50	
DZM	3.98	202	iPd	41	50.20	-1.7
			iS	42	35.00	
BRS	16.70	235	eP	44	46.00	0.9
RMO	19.58	242	eP	45	21.30	0.6
CTA	20.67	262	iP	45	31.60	-0.6
			i	45	36.00	
BWA	23.71	224	iPd	46	02.30	-0.1
CAN	23.89	221	eP	46	05.30	1.1
WRA	31.87	262	P	47	16.00	-1.2
	0.4s		0.20nm		3.4mb	
ZST	142.04	328	ePKP	00	23.00	-0.5
CDF	146.22	337	ePKP	00	28.00	-2.7X
	0.8s		5.35nm			
LOR	148.41	339	ePKP	00	32.80	-1.3
	0.6s		5.40nm			
LBF	148.62	339	ePKP	00	33.20	-1.3
	0.9s		4.10nm			
SSF	148.71	339	ePKP	00	34.70	0.1
	0.9s		9.00nm			
LPG	148.82	334	ePKP	00	35.00	-0.2
	0.6s		2.70nm			
LPF	149.12	346	ePKP	00	35.70	0.5
BGF	149.37	340	ePKP	00	35.60	0.0
TCF	149.81	340	ePKP	00	37.50	1.2
	0.8s		5.35nm			
LSF	150.06	341	ePKP	00	37.70	1.0
	0.8s		5.35nm			
MFF	150.22	344	ePKP	00	37.00	0.1
RJF	150.91	340	ePKP	00	40.00	2.0
	1.0s		8.00nm			
CAF	151.06	339	ePKP	00	42.60	4.3X
	0.7s		2.20nm			
LFF	151.48	341	ePKP	00	41.90	3.1X
	0.6s		3.60nm			
S.D. = 1.1			an	19	of	22 obs.

? MAY 25, 1990 10h 58m 58.74± 1.56s
50.399 N ±27.9km 18.813 E ±12.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.8 (KRA).

KRA	0.80	115	iPgc	59	13.70	-0.6
			iSg	59	23.00	
SPC	1.53	142	ePn	59	27.00	0.8
			i(Sg)	59	47.70	
KSP	1.67	286	ePn	59	28.50	0.4
			iPg	59	30.50	
			iS	59	55.10	
PRU	2.78	263	ePg	59	51.00	7.0X
			eSg	00	27.00	
KHC	3.62	252	Pn	59	55.50	-0.6
			Sg	00	57.00	
S.D. = 1.2			an	4	of	5 obs.

% MAY 25, 1990 11h 57m 30.02± 0.91s
40.655 N ± 9.2km 15.804 E ± 5.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.39	256	Pc	57	37.70	-0.3
			eSg	57	44.00	
MGR	0.55	200	Pc	57	40.50	-0.7
			eSg	57	48.50	
ORI	0.77	140	P	57	45.10	0.1
BSS	0.77	280	P	57	45.50	0.5
			eSg	57	57.10	
TDS	1.08	157	P	57	51.00	0.7
			eSg	58	06.50	
BRT	1.09	78	P	57	50.00	-0.4
			eSg	58	06.00	
S.D. = 0.7			on	6	of	6 obs.

? MAY 25, 1990 13h 12m 12.44± 7.82s
18.811 N ±58.4km 66.242 W ±11.9km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR	0.61	145	P	12	25.40	0.6
SJG	0.70	173	iP	12	26.50	0.2
CPD	0.83	158	P	12	27.50	-1.0
PORP	0.84	207	P	12	29.00	0.3
MGP	1.13	225	P	12	33.40	-0.3
S.D. = 0.9			an	5	of	5 obs.

% MAY 25, 1990 13h 15m 43.65± 0.94s
16.118 N ± 7.4km 61.272 W ±13.0km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.2 (FDF).

SFG	0.15	28	iPc	15	49.44	-0.4
			S	15	52.00	
MGG	0.20	192	eP	15	50.00	-0.3
			S	15	52.80	
SEG	0.36	322	eP	15	51.75	-0.5
			S	15	56.30	
PAG	0.40	257	eP	15	52.40	-0.5
			S	15	57.20	
BBL	0.62	199	eP	15	56.56	0.5
			S	16	04.90	
BPA	1.08	329	eP	16	03.40	0.9
			S	16	16.60	
MGH	1.09	304	eP	15	57.70	-4.9X
S.D. = 0.7			an	6	of	7 obs.

? MAY 25, 1990 13h 44m 51.36± 3.27s
31.565 S ±11.8km 68.141 W ±29.7km
DEPTH = 14.6 ± 11.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.09	243	iPd	44	54.80	0.1
RTLL	0.37	310	iPc	44	58.90	-0.2
RTCV	0.45	229	eP	44	59.90	-0.6
ZON	0.46	272	iPd	45	00.50	-0.2
			eS	45	11.00	
RTBS	1.12	265	ePd	45	12.60	0.6
			S	45	30.70	
MDZ	1.45	204	eP	45	17.30	0.3
			eS	45	38.70	
S.D. = 0.7			an	6	of	6 obs.

? MAY 25, 1990 13h 53m 44.09± 1.24s
23.035 N ±10.2km 120.790 E ±10.5km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWG	0.34	129	iPd	53	51.10	0.1
			eS	53	56.50	
TWK	0.36	310	iPd	53	51.40	-0.1
			eS	53	56.70	
TWO	1.23	2	ePd	54	07.50	0.4
TWD	1.28	35	eP	54	07.40	-0.3
S.D. = 0.6			on	4	of	4 obs.

? MAY 25, 1990 14h 40m 44.15± 7.70s
37.460 N ±43.8km 20.577 E ±57.7km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
ML 3.7 (ATH).

VLS	0.72	1	ePg	40	57.70	-0.6
ITM	1.11	104	ePb	41	05.00	0.0
VLI	2.03	111	ePg	41	25.00	6.3X
ATH	2.54	77	ePg	41	32.30	6.2X
NEO	2.78	48	ePn	41	29.00	-0.5
VAY	4.15	21	eP	41	50.00	1.1
S.D. = 1.3			an	4	of	6 obs.

* MAY 25, 1990 15h 04m 58.49± 0.63s
14.845 S ±14.0km 168.001 E ±14.9km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
VANUATU ISLANDS (186)

DZM	7.34	191	iPc	06	45.80	-0.4
			iS	08	09.20	
HNR	9.54	303	eP	07	11.00	-5.6X
BRS	18.88	226	eP	09	22.50	3.7X
PMG	21.08	282	eP	09	42.50	0.0
RMO	21.38	234	eP	09	47.60	2.1
CTA	21.38	253	iPd	09	47.00	1.5
	1.0s		38.00nm		4.8mb	
WB5	32.45	256	eP	11	26.20	-1.9
WRA	32.48	256	Pc	11	26.10	-2.3
	0.8s		3.30nm		4.3mb	
KMI	74.97	302	eP	16	40.00	1.1
MLR	135.84	322	ePdiff	21	02.00	-19.5X
			e	46	48.00	
LBF	145.29	341	ePKP	24	33.60	-1.0
GRR	145.31	347	ePKP	24	33.50	-1.0
SSF	145.37	341	iPKPc	24	34.20	-0.5
	0.7s		6.60nm			
LPG	145.59	336	ePKP	24	35.70	0.2
	0.5s		3.30nm			
SMF	145.64	341	ePKP	24	34.90	-0.3
	0.9s		4.90nm			
AVF	145.66	341	ePKP	24	34.80	-0.4
	0.9s		4.90nm			
LPF	145.69	347	ePKP	24	35.00	-0.2
	0.5s		3.65nm			
BGF	146.03	342	ePKP	24	36.10	0.3
	0.5s		3.65nm			
TCF	146.46	342	ePKP	24	37.20	0.6
SBF	146.66	334	ePKP	24	37.70	0.7
MFF	146.82	345	ePKP	24	38.60	1.5
	0.5s		0.25nm			
RJF	147.56	342	ePKP	24	40.60	2.3X
LFF	148.12	343	ePKP	24	42.30	3.1X
	0.5s		5.85nm			
LPO	148.22	342	ePKP	24	42.80	3.4X
S.D. = 1.2			an	18	of	24 obs.

MAY 25, 1990 15h 14m 03.94± 0.57s
5.375 N ± 6.7km 31.763 E ±10.1km
DEPTH = 10.0km (geophysicist)
4.7mb (14 abs.) 4.3Msz (1 abs.)
SUDAN (557)

AAE	7.84	62	eP	16	02.50	1.4
LWI	8.12	201	iPc	16	04.30	-0.7
LWI	8.12	201	iPd	16	04.50	-0.5
ASW	18.63	3	eP	18	24.00	0.3
			eS	22	04.00	
MBH	24.44	7	e(P)	19	20.00	-4.0X
BUL	25.55	187	iP	19	25.70	-9.1X
			iSn	23	38.60	
KIC	36.32	273	P	21	11.32	1.2
TIC	36.60	274	P	21	13.72	1.3
	1.0s		38.50nm		5.2mb	
LIC	36.61	273	P	21	13.60	1.1
Z	20s		0.54um		4.3Msz	
QUE	41.31	49	eP	21	56.60	4.9X
LPG	45.51	335	eP	22	29.00	3.3X
	1.0s		9.00nm		4.7mb	
GBA	45.72	76	Pd	22	31.60	4.2X
	0.6s		2.60nm		4.4mb	
KHC	46.25	344	P	22	31.00	-0.2
BSF	47.40	337	eP	22	39.80	-0.6
	0.8s		4.05nm		4.6mb	
SMF	47.66	334	eP	22	42.20	-0.1
	1.0s		11.00nm		4.9mb	
LBF	47.86	335	eP	22	43.80	-0.2
MAF	47.90	333	eP	22	44.90	0.7
	1.2s		14.90nm		5.0mb	
AVF	47.98	334	eP	22	44.70	-0.2
	1.0s		8.00nm		4.8mb	
BGF	48.03	333	eP	22	45.30	0.1
TCF	48.11	333	eP	22	46.60	0.7
	0.9s		9.00nm		4.9mb	
SSF	48.13	334	eP	22	45.60	-0.4
	0.9s		4.10nm		4.5mb	
LOR	48.13	335	eP	22	45.60	-0.5
	0.9s		6.55nm		4.7mb	
LSF	48.40	332	eP	22	48.40	0.3
	1.0s		12.00nm		4.9mb	
LDF	50.89	333	eP	23	06.30	-0.8
NUR	55.27	356	eP	23	51.00	11.5X
APO	56.67	350	eP	23	47.40	-2.2
	0.5s		1.00nm		4.1mb	
SUF	57.37	357	iP	23	53.80	-0.7
	0.5s		5.00nm		4.8mb	
NB2	57.65	348	P	23	53.80	-2.8X
	1.0s		4.80nm		4.5mb	
S.D. = 0.9			an	21	of	28 obs.

MAY 25, 1990 15h 44m 47.28± 0.56s
37.960 N ± 7.1km 21.029 E ± 4.5km
DEPTH = 5.0km (geophysicist)
3.8mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.5 (ATH).

VLS	0.41	302	iPgd	44	53.30	-2.2
ITM	1.06	137	ePg	45	03.30	-4.4X
VLI	1.96	129	ePg	45	21.70	0.2
KEK	2.00	332	ePg	45	25.50	3.5X
ATH	2.12	89	ePb	45	24.80	0.9
NEO	2.18	51	ePn	45	25.60	0.8

25d 15h

```
OHR      3.15 357 ePn    45 40.00    1.5
LCI      3.37 316 P      45 45.00    3.4X
VAY      3.56  19 ePn    45 43.50   -0.8
VAM      3.60 134 ePn    45 44.00   -0.9
SOI      3.93 273 P      45 50.00    0.4
                  eSn    46 25.00
SKO      4.02   4 ePn    45 50.50   -0.3
                  i      46 05.50
                  i      47 03.00
TDS      4.04 296 P      45 54.00    2.9X
ORI      4.14 302 P      45 53.00    0.5
                  eSn    46 35.50
BRT      4.15 316 P      46 00.00    7.3X
ATN      4.40 274 P      45 56.00   -0.3
                  eSn    46 36.00
RDO      4.72  46 ePn    45 59.20   -1.6
MGR      4.78 299 P      46 02.00    0.3
                  eSn    46 49.00
MNO      5.01 272 P      46 05.00   -0.1
                  eSn    46 50.00
SGO      5.14 302 P      46 08.00    1.3
                  eSn    46 58.00
BSS      5.59 302 P      46 13.50    0.4
NB2     23.91 348 P      49 58.80   -3.8X
        0.7s      2.00nm          3.8mb
     S.D. = 1.1  on  16 of  22 obs.
-------------------------------------
?  MAY  25, 1990  16h 20m 28.37± 0.98s
   40.600 N ±11.4km   15.886 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                  (390)

SGO      0.44 265 P      20 37.50    0.1
                  eSg    20 42.50
MGR      0.53 209 P      20 39.00    0.0
                  eSg    20 48.50
BSS      0.84 283 P      20 44.50   -0.1
                  eSg    20 56.00
BRT      1.04  74 P      20 48.00    0.0
                  eSg    21 04.00
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
   MAY  25, 1990  16h 21m 47.67± 1.70s
   37.222 N ± 7.7km   72.954 E ± 6.6km
   DEPTH =  86.6 ± 17.1 km
   4.7mb ( 17 obs.)
 TAJIK SSR                       (715)
     Felt (III) ot Khorog.

KSH      3.26  46 Pg     22 39.00    1.3
NDI      9.24 156 iPd    23 55.00   -5.0X
       0.5s     31.69nm          5.4mb X
MAIO    10.84 269 eP     24 14.00   -7.8X
                  eS     26 13.00
WMQ     13.00  55 P      24 48.50   -1.8
     Z  17s       3.50um
                  S      27 10.00
GKN     13.46 130 P      24 47.40   -9.0X
DMN     14.03 130 P      24 55.40   -8.6X
PKI     14.25 129 P      24 57.20   -9.6X
GUN     14.30 127 P      24 57.80   -9.8X
LSA     16.92 111 P      25 33.80   -7.0X
     N  10s       4.40um
     E  10s       0.90um
POO     18.64 177 eP     26 00.00   -1.3
HYB     20.34 164 eP     26 17.00   -2.3
       1.0s     25.00nm          4.5mb
                  eS     30 08.00
TAB     21.08 280 eP     26 28.00    1.2
                  e      30 13.00
SLY     22.13 274 eP     26 39.00    2.0
                  e      30 24.00
                  eS     30 48.50
BHD     23.62 269 ePd    26 53.00    1.5
                  eS     31 13.50
MSL     23.84 277 ePd    26 52.50   -1.2
                  eS     31 13.00
GBA     23.86 169 Pc     26 52.80   -1.2
       0.6s      6.10nm          4.2mb
LZH     24.76  83 Pd     27 03.50    0.8
       3.0s     200.00nm         5.0mb
     Z  20s       2.90um          4.8Msz
     E  12s       1.70um
                  PP     27 44.00
CD2     26.21  95 eP     27 18.80    2.7
     N  11s       2.20um
KOD     27.18 170 eP     27 26.40    1.2

KMI     28.08 107 eP     27 34.50    1.3
     Z  14s       1.30um          4.7MszX
     N  10s       0.60um
BTO     28.90  72 eP     27 39.00   -1.4
     N  15s       2.30um
     E  15s       4.70um
CHTO    29.22 122 eP     27 44.00    0.7
XAN     29.30  85 eP     27 42.60   -1.4
     N  14s       1.00um
     E  13s       1.60um
HHC     30.04  71 eP     27 50.00   -0.6
     Z  18s       3.60um          5.1Msz
     N  12s       1.70um
     E  12s       0.80um
GYA     30.44 101 P      27 57.60    3.5X
     N  13s       1.70um
     E  13s       0.70um
TIY     31.18  77 eP     27 55.90   -4.7X
     Z  13s       2.20um          5.0MszX
     N  12s       0.80um
MLR     35.81 298 eP     28 44.00    3.6X
SUF     38.15 327 iP     28 59.80    0.1
       0.5s      5.00nm          4.7mb
NUR     38.17 323 eP     28 58.00   -1.9
SPC     39.48 305 e(P)   29 17.00    5.8X
                  e      32 53.70
KRA     39.64 306 eP     29 14.40    2.2
SOD     39.76 334 iP     29 12.70   -0.3
KEV     40.72 337 eP     29 22.00    1.2
IPM     41.42 135 ePd    29 28.00    0.8
KSP     41.93 308 eP     29 30.80   -0.2
PRU     43.12 306 P      29 43.60    2.9X
BRG     43.41 308 eP     29 46.30    3.2X
                  e      33 31.00
HFS     43.48 321 eP     29 42.00   -1.4
       0.5s      8.50nm          4.8mb
KHC     43.84 305 eP     29 48.50    1.9X
                  e      33 34.10
CLL     43.96 308 e(P)   29 53.00    5.5X
                  e      30 56.00
MGR     44.24 292 P      29 42.00   -7.9X
                  eSg    29 49.00
SGO     44.31 293 P      29 39.00  -11.4X
                  eSg    29 43.00
NB2     44.76 322 P      29 53.00   -0.8
       0.8s      9.00nm          4.7mb
GRF     45.29 306 e(P)   30 02.00    3.8X
BSF     48.51 305 eP     30 24.70    1.1
       0.6s      5.40nm          4.7mb
LPG     49.10 302 eP     30 32.20    3.8X
       0.7s      4.40nm          4.6mb
SMF     50.75 304 eP     30 39.60   -1.0
       0.6s      3.60nm          4.6mb
AVF     51.04 304 eP     30 41.60   -1.1
       0.6s      5.40nm          4.8mb
MAT     51.23  70 eP     30 43.00   -1.4
MAF     51.72 304 eP     30 46.10   -1.8
       0.7s      5.50nm          4.7mb
TCF     51.94 304 eP     30 49.10   -0.5
       0.9s      6.55nm          4.7mb
RJF     52.69 303 eP     30 51.60   -3.6X
       0.9s      4.90nm          4.5mb
GRR     53.32 307 eP     30 57.10   -2.6X
       0.7s      7.70nm          4.8mb
MBC     66.54   3 iPc    32 30.60    0.9
       0.6s     16.00nm          5.1mb
INK     72.93  10 eP     33 09.00    0.2
FRB     74.83 343 eP     33 20.00    0.2
WB5     81.03 123 eP     33 54.50    0.0
WRA     81.06 123 P      33 56.00    1.4
       0.6s      2.70nm          4.3mb
FFC     88.32 357 eP     34 31.00    0.5
       0.9s     13.00nm          5.0mb
     S.D. = 1.4  on  38 of  59 obs.
-------------------------------------
   MAY  25, 1990  16h 25m 31.97± 1.47s
   37.087 N ± 7.8km   73.113 E ± 7.1km
   DEPTH =  73.6 ± 14.8 km
   4.8mb (  9 obs.)
 TAJIK SSR                       (715)

KSH      3.27  43 ePn    26 22.00    0.0
NDI      9.06 156 eP     27 42.00   -0.3
MAIO    10.96 270 eP     27 56.00  -12.2X
POO     18.50 178 eP     29 30.00  -14.8X
HYB     20.17 165 eP     29 55.00   -8.0X
       1.0s     40.00nm          4.7mb

                  eS     33 35.00
GTA     21.07  75 iPd    30 12.60    0.4
       1.0s    100.00nm          5.1mb
     Z  18s       2.10um          4.6Msz
     N  11s       2.00um
GBA     23.70 169 Pc     30 38.10    0.2
       0.9s     16.20nm          4.5mb
LZH     24.65  83 Pc     30 44.00   -3.2X
       2.0s     34.00nm          4.4mb
KOD     27.02 171 eP     31 09.50    0.1
BTO     28.82  72 eP     31 21.50   -3.7X
HHC     29.97  71 eP     31 36.00    0.5
GYA     30.29 101 P      31 38.80    0.4
TIY     31.09  77 eP     31 45.40    0.1
BJI     33.56  71 eP     32 08.00    1.3
     Z  18s       3.82um          5.2Msz
     N  12s       0.97um
VRI     35.42 299 ePc    32 21.00   -1.6
NUR     38.36 323 eP     32 46.00   -1.0
                  e      42 28.00
                  e      46 12.00
SNY     38.80  67 eP     32 49.80   -1.2
KRA     39.82 306 eP     32 59.00   -0.4
       0.9s     38.00nm          5.3mb
SOD     39.94 334 eP     33 02.00    1.9
KEV     40.90 337 eP     33 16.00    8.1X
                  e      47 08.00
ZST     41.81 304 eP     33 16.60    0.9
                  e      33 35.60
                  e      34 46.60
KSP     42.11 308 eP     33 17.50   -0.7
PRU     43.30 307 eP     33 27.50   -0.3
     Z  11s       0.80um          4.9MszX
     N  11s       0.50um
     E  12s       0.60um
                  S      39 28.00
CLL     44.15 309 e(P)   33 35.00    0.4
       1.4s     16.00nm          4.7mb
NB2     44.94 323 P      33 37.50   -3.4X
       0.9s      7.10nm          4.5mb
MOX     45.09 308 e(P)   33 44.00    1.8
MAT     51.16  70 (P)    34 28.00   -1.5
MBC     66.66   3 eP     36 15.50   -0.8
       0.6s      9.00nm          4.9mb
INK     73.04  10 eP     36 54.00   -1.2
MRWA    77.25 142 eP     37 41.60   21.9X
FFC     88.46 357 eP     38 18.00    1.0
       0.8s     11.00nm          5.1mb
     S.D. = 1.1  on  23 of  31 obs.
-------------------------------------
*  MAY  25, 1990  16h 30m 55.88± 2.32s
   3.923 N ± 9.4km  126.730 E ±15.0km
   DEPTH =  48.9 ± 22.2 km
   4.7mb (  5 obs.)  4.7Msz (  2 obs.)
 TALAUD ISLANDS                  (263)

MNI      3.10 218 ePc    31 44.20    0.6
                  eS     32 24.50
TSM      8.64 272 eP     33 01.00   -0.2
KKM     10.69 282 eP     33 31.00    1.7
MTN     17.22 165 eP     34 52.00   -2.7
WB5     24.82 163 eP     36 14.80   -0.3
WRA     24.87 163 Pc     36 15.50   -0.1
       0.5s     12.60nm          4.7mb
SSE     27.53 350 eP     36 39.00   -1.0
LOE     27.93 301 eP     36 43.00   -0.8
NJ2     28.94 346 eP     36 52.00   -0.7
     Z  18s       0.70um          4.3Msz
WHN     28.94 338 eP     36 53.00    0.2
     Z  12s       1.20um          4.7MszX
     N  14s       1.93um
CHTO    30.92 301 iP     37 10.10   -0.5
       0.8s      3.66nm          4.2mb
TIA     33.33 346 eP     37 31.30    0.0
     N  12s       0.90um
XAN     34.25 333 Pd     37 37.60   -1.7
TIY     36.09 341 eP     37 54.90   -0.1
MUN     37.08 195 iPd    38 03.60    0.3
SNY     37.85 356 Pd     38 11.60    2.0
       0.8s     20.00nm          5.1mb
     Z  18s       2.10um          5.0Msz
     E  16s       1.60um
                  sP     38 18.40
                  S      43 58.00
HHC     39.22 342 eP     38 20.00   -1.3
CN2     39.73 359 eP     38 30.00    4.7X
     Z  16s       1.60um          5.0MszX
```

N 10s 0.60um
E 10s 0.60um
BRS 40.01 143 iPc 38 30.00 2.1
GBA 49.57 284 Pc 39 43.20 -1.2
0.7s 8.70nm 4.9mb
INK 89.98 21 eP 43 52.00 0.9
SOD 90.29 338 eP 43 53.00 0.5
SUF 91.38 333 eP 43 58.00 0.4
NUR 92.54 331 eP 44 03.00 0.1
NB2 98.62 334 P 44 31.80 1.0
0.9s 1.90nm 4.6mb
S.D. = 1.2 on 24 of 25 obs.

& MAY 25, 1990 16h 59m 56.44s
58.188 N 142.651 W
DEPTH = 10.0km
GULF OF ALASKA (15)
<AGS-P>.

CYK 1.90 3 eP 00 24.73 -4.5
eS 00 46.93
WAX 2.27 357 eP 00 29.44 -5.2
eS 00 55.08
PCA 2.28 32 eP 00 28.93 -5.8
HMT 2.31 340 eP 00 29.93 -5.2
RAGM 2.44 336 eP 00 31.69 -5.3
SGAM 2.66 332 eP 00 35.09 -5.1
CVA 2.85 327 eP 00 36.96 -5.8
BALM 2.86 3 iP 00 37.60 -5.5
eS 01 10.00
HIN 2.97 320 eP 00 38.98 -5.5
eS 01 10.64
9 obs. ossociated

? MAY 25, 1990 17h 08m 04.52± 2.31s
31.334 S ±45.2km 69.460 W ±24.2km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.33 179 iPd 08 22.00 0.0
S 08 34.00
RTCB 0.58 105 iPd 08 23.70 0.3
S 08 37.10
ZON 0.70 108 eP 08 24.00 -0.2
eS 08 38.00
RTLL 0.85 90 iPc 08 25.20 -0.3
eS 08 40.20
RTCV 0.95 124 ePd 08 26.20 -0.2
S 08 41.80
CFA 1.08 105 e(P) 08 28.00 0.3
S 08 44.00
S.D. = 0.3 on 6 of 6 obs.

---

* MAY 25, 1990 17h 38m 35.51± 2.27s
3.828 N ±11.1km 126.525 E ±17.3km
DEPTH = 73.9 ± 19.1 km
4.8mb (3 obs.)
TALAUD ISLANDS (263)

MNI 2.91 215 ePc 39 20.70 0.3
eS 39 58.00
MTN 17.19 165 eP 42 31.70 -0.6
WB5 24.79 162 eP 43 51.90 -0.2
WRA 24.84 162 Pd 43 52.40 -0.2
0.8s 19.30nm 4.6mb
MEKA 31.23 194 eP 44 50.20 -0.1
MRWA 34.38 196 eP 45 18.00 0.4
MUN 36.93 195 eP 45 40.00 0.8
BJI 37.24 347 eP 45 42.00 0.4
0.8s 12.00nm 4.9mb
GBA 49.39 285 Pd 47 19.20 -0.9
1.0s 10.10nm 4.8mb
QUE 61.92 302 eP 48 49.50 -0.8
SUF 91.37 333 eP 51 35.00 0.8
NUR 92.52 331 eP 51 30.00 -9.5X
S.D. = 0.7 on 11 of 12 obs.

MAY 25, 1990 18h 28m 53.36± 0.29s
15.715 N ± 4.6km 147.382 E ± 5.6km
DEPTH = 34.6km (13 depth phases)
5.0mb (18 obs.) 4.2Msz (1 obs.)
MARIANA ISLANDS REGION (215)

PJG 3.22 229 eP 29 43.30 0.4
eS 30 23.50
GUA 3.22 228 eP 29 42.90 0.0
GUMO 3.22 229 eP 29 43.80 0.9
KAKJ 21.40 344 P 33 39.90 -0.3
IIDJ 21.43 338 P 33 40.70 0.0
CHJJ 21.59 341 P 33 42.30 0.1
MAT 22.29 340 eP 33 47.00 -2.2
0.7s 32.19nm 4.9mb
MTMJ 22.47 339 P 33 50.20 -0.8
NIIJ 22.69 342 P 33 53.30 0.2
PMG 24.96 181 eP 34 15.00 -0.3
HOOJ 26.81 353 eP 34 32.70 0.5
MRRJ 27.17 350 eP 34 36.40 1.0
KUSJ 27.39 356 eP 34 37.10 -0.4
SSE 28.40 307 P 34 45.50 -1.3
ASAJ 28.60 353 eP 34 49.40 1.0
SNY 33.13 327 eP 35 25.30 -3.2X
WHN 33.62 302 eP 35 32.50 -0.4
CN2 33.64 331 Pd 35 32.20 -0.7
BJI 36.40 318 eP 35 56.00 -0.5
1.4s 35.00nm 5.1mb
QIS 36.85 192 eP 35 59.40 -1.0
WB5 37.61 200 eP 36 05.50 -1.3
WRA 37.68 200 Pc 36 06.80 -0.6
0.7s 4.90nm 4.5mb
TIY 37.81 312 eP 36 09.70 1.2
Z 15s 0.70um 4.6MszX
GYA 39.32 293 P 36 23.00 1.7
BTO 40.77 315 eP 36 33.00 0.0
CD2 42.54 299 P 36 47.80 0.2
KMI 42.71 290 Pc 36 50.00 0.7
BRS 43.17 173 eP 36 52.00 -0.6
i 37 04.00 43km
LZH 43.67 306 Pd 36 57.50 0.6
3.0s 290.00nm 5.5mb
Z 20s 0.30um 4.2Msz
CHTO 46.25 281 iP 37 18.20 0.7
0.6s 11.92nm 5.0mb
WARB 46.28 206 iPc 37 18.00 0.4
0.5s 10.00nm 5.0mb
BDT 46.32 279 eP 37 20.10 2.0
PSI 49.42 260 ePc 37 43.20 0.9
ADE 51.07 189 eP 38 04.70 10.1X
LSA 53.24 295 P 38 12.10 0.5
WMQ 57.48 312 iPd 38 41.60 0.0
Z 16s 0.35um 4.6MszX
pP 38 55.30 50kmX
sP 39 01.80
eS 46 30.00
GUN 57.86 293 P 38 44.20 -0.6
0.6s 23.00nm 5.4mb
PKI 58.29 293 P 38 46.80 -1.0
0.6s 18.00nm 5.3mb
DMN 58.55 293 P 38 48.80 -0.8
0.6s 26.00nm 5.5mb
GKN 58.96 293 P 38 51.60 -0.6
0.4s 20.00nm 5.6mb
TTA 61.19 26 P 39 05.20 -1.7
1.0s 7.50nm 4.8mb
MSZ 62.94 164 P 39 27.80 9.2X
IMA 63.36 23 P 39 20.20 -1.2
1.0s 5.00nm 4.6mb
pP 39 32.10 40km
PMR 63.77 28 P 39 23.50 -0.4
pP 39 33.60 33km
FBA 65.28 25 P 39 33.00 -0.7
0.8s 7.24nm 4.8mb
HYB 65.66 282 ePd 39 37.00 0.1
e 39 49.50 43km
KSH 65.91 307 eP 39 39.90 1.5
GBA 67.42 278 Pd 39 46.90 -1.2
0.8s 6.10nm 4.7mb
POO 69.87 284 eP 40 02.00 -1.3
INK 71.48 23 eP 40 11.00 -1.2
pP 40 23.00 40km
QUE 74.14 297 eP 40 29.00 0.2
MBC 75.63 14 eP 40 36.00 -0.2
0.6s 5.00nm 4.7mb
GMW 78.47 44 P 40 53.70 1.2
pP 41 03.30 31km
MAIO 79.20 305 eP 40 58.00 1.1
ORV 81.01 51 eP 41 07.50 1.1
e 41 17.20 31km
ARN 81.49 54 P 41 10.00 1.1
NEW 82.03 42 P 41 13.00 1.5
pP 41 22.30 29km
CMB 82.21 53 eP 41 14.70 2.0
e 41 24.00 29km
FRI 82.99 54 eP 41 17.30 0.7
e 41 27.60 33km
KVN 83.70 51 P 41 20.00 -0.5
pP 41 31.40 37km
TNP 84.62 52 P 41 25.80 0.6
1.0s 4.42nm 4.6mb
pP 41 36.00 32km
KEV 85.25 342 iP 41 28.60 1.2
SOD 86.70 341 iP 41 34.40 -0.2
DAU 88.34 48 P 41 45.00 1.5
pP 41 54.40 29km
SUF 89.50 337 eP 41 47.00 -1.1
NUR 91.36 335 eP 41 48.00 -8.8X
0.6s 7.80nm 5.3mb
NB2 95.91 340 P 42 16.30 -1.5
0.9s 3.60nm 4.8mb
AVE 125.64 334 iPdiff 44 34.00 3.1X
KIC 144.74 306 PKPd 48 27.94 -1.3
0.6s 14.50nm
LIC 145.05 307 PKP 48 28.94 -0.8
0.6s 29.00nm
SIV 152.63 95 PKP 48 48.00 6.5X
S.D. = 1.0 on 65 of 71 obs.

% MAY 25, 1990 18h 35m 28.44± 1.48s
23.000 N ±11.2km 120.750 E ±10.9km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWG 0.35 121 iPd 35 35.50 -0.1
eS 35 40.40
TWK 0.36 318 iPd 35 35.80 0.0
eS 35 40.70
TWQ 1.27 4 iPd 35 51.90 -0.2
TWD 1.33 36 eP 35 52.40 -0.5
TWC 1.89 32 ePd 36 01.80 0.8
S.D. = 0.7 on 5 of 5 obs.

MAY 25, 1990 18h 37m 24.64± 0.38s
0.536 S ± 6.5km 19.757 W ± 6.5km
DEPTH = 10.0km (geophysicist)
4.6mb (17 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

MBO 15.09 10 eP 40 59.30 -0.3
eS 43 29.30
LIC 16.16 65 P 41 13.68 0.1
KIC 16.48 65 P 41 17.76 0.1
ITR 20.31 246 eP 42 02.60 -1.1
e 42 23.20
WEGH 20.34 72 eP 42 05.00 1.0
KUK 20.47 71 eP 42 03.50 -1.9
LEGH 20.49 72 eP 42 09.00 3.4X
TEGH 20.66 72 eP 42 06.00 -1.3
SHGH 20.70 72 eP 42 07.00 -0.8
BCAO 38.58 82 iPc 44 52.60 2.8
0.5s 5.00nm 4.5mb
ATEJ 40.02 20 iPc 45 02.50 0.8
ALOJ 40.17 20 iPc 45 03.00 0.1
APHE 40.17 20 eP 45 03.20 0.3
AAPN 40.34 19 eP 45 04.60 0.3
ASMO 40.51 20 eP 45 05.50 -0.2
TOL 42.71 18 eP 45 24.50 0.9
SIV 43.54 247 P 45 30.50 -0.1
EPF 46.98 20 eP 45 58.50 0.7
0.8s 6.70nm 4.8mb
LPO 48.72 20 eP 46 11.70 0.4
0.7s 4.40nm 4.6mb
LFF 48.80 19 eP 46 12.30 0.4
0.7s 6.60nm 4.8mb
CAF 49.24 20 eP 46 15.30 0.0
0.8s 5.35nm 4.6mb
ZOBO 50.16 249 P 46 22.50 -1.0
e 48 32.00
LPB 50.20 249 eP 46 28.00 4.4X
e 48 41.00
SBF 50.44 25 eP 46 24.50 0.0
BUL 51.15 116 iPd 46 19.30 -11.1X
AVF 51.30 20 eP 46 31.50 0.5
GRR 51.41 16 eP 46 32.50 0.7
LPL 51.49 24 eP 46 33.20 0.5
0.7s 4.40nm 4.5mb
SSF 51.59 20 eP 46 33.30 0.1
0.7s 4.40nm 4.5mb
LBF 51.69 21 eP 46 34.00 0.0
0.7s 3.85nm 4.4mb
LOR 51.89 20 eP 46 35.40 -0.1
0.7s 4.40nm 4.5mb
PRY 52.38 124 eP 46 39.50 -0.2

25d 18h

SLR	52.62	122	iPd	46	40.50	-1.0
	1.0s	25.00nm				5.1mb
SEK	53.04	126	iPc	46	44.00	-0.6
HAU	53.41	22	eP	46	46.50	-0.3
	0.7s	8.80nm				4.8mb
BSF	53.43	22	eP	46	46.40	-0.6
	0.7s	2.20nm				4.2mb
CDF	54.09	22	eP	46	51.30	-0.6
	0.7s	3.30nm				4.5mb
DOU	54.58	19	P	46	54.90	-0.4
KHC	57.20	25	P	47	13.50	-0.8
ZST	58.10	28	iP	47	19.60	-1.0
PRU	58.26	25	eP	47	21.00	-0.6
HFS	65.83	18	eP	48	10.40	-1.7
	0.6s	2.30nm				4.5mb
	Z 17s	0.08um				4.0MszX
		LR		14	20.00	
NB2	65.85	16	P	48	11.10	-1.2
	0.9s	3.40nm				4.5mb
SUF	71.80	20	eP	48	49.00	-0.1
	0.8s	6.00nm				4.7mb
KEV	76.72	15	eP	49	18.00	0.6
MAIO	81.65	53	eP	49	45.00	0.1
SPA	89.47	180	iPd	50	24.90	1.8
	1.0s	15.00nm				5.2mb
MBC	92.81	346	eP	50	40.00	1.8
WRA	147.47	130	PKPd	57	10.90	2.1
	0.7s	3.00nm				
WB5	147.52	130	ePKP	57	13.90	5.0X
GUMO	160.00	49	ePKP	57	18.70	-7.4X
	S.D. = 1.0	on	46 of	51	obs.	

? MAY 25, 1990 18h 48m 38.69± 1.24s
23.039 N ±10.2km 120.786 E ±10.4km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWG	0.34	130	iPd	48	45.80	0.1
			eS	48	50.50	
TWK	0.36	310	iPd	48	45.90	-0.1
			eS	48	51.70	
TWO	1.23	2	ePc	49	02.00	0.4
TWD	1.27	35	ePc	49	02.00	-0.3
	S.D. = 0.5	on	4 of	4	obs.	

---

* MAY 25, 1990 19h 45m 04.14± 0.62s
36.608 N ±10.0km 69.161 E ± 9.9km
DEPTH = 33.0km (normol)
4.4mb (4 obs.)
HINDU KUSH REGION (718)

QUE	6.66	197	eP	46	42.00	-0.5
			e(S)	48	27.60	
MAIO	7.80	271	ePn	46	53.00	-5.2X
			eSn	48	12.00	
NDI	10.41	137	eP	47	38.00	3.7X
	0.6s	14.67nm				5.4mb
GKN	15.63	119	P	48	43.20	-0.6
DMN	16.20	119	P	48	51.10	0.0
PKI	16.44	119	P	48	53.80	-0.4
GUN	16.57	117	P	48	56.00	0.1
HY8	20.84	154	eP	49	47.00	1.4
			eS	53	34.00	
GBA	24.08	160	P	50	21.00	3.5X
	0.6s	1.90nm				3.8mb
NUR	36.88	325	eP	52	21.00	10.0X
SOD	39.02	335	eP	52	30.00	1.1
HFS	42.07	322	eP	52	53.40	-0.7
	0.7s	5.00nm				4.4mb
	Z 17s	0.05um				3.5MszX
		LR		10	05.00	
NB2	43.40	323	P	53	04.50	-0.5
	0.6s	4.90nm				4.4mb
	S.D. = 0.9	on	9 of	13	obs.	

? MAY 25, 1990 19h 57m 06.48± 6.83s
31.351 S ±33.5km 68.651 W ±16.7km
DEPTH = 75.4 ± 55.6 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.16	82	iPc	57	18.00	0.0
RTCB	0.19	223	iPd	57	18.40	0.2
			eS	57	30.10	
ZON	0.20	187	eP	57	18.00	-0.2
			eS	57	30.00	
CFA	0.43	126	iPd	57	19.50	0.0
RTCV	0.52	169	iPc	57	20.20	0.0
			(S)	57	31.70	
RTBS	0.75	245	eP	57	22.50	0.0
			S	57	36.90	
	S.D. = 0.2	on	6 of	6	obs.	

---

* MAY 25, 1990 21h 04m 47.52± 0.69s
15.664 N ± 6.9km 147.625 E ±12.0km
DEPTH = 33.0km (normol)
4.8mb (10 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.37	232	eP	05	38.80	-0.4
			eS	06	17.20	
GUMO	3.38	233	eP	05	40.10	0.9
PJG	3.38	233	eP	05	39.90	0.7
			eS	06	16.40	
KAKJ	21.51	343	P	09	36.00	0.3
IIDJ	21.56	338	P	09	35.90	-0.4
CHJJ	21.71	341	P	09	38.20	0.4
MAT	22.42	340	(P)	09	44.00	-0.8
	0.8s	14.18nm				4.5mb
MTMJ	22.60	339	P	09	45.30	-1.3
NIIJ	22.81	342	P	09	48.50	-0.1
CN2	33.80	331	eP	11	26.80	-1.8
WB5	37.65	201	eP	11	58.70	-2.8
WRA	37.72	201	Pd	12	01.70	-0.3
	0.9s	6.80nm				4.5mb
TIY	38.02	312	eP	12	05.50	1.0
GYA	39.55	293	iPc	12	19.00	1.4
BTO	40.97	315	eP	12	29.20	0.2
CD2	42.77	299	P	12	44.00	0.2
LZH	43.89	306	Pd	12	51.50	-1.5
	2.0s	46.00nm				4.9mb
CHTO	46.49	281	iP	13	14.10	0.3
	0.8s	8.24nm				4.7mb
GTA	47.87	309	iPc	13	25.00	0.5
LSA	53.47	295	P	14	08.40	0.8
WMO	57.69	312	P	14	37.50	0.1
			sP	14	49.30	
GUN	58.10	293	P	14	40.80	0.0
	0.6s	10.00nm				5.1mb
PKI	58.52	293	P	14	43.20	-0.6
	0.6s	5.00nm				4.8mb
DMN	58.79	293	P	14	45.00	-0.6
	0.6s	9.00nm				5.1mb
GKN	59.19	293	P	14	48.00	-0.2
	0.6s	12.00nm				5.2mb
MBC	75.62	14	ePc	16	32.20	1.7
	0.8s	3.00nm				4.3mb
MAIO	79.42	305	eP	16	54.00	1.6
NB2	96.04	340	P	18	12.10	-0.7
	0.7s	1.60nm				4.6mb
KIC	144.96	307	PKP	24	23.60	-0.4
	0.8s	18.00nm				
TIC	144.99	307	PKP	24	23.80	-0.2
LIC	145.26	307	PKP	24	24.50	0.0
	0.8s	23.00nm				
ZOBO	145.65	96	PKP	24	28.00	2.2
	S.D. = 1.1	on	32 of	32	obs.	

? MAY 25, 1990 21h 05m 44.19± 0.81s
27.374 N ±10.5km 142.890 E ±29.9km
DEPTH = 33.0km (normol)
3.9mb (2 obs.)
BONIN ISLANDS REGION (212)

GUMO	13.84	172	eP	09	00.20	-0.1
PJG	13.84	172	eP	09	00.20	-0.1
GUA	13.89	172	eP	09	00.90	-0.2
WB5	47.69	191	eP	14	20.00	0.3
WRA	47.76	191	P	14	21.00	0.8
	0.4s	0.50nm				3.9mb
INK	62.52	25	eP	16	06.00	-0.5
			pP	16	18.00	41kmX
QUE	65.43	293	eP	16	25.40	-0.9
SOD	74.37	339	iP	17	30.30	10.3X
SUF	77.20	335	eP	17	42.00	5.9X
HFS	83.42	337	ePKP	18	11.40	2.1
	0.6s	0.60nm				3.9mb
BCAO	117.73	292	ePKPd	24	28.00	-1.5
	1.0s	15.00nm				
			id	25	18.50	
	S.D. = 1.2	on	9 of	11	obs.	

& MAY 25, 1990 21h 23m 08.84s
61.243 N 151.694 W
DEPTH = 78.0km

SOUTHERN ALASKA (2)
<AGS-P>. Felt (III) at Anchorage, Skwentna and Susitna Landing.

SPU	0.18	251	iP	23	20.14	1.2
CRP	0.22	276	iP	23	20.52	-0.4
NCG	0.28	306	eP	23	20.63	-0.4
SUA	0.51	64	iP	23	22.55	-0.3
			eS	23	33.80	
NKA	0.55	156	eP	23	24.43	1.5
SKT	0.74	6	iP	23	24.07	-1.0
			eS	23	36.38	
RDT	0.76	208	iP	23	24.52	-0.7
			eS	23	38.31	
PWA	0.96	64	iPc	23	27.30	-0.3
RED	0.98	213	iP	23	27.04	-0.9
SLKM	1.03	135	eP	23	27.60	-0.9
PMS	1.03	89	iPc	23	28.10	-0.4
NNL	1.22	171	iP	23	31.14	0.3
PLRM	1.28	73	iP	23	30.20	-1.4
			eS	23	47.45	
PMR	1.28	73	iPc	23	30.10	-1.5
			iS	23	47.70	
CUT	1.35	29	eP	23	31.63	-0.8
			eS	23	49.33	
GHO	1.43	67	iP	23	32.17	-1.5
			eS	23	51.03	
BRLK	1.54	165	eP	23	33.94	-1.1
SEW	1.59	135	eP	23	33.72	-1.9
SML	1.71	69	iP	23	35.39	-1.9
CNPM	1.74	172	iP	23	36.38	-1.3
XLV	1.79	180	eP	23	36.83	-1.6
SVW	1.91	268	iP	23	38.30	-1.7
PDB	1.91	221	eP	23	38.49	-1.5
			eS	24	02.43	
HUR	1.99	28	eP	23	39.84	-1.3
			eS	24	05.05	
AUL	2.06	206	eP	23	41.18	-0.9
AUE	2.07	205	eP	23	41.05	-1.1
GLI	2.27	97	iP	23	41.64	-3.3
			eS	24	08.92	
KTH	2.35	8	eP	23	44.18	-1.9
MTU	2.36	121	eP	23	43.75	-2.4
NCA	2.45	70	iP	23	45.34	-2.1
MCNL	2.45	214	eP	23	46.00	-1.4
			eS	24	15.16	
VZW	2.50	92	iP	23	45.25	-2.9
CDD	2.52	204	eP	23	46.90	-1.5
RND	2.54	30	eP	23	47.00	-1.8
VLZ	2.60	90	iP	23	46.60	-2.8
TTA	2.64	312	iPd	23	48.00	-2.2
TOA	2.77	69	iPc	23	50.30	-1.6
KLU	2.79	82	iP	23	49.24	-3.0
			eS	24	21.93	
MCK	2.81	26	eP	23	50.68	-1.7
MID	3.23	122	eP	23	56.70	-1.4
PAX	3.40	57	eP	23	58.58	-2.1
RAGM	3.54	101	eP	24	00.88	-1.8
NEA	3.55	19	eP	23	59.31	-3.4
WRH	3.64	25	eP	24	00.79	-3.1
DDM	3.72	44	eP	24	04.70	-0.4
HDA	3.85	32	eP	24	04.01	-2.8
CCB	3.85	26	eP	24	03.42	-3.4
FBA	4.08	24	eP	24	07.30	-2.8
DOT	4.29	52	eP	24	10.43	-2.7
TGL	4.34	93	eP	24	09.66	-4.3
WAX	4.40	97	eP	24	10.36	-4.3
BALM	4.54	89	eP	24	12.58	-4.1
IMA	4.92	351	ePd	24	18.30	-3.7
FYU	6.05	25	eP	24	34.53	-3.0
HYT	6.91	87	P	24	46.20	-3.3
SDN	7.51	222	e(P)	24	56.50	-1.2
INK	10.46	40	P	25	36.00	-1.9
	57 obs. associated					

% MAY 25, 1990 21h 45m 39.27± 0.86s
1.167 S ± 5.5km 78.366 W ±18.4km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

TUNG	0.26	198	iP	45	44.90	0.0
			S	45	47.50	
VC1	0.53	356	iP+	45	50.00	-0.1
			S	45	56.70	
GECU	0.86	12	eP	45	56.10	-0.2
			iS	46	08.00	

OTO	0.97	350	eP	45 57.90	-0.1
			eS	46 21.00	
OUR	1.00	351	Pd	45 58.60	0.1
			eS	46 12.30	
GGP	1.01	347	iP+	45 58.80	0.0
			eS	46 21.50	
CAYA	1.30	17	eP	46 03.60	0.0
			eS	46 21.80	
COTA	1.49	1	eP	46 07.00	0.4
S.D. = 0.2		on	8 of	8 obs.	

* MAY 25, 1990 22h 09m 11.83± 1.32s
50.448 N ±17.4km 18.908 E ± 7.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.4 (KRA).

RAC	0.59	232	ePg	09 24.00	0.3
			iSg	09 31.50	
KRA	0.77	120	iPgc	09 26.50	-0.3
			iSg	09 36.50	
SPC	1.53	145	ePn	09 39.80	0.4
			e(Sg)	10 00.70	
KSP	1.71	284	ePn	09 42.50	0.7
			iPg	09 44.80	
			iS	10 07.50	
ZST	2.54	208	eP	09 35.70	-18.1X
			e	10 04.90	
			i(Sn)	10 24.00	
			e	10 30.20	
PSZ	2.61	165	eP	10 02.80	7.9X
SRO	2.67	189	eP	10 04.60	9.0X
1.0s		0.28nm			
			e(Sn)	10 42.70	
PRU	2.84	262	Pn	09 57.40	-0.7
			e	10 02.50	
BRG	3.19	280	ePg	10 11.00	8.1X
			iSg	10 53.00	
KHC	3.70	251	ePg	10 09.80	-0.4
			Sg	11 06.20	
CLL	3.84	285	ePg	10 26.00	13.8X
			eSg	11 18.00	
S.D. = 0.7		on	6 of	11 obs.	

MAY 25, 1990 22h 22m 49.82± 0.69s
36.856 N ± 7.5km 28.585 E ± 7.4km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
DODECANESE ISLANDS (369)

YER	0.37	319	iPn	22 56.50	-0.9
CIN	0.84	332	ePg	23 06.00	-0.1
			iSg	23 16.00	
ELL	1.07	95	iPn	23 10.20	0.2
KSL	1.09	132	ePn	23 11.50	1.2
SMG	1.63	302	ePn	23 20.20	1.5
BCK	1.71	69	iPn	23 21.60	1.7
IZM	1.86	326	iPn	23 22.20	0.1
ALT	2.50	28	ePn	23 31.30	0.0
EZN	3.46	330	ePn	23 45.00	0.3
EDC	3.53	351	ePn	23 46.70	0.9
PPCY	3.63	122	eP	23 48.50	1.2
GPA	3.68	21	ePn	23 48.00	-0.1
KGT	3.73	345	iPn	23 48.50	-0.1
YLV	3.76	9	ePn	23 47.00	-2.1
VAM	3.83	249	ePn	23 55.30	5.2X
CSS	4.29	115	eP	23 57.50	0.8
LFK	4.31	110	ePn	23 57.20	0.3
BBTK	4.43	46	iPd	23 59.00	0.3
VLI	4.54	270	ePn	24 06.00	5.9X
RDO	4.90	332	ePn	24 08.00	2.8X
VAY	6.46	315	eP	24 33.60	6.3X
HRI	6.87	119	eP	24 31.00	-2.2
DSI	7.71	131	eP	24 43.00	-1.8
MBH	8.81	142	eP	25 18.00	17.9X
GBA	49.25	105	Pc	31 39.10	-1.5
0.7s		2.60nm		4.4mb	
MBC	65.34	352	eP	33 34.00	0.2
0.7s		1.00nm		4.1mb	
S.D. = 1.2		on	21 of	26 obs.	

? MAY 25, 1990 22h 25m 01.09± 6.63s
36.667 N ±41.3km 28.256 E ±39.0km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.47	3	iPg	25 10.50	-0.1
			iSg	25 14.50	
CIN	0.94	352	ePg	25 19.00	0.0
			iSg	25 30.00	
ELL	1.33	86	ePn	25 25.70	0.0
BCK	2.03	66	ePn	25 35.70	-0.1
ALT	2.80	31	ePn	25 47.00	0.2
S.D. = 0.2		on	5 of	5 obs.	

* MAY 25, 1990 22h 29m 28.87± 0.79s
27.854 N ± 8.3km 142.876 E ±14.3km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)
BONIN ISLANDS REGION (212)

KAKJ	8.64	345	P	31 33.00	-1.5
IIDJ	8.70	332	P	31 37.30	1.9
CHJJ	8.81	339	P	31 36.20	-0.7
MAT	9.52	337	iPd	31 46.20	-0.5
1.3s		34.62nm		5.4mb X	
			eS	33 30.00	
NIIJ	9.91	342	P	31 50.30	-1.8
KMI	35.92	275	eP	36 27.50	-1.0
CHTO	41.15	267	eP	37 11.00	-0.9
1.0s		3.00nm		4.0mb	
WB5	48.16	191	eP	38 06.90	-1.1
			eS	38 10.00	
WRA	48.23	191	Pd	38 07.50	-1.0
0.6s		4.90nm		4.7mb	
GUN	49.97	284	P	38 23.60	1.2
PKI	50.46	284	P	38 26.80	0.7
DMN	50.71	284	P	38 29.20	1.3
GKN	51.01	285	P	38 31.00	0.9
MBC	65.00	15	eP	40 08.50	1.1
1.0s		1.00nm		3.9mb	
LRM	79.90	43	eP	41 36.70	0.5
FFC	80.78	32	eP	41 41.00	0.7
0.8s		7.00nm		4.7mb	
ZOBO	149.13	75	PKP	49 18.00	5.6X
S.D. = 1.2		on	16 of	17 obs.	

* MAY 25, 1990 22h 35m 25.61± 0.88s
36.965 N ±13.4km 71.393 E ±10.4km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.71	210	eP	37 19.10	0.6
			eS	38 39.50	
MAIO	9.59	270	eP	37 43.00	-1.5
			eS	39 22.00	
NDI	9.60	148	eP	37 46.50	2.0
GKN	14.30	125	P	38 55.20	7.4X
DMN	14.87	125	P	38 55.20	-0.2
PKI	15.09	124	P	38 56.90	-1.5
GUN	15.19	122	P	38 58.70	-0.9
HFS	42.90	322	eP	43 26.20	3.9X
0.4s		1.20nm		4.0mb	
NB2	44.20	323	P	43 33.40	0.5
0.6s		1.20nm		3.9mb	
MBC	66.86	3	eP	46 17.00	1.2
0.7s		1.00nm		4.0mb	
S.D. = 1.5		on	8 of	10 obs.	

? MAY 25, 1990 22h 56m 50.59±14.37s
36.630 N ±52.6km 28.047 E ±107.km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.54	21	iPg	57 01.50	0.0
			iSg	57 08.50	
ELL	1.50	85	iPn	57 17.70	0.0
IZM	1.87	341	ePn	57 32.20	9.2X
BCK	2.20	67	ePn	57 27.70	0.0
ALT	2.92	33	ePn	57 38.00	0.0
S.D. = 0.0		on	4 of	5 obs.	

MAY 25, 1990 23h 04m 00.77± 0.47s
40.587 N ± 5.3km 28.754 E ± 3.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KCT	0.45	222	iPg	04 10.00	0.0
YLV	0.47	92	iPg	04 09.50	-0.9
ISK	0.53	26	iPg	04 11.00	-0.5
			eSg	04 18.00	
GBZT	0.56	69	iPg	04 13.90	1.7
			iSg	04 22.80	
CTT	0.61	336	ePg	04 12.70	-0.4
EDC	0.72	251	iPg	04 14.70	-0.3
			eSg	04 26.70	
HRT	0.73	71	iPg	04 14.00	-1.2
KGT	1.11	263	iPn	04 22.00	0.3
GPA	1.22	104	ePn	04 24.00	0.4
DMK	1.44	329	iPn	04 27.70	0.8
ALT	1.85	145	iPn	04 33.10	0.2
EZN	2.01	249	iPn	04 34.80	-0.3
S.D. = 0.9		on	12 of	12 obs.	

? MAY 25, 1990 23h 48m 23.08± 3.52s
36.872 N ±32.7km 28.508 E ±20.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.32	326	iPg	48 29.50	-0.2
			iSg	48 35.50	
CIN	0.80	335	ePg	48 39.00	0.4
			iSg	48 51.00	
ELL	1.13	96	iPn	48 43.70	-0.6
BCK	1.76	70	iPn	48 55.20	1.3
IZM	1.82	327	ePn	48 59.20	4.5X
ALT	2.52	30	ePn	49 04.00	-0.8
S.D. = 1.2		on	5 of	6 obs.	

? MAY 26, 1990 00h 03m 29.66± 3.11s
7.603 S ±22.0km 128.456 E ±14.8km
DEPTH = 174.9 ± 37.7 km
3.5mb (1 obs.)
BANDA SEA (280)

MTN	5.84	153	eP	04 55.50	0.2
			eS	05 55.00	
KNA	8.10	178	eP	05 25.00	-0.3
			eS	06 49.00	
WB5	13.48	155	eP	06 35.00	-0.2
			eS	08 57.00	
WRA	13.53	156	Pd	06 35.30	-0.5
0.3s		0.60nm		3.5mb	
MBL	15.85	211	eP	07 05.00	0.4
			eS	09 49.00	
QIS	16.80	141	eP	07 16.90	0.6
WARB	18.56	185	eP	07 40.00	4.2X
GUN	54.21	312	P	12 40.00	0.0
GKN	55.17	312	P	12 46.60	-0.1
S.D. = 0.5		on	8 of	9 obs.	

& MAY 26, 1990 00h 27m 07.84s
37.278 N 113.351 W
DEPTH = 0.9km
UTAH (478)
<SLC-P>. CL 2.8 (SLC). Felt ot Hurricone and La Verkin.

MSU	1.55	37	eP	27 36.50	-0.3
1 obs. associoted					

MAY 26, 1990 00h 51m 42.10± 1.15s
27.624 N ± 7.2km 139.713 E ± 5.5km
DEPTH = 491.5 ± 12.9 km
4.3mb (13 obs.)
BONIN ISLANDS REGION (212)

MAT	8.98	352	eP	53 50.00	0.1
0.8s		33.58nm		4.7mb	
			eS	55 29.00	
SSE	16.52	287	P	55 07.00	-1.0
NJ2	18.62	289	Pd	55 29.00	0.5
QZH	19.13	267	eP	55 34.00	0.6
SNY	19.36	321	iPd	55 35.40	-0.2
1.0s		20.00nm		4.7mb	
CN2	19.82	328	iPc	55 41.80	1.8
WHN	22.34	284	eP	56 04.00	0.5
BJI	23.07	309	eP	56 08.50	-1.5
TIY	24.99	301	Pd	56 26.90	-0.6
XAN	27.14	291	Pd	56 46.10	-0.3
GYA	29.41	275	P	57 07.00	0.5
CD2	31.45	285	iPc	57 24.00	0.2
0.5s		80.00nm		5.5mb X	
GTA	35.02	300	Pd	57 53.80	0.0
CHG	38.34	266	ePd	58 22.00	0.8
1.1s		18.35nm		4.5mb	
WMQ	44.48	305	eP	59 10.20	0.0
PSI	46.16	245	ePc	59 23.50	0.1
GUN	47.30	284	Pd	59 33.00	0.6
WB5	47.51	187	iPd	59 32.70	-0.7

26d 00h

```
WRA     47.57 187 Pc     59 33.30  -0.6
        0.3s      1.70nm          4.0mb
PKI     47.78 283 Pd     59 36.00   0.0
DMN     48.04 283 Pd     59 38.10   0.2
GKN     48.35 284 Pd     59 40.30   0.2
SVW     54.02  33 eP     00 20.90  -0.1
IMA     55.61  27 eP     00 31.90  -0.3
        0.8s      4.30nm          3.8mb
PMR     57.17  33 eP     00 41.20  -1.7
        0.8s      8.60nm          4.1mb
FBA     57.93  29 eP     00 47.00  -1.0
GBA     59.39 270 Pd     00 57.70  -0.9
        0.6s      6.80nm          4.3mb
MBC     65.95  15 eP     01 39.00  -1.0
MAIO    66.82 300 eP     01 47.00   0.9
KEV     71.75 340 eP     02 16.00   1.2
SOD     73.10 338 iP     02 22.20  -0.4
GMW     74.88  44 P      02 33.70   0.7
BMW     75.05  45 P      02 34.60   0.6
RMW     75.52  44 P      02 37.20   0.5
SUF     75.77 334 iP     02 37.30  -0.2
        0.5s      9.40nm          4.6mb
PNT     76.04  42 eP     02 39.00  -0.4
NUR     77.59 333 eP     02 47.00  -0.5
NEW     77.99  42 P      02 50.00   0.0
WDC     78.01  50 eP     02 50.50   0.3
ORV     79.18  51 eP     02 56.20  -0.2
CMB     80.65  52 eP     03 04.30   0.2
PRS     80.74  54 eP     03 05.00   0.4
FRI     81.61  53 eP     03 09.10   0.1
KVN     81.75  50 P      03 10.50   0.5
LRM     81.97  42 eP     03 10.80  -0.2
HFS     82.06 336 eP     03 09.50  -1.3
        0.4s      1.90nm          4.0mb
NB2     82.29 337 P      03 10.80  -1.3
        0.7s      4.60nm          4.1mb
FFC     82.44  31 eP     03 13.00   0.2
        1.1s     10.00nm          4.3mb
TNP     82.82  51 P      03 15.90   0.5
        1.0s      9.58nm          4.3mb
BW06    85.36  44 P      03 28.00   0.1
RSSD    87.86  40 P      03 40.80   1.0
ANMO    91.81  49 P      03 59.50   1.4
ALQ     91.81  49 eP     03 58.00  -0.1
        1.0s      5.50nm          4.5mb
     S.D. = 0.7  on  53 of  53 obs.
-------------------------------------
*  MAY  26, 1990  01h 19m 46.38± 1.05s
   36.906 N ±13.2km   28.601 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS              (369)

YER     0.34 312 iPg     19 51.50  -2.0
                 iSg     19 58.50
ELL     1.06  98 ePn     20 05.70  -0.8
KSL     1.12 134 ePb     20 07.20  -0.1
SMG     1.62 300 ePn     20 16.20   1.2
BCK     1.68  70 iPn     20 16.80   0.8
IZM     1.83 325 ePn     20 19.20   1.1
ALT     2.45  29 ePn     20 27.00  -0.2
VAM     3.86 249 ePn     20 51.70   4.6X
     S.D. = 1.4  on   7 of   8 obs.
-------------------------------------
   MAY  26, 1990  02h 30m 54.93± 0.53s
   16.754 N ± 4.9km   61.525 W ± 7.1km
   DEPTH =  24.6 ±  3.8 km
 LEEWARD ISLANDS                 ( 92)
     ML 3.6 (FDF).

SEG     0.35 177 iPc     31 02.67   0.0
                 S       31 06.90
BPA     0.43 313 iPc     31 04.12   0.1
                 S       31 10.00
SFG     0.59 148 iPc     31 06.36  -0.2
                 S       31 14.50
MGH     0.66 267 iPd     31 07.32  -0.5
PAG     0.74 192 iPc     31 08.20  -0.9
                 S       31 17.50
MGG     0.85 166 ePc     31 10.46  -0.6
CPB     0.93 342 iP      31 11.77  -0.4
                 eS      31 26.94
NEV     1.07 291 iPc     31 13.86  -0.5
                 S       31 28.10
BBL     1.22 178 ePc     31 15.73  -0.8
                 S       31 30.30
SKI     1.30 297 iP      31 17.34  -0.2
                 eS      31 35.98

DBCT    1.48 174 eP      31 20.35   0.0
                 eS      31 40.89
DPMT    1.49 175 eP      31 20.39   0.0
                 eS      31 40.79
FDF     2.04 170 eP      31 28.31  -0.1
                 S       31 58.30
CRM     2.07 163 eP      31 27.48  -1.3
BIM     2.27 169 eP      31 30.54  -1.0
                 S       31 56.60
MVM     2.27 164 eP      31 30.34  -1.3
SLW     2.78 168 eP      31 37.74  -1.1
SLB     2.95 171 eP      31 41.04  -0.2
                 eS      32 19.22
SVV     3.43 175 eP      31 47.96  -0.1
SVB     3.47 176 eP      31 48.52  -0.2
                 eS      32 30.97
     S.D. = 0.5  on  20 of  20 obs.
-------------------------------------
   MAY  26, 1990  02h 56m 29.26± 0.27s
   63.057 N ± 6.7km   24.734 W ± 4.3km
   DEPTH =  10.0km  (geophysicist)
   4.6mb ( 28 obs.)  3.9Msz (  2 obs.)
 ICELAND REGION                  (637)

AKU     3.91  45 iP      57 28.80  -1.7
        1.0s    328.00nm
                 iS      58 28.40
NB2     16.83  81 P      00 27.00   0.8
        1.2s      5.70nm          3.6mb
FRB     19.35 292 eP      00 56.00  -1.2
DOU     20.48 116 P       01 11.90   2.5
                 e       16 38.00
ENN     20.52 113 eP      01 09.00  -0.9
        1.0s     28.00nm          4.6mb
                 e       01 15.00
MEM     20.68 113 P       01 09.80  -1.6
KEV     21.14  49 eP      01 18.00   2.0
SOD     21.42  56 eP      01 17.00  -1.9
MFF     21.51 129 eP      01 18.80  -1.1
        0.7s     15.45nm          4.5mb
TNS     22.00 110 ePc     01 26.10   1.1
LSF     22.41 126 eP      01 28.40  -0.6
        1.2s     31.25nm          4.7mb
LOR     22.44 121 eP      01 28.40  -0.9
        1.2s     41.65nm          4.8mb
SSF     22.48 122 eP      01 28.60  -1.0
        1.2s     25.30nm          4.6mb
TCF     22.63 125 eP      01 30.50  -0.7
        1.2s     23.80nm          4.6mb
AVF     22.64 123 eP      01 30.20  -1.1
        1.2s     31.25nm          4.7mb
BGF     22.64 124 eP      01 31.00  -0.3
        1.0s     36.00nm          4.8mb
SUF     22.71  68 eP      01 33.00   1.2
L8F     22.72 122 eP      01 31.30  -0.8
        1.2s     26.80nm          4.6mb
MAF     22.82 125 eP      01 33.00  -0.1
        1.0s     16.00nm          4.5mb
HAU     22.84 117 eP      01 33.50   0.3
        0.8s     18.80nm          4.7mb
CDF     22.90 115 eP      01 34.00   0.1
        1.2s     20.85nm          4.5mb
SMF     22.95 122 eP      01 33.40  -0.9
        1.2s     34.20nm          4.7mb
NUR     23.03  74 eP      01 35.00   0.1
MOX     23.06 106 eP      01 36.00   0.6
BSF     23.16 116 eP      01 36.40  -0.1
        1.2s     26.80nm          4.7mb
CLL     23.20 103 iP      01 36.80   0.1
        1.6s     24.00nm          4.5mb
RJF     23.21 128 eP      01 37.60   0.7
        1.2s     26.80nm          4.7mb
LFF     23.25 129 eP      01 37.70   0.4
        1.2s     23.80nm          4.6mb
GRF     23.59 108 eP      01 41.60   1.1
     Z  21s      0.20um          3.6Msz
LPO     23.63 129 eP      01 41.60   0.6
        1.2s     20.85nm          4.6mb
CAF     23.74 127 eP      01 42.20   0.2
        1.2s     11.90nm          4.3mb
BRG     23.93 103 eP      01 50.80   7.0X
PRU     24.83 103 P       01 52.00  -0.5
     Z  17s      0.90um          4.3MszX
     N  16s      0.60um
     E  17s      0.80um
                 e       01 57.50
KSP     25.00 100 iPc     01 54.00  -0.1

                 e       11 16.50
LPG     25.04 120 eP      01 56.40   1.5
        1.0s     11.00nm          4.5mb
KHC     25.04 106 P       01 55.00   0.4
        1.2s     10.50nm          4.4mb
     Z  20s      0.80um          4.2Msz
     N  16s      0.50um
     E  18s      0.50um
8HG     25.80 109 iPc     02 02.00   0.3
KRA     27.20  98 eP      02 17.90   3.4X
FFC     38.42 294 eP      03 52.00  -0.1
        1.1s     13.00nm          4.6mb
SES     45.35 296 eP      04 49.00   0.1
FBA     45.64 330 P       04 51.10   0.2
        0.8s      8.62nm          4.8mb
IMA     45.90 334 P       04 53.80   0.7
        0.8s      3.02nm          4.3mb
LRM     49.53 293 eP      05 22.20   0.3
PNT     49.63 301 eP      05 23.00   0.7
PRNI    49.76 102 e(P)    05 23.00  -0.5
BW06    50.75 289 P       05 30.30  -0.9
        0.8s      3.35nm          4.3mb
GOL     51.42 283 P       05 36.50   0.1
        0.7s      3.64nm          4.4mb
ALQ     55.84 281 e(P)    06 09.00   0.0
        0.7s      1.37nm          4.1mb
KVN     57.47 293 P       06 20.50  -0.1
TNP     57.91 291 P       06 23.50  -0.2
WMQ     60.76  50 P       06 47.50   4.3X
     Z  21s      2.56um          5.3MszX
                 S       14 19.00
GLA     61.14 286 P       06 46.00   0.2
SIV     83.73 215 P       09 00.80   1.4
     S.D. = 0.9  on  50 of  53 obs.
-------------------------------------
   MAY  26, 1990  02h 57m 34.82± 0.23s
   1.342 N ± 4.6km  123.371 E ± 6.2km
   DEPTH =  33.8km  (  2 depth phases)
   5.2mb ( 21 obs.)  5.2Msz ( 12 obs.)
 MINAHASSA PENINSULA             (265)
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.: 15S, 31C
     Centroid Location:
     Origin Time        02:57:35.0 0.5
     Lat  1.33N  FIX;Lon 123.36E  FIX
     Dep  33.0 FIX Half-duration  2.6
     Moment Tensor;    Scale 10**17 Nm
       Mrr= 1.95 0.18   Mtt=-1.56 0.21
       Mff=-0.39 0.31   Mrt=-4.37 0.35
       Mrf= 0.62 0.28   Mtf= 0.54 0.16
      Principal Axes:
       T  Val=  4.91  Plg=56  Azm=184
       N       -0.25      4       280
       P       -4.67     34        13
     Best Double Couple:Mo=4.8*10**17
      NP1:Strike=119 Dip=12 Slip= 109
      NP2:       279     79        86

TSM     6.02 299 ePc     59 04.00   0.1
DAV     6.12  21 ePc-    59 04.00  -1.3
QCP     13.40 350 eP      00 29.00 -16.2X
BAG     15.22 350 eP-     01 08.00  -1.3
MTN     16.06 152 eP      01 19.40  -0.5
KNA     17.80 163 eP      01 40.70  -1.0
KGM     20.05 272 eP      02 18.00   9.8X
QIZ     22.02 324 Pd      02 27.50  -0.7
     N  15s      6.10um
     E  14s      4.40um
                 pP      02 40.00  52kmX
IPM     22.54 279 ePd     02 35.10   1.7
MBL     22.63 189 eP      02 32.30  -1.9
        0.5s     13.00nm          4.7mb
HKC     22.68 337 iP      02 36.00   1.4
                 iS      06 48.00
SNG     23.41 285 iPd     02 43.60   1.7
        1.0s    114.00nm          5.3mb
WB5     23.69 153 eP      02 43.50  -1.0
                 i       03 31.00
GZH     23.71 336 Pc      02 46.20   1.6
     Z  18s      6.80um          5.2Msz
     N  13s      5.30um
     E  12s      2.60um
WRA     23.73 154 P       02 46.00   1.0
        0.5s     33.30nm          5.1mb
ANP     23.77 356 eP      02 44.00  -1.4
QZH     23.91 349 Pd      02 47.00   0.4
```

	5.0s	2200.00nm			5.9mb	X
N	12s	2.00um				
E	12s	2.50um				
PSI	24.47	274 ePc	02	52.90	0.8	
	1.4s	95.90nm			5.2mb	
GUMO	24.50	59 eP	02	53.50	1.0	
	0.7s	57.18nm			5.2mb	
PJG	24.51	59 eP	02	53.20	0.7	
GUA	24.52	59 eP	02	53.30	0.6	
	0.5s	73.24nm			5.5mb	
LAT	24.89	109 iPc	02	58.50	2.3X	
NNT	25.95	297 eP	03	08.20	2.0	
PMG	25.98	115 eP	03	07.00	0.5	
	1.0s	100.00nm			5.4mb	
LOE	26.60	308 eP	03	19.00	6.9X	
QIS	26.95	145 iPc	03	13.90	-1.4	
	1.0s	160.00nm			5.6mb	
		eS	07	39.20		
NST	26.98	303 eP	03	20.00	4.4X	
WARB	27.55	174 eP	03	19.00	-1.7	
BDT	28.71	305 eP	03	34.00	2.8X	
RAB	29.30	101 eP	03	36.00	-0.7	
		eS	08	30.00		
CHG	29.58	307 eP	03	40.00	0.9	
SSE	29.66	356 Pd	03	38.50	-1.2	
	4.0s	600.00nm			5.7mb	X
Z	20s	3.70um			5.0Msz	
N	13s	2.00um				
E	12s	1.20um				
		S	08	30.00		
GYA	29.69	329 P	03	40.00	-0.2	
Z	18s	2.10um			4.8Msz	
N	13s	3.20um				
E	13s	2.50um				
		S	08	36.00		
WHN	30.28	344 eP	03	46.50	1.4	
Z	17s	6.00um			5.3MszX	
N	15s	6.80um				
E	12s	2.50um				
		eS	08	36.00		
NJ2	30.84	353 Pd	03	51.00	0.9	
	5.0s	600.00nm			5.6mb	X
Z	16s	1.70um			4.8MszX	
N	13s	2.80um				
E	12s	1.20um				
		PP	04	55.50		
		S	08	53.50		
KMI	30.91	322 Pc	03	53.00	1.9	
	1.0s	90.00nm			5.5mb	
Z	16s	4.70um			5.2MszX	
N	14s	1.30um				
E	14s	1.80um				
		pP	03	58.00	17kmX	
		sP	04	01.00		
		S	08	56.00		
CTA	30.93	135 iPc+	03	50.00	-1.1	
	1.1s	37.97nm			5.1mb	
		iS	08	55.00		
MRWA	31.20	193 eP	03	50.30	-3.0	
CD2	34.79	330 eP	04	23.80	-0.7	
Z	15s	3.00um			5.2MszX	
N	14s	4.40um				
		S	09	54.00		
TIA	35.17	351 eP	04	28.60	0.9	
Z	19s	3.30um			5.1Msz	
N	16s	2.90um				
E	16s	2.00um				
		S	09	57.00		
XAN	35.23	339 P	04	28.40	0.2	
	4.0s	700.00nm			5.9mb	X
N	17s	4.00um				
E	16s	4.10um				
		S	09	56.00		
RMQ	36.95	140 eP	04	42.70	-0.1	
MAT	37.62	20 eP	04	47.00	-1.3	
	1.3s	51.92nm			5.2mb	
Z	20s	2.84um			5.1Msz	
		eS	10	23.00		
ADE	38.87	160 iPc	04	58.50	-0.4	
	0.9s	50.42nm			5.3mb	
CMS	38.99	149 eP	05	00.00	0.1	
LZH	39.03	335 eP	04	58.00	-2.3	
	5.0s	700.00nm			5.7mb	X
Z	18s	4.40um			5.3Msz	
N	14s	2.80um				
E	14s	1.70um				
		pP	05	08.00	34km	
		sP	05	14.00		
		PP	06	35.00		
		S	11	01.60		
		sS	11	16.00		
		ScS	15	06.50		
BJI	39.07	351 eP	05	01.00	0.6	
	1.3s	120.00nm			5.5mb	
Z	18s	3.82um			5.3Msz	
N	16s	1.21um				
		ePP	06	36.00		
		ePcP	07	11.00		
		eS	10	54.00		
		eScS	15	08.00		
BRS	40.20	137 iPc	05	09.90	-0.1	
		i	05	18.80		
		e(PP)	06	54.00		
		eS	11	12.00		
SNY	40.30	0 Pd	05	09.00	-1.5	
	5.0s	700.00nm			5.7mb	X
Z	20s	5.80um			5.4Msz	
N	17s	3.10um				
E	13s	1.10um				
		sP	05	24.00		
HHC	40.75	346 Pc	05	15.50	1.0	
Z	18s	11.30um			5.8Msz	
N	15s	1.60um				
E	16s	1.80um				
		sP	05	22.50		
		PP	06	52.00		
		S	11	27.50		
BTO	40.91	344 P	05	15.00	-0.7	
N	16s	5.20um				
E	16s	3.50um				
		PP	06	54.50		
		S	11	22.00		
LSA	41.64	316 P	05	22.10	-0.2	
		S	11	41.00		
COO	41.77	142 eP	05	24.00	1.1	
BFD	42.25	157 eP	05	28.40	1.8	
CN2	42.32	2 P	05	27.00	-0.1	
Z	20s	2.20um			5.0Msz	
N	14s	0.90um				
E	14s	0.90um				
		sP	05	40.00		
		eS	11	51.00		
BWA	42.64	149 eP	05	31.80	1.9	
MDJ	43.44	6 eP	05	34.00	-2.2	
N	16s	1.90um				
		pP	05	44.00	34km	
		sP	05	51.00		
GTA	43.56	333 eP	05	38.40	1.0	
	6.0s	1200.00nm			5.8mb	X
Z	18s	4.90um			5.5Msz	
E	16s	3.70um				
		PP	07	26.50		
		S	12	06.00		
CAN	43.64	149 iPc	05	38.30	0.3	
		e	07	26.30		
TOO	43.80	154 eP	05	40.70	1.4	
	0.7s	18.00nm			5.0mb	
CNB	43.82	149 eP	05	41.00	1.5	
	0.8s	36.00nm			5.2mb	
GUN	44.54	310 P	05	43.40	-2.4	
PKI	44.73	309 P	05	46.00	-1.4	
DMN	44.99	309 P	05	48.50	-0.8	
HYB	46.85	293 eP	06	04.30	0.4	
	1.0s	30.00nm			5.2mb	
		eS	12	56.00		
GBA	47.04	287 Pc	06	04.00	-1.4	
	1.0s	18.50nm			5.0mb	
DZM	48.03	122 iPc	06	12.30	-0.9	
POO	51.46	293 eP	06	36.00	-3.5X	
NDI	51.71	306 eP	06	39.80	-1.4	
		eS	14	02.00		
KSH	57.40	317 P	07	24.50	1.8	
N	15s	2.10um				
		S	15	14.00		
QUE	60.63	304 eP	07	43.60	-1.8	
		eS	16	02.00		
SNZO	62.92	139 P	08	12.00	11.8X	
		S	16	38.00		
MAIO	68.33	309 eP	08	34.00	-1.2	
		eS	17	40.00		
DRV	68.88	173 eP	08	35.00	-2.9	
TAB	78.98	308 eP	09	38.00	0.7	
MAW	80.38	200 eP+	09	43.00	-1.0	
SBA	82.46	172 e(P)	09	54.20	-0.5	
IMA	85.91	24 eP	10	14.00	1.4	
	1.3s	16.50nm			5.1mb	
BBTK	89.62	310 eP	10	36.00	5.1X	
KEV	90.96	340 eP	10	41.00	4.7X	
SPA	91.33	180 eP	10	33.80	-4.5X	
	1.2s	42.96nm			5.7mb	
SOD	91.37	337 eP	10	43.00	4.7X	
SUF	92.14	333 eP	10	40.00	-1.8	
NUR	93.14	331 eP	10	54.00	7.5X	
INK	93.60	21 eP	10	46.00	-2.5	
BUL	94.93	250 iPd	10	43.20	-12.5X	
MBC	94.99	12 eP	11	00.00	5.2X	
	0.7s	1.00nm			4.4mb	
KRA	97.58	321 eP	11	09.90	2.9X	
NB2	99.39	333 P	11	13.80	-1.3	
	1.2s	10.50nm			5.2mb	
CLL	101.55	323 e(Pdif	11	25.00	0.1	
Z	18s	1.00um			5.4Msz	
KHC	101.82	321 ePdiff	11	38.50	12.3X	
MOX	102.59	323 e(Pdif	11	30.00	0.5	
ALQ	121.10	47 ePKP	16	22.50	-4.0X	
	1.1s	6.33nm				
SCH	123.41	7 ePKP	16	30.00	0.0	
TUL	128.00	41 e(PKP)	16	39.20	-0.3	
	1.2s	10.00nm				
LNV	144.73	158 iPKPc	17	10.10	-0.2	
CHCH	145.02	159 ePKP	17	11.50	0.6	
PCH	145.35	159 iPKPc	17	12.90	1.3	
SAN	145.45	159 ePKPd	17	12.00	0.4	
IHA	145.47	157 ePKP	17	12.00	0.4	
FCH	145.70	159 ePKP	17	13.50	1.0	
PEL	145.72	159 iPKPd	17	13.10	1.0	
	1.2s	109.38nm				
ROCH	145.76	158 ePKP	17	14.20	1.8	
JACH	146.17	159 ePKP	17	12.00	-1.0	
MDZ	146.59	161 ePKP	17	15.60	2.0	
RTCB	147.89	160 ePKPd	17	19.50	3.8X	
RTLL	148.14	161 ePKPc	17	19.30	3.2X	
NNA	157.33	119 e(PKP)	17	31.50	1.9	
	1.0s	15.00nm				
ARE	159.02	137 ePKP	17	34.00	2.2X	
PSO	159.15	83 ePKP	17	33.00	0.8	
LPB	161.15	144 PKP	17	31.00	-3.1X	
ZOBO	161.34	143 PKPd	17	36.00	1.5	
	1.7s	34.16nm				
Z	24s	0.34um				
CCH	161.52	150 PKP	17	37.40	3.1X	
BOG	161.60	71 e(PKP)	17	36.00	1.4	
SIV	164.80	163 PKP	17	38.40	1.2	
		i	18	34.00		

S.D. = 1.3 on 92 of 115 obs.

---

* MAY 26, 1990 03h 12m 14.18± 0.54s
12.018 N ± 9.6km 143.654 E ±16.1km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	1.95	39 eP	12	45.80	0.2	
		eS	13	09.90		
GUMO	1.96	37 eP	12	45.30	-0.4	
WB5	32.99	196 eP	18	48.00	-0.4	
WRA	33.06	196 Pc	18	49.10	0.1	
	0.7s	2.80nm			4.3mb	
DZM	40.59	146 iPc	19	53.00	0.3	
INK	76.26	22 eP	24	00.40	-0.5	
MBC	80.07	14 eP	24	22.00	0.3	
	0.5s	2.00nm			4.4mb	
SOD	88.93	340 eP	25	08.00	1.6	
SUF	91.41	336 iP	25	21.00	3.0X	
	0.6s	3.40nm			4.9mb	
NUR	93.15	334 eP	25	25.00	-1.0	
APO	97.43	337 eP	25	45.50	-0.1	
	1.1s	7.00nm			5.1mb	

S.D. = 0.8 on 10 of 11 obs.

MAY 26, 1990 03h 26m 30.60± 0.58s
16.737 N ± 5.4km 61.549 W ± 7.8km
DEPTH = 22.1 ± 5.9 km
LEEWARD ISLANDS (92)
MD 3.3 (TRN). ML 3.3 (FDF).

SEG	0.34	173 iPc	26	38.61	0.7	
		S	26	42.90		
BPA	0.43	316 iPc	26	40.04	0.6	
		S	26	46.30		
SFG	0.59	145 iPc	26	42.33	0.2	

26d 03h

		S	26 50.00		
MGH	0.64	269	iPd	26 43.11	0.1
		S	26 51.40		
PAG	0.71	190	iPc	26 44.15	-0.2
		S	26 53.40		
CPB	0.94	344	iP	26 47.67	-0.3
		eS	26 59.93		
NEV	1.06	292	ePc	26 49.78	-0.2
		S	27 03.80		
BBL	1.21	177	eP	26 51.50	-0.7
		S	27 07.50		
SKI	1.28	298	iP	26 53.18	-0.1
		eS	27 09.41		
FDF	2.03	169	eP	27 04.30	0.2
		S	27 29.60		
CRM	2.06	163	eP	27 04.80	0.2
BIM	2.25	168	eP	27 07.48	0.2
MVM	2.26	164	eP	27 06.70	-0.7

S.D. = 0.5 on 13 of 13 obs.

& MAY 26, 1990 03h 45m 07.74s
61.582 N 146.367 W
DEPTH = 37.1km
SOUTHERN ALASKA (2)
<AGS-P>.

KLU	0.23	112	iP	45 14.82	-0.3
VLZ	0.45	178	iP	45 16.87	-0.8
		eS	45 24.74		
NCA	0.47	332	iP	45 17.14	-0.8
		eS	45 25.43		
TOA	0.53	10	iP	45 18.19	-0.7
VZW	0.53	190	iP	45 17.94	-1.0
		eS	45 26.61		
GLI	0.79	207	iP	45 21.74	-0.7
		eS	45 33.15		
SML	0.96	284	iP	45 23.82	-1.2
		eS	45 37.48		
SDG	1.02	22	eP	45 24.49	-1.3
		eS	45 37.39		
GHO	1.23	280	eP	45 27.86	-1.0
		eS	45 45.14		
PLRM	1.32	272	eP	45 29.54	-0.5
		eS	45 47.52		
PAX	1.46	16	eP	45 30.74	-1.3
PMS	1.57	259	eP	45 33.50	-0.2
PWA	1.68	274	eP	45 34.17	-1.0
MTU	1.72	202	eP	45 35.61	-0.2
TGL	1.90	114	eP	45 36.96	-1.5
BALM	2.02	104	eP	45 38.52	-1.6
CUT	2.02	296	eP	45 39.73	-0.3
SUA	2.10	269	eP	45 40.65	-0.6
SEW	2.12	227	eP	45 40.91	-0.4
SLKM	2.16	242	eP	45 42.01	-0.1
SKT	2.49	282	eP	45 45.65	-1.1

21 obs. associated

? MAY 26, 1990 04h 30m 43.54± 7.12s
34.037 S ±20.9km 72.688 W ±51.4km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNV	1.06	86	iPd	31 03.60	0.0
		iS	31 16.00		
LCCH	1.09	59	iPc	31 04.10	0.1
		iS	31 17.00		
IHA	1.33	41	eP	31 08.00	-0.1
		e(S)	31 24.00		
TACH	1.51	76	iPc	31 09.70	-0.9
		iS	31 28.60		
CHCH	1.69	87	iPc	31 13.90	0.5
		iS	31 34.00		
SAN	1.79	72	eP	31 14.50	-0.2
		i	31 34.70		
		iS	31 37.00		
PCH	1.86	78	eP	31 15.60	-0.2
		iS	31 39.00		
PPL	1.89	63	iPd	31 17.00	0.7
		iS	31 42.00		
PCH	2.12	71	eP	31 19.70	-0.1
		iS	31 45.50		
MDZ	3.41	71	eP	31 44.50	6.6X
		e	31 47.70		

S.D. = 0.5 on 9 of 10 obs.

MAY 26, 1990 05h 11m 13.25± 0.75s
17.031 S ± 4.6km 168.443 E ± 4.8km
DEPTH = 222.7 ± 7.1 km
4.9mb (14 obs.)
VANUATU ISLANDS (186)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 05:11:19.3 1.3
Lat 16.89S 0.15 Lon 168.18E 0.09
Dep 217.2 4.1 Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr= 0.32 0.07 Mtt=-0.78 0.15
Mff= 0.46 0.13 Mrt= 0.28 0.08
Mrf=-0.44 0.10 Mtf=-1.07 0.10
Principal Axes:
T Val= 1.34 Plg=27 Azm= 60
N 0.06 63 242
P -1.40 1 150
Best Double Couple:Mo=1.4*10**17
NP1:Strike=198 Dip=71 Slip= 19
NP2: 102 72 159

PVC	0.72	190	iPc	11 45.00	0.9
			iS	12 08.80	
DZM	5.36	200	iPc	12 33.60	0.2
			iS	13 36.30	
HNR	11.20	311	eP	13 48.00	-0.4
BRS	17.78	232	iPc	15 07.50	-0.3
	1.0s		3.00nm		3.7mb X
			i	15 11.30	
COO	20.24	225	eP	15 33.00	0.1
			e	15 53.70	
RMQ	20.54	239	iPc	15 37.00	1.1
			i	16 18.70	
CTA	21.25	258	iP	15 43.30	0.4
			i	16 19.20	
			iS	19 28.00	
WLZ	21.66	165	P	15 48.70	2.0
PMG	22.05	287	iPd	15 51.30	0.7
	1.4s		325.58nm		5.7mb
HBZ	22.25	159	P	15 53.30	0.9
TAZ	22.28	163	P	15 55.90	3.3X
PUZ	22.67	160	P	15 57.20	0.7
NOZ	23.09	161	P	16 01.20	0.7
PGZ	24.46	165	P	16 12.70	-0.6
TCW	24.62	169	P	16 15.40	0.6
CAW	24.67	168	P	16 14.90	-0.4
MRW	24.71	169	P	16 15.40	-0.3
MTW	24.80	167	P	16 15.50	-1.0
WDW	24.81	168	P	16 15.70	-0.8
CNB	24.91	219	eP	16 18.00	0.3
BWA	24.93	222	eP	16 16.20	-1.6
			i	16 58.00	
THZ	24.95	172	P	16 18.00	0.1
BLW	25.00	167	P	16 17.60	-0.7
MOW	25.00	168	P	16 17.40	-1.0
CMS	25.07	231	eP	16 19.00	-0.1
			e	17 00.00	
CAN	25.14	220	eP	16 19.80	0.1
			e	17 00.80	
LTZ	25.87	174	P	16 26.50	0.2
QIS	27.51	258	eP	16 41.50	0.2
			e	17 21.20	
WB5	32.42	260	eP	17 22.90	-1.5
			eS	22 19.50	
			eScP	23 28.80	
WRA	32.44	260	Pd	17 22.70	-1.9
	0.4s		1.80nm		4.1mb
KNA	38.04	266	eP	18 11.00	-1.0
WARB	39.77	249	iPc	18 16.30	-9.9X
COOL	45.05	243	eP	19 07.50	-1.3
	0.3s		4.00nm		4.3mb
MBL	45.98	257	eP	19 15.70	-0.5
MEKA	47.06	249	eP	19 24.00	-0.6
MUN	49.36	242	eP	19 41.00	-1.2
MRWA	49.38	246	eP	19 41.00	-1.4
MAT	60.46	332	(P)	21 02.00	0.3
SBA	60.85	180	e(P)	21 03.90	0.0
NJ2	68.10	316	eP	21 51.00	-0.1
WHN	70.31	312	eP	22 04.50	-0.1
SPA	73.08	180	iPc	22 21.50	0.9
	0.9s		24.55nm		4.9mb
GYA	73.95	305	P	22 26.60	0.4
BJI	74.75	321	eP	22 31.00	0.6
	1.0s		11.00nm		4.5mb
			eS	31 48.00	
TIY	75.71	317	eP	22 37.00	1.1

Z	22s		0.60um		4.9Msz
			S	32 03.00	
XAN	76.07	312	P	22 38.20	0.2
KMI	76.47	302	Pc	22 42.00	1.3
	2.0s		80.00nm		5.1mb
SDN	76.75	18	eP	22 39.20	-2.0
CHG	77.05	294	iPc	22 45.00	1.3
	1.1s		15.82nm		4.7mb
HHC	78.06	320	P	22 50.00	1.1
CD2	78.30	307	eP	22 48.20	-2.2
LZH	80.69	312	P	23 04.50	1.4
	1.5s		38.00nm		4.9mb
Z	20s		0.20um		4.5Msz
KDC	81.22	20	eP	23 05.00	-0.1
SVW	83.01	17	ePc	23 14.50	0.1
TTA	84.42	16	iPc	23 21.60	0.1
			i	23 26.90	
PCC	84.60	48	eP	23 22.80	0.0
GCC	84.67	49	eP	23 23.10	-0.1
PRS	84.83	50	eP	23 24.30	0.3
BRK	84.85	48	eP	23 24.10	0.1
SAO	84.96	49	eP	23 24.60	0.0
FHC	84.97	45	eP	23 25.30	0.6
MHC	85.06	49	ePc	23 25.50	0.2
GTA	85.06	314	Pc	23 26.40	1.1
	1.0s		200.00nm		5.8mb
ARN	85.15	49	P	23 26.30	0.7
LLA	85.26	50	eP	23 24.60	-1.6
PRI	85.26	50	eP	23 26.70	0.4
PMR	85.29	19	eP	23 24.30	-1.4
	0.9s		81.20nm		5.5mb
BCH	85.29	51	P	23 26.80	0.3
ABL	85.80	52	P	23 29.50	0.4
WDC	85.85	45	eP	23 28.50	-0.5
ORV	86.12	47	eP	23 29.20	-1.1
CMB	86.26	49	eP	23 31.10	0.0
FRI	86.32	50	ePc	23 30.30	-1.0
PAS	86.32	53	eP	23 31.00	-0.4
MIN	86.39	46	eP	23 31.20	-0.6
MWC	86.43	53	eP	23 32.00	-0.2
ISA	86.69	51	eP	23 33.00	-0.2
SBB	86.79	52	eP	23 33.00	-0.7
RVR	86.87	53	eP	23 34.00	0.0
PEC	86.99	53	P	23 34.70	0.0
PLM	87.02	54	eP	23 35.00	0.0
CLC	87.41	51	eP	23 36.00	-0.6
IMA	87.58	15	eP	23 36.30	-0.6
	0.8s		6.80nm		4.5mb
GSC	87.80	52	eP	23 39.00	0.4
TPC	87.93	54	eP	23 39.00	-0.2
BMW	88.06	40	P	23 39.90	0.4
FBA	88.20	17	iPc	23 37.80	-1.9
KVN	88.31	48	P	23 41.30	0.2
GLA	88.49	55	eP	23 42.00	0.2
SHW	88.55	41	P	23 42.80	0.8
TNP	88.57	49	P	23 42.40	0.1
GMW	88.82	39	P	23 43.40	0.4
PGC	88.93	38	eP	23 44.00	0.6
LON	89.06	40	P	23 43.90	-0.3
MCW	89.31	38	P	23 45.70	0.4
RMW	89.38	40	P	23 45.80	0.1
PNT	91.49	38	ePc	23 55.00	-0.3
	1.0s		50.00nm		5.5mb
MSU	92.42	51	P	24 01.00	0.9
GKN	92.56	298	P	24 00.00	-0.9
NEW	92.58	40	P	23 59.90	-0.5
			pP	25 50.00	487kmX
DAU	93.72	49	P	24 06.80	0.6
LRM	94.68	44	eP	24 10.10	-0.3
INK	94.70	18	eP	24 08.00	-1.6
IMW	95.07	46	P	24 12.20	-0.1
ALQ	95.67	55	eP	24 14.00	-1.1
	0.9s		5.67nm		4.8mb
SES	97.05	40	eP	24 20.00	-0.7
MBC	102.28	13	ePdiff	24 43.00	-0.6
	0.8s		3.00nm		5.0mb
ZOBO	115.16	118	PKP	29 30.00	-1.1
FRB	119.51	25	ePKP	29 35.50	-1.7
SIV	121.18	121	PKP	29 40.60	-1.3
KEV	122.23	345	iPKP	29 47.20	5.0X
	0.7s		16.00nm		
SCH	123.59	35	ePKP	29 44.00	-1.4
BUL	125.96	228	iPKPc	29 39.60	-11.6X
SUF	127.38	339	iPKP	29 51.60	-0.8
	0.6s		13.10nm		
NUR	129.41	338	iPKP	29 56.00	-0.3
	0.7s		28.00nm		

NB2	133.13	345	PKP	30	03.10	-0.4
	0.8s		7.60nm			
HFS	133.24	343	ePKP	30	02.10	-1.5
	1.1s		17.70nm			
KSP	139.59	333	ePKP	30	05.00	-10.8X
			e	30	15.00	
CLL	140.60	336	iPKP	30	14.70	-2.9X
			e	30	18.00	
PRU	140.98	333	ePKP	30	12.00	-6.3X
EKA	141.23	352	PKP	30	13.00	-5.6X
	1.0s		6.70nm			
MOX	141.67	336	ePKP	30	15.00	-4.6X
KHC	142.04	333	PKPd	30	15.70	-4.6X
	1.0s		7.50nm			
WTS	142.20	341	ePKP	30	19.50	-0.9
	1.0s		16.00nm			
GRF	142.58	336	iPKPd	30	17.80	-3.4X
ITR	143.09	132	ePKP	30	19.00	-4.1X
PTJ	143.21	327	ePKP	30	20.00	-2.5
OHR	143.26	317	ePKP	30	19.50	-3.1X
	0.8s		61.00nm			
			e	33	39.00	
ENN	143.55	341	ePKP	30	20.00	-2.7X
	1.0s		25.00nm			
			e	30	26.00	
DCN	143.61	356	iPKPc	30	20.40	-2.3
FUR	143.76	334	iPKPc	30	21.50	-1.7
	1.2s		102.00nm			
LJU	143.84	329	ePKPc	30	21.50	-1.9
YRH	143.86	353	ePKP	30	20.50	-2.7X
	1.0s		70.00nm			
CEY	144.10	328	ePKPc	30	22.00	-1.9
STU	144.11	336	ePKPd	30	22.50	-1.3
	1.0s		80.00nm			
VOY	144.16	329	ePKP	30	21.70	-2.4
ETA	144.16	354	ePKP	30	22.10	-1.6
	0.8s		221.00nm			
SNF	144.26	343	PKP	30	22.20	-1.7
FVI	144.28	331	PKPd	30	22.10	-2.0
TRI	144.45	329	PKP	30	23.20	-1.2
GWF	144.52	338	PKP	30	23.86	-0.7
DOU	144.54	342	iPKPd	30	23.90	-0.5
ECP	144.69	354	ePKP	30	23.70	-0.9
	0.5s		405.00nm			
STR	144.80	338	PKP	30	24.99	0.1
OGA	144.87	333	iPKPc	30	25.30	-0.1
	0.9s		165.00nm			
WLS	145.09	338	PKP	30	25.41	-0.1
CDF	145.12	338	PKP	30	25.67	0.0
VAL	145.16	359	ePKP	30	24.00	-1.4
SLE	145.20	336	ePKPd	30	24.90	-0.8
CTI	145.21	331	PKPc	30	25.50	-0.4
SAX	145.28	335	ePKPd	30	25.70	-0.5
FEL	145.30	337	PKP	30	25.94	-0.1
ECH	145.33	338	PKP	30	25.81	-0.1
OSS	145.39	333	ePKPd	30	26.00	-0.3
ZLA	145.48	336	ePKPd	30	25.40	-0.8
MOF	145.64	338	PKP	30	26.86	0.3
LLS	145.73	335	ePKPd	30	26.40	-0.5
VITF	145.74	339	PKP	30	27.26	0.8
BSF	145.78	338	PKP	30	27.24	0.4
HAU	145.80	338	iPKPc	30	27.50	0.8
	0.6s		49.60nm			
BBS	145.83	337	PKP	30	27.53	0.7
VDL	145.84	334	ePKPd	30	27.50	0.4
SAL	146.06	332	PKP	30	22.50	-4.6X
LOMF	146.18	337	PKP	30	27.71	0.3
MDI	146.29	333	PKP	30	28.00	0.5
RSM	146.38	328	PKPc	30	30.20	2.5
TMA	146.39	334	ePKPd	30	28.80	0.9X
ARV	146.43	327	PKP	30	28.00	0.1
ORI	146.60	319	PKP	30	30.80	2.6X
VAI	146.63	334	PKPc	30	29.40	1.4
SFI	146.68	328	PKPc	30	31.10	2.9
PGD	146.78	329	PKP	30	31.40	2.8X
MMK	146.81	335	ePKPd	30	30.70	2.0
DUI	146.82	323	PKP	30	30.70	2.1
ASS	146.87	327	PKP	30	30.30	1.7
TDS	146.90	319	PKP	30	31.00	2.3
DIX	147.01	335	ePKPd	30	29.30	0.3
SGO	147.01	321	PKPc	30	31.00	2.2
MME	147.05	330	PKPc	30	31.50	2.4
FLN	147.09	346	iPKPc	30	31.00	2.3
	0.8s		98.05nm			
MGR	147.11	320	PKPc	30	30.20	1.2
ORO	147.15	334	PKPd	30	30.60	1.5
SDI	147.16	324	PKPd	30	31.00	1.9
LDF	147.16	346	iPKPc	30	31.20	2.4
	1.0s		84.00nm			
BSS	147.17	322	PKP	30	31.10	2.0
AZI	147.19	324	PKPd	30	31.00	2.0
BOB	147.19	332	PKPc	30	31.50	2.4
BDI	147.19	330	PKP	30	30.40	1.3
EMS	147.21	336	ePKPd	30	31.50	2.3
LOR	147.27	340	iPKPc	30	31.80	2.7X
LBF	147.48	340	iPKPc	30	31.60	2.1
	1.0s		43.00nm			
PII	147.48	330	PKP	30	31.00	1.5
GRR	147.52	347	iPKPc	30	32.70	3.3X
	1.0s		84.00nm			
SSF	147.57	341	iPKPc	30	32.60	3.1X
RMP	147.71	325	PKPd	30	33.00	3.1X
RDP	147.74	325	PKPc	30	33.30	3.2X
LPG	147.75	336	iPKPc	30	33.60	3.3X
SMF	147.83	340	iPKPc	30	32.70	2.7X
	0.9s		43.40nm			
AVF	147.86	341	iPKPc	30	32.80	2.8X
	0.9s		37.65nm			
LPF	147.90	347	iPKPc	30	33.80	3.8X
SOI	147.98	316	PKP	30	34.00	3.6X
CKI	147.98	333	PKP	30	32.50	2.2X
BNI	148.15	335	PKPc	30	34.60	3.9X
BST	148.21	350	PKP	30	33.16	2.7X
BGF	148.22	341	iPKPc	30	34.20	3.6X
ATN	148.32	317	PKP	30	33.60	2.6X
DOI	148.36	334	PKP	30	28.50	-2.5X
PLDF	148.49	340	PKP	30	35.34	4.2X
AGO	148.58	340	PKP	30	35.40	4.2X
MAF	148.61	341	iPKPc	30	35.40	4.2X
	0.8s		30.90nm			
TCF	148.66	342	iPKPc	30	35.20	3.9X
SSB	148.77	338	PKP	30	35.77	4.2X
SBF	148.80	333	iPKPc	30	35.40	3.7X
	1.0s		100.00nm			
PYM	148.89	340	PKP	30	36.26	4.5X
LSF	148.90	342	iPKPc	30	35.70	4.0X
MFF	149.03	345	iPKPc	30	36.40	4.6X
	0.8s		69.85nm			
PGF	149.10	330	iPKPc	30	36.50	4.3X
	1.0s		100.00nm			
LBL	149.27	339	PKP	30	37.50	5.3X
FRF	149.38	334	iPKPc	30	37.40	4.9X
	1.0s		74.00nm			
LRG	149.59	334	iPKPc	30	37.70	4.9X
	1.0s		106.00nm			
LMR	149.62	333	iPKPc	30	37.70	4.9X
	1.0s		104.00nm			
RJF	149.76	342	iPKPc	30	38.20	5.2X
	0.9s		57.35nm			
CAF	149.93	340	iPKPc	30	38.50	5.2X
	0.9s		31.10nm			
LFF	150.32	342	iPKPc	30	39.80	6.0X
	0.9s		80.25nm			
LPO	150.42	341	iPKPc	30	40.10	6.1X
	0.9s		65.50nm			
EPF	152.17	341	iPKPc	30	42.60	5.9X
	0.9s		31.10nm			
TOL	156.31	346	ePKP	30	44.00	1.6

S.D. = 1.1 on 173 of 227 obs.

MAY 26, 1990 05h 53m 50.60± 0.41s
5.321 N ± 6.5km 32.044 E ± 6.8km
DEPTH = 10.0km (geophysicist)
4.8mb (12 obs.)
SUDAN (557)

AAE	7.62	61	eP	55	46.50	1.8
LWI	8.18	203	iPd	55	52.30	-0.1
LWI	8.18	203	iPc	55	52.80	0.4
			iS	57	26.80	
BCAO	13.49	267	iPd	57	04.90	0.3
	0.3s		5.00nm		5.0mb	
KHC	46.38	343	eP	02	19.10	0.2
			e	02	25.50	
LPO	47.60	330	eP	02	28.60	0.1
	0.8s		5.35nm		4.7mb	
SMF	47.83	334	eP	02	30.20	-0.1
	1.0s		10.00nm		4.9mb	
LFF	48.00	330	eP	02	25.00	-6.7X
	0.8s		5.35nm		4.7mb	
AVF	48.16	334	eP	02	32.80	0.0
	1.0s		4.00nm		4.5mb	
TCF	48.29	332	eP	02	34.60	0.7
	1.0s		9.00nm		4.8mb	
LSF	48.58	332	eP	02	36.70	0.6
	1.0s		10.00nm		4.8mb	
GKN	54.70	59	P	03	22.40	-0.4
	0.8s		20.00nm		5.2mb	
DMN	55.01	60	P	03	24.80	-0.4
PKI	55.26	60	P	03	26.20	-0.9
GUN	55.74	60	P	03	30.00	-0.6
	0.8s		26.00nm		5.3mb	
EKA	57.28	337	P	03	41.00	0.3
	1.1s		9.40nm		4.7mb	
SUF	57.44	357	iP	03	41.10	-0.6
	0.6s		6.60nm		4.8mb	
NB2	57.76	348	P	03	42.90	-1.1
	0.9s		4.30nm		4.5mb	

S.D. = 0.7 on 17 of 18 obs.

MAY 26, 1990 06h 22m 13.80± 0.76s
38.308 N ± 6.9km 22.244 E ± 8.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (ATH).

ITM	1.15	193	ePb	22	35.00	-0.4
ATH	1.21	106	ePg	22	36.50	0.2
NEO	1.26	37	ePb	22	36.20	-1.0
VLS	1.31	265	ePb	22	37.20	-0.8
			eSb	22	58.70	
VLI	1.68	161	ePb	22	44.00	0.6
KEK	2.37	307	ePg	22	59.00	5.7X
OHR	3.01	339	ePn	23	04.50	2.0
VAY	3.02	5	ePn	23	01.70	-0.8
VAM	3.29	151	ePg	23	18.50	12.1X

S.D. = 1.3 on 7 of 9 obs.

? MAY 26, 1990 06h 41m 52.60± 6.21s
0.150 S ±13.7km 79.100 W ±41.9km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

GGP	0.50	93	iPd	42	01.70	-1.3
			eS	42	07.50	
QUR	0.57	92	eP	42	04.20	-0.3
			eS	42	19.70	
VC1	0.85	125	iPd	42	08.20	-1.2
COTA	0.90	58	P	42	09.20	-1.0
			S	42	21.50	
CAYA	1.14	78	P	42	12.90	-1.4
			eS	42	27.00	

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

& MAY 26, 1990 07h 28m 11.50s
34.410 N 120.410 W
DEPTH = 1.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS).

BLP	0.15	3	iPd	28	14.70	0.2
SYP	0.38	72	iPc	28	19.30	0.3
BCH	0.82	19	iPc	28	27.70	-0.1
ABL	1.07	66	eP	28	31.00	-1.7
PHAM	1.42	0	eP	28	35.70	-2.8
PEC	2.74	100	eP	28	53.60	-3.9
PLM	3.13	109	eP	28	59.00	-4.2
CMB	3.62	0	eP	29	08.20	-1.7
TNP	4.48	34	eP	29	21.80	-0.5
KVN	4.99	21	eP	29	25.00	-4.5

10 obs. ossocioted

% MAY 26, 1990 07h 30m 46.68± 0.76s
37.843 N ± 7.9km 15.243 E ± 6.8km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.36	29	Pd	30	54.90	0.8
			eSg	31	00.50	
MSI	0.44	34	Pd	30	56.10	0.5
			eSg	31	04.00	
MNO	0.44	282	P	30	56.00	0.2
			eSg	31	05.00	
SOI	0.68	70	P	31	01.00	0.8
			eSg	31	11.50	
MEU	0.78	199	Pd	31	01.30	-0.7
			eSg	31	11.80	
GIB	0.97	279	P	31	06.10	0.9
			eSg	31	20.90	
FAI	1.37	246	P	31	12.00	0.2
TDS	2.01	25	P	31	20.20	-0.7

26d 07h

			eSn	31 45.00		
MGR	2.30	6	P	31 23.20	-2.1	
			eSn	31 51.00		
S.D. = 1.1 on 9 of 9 obs.						

& MAY 26, 1990 07h 34m 37.06s
59.846 N 153.210 W
DEPTH = 110.2km
4.2mb (1 obs.)
SOUTHERN ALASKA (2)
<AGS-P>. Felt (III) at Anchor Point.

AUL	0.48	194	iP	34 53.61	-0.4	
			eS	35 06.13		
AUE	0.50	190	iP	34 53.57	-0.5	
			eS	35 05.88		
PDB	0.50	264	iP	34 53.34	-0.8	
			eS	35 06.42		
RED	0.62	21	iP	34 54.42	-0.7	
			eS	35 08.01		
RDT	0.83	28	iP	34 56.15	-0.8	
			eS	35 10.98		
XLV	0.85	117	eP	34 56.26	-0.8	
			eS	35 11.89		
MCNL	0.88	221	eP	34 56.28	-1.0	
			eS	35 11.61		
CDD	0.95	194	iP	34 56.97	-1.1	
			eS	35 12.49		
NNL	0.98	78	iP	34 58.58	0.2	
CNPM	1.05	107	iP	34 58.20	-0.9	
			eS	35 14.81		
BRLK	1.18	93	eP	34 59.58	-0.9	
			eS	35 17.68		
NKA	1.33	47	eP	35 03.01	0.8	
SPU	1.46	23	iP	35 02.69	-1.1	
			eS	35 23.49		
CRP	1.52	20	eP	35 03.80	-0.9	
SLKM	1.63	65	eP	35 04.40	-1.5	
			eS	35 25.40		
NCG	1.65	18	eP	35 05.22	-1.0	
SVW	1.74	318	iPc	35 05.50	-1.8	
SEW	1.91	81	eP	35 07.30	-2.0	
SUA	2.03	36	iP	35 09.90	-1.1	
			eS	35 35.70		
KDC	2.14	170	iPd	35 09.50	-2.8	
PMS	2.28	51	iP	35 12.70	-1.6	
SKT	2.29	20	iP	35 12.81	-1.6	
PWA	2.44	41	iPc	35 14.60	-1.7	
PLRM	2.66	47	eP	35 16.37	-2.8	
PMR	2.66	47	iPd	35 16.40	-2.8	
MTU	2.80	85	eP	35 19.60	-1.5	
GHO	2.85	46	eP	35 19.06	-2.8	
CUT	2.94	28	eP	35 21.06	-1.8	
			eS	35 55.19		
SML	3.09	48	iP	35 22.18	-2.9	
GLI	3.21	69	eP	35 23.65	-3.0	
			eS	35 59.88		
TTA	3.38	338	iPd	35 26.40	-2.5	
MID	3.51	94	eP	35 28.92	-1.8	
VZW	3.51	67	eP	35 27.40	-3.4	
			eS	36 08.40		
HUR	3.58	27	eP	35 29.79	-1.9	
VLZ	3.64	66	eP	35 29.18	-3.2	
NCA	3.79	53	eP	35 31.49	-3.0	
KTH	3.88	15	eP	35 33.10	-2.6	
KLU	3.95	62	iP	35 33.51	-3.2	
TOA	4.11	54	iPc	35 36.60	-2.3	
RND	4.13	28	eP	35 36.16	-3.1	
MCK	4.40	26	eP	35 40.35	-2.4	
PAX	4.86	47	eP	35 46.17	-3.1	
NEA	5.13	20	eP	35 49.19	-3.6	
WRH	5.22	25	eP	35 50.56	-3.6	
TGL	5.24	76	eP	35 51.69	-2.8	
DDM	5.27	38	eP	35 52.77	-2.0	
			eS	36 51.36		
HDA	5.43	30	eP	35 53.26	-3.8	
CCB	5.44	25	eP	35 53.14	-3.9	
			eS	36 52.02		
DMW	5.50	37	eP	35 56.36	-1.6	
BALM	5.51	73	eP	35 55.55	-2.6	
			eS	36 55.80		
FBA	5.66	24	ePc	35 56.60	-3.5	
DOT	5.78	45	eP	35 57.47	-4.3	
SDN	5.98	224	eP	36 00.40	-4.0	
IMA	6.25	358	eP	36 05.30	-3.1	
INK	12.03	37	eP	37 23.00	-2.7	
MBC	20.20	23	eP	39 01.00	-3.6	
	0.4s		5.00nm		4.2mb	
56 obs. associated						

? MAY 26, 1990 07h 34m 40.84± 8.29s
31.856 S ±16.9km 67.459 W ±70.9km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCV	0.92	269	iPd	34 58.30	0.9	
RTLL	1.01	301	iPd	34 59.00	0.2	
ZON	1.08	286	iPc	34 59.50	-0.3	
			eS	35 18.00		
RTCB	1.20	287	iPc	35 01.50	0.0	
			S	35 20.20		
MDZ	1.56	229	eP	35 06.60	-0.1	
			i(S)	35 27.60		
RTBS	1.71	276	ePc	35 08.00	-0.7	
			S	35 32.00		
S.D. = 0.7 on 6 of 6 obs.						

* MAY 26, 1990 07h 59m 45.57± 2.34s
1.135 N ±12.2km 123.300 E ±13.0km
DEPTH = 64.8 ± 24.5 km
4.7mb (3 obs.)
MINAHASSA PENINSULA (265)

KKM	8.59	305	eP	01 50.90	1.1	
MTN	15.92	151	eP	03 26.40	-0.6	
MBL	22.42	189	eP	04 39.20	-0.8	
SNG	23.40	285	eP	04 49.10	-0.5	
WB5	23.54	153	eP	04 50.00	-0.9	
			i	05 03.90		
WRA	23.58	153	Pd	04 50.80	-0.6	
	0.4s		12.30nm		4.7mb	
PSI	24.41	274	ePd	04 59.90	0.5	
GUMO	24.67	59	eP	05 06.80	4.9X	
Z	22s		0.11um		3.3Msz	
			eS	09 32.00		
NANU	24.74	197	iPd	05 02.00	-0.5	
PMG	25.96	114	eP	05 07.50	-6.5X	
QIS	26.83	144	iPc	05 21.10	-0.8	
	0.7s		27.00nm		4.9mb	
			e	05 36.00		
MAT	37.84	20	(P)	06 57.00	-0.7	
ADE	38.70	160	eP	07 06.00	1.0	
BWA	42.50	149	iPc	07 38.70	2.4	
CAN	43.50	149	iPc	07 45.30	0.9	
HYB	46.86	293	eP	08 16.00	4.6X	
GBA	47.04	288	Pc	08 11.20	-1.6	
	0.7s		5.10nm		4.6mb	
MAW	80.16	200	iPd	11 51.10	1.2	
SEK	95.54	242	eP	13 00.40	-5.1X	
FRS	97.49	240	e(P)	13 09.60	-4.4X	
CDF	106.12	321	ePKP	18 14.50	10.3X	
BSF	106.63	321	ePKP	18 16.60	11.4X	
LOR	108.68	321	ePKP	18 25.00	16.0X	
	0.8s		4.05nm			
LBF	108.72	321	ePKP	18 26.40	17.3X	
SMF	108.94	321	ePKP	18 28.00	18.5X	
	0.8s		2.70nm			
SSF	108.98	321	ePKP	18 26.60	17.1X	
	0.8s		4.05nm			
AVF	109.19	321	ePKP	18 28.00	18.1X	
	0.8s		5.35nm			
FLN	110.68	324	ePKP	18 24.40	11.7X	
	0.7s		7.70nm			
GRR	111.07	324	ePKP	18 26.70	13.3X	
	0.7s		8.80nm			
MFF	111.45	322	ePKP	18 34.40	20.2X	
	0.7s		5.50nm			
SIV	164.62	164	PKP	19 33.80	-10.1X	
S.D. = 1.2 on 15 of 31 obs.						

MAY 26, 1990 07h 59m 57.82± 0.13s
41.566 N ± 3.1km 88.688 E ± 2.4km
DEPTH = 0.0km (geophysicist)
5.4mb (66 obs.)
SOUTHERN XINJIANG, CHINA (321)

WMQ	2.37	342	Pn	00 42.30	3.6X	
			Pg	00 42.60		
GTA	8.75	101	Pd	02 07.60	-1.1	
			PP	02 20.60		
KSH	9.91	262	P	02 25.00	0.3	
LSA	12.01	170	P	02 55.00	1.3	
LZH	13.02	110	P	03 04.50	-2.5	
	1.0s		100.00nm		6.0mb	
Z	12s		0.50um			
			pP	03 10.80		
			PP	03 18.00		
GUN	13.82	190	P	03 15.90	-1.8	
GKN	13.93	195	P	03 17.60	-1.4	
PKI	14.22	192	P	03 21.20	-1.8	
DMN	14.23	193	P	03 21.20	-1.9	
NDI	15.89	220	eP	03 42.00	-2.5	
BTO	16.11	86	eP	03 49.00	1.6	
CD2	16.13	126	P	03 50.40	2.9	
HHC	17.23	85	Pc	04 01.00	-0.5	
XAN	17.64	109	P	04 04.30	-2.4	
TIY	18.67	94	eP	04 19.00	-0.4	
Z	11s		0.90um			
KMI	20.12	140	Pd	04 35.50	-1.0	
BJI	20.83	85	eP	04 44.00	0.5	
	0.7s		88.00nm		5.2mb	
QUE	20.90	244	iPd	04 44.50	0.1	
			eS	08 29.50		
GYA	21.13	130	P	04 46.40	-0.3	
TIA	22.72	94	eP	05 03.30	0.8	
MAIO	23.25	267	eP	05 09.00	1.2	
	0.7s		28.59nm		4.9mb	
WHN	23.40	110	Pc	05 10.50	1.4	
CHG	24.31	156	ePd	05 19.90	1.8	
	0.9s		10.08nm		4.5mb	
DL2	25.20	85	P	05 27.60	1.1	
	1.0s		200.00nm		5.8mb	
HYB	25.59	203	iPd	05 30.00	-0.4	
	0.8s		26.90nm		5.0mb	
			e	05 46.50		
BDT	25.81	157	eP	05 34.00	1.7	
NJ2	25.84	102	eP	05 33.00	0.4	
Z	20s		0.20um		3.6Msz	
SNY	25.95	78	Pc	05 33.60	0.1	
	0.8s		100.00nm		5.6mb	
Z	20s		0.60um		4.1Msz	
E	20s		0.60um			
POO	26.23	213	eP	05 33.00	-3.3X	
CN2	26.98	73	P	05 42.80	-0.1	
Z	16s		0.60um		4.2MszX	
NST	27.63	156	eP	06 10.00	20.9X	
GBA	29.53	203	Pd	06 04.30	-1.9	
	0.4s		3.10nm		4.5mb	
MDJ	29.81	70	eP	06 08.00	-0.5	
SUF	41.75	322	iP	07 50.20	0.3	
	0.5s		16.50nm		5.0mb	
SOD	41.79	329	iP	07 50.30	0.1	
HRI	42.29	276	iPc	07 57.00	2.1	
NUR	42.53	319	iP	07 56.20	-0.1	
	0.7s		24.00nm		5.0mb	
MDSJ	42.68	274	Pc	08 00.10	2.1	
SALJ	42.92	275	Pd	08 01.10	1.1	
KFNJ	43.00	275	Pc	08 01.80	1.3	
MASJ	43.03	274	Pc	08 02.30	1.4	
LFK	43.04	280	iP	08 02.90	2.0	
KTK1	43.20	331	iPd	08 01.97	0.2	
DSI	43.36	274	iPc	08 06.00	2.6X	
VRI	44.00	297	ePd	08 09.00	0.5	
PRNI	44.24	273	iPc	08 12.00	1.3	
BCK	44.29	285	iP	08 11.40	0.4	
MLR	44.64	297	eP	08 15.00	1.1	
TRO	44.76	332	iPd	08 14.56	0.2	
ELL	45.08	284	iP	08 17.80	0.3	
UPP	46.09	319	iP	08 24.50	-0.5	
KDZ	46.33	292	eP	08 29.00	1.9	
LOF	46.77	330	iPc	08 29.28	-1.0	
RZN	46.80	293	iPc	08 32.00	0.9	
PGB	46.85	294	eP	08 33.00	1.7	
KRA	47.10	305	eP	08 32.40	-0.7	
			e	08 39.50		
SPC	47.18	304	iP	08 35.30	1.3	
KKB	47.86	293	iPc	08 40.00	0.8	
NSS	47.89	325	iP	08 38.49	-0.7	
HFS	47.97	319	iPc	08 39.20	-0.7	
	0.5s		46.70nm		5.9mb	
VAY	48.42	293	iP	08 44.60	1.0	
SKO	48.94	294	iPd	08 49.00	1.4	
NB2	48.96	321	P	08 46.70	-0.8	
	0.5s		27.60nm		5.5mb	
KSP	49.08	307	iPd	08 49.00	0.5	
			e	10 12.70		
AKSR	49.33	267	eP	08 53.00	2.2	
ZST	49.47	303	eP	08 52.40	0.8	
			e	18 06.80		
AKRL	49.55	267	eP	08 55.00	2.5	

AGAL	49.60	267	eP	08	56.00	3.2X	FRF	58.03	302	iPc	09	54.20	-0.6	COOL	78.07	152	eP	12	00.00	0.1
OHR	49.73	293	eP	08	52.00	-1.7		0.5s		16.75nm			5.3mb		0.6s		13.00nm			5.2mb
AWKL	49.88	267	eP	08	56.00	1.0	LBF	58.05	307	iPc	09	53.80	-1.1	SCH	81.73	346	eP	12	19.00	-0.3
MOL	50.26	323	iPc	08	57.05	-0.3		0.7s		13.25nm			5.1mb	BUL	82.79	235	iP	12	14.30	-11.1X
PRU	50.42	306	P	08	59.10	0.3	EKA	58.09	318	Pd	09	54.40	-0.6				iSn	18	40.00	
			e	09	27.50			0.6s		17.30nm			5.3mb	FFC	83.65	6	iPc	12	28.60	-0.6
BRG	50.47	308	iP	08	59.20	0.0	LMR	58.23	302	iPc	09	55.60	-0.5		0.7s		51.00nm			5.9mb
	1.2s		22.00nm			5.0mb		0.5s		13.10nm			5.2mb	EDM	83.69	13	iPc	12	29.20	-0.3
			i	10	18.00		LRG	58.27	302	iPc	09	56.00	-0.4	PGC	85.79	21	eP	12	41.00	0.9
CLL	50.87	308	iPc	09	02.10	-0.1		0.5s		15.30nm			5.3mb	MCW	85.93	20	P	12	41.70	0.8
	1.0s		30.00nm			5.2mb	SMF	58.30	306	iPc	09	55.70	-0.9	PNT	86.13	18	eP	12	42.00	0.2
			i	09	29.60		SSF	58.30	307	iPc	09	55.70	-0.9		0.8s		11.00nm			5.1mb
PTJ	51.05	301	eP	09	03.60	-0.1		0.5s		17.85nm			5.4mb	BFT	86.14	231	iPc	12	42.50	0.2
KHC	51.31	306	iPc	09	06.30	0.6	AVF	58.52	307	iPc	09	57.40	-0.7		0.5s		35.21nm			5.8mb
	1.2s		7.00nm			4.5mb		0.5s		24.80nm			5.5mb	SES	86.80	12	ePc	12	44.00	-1.1
VBY	51.65	301	e(P)	09	09.20	0.9	PLDF	58.76	306	P	09	59.03	-0.9	GMW	86.98	21	P	12	47.30	1.3
WET	51.73	306	iPd	09	09.50	0.6	BGF	58.94	307	iPc	10	00.40	-0.7	SLR	87.20	232	iPd	12	48.50	1.1
	1.3s		27.00nm			5.0mb		0.5s		24.80nm			5.6mb		1.0s		19.00nm			5.3mb
MOX	51.93	308	iPc	09	10.50	0.2	AGO	59.01	306	P	10	01.22	-0.4	RMW	87.32	20	P	12	48.50	0.8
	1.1s		22.00nm			5.0mb	PYM	59.24	306	P	10	02.85	-0.4	RMQ	87.57	129	iPd	12	50.60	1.6
BHG	52.28	304	eP	09	13.60	0.6	MAF	59.27	306	iPc	10	03.30	-0.1	NEW	87.69	17	P	12	49.60	0.2
	1.1s		47.00nm			5.3mb	LBL	59.35	305	P	10	03.61	-0.2	DPW	87.82	18	P	12	50.80	0.7
GRF	52.53	307	iPc	09	15.70	0.9	TCF	59.46	307	iPc	10	04.40	-0.3	BMW	87.85	21	P	12	51.40	1.1
	0.7s		33.00nm			5.4mb	LDF	59.69	310	iPc	10	05.50	-0.7	LON	87.98	20	P	12	51.40	0.5
Z	20s		0.10um			3.9Msz		0.5s		29.15nm			5.7mb	KIC	88.39	277	Pd	12	53.42	0.2
FVI	52.79	303	P	09	15.00	-1.8	FLN	59.82	310	iPc	10	06.20	-0.9		0.7s		42.50nm			5.8mb
FUR	53.09	305	iPd	09	20.10	1.0		0.4s		19.50nm			5.6mb	TIC	88.41	277	P	12	53.52	0.2
	1.2s		56.00nm			5.4mb	LSF	59.88	307	iPc	10	06.60	-1.0	LIC	88.69	277	P	12	54.80	0.1
ORI	53.17	294	P	09	20.30	0.6		0.5s		13.85nm			5.3mb		0.6s		19.50nm			5.5mb
TDS	53.43	294	P	09	18.90	-2.7X	GRR	60.22	310	iPc	10	09.00	-0.8	VGB	89.39	20	P	12	58.70	1.1
SGO	53.73	295	Pd	09	24.50	0.8		0.5s		35.00nm			5.7mb	CBM	89.50	344	P	12	58.20	0.1
CTI	53.73	303	P	09	23.00	-0.9	CAF	60.22	305	iPc	10	10.00	0.0	LRM	90.97	15	eP	13	05.00	-0.2
MGR	53.75	295	P	09	24.00	0.1		0.6s		13.55nm			5.3mb	BNH	92.36	346	P	13	12.00	0.7
GRI	53.76	293	P	09	24.31	0.3	RJF	60.37	306	iPc	10	10.80	-0.1	HBVT	92.90	347	P	13	14.20	0.4
	0.6s		98.20nm			6.0mb		0.5s		29.15nm			5.7mb	WNY	93.01	348	P	13	14.00	-0.3
OGA	53.78	304	iPd	09	24.40	0.0	LPF	60.51	310	iPc	10	11.00	-0.8	IMW	93.11	14	P	13	16.00	0.8
	0.9s		33.00nm			5.3mb		0.5s		17.50nm			5.4mb	RSSD	93.94	9	P	13	19.30	0.4
DUI	53.81	297	P	09	25.00	0.6	MFF	60.71	308	iPc	10	12.40	-0.8	WVLY	95.56	351	P	13	26.20	0.1
BSS	53.96	296	P	09	25.50	0.0		0.7s		19.85nm			5.4mb	KVN	96.14	21	P	13	29.00	0.0
TNS	53.96	308	ePd	09	25.60	0.2	LPO	60.89	305	iPc	10	14.40	-0.1	TNP	97.28	20	P	13	33.90	-0.3
ARV	54.00	299	P	09	26.00	0.3		0.4s		36.65nm			5.9mb	ALQ	102.60	13	ePdiff	14	00.00	2.0
AQU	54.20	298	P	09	28.20	0.9	LFF	61.03	306	iPc	10	15.50	0.1		0.8s		1.49nm			4.7mb
	0.1s		7.90nm			5.7mb		0.5s		53.95nm			5.9mb	ITR	123.20	290	e(PKP)	18	59.00	0.5
SDI	54.22	297	Pd	09	22.50	-4.9X	MBC	61.10	7	iPc	10	14.80	-0.7	CCH	147.65	311	PKP	19	46.80	3.1X
AZI	54.34	297	P	09	29.00	0.8		0.4s		21.00nm			5.6mb	PT08	147.80	332	iPKPd	19	47.10	3.0X
SOI	54.36	292	P	09	28.50	0.1	DCN	61.17	317	eP	10	15.90	-0.3	ZOBO	147.84	315	PKP	19	42.00	-2.3
ASS	54.37	299	P	09	29.50	0.9		0.7s		61.00nm			5.9mb	NNA	147.93	333	iPKP	19	46.50	2.6X
OSS	54.41	304	ePc	09	28.80	-0.1	EPF	62.27	304	iPc	10	23.00	-0.9		0.8s		27.61nm			
SFI	54.52	300	P	09	30.60	1.1		0.5s		28.45nm			5.8mb	LPB	148.04	314	PKP	19	41.00	-3.5X
SAX	54.66	305	ePc	09	30.40	-0.5	IMA	62.52	24	iPc	10	24.60	-0.7	PT10	148.05	333	ePKP	19	47.00	3.0
MNS	54.67	298	P	09	30.50	-0.2		0.6s		17.70nm			5.5mb	ARE	149.71	320	ePKP	19	48.00	1.1
ATN	54.73	292	P	09	30.40	-0.8	NAI	63.35	242	iP	10	32.00	0.5		S.D. = 1.0		on 219 of 231 obs.			
VDL	54.91	304	ePc	09	32.40	-0.3		1.0s		30.00nm			5.5mb							
RDP	54.92	298	P	09	33.00	0.3	EBR	63.36	302	eP	10	31.00	0.0							
SLE	54.96	306	ePc	09	32.60	-0.2	TTA	63.83	27	P	10	33.70	-0.2	• MAY 26, 1990 08h 05m 57.36± 0.58s						
LLS	55.04	305	ePc	09	32.70	-0.9	FBA	65.10	23	iPc	10	41.40	-0.6	43.682 N ±12.7km 147.658 E ± 8.5km						
ZLA	55.15	305	ePc	09	33.80	-0.4	SVW	65.18	29	ePc	10	43.10	0.4	DEPTH = 33.2km (4 depth phases)						
MEM	55.23	310	P	09	34.40	-0.2	INK	65.99	16	iP	10	46.70	-0.9	4.8mb (20 obs.)						
BDI	55.27	301	P	09	34.90	-0.3		0.7s		65.00nm			6.0mb	KURIL ISLANDS (221)						
CDF	55.42	307	iPc	09	35.50	-0.7	PMR	67.09	26	eP	10	53.50	-1.2							
	0.9s		21.30nm			5.2mb		0.6s		17.10nm			5.5mb	MAT	10.15	229	eP	08	21.00	-2.9X
TMA	55.45	304	ePc	09	35.50	-1.1	TOA	67.66	25	ePc	10	58.20	-0.3		0.7s		9.59nm			5.2mb
PII	55.47	301	P	09	36.00	-0.5	ASMO	68.04	301	eP	11	00.60	-0.7				eS	10	12.00	
VAI	55.62	304	P	09	36.00	-1.5	APHE	68.24	300	iPc	11	01.85	-0.8	BJI	23.65	272	eP	11	05.00	-1.4
BOB	55.69	302	P	09	38.60	0.4	ACHM	68.24	301	eP	11	01.83	-0.7	TIA	24.47	263	eP	11	14.80	0.4
GIB	55.81	293	P	09	37.00	-2.1	AAPN	68.31	301	eP	11	01.95	-1.1	HHC	26.73	276	eP	11	37.00	1.4
BSF	55.97	306	iPc	09	39.50	-0.7	ALOJ	68.42	301	eP	11	02.28	-1.4	BTO	27.92	277	eP	11	46.60	0.1
	0.9s		22.95nm			5.2mb	ATEJ	68.47	301	eP	11	03.16	-0.9	LZH	34.14	272	Pc	12	41.80	0.4
MMK	56.04	304	ePc	09	40.40	-0.5	KDC	68.66	30	eP	11	03.70	-0.9		1.3s		60.00nm			5.4mb
HAU	56.16	307	iPc	09	40.80	-0.6	MBL	68.76	149	eP	11	05.70	0.0	Z	16s		0.40um			4.2MszX
	0.8s		17.45nm			5.1mb	MAL	68.84	301	iPd	11	05.00	-1.1	N	14s		0.30um			
SNF	56.26	310	iP	09	42.64	0.6	MID	69.62	27	e(P)	11	10.70	0.2				pP	12	50.00	28km
DOU	56.26	310	iPd	09	42.20	0.1	BCAO	72.26	260	iPd	11	27.00	-0.1	CD2	36.77	265	iPc	13	03.20	-0.4
DIX	56.37	304	ePc	09	43.30	0.0		0.6s		14.00nm			5.3mb		1.0s		30.00nm			5.1mb
FAI	56.40	292	P	09	43.50	0.2	AVE	72.88	299	iP	11	30.50	-0.1	GYA	37.26	256	eP	13	07.20	-0.7
EMS	56.68	304	ePc	09	44.90	-0.5	MEKA	73.25	152	eP	11	32.60	0.0	FBA	40.94	36	eP	13	40.00	2.2
PGF	57.00	300	iPc	09	47.50	-0.2	FRB	73.48	350	eP	11	32.00	-1.5		1.0s		7.50nm			4.4mb
	0.5s		20.40nm			5.4mb	PMG	73.75	119	iP	11	36.00	0.3	WMO	42.46	292	Pc	13	51.50	0.8
LPG	57.05	304	iPc	09	48.30	0.1	TIO	74.27	297	iP	11	39.00	0.1	N	16s		0.69um			
	0.5s		68.35nm			5.9mb	WB5	74.34	136	iPc	11	39.00	-0.1	CHG	47.62	254	eP	14	33.00	0.8
LPL	57.05	304	iPc	09	48.40	0.2				e	16	43.20		CHTO	47.62	254	eP	14	33.00	0.9
DOI	57.21	303	P	09	47.20	-1.9	WRA	74.38	136	Pc	11	39.30	0.0		0.9s		3.84nm			4.4mb
BNI	57.31	303	P	09	49.40	-0.4		0.4s		19.40nm			5.5mb	GUN	51.39	274	P	15	00.90	-0.5
SBF	57.39	302	iPc	09	50.10	-0.2	SIT	75.01	23	eP	11	43.30	0.8		0.6s		20.00nm			5.3mb
	0.5s		51.75nm			5.8mb	MUN	77.45	156	iPd	11	56.60	0.1	PKI	51.92	274	P	15	04.80	-0.7
LOR	57.99	307	iPc	09	53.50	-0.9	QIS	77.73	132	iPc	11	57.90	-0.3	DMN	52.12	274	P	15	06.50	-0.4
	0.5s		25.50nm			5.5mb		0.7s		19.00nm			5.3mb	GKN	52.23	275	P	15	07.10	-0.5
														SOD	60.67	338	eP	16	06.00	-1.1

26d 08h

SUF	64.15	334	iP	16	28.80	-1.5			eS	17	50.18		EBAN	6.17	89	iPmc	22	37.50	-1.1
	0.5s		5.00nm			4.9mb	TTA	2.38	308	eP	17	16.66	-0.8			eSm	23	43.70	
WRA	64.48	194	P	16	33.00	0.2	GLI	2.41	104	eP	17	18.52	0.7	GUD	6.23	66	iPn	22	38.60	-1.0
	0.5s		0.50nm			3.9mb				eS	17	51.46					eSm	23	44.00	
FFC	65.54	37	eP	16	39.00	-0.4	NCA	2.45	77	eP	17	20.48	2.1	AFC	6.49	97	iPmd	22	42.40	-0.8
	0.8s		9.00nm			4.9mb	MCK	2.59	31	eP	17	21.05	0.8				eSm	23	52.70	
CMB	66.25	60	eP	16	44.00	-0.3	VZW	2.62	98	eP	17	21.63	0.8	IFR	7.11	130	iPmc	22	50.00	-2.0X
NUR	66.27	333	eP	16	41.00	-2.9X	VLZ	2.71	96	eP	17	22.61	0.6				iSm	24	02.50	
GBA	66.45	266	P	16	45.00	-0.7	CDD	2.76	199	eP	17	25.03	2.2	EVIA	7.16	85	iPmd	22	50.50	-2.2X
	0.5s		2.10nm			4.5mb	TOA	2.77	76	eP	17	25.25	2.3				eSm	24	08.40	
KVN	67.04	57	eP	16	50.00	0.5	KLU	2.86	88	eP	17	25.05	0.8	EMEL	7.57	111	ePn	22	56.70	-1.5
	1.0s		1.00nm			3.9mb	NEA	3.31	22	eP	17	29.94	-0.5	ENIJ	7.58	97	ePnc	22	56.90	-1.5
FRB	69.14	16	eP	17	00.00	-1.8	PAX	3.33	62	eP	17	32.72	1.8				eSn	24	20.20	
BW06	69.67	50	eP	17	04.00	-1.8	WRH	3.41	29	eP	17	31.57	-0.4	ETOR	7.81	68	ePn	23	00.20	-1.5
NB2	69.80	339	P	17	04.80	-1.2	DDM	3.58	48	eP	17	37.75	3.4				eSn	24	24.50	
	0.6s		2.90nm			4.5mb	CCB	3.63	29	eP	17	34.19	-0.8	EALH	8.06	90	ePn	23	04.20	-0.9
KSP	76.81	331	eP	17	47.30	0.2	HDA	3.65	36	eP	17	35.70	0.3				eSn	24	30.70	
CLL	77.54	333	iP	17	50.80	-0.3	FBA	3.85	27	eP	17	37.41	-0.8	ECRI	8.17	55	ePn	23	05.40	-1.3
	1.1s		18.00nm			5.0mb	BALM	4.63	92	eP	17	49.38	0.0				eSn	24	32.60	
			e	18	02.00	37km		40 obs. associated						TAF	8.19	112	iPnd	23	06.00	-1.0
PRU	78.14	331	P	17	54.70	0.3	----------										iSn	24	34.00	
			e	18	05.60	35km	MAY 26, 1990 09h 21m 05.66± 0.62s							TIO	8.19	153	iPn	23	05.00	-2.1X
EKA	78.30	343	P	17	56.00	0.8	38.306 N ± 3.5km 11.626 W ± 3.8km										i	24	20.00	
	1.9s		26.40nm			4.9mb	DEPTH = 13.6 ± 2.9 km										iSn	24	26.00	
GRF	79.52	333	eP	18	02.60	0.6	4.7mb (14 obs.) 4.2Msz (1 obs.)							ECHE	8.40	78	ePn	23	08.00	-1.9X
			e	18	13.00	33km	NORTH ATLANTIC OCEAN (402)										eSn	24	37.60	
MEM	80.33	336	P	18	17.60	11.4X	mbLg 4.6 (MDD). MD 4.6 (RBA).							ACU	8.81	85	iPd	23	14.00	-1.5
DOU	81.20	337	P	18	24.30	13.5X	Felt (IV) in central Portugal							EROQ	9.63	71	ePn	23	24.70	-2.1X
LDF	83.85	339	eP	18	33.30	8.7X	and (III) in the Porto area.										eSn	25	07.60	
	0.8s		7.40nm			4.9mb								EBR	9.69	71	ePn	23	26.00	-1.6
LPG	84.65	334	eP	18	29.60	0.5	LIS	1.99	77	eP	21	40.40	1.2				e	24	58.00	
	0.8s		4.05nm			4.7mb				S	22	01.70					eSg	25	08.00	
MAF	85.28	337	eP	18	33.00	1.2	MTH	2.00	72	iPc	21	41.00	1.6	CFTV	10.08	192	iP	23	27.80	-5.2X
	0.8s		6.70nm			4.9mb				iS	22	02.00		EPF	10.24	59	Pn	23	34.10	-1.2
TCF	85.33	337	eP	18	32.40	0.3	MOE	2.58	84	iPd	21	48.50	0.8				Sn	25	20.20	
	0.8s		3.35nm			4.6mb				iS	22	16.50		CTFE	10.54	203	eP	23	32.00	-7.3X
CAF	86.61	336	eP	18	39.70	1.2	COI	3.13	52	P	21	55.00	-0.5	GGC	10.70	199	eP	23	39.00	-2.5X
	0.8s		10.05nm			5.1mb				S	22	24.00		TBT	10.94	210	iP	23	40.00	-4.8X
LPO	87.09	337	eP	18	42.00	1.3	FAR	3.17	113	P	21	56.80	0.7	LFF	11.38	50	Pn	23	48.80	-1.9X
	0.8s		6.70nm			4.9mb				S	22	31.30					Sn	25	45.00	
S.D. = 1.0 on 35 of 40 obs.							FIG	3.24	111	P	21	58.00	0.9	LPO	11.52	52	Pn	23	50.40	-2.3X
----------										S	22	32.30					Sn	25	48.00	
& MAY 26, 1990 08h 16m 36.80s							PTO	3.67	39	iPnc	22	03.20	0.1	ETER	11.75	66	ePn	23	54.00	-1.9X
61.542 N 151.891 W										iPg	22	16.00		MFF	11.85	42	Pn	23	55.00	-2.1X
DEPTH = 3.1km										iSn	22	42.00					Sn	25	56.50	
SOUTHERN ALASKA (2)							MTE	3.80	55	P	22	05.40	0.3	RJF	12.04	50	Pn	23	57.30	-2.3X
<AGS-P>.										S	22	44.50					Sn	25	59.70	
							EVAL	3.92	99	iPnd	22	06.90	0.1	CAF	12.19	53	Pn	23	58.60	-3.1X
NCG	0.19	223	iP	16	41.03	0.4				eSn	22	48.00					Sn	26	04.40	
			iS	16	43.65		EZAM	4.45	29	iPnc	22	13.30	-0.9	LPF	12.40	35	Pn	24	02.40	-2.1X
CRP	0.30	205	iP	16	43.33	0.4	EPLA	4.65	66	ePn	22	17.00	-0.2				Sn	26	07.60	
SPU	0.37	192	iP	16	44.59	0.4				eSn	23	06.30		LSF	12.55	47	Pn	24	04.20	-2.4X
			iS	16	49.93		GIBL	4.74	106	eP	22	23.50	5.0X				Sn	26	13.20	
SKT	0.47	21	iP	16	46.62	0.4	CNIL	4.84	112	eP	22	20.50	0.7	GRR	12.75	34	Pn	24	06.40	-2.8X
			eS	16	53.43		ALJ	5.06	107	eP	22	23.50	0.5				Sn	26	15.00	
SUA	0.56	98	iP	16	48.83	0.9	EHOR	5.06	94	iPnd	22	22.30	-0.5	TCF	12.97	48	Pn	24	10.00	-2.1X
			eS	16	56.39					eSn	23	16.70					Sn	26	20.40	
NKA	0.86	158	eP	16	56.26	2.3	LIJA	5.13	104	eP	22	23.50	-0.5	LBL	13.07	53	P	24	11.46	-2.0X
PWA	0.97	83	iP	16	56.07	0.2	STS	5.14	26	ePn	22	22.10	-1.9	MAF	13.14	48	Pn	24	11.80	-2.6X
			eS	17	09.46					e	23	15.80					Sn	26	28.30	
RDT	1.00	195	eP	16	55.42	-1.1	PLAT	5.17	113	eP	22	24.50	0.1	PYM	13.17	51	P	24	12.13	-2.7X
CUT	1.16	41	eP	16	58.97	-0.1	EJIF	5.24	109	ePnd	22	25.40	-0.1	FLN	13.20	34	Pn	24	10.80	-4.3X
			eS	17	14.13					eSn	23	24.00					Sn	26	25.20	
PMS	1.16	104	eP	16	59.26	0.1	EPRU	5.25	103	iPnd	22	25.20	-0.4	LDF	13.23	35	Pn	24	10.00	-5.6X
			eS	17	14.43					eSn	23	22.00					Sn	26	25.00	
RED	1.21	201	eP	16	58.99	-1.0	ERUA	5.33	39	ePn	22	26.00	-0.7	AGO	13.39	50	P	24	15.71	-2.0X
			eS	17	14.56					eSn	23	23.20		BGF	13.48	48	Pn	24	16.80	-2.1X
SLKM	1.32	141	iP	17	01.91	0.1	OJEN	5.34	113	eP	22	26.00	-0.9	PLDF	13.65	51	P	24	19.75	-1.4
			eS	17	19.64		NKM	5.74	118	iPnd	22	32.50	0.0	AVF	13.90	48	Pn	24	22.10	-2.3X
PLRM	1.32	87	eP	17	01.73	-0.1				iSn	23	28.50		SMF	14.11	49	Pn	24	25.70	-1.5
			eS	17	19.57					i	23	29.50		SSF	14.14	47	Pn	24	26.20	-1.3
GHO	1.43	79	eP	17	03.90	0.1				i	23	32.00		ECP	14.35	13	eP	24	28.60	-1.6
			eS	17	24.05		RBA	5.78	136	iPn	22	32.00	-1.0				eS	26	53.30	
NNL	1.53	169	eP	17	06.74	1.6				iSn	23	28.50		LBF	14.37	48	Pn	24	28.80	-1.8
SML	1.72	79	eP	17	08.06	0.3				i	23	29.00		LOR	14.45	47	Pn	24	31.20	-0.4
HUR	1.79	35	eP	17	09.36	0.6	MAL	5.95	103	iPnd	22	35.00	-0.4	LRG	14.54	64	Pn	24	32.80	0.0
			eS	17	33.75					iSg	23	37.30		LMR	14.61	64	Pn	24	32.00	-1.8
SVW	1.85	258	eP	17	09.02	-0.7	AVE	6.06	144	iPn	22	35.80	-1.1	FRF	14.77	63	Pn	24	35.60	-0.2
			eS	17	32.96					i	22	41.50		ETA	14.88	13	eP	24	36.00	-1.1
SEW	1.87	139	eP	17	10.47	0.5				i	23	28.00					eS	27	06.90	
			eS	17	35.27					iSn	23	36.50		BNI	15.23	58	P	24	49.00	7.0X
CNPM	2.05	171	eP	17	13.05	0.5	EMON	6.07	31	ePn	22	35.30	-1.8	RRL	15.26	58	P	24	51.21	8.8X
KTH	2.07	12	eP	17	13.61	0.7				eSn	23	38.80		DCN	15.34	10	eP	24	50.00	6.9X
			eS	17	41.49		TOL	6.10	73	ePn	22	35.00	-2.6X				eS	27	28.00	
PDB	2.09	214	eP	17	14.74	1.6				ePb	22	52.00		PZZ	15.34	60	P	24	51.72	8.3X
			eS	17	40.08					eSn	23	40.00		STV	15.42	61	P	24	52.34	7.9X
RND	2.34	36	eP	17	17.14	0.2				eSg	24	18.50		LPL	15.43	56	Pn	24	45.80	1.1

LPG	15.44	56	Pn	24	46.00	1.2
DOI	15.44	60	Pd	24	51.80	7.1X
ENR	15.48	62	P	24	53.06	7.9X
RSP	15.65	58	P	24	52.54	5.1X
LSD	15.69	57	P	24	55.31	7.3X
IMI	15.73	63	P	24	53.26	4.9X
ROB	15.81	62	P	24	53.57	4.1X
FIN	16.02	62	P	24	53.67	1.5
CKI	16.13	61	P	25	00.00	6.5X
HAU	16.27	48	Pn	24	53.00	-2.3
ORX	16.29	57	P	24	55.93	0.3
PCP	16.34	61	P	24	58.59	2.4
DOU	16.52	39	P	24	56.80	-1.5
			iS	27	45.20	
UCC	16.86	37	P	25	13.00	10.4X
			S	27	54.00	
VAI	16.89	57	P	25	07.00	4.0X
BOB	17.03	61	P	25	09.50	4.6X
MDI	17.49	58	P	25	22.50	12.0X
MEM	17.54	40	Pc	25	12.10	1.0
			S	28	12.20	
PII	17.55	65	P	25	15.00	3.7X
ENN	17.60	39	eP	25	11.00	-0.9
	1.2s	52.00nm			4.5mb	
BDI	17.67	64	Pc	25	15.40	2.5
MME	17.77	64	Pd	25	17.10	2.8
EKA	17.97	16	P	25	20.00	3.6X
	0.9s	12.50nm			4.0mb	
SFI	18.53	65	P	25	24.00	0.6
TNS	18.60	44	ePgc	25	26.60	2.2
			eSg	25	39.10	
WTS	18.80	37	eP	25	28.00	1.3
	1.1s	40.00nm			4.5mb	
CTI	18.86	58	Pc	25	28.50	0.9
MNS	18.95	70	Pd	25	28.50	-0.1
ASS	19.00	68	P	25	30.00	0.7
ARV	19.25	67	P	25	33.00	0.6
AQU	19.48	70	Pd	25	36.60	1.5
AZI	19.49	71	P	25	35.00	-0.1
SDI	19.76	72	Pc	25	38.00	-0.1
FVI	19.77	57	Pc	25	39.20	1.2
GRF	19.91	48	eP	25	40.30	0.7
Z	20s	0.80um				
			ic	25	43.50	
			e	25	53.00	
MCT	19.91	84	Pd	25	41.00	1.1
FAI	20.01	85	P	25	42.00	1.3
GIB	20.16	83	Pc	25	42.10	-0.3
DUI	20.24	72	P	25	43.50	0.3
VOY	20.37	60	eP	25	44.50	0.0
BSS	20.51	75	P	25	45.50	-0.4
MOX	20.57	46	iPc+	25	50.00	3.5X
	1.2s	28.00nm			4.5mb	
Z	24s	1.10um			4.1MszX	
CEY	20.67	61	ePd	25	47.70	0.1
MNO	20.69	83	P	25	48.00	-0.1
LJU	20.81	60	ePd	25	49.00	0.0
SGO	20.90	75	P	25	52.00	2.1
KHC	21.09	51	eP	25	52.50	0.6
Z	15s	1.00um			4.3MszX	
N	16s	1.00um				
MGR	21.11	76	P	25	51.50	-0.6
VBY	21.20	62	ePd	25	53.50	0.6
ATN	21.26	82	Pd	25	54.10	0.5
CLL	21.65	45	eP	25	58.00	0.5
			e	26	11.00	
SOI	21.73	82	P	25	58.00	-0.4
TDS	21.75	78	P	25	58.50	-0.1
PTJ	21.75	61	eP	25	57.70	-0.9
ZAG	21.75	61	eP	26	00.00	1.5
ORI	21.80	77	Pd	25	59.40	0.3
PRU	21.99	49	P	26	02.60	1.7
	1.5s	29.00nm			4.5mb	
Z	18s	0.80um			4.2Msz	
N	18s	0.90um				
E	18s	0.50um				
			e	26	13.00	
BRG	21.99	47	iPc	26	02.40	1.5
	1.3s	23.00nm			4.4mb	
SOP	22.54	56	iPd	26	07.90	1.6
ZST	23.02	55	iP	26	11.70	0.6
			i	26	24.90	
KSP	23.35	49	iPd	26	13.40	-0.8
			i	26	16.40	
			e	26	29.50	
SRO	23.72	57	iP	26	19.40	1.6
BEO	24.76	64	eP	26	28.00	0.0
OHR	25.02	73	eP	26	30.80	0.2
	1.4s	78.00nm			5.2mb	
			e	26	48.00	
SPC	25.28	54	eP	26	33.70	0.6
			e	26	48.70	
KRA	25.31	52	ePd	26	32.90	-0.2
	1.0s	56.00nm			5.2mb	
			e	26	47.00	
SKO	25.45	71	ePd	26	34.50	-0.1
			i	26	36.50	
			i	26	51.50	
VAY	26.34	73	eP	26	42.80	0.0
KKB	26.68	71	iPd	26	46.00	0.0
VTS	26.73	70	iPd	26	46.00	-0.6
MMB	27.19	72	eP	26	51.00	0.4
RZN	27.91	71	iPd	26	58.00	0.6
KDZ	28.44	71	eP	27	02.00	0.1
NUR	31.76	34	eP	27	29.00	-2.2
KIC	32.41	167	P	27	36.60	-0.7
SUF	33.45	31	iP	27	45.80	-0.1
	0.6s	5.60nm			4.7mb	
SOD	36.07	24	iP	28	08.20	-0.1
KEV	37.57	21	eP	28	21.00	0.2
DSI	38.78	85	e(P)	28	30.00	-1.5
PRNI	38.98	87	eP	28	34.00	0.8
MBH	39.13	88	eP	28	35.00	0.6
SCH	40.22	313	eP	28	44.00	0.8
MSL	43.05	75	ePc	29	07.00	0.4
BCAO	43.48	133	iPd	29	10.00	-0.2
	0.5s	13.00nm			5.0mb	
SLY	45.11	75	ePc	29	24.00	0.8
BHD	45.13	79	ePc	29	24.00	0.6
ITR	53.08	214	eP	30	24.60	-0.2
MAIO	55.29	68	eP	30	41.00	0.0
MBC	57.18	344	eP	30	53.50	-0.5
	1.1s	3.00nm			4.2mb	
BAO	63.57	220	eP	31	39.00	0.7
QUE	63.66	71	eP	31	39.70	0.7
TUL	64.83	297	e(P)	31	45.70	-0.6
	0.9s	3.70nm			4.6mb	
INK	65.26	340	eP	31	47.00	-1.6
BUL	69.33	140	iPc	32	02.80	-12.2X
LRM	70.25	313	eP	32	36.70	16.2X
WMO	70.51	49	P	32	22.50	0.6
N	20s	0.36um				
FBA	71.56	342	eP	32	29.00	1.2
IMA	71.91	345	eP	32	31.00	0.9
NDI	72.02	67	eP	32	30.50	-0.6
ALQ	72.69	301	eP	32	35.50	0.2
LON	74.84	318	eP	32	47.30	-0.1
ZOBO	75.81	236	P	32	54.00	0.2
Z	24s	0.20um			4.3MszX	
		LR		57	12.00	
GKN	77.74	64	P	33	03.30	-0.8
	0.8s	19.00nm			5.2mb	
DMN	78.30	64	P	33	06.80	-0.5
	0.8s	17.00nm			5.2mb	
GUN	78.67	63	P	33	08.80	-0.6
GTA	80.36	47	eP	33	18.20	0.1
CD2	88.53	51	P	34	00.40	1.1
XAN	89.32	46	P	34	04.00	1.0
WB5	145.33	68	iPKPd	40	44.00	-1.0
WRA	145.35	68	PKPd	40	44.10	-0.9
	0.5s	14.10nm				

S.D. = 1.0 on 143 of 193 obs.

% MAY 26, 1990 09h 46m 30.45± 1.95s
36.949 N ±19.2km 28.552 E ±10.9km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.28	311	iPg	46	36.50	0.1
			iSg	46	43.50	
ELL	1.11	100	iPn	46	50.80	-0.5
KHL	1.57	29	ePn	46	58.00	-0.5
BCK	1.70	72	iPn	47	01.40	1.0
IZM	1.77	325	ePn	47	06.30	4.9X
ALT	2.44	30	ePn	47	11.00	0.0

S.D. = 0.9 on 5 of 6 obs.

& MAY 26, 1990 10h 33m 10.22s
58.154 N 142.643 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AGS-P>.

YKU	2.06	46	eP	33	40.17	-5.1
YAH	2.26	11	eP	33	43.64	-4.8
			eS	34	08.70	
PCA	2.30	31	eP	33	43.84	-5.1
			eS	34	08.97	
WAX	2.31	357	iP	33	43.56	-5.4
MID	2.31	305	eP	33	44.38	-4.5
HQN	2.35	55	eP	33	44.90	-4.6
BCPM	2.38	39	eP	33	45.22	-4.7
RAGM	2.47	336	eP	33	46.27	-4.9
TGL	2.61	358	eP	33	47.79	-5.5
SGAM	2.70	332	eP	33	49.51	-4.9
CVA	2.88	328	eP	33	51.74	-5.2
BALM	2.90	3	eP	33	51.90	-5.4
			eS	34	25.30	
HIN	3.00	320	eP	33	53.16	-5.5
VLZ	3.53	329	eP	33	59.39	-6.7
VZW	3.53	327	eP	33	58.34	-7.8
GLI	3.55	322	eP	33	59.94	-6.6
KLU	3.74	335	eP	34	01.93	-7.3
TOA	4.34	337	eP	34	12.36	-5.4
SLKM	4.54	305	eP	34	11.45	-9.1
GHO	4.81	322	eP	34	19.10	-5.4

20 obs. associated

MAY 26, 1990 11h 44m 58.57± 0.31s
50.161 N ± 3.4km 8.585 E ± 2.3km
DEPTH = 23.7 ± 2.7 km
GERMANY (543)
ML 3.8 (GRF), 3.8 (FUR). Felt (V) at Frankfurt. Also felt at Koblenz.

TNS	0.11	306	iPgd	45	03.10	-0.1
			iSg	45	05.60	
BNS	1.21	312	iPnd	45	21.50	1.5
	0.2s	1690.00nm				
			iPg	45	22.10	
			Sg	45	38.80	
GWF	1.34	208	Pg	45	22.00	0.1
			Sg	45	42.76	
STU	1.45	164	iPnd	45	23.60	0.2
	0.8s	253.73nm				
			ePg	45	26.00	
JCK	1.63	303	iPnd	45	28.00	2.0
			iS	45	48.60	
			iS	45	49.40	
WLF	1.65	253	iPc	45	27.64	1.3
			iS	45	53.31	
STR	1.67	199	Pn	45	25.98	-0.6
			Sg	45	52.73	
MEM	1.71	286	iP	45	28.73	1.5
			iS	45	53.30	
GRF	1.77	104	iPnc	45	29.80	1.7
			ePg	45	31.60	
			e(Sn)	45	41.70	
			eSg	45	52.40	
WLS	1.93	205	Pn	45	30.50	0.1
CDF	1.95	207	Pn	45	30.35	-0.4
			Sg	46	01.31	
MOX	2.00	75	ePn	45	30.50	-0.9
			iPg	45	34.00	
			iSg	45	59.00	
HOF	2.12	85	ePn	45	33.00	-0.2
FEL	2.32	190	Pn	45	35.76	-0.3
			Sg	46	12.20	
SLE	2.40	181	ePc	45	36.70	-0.4
MOF	2.50	203	Pn	45	37.78	-0.9
			Sg	46	19.23	
DOU	2.57	270	iPc	45	40.90	1.3
			i	45	46.30	
			i	45	48.20	
VITF	2.59	222	Pn	45	39.44	-0.4
HAU	2.61	215	Pn	45	39.40	-0.8
			Pg	45	49.60	
			Sn	46	10.80	
			Sg	46	22.00	
BSF	2.61	208	Pn	45	39.20	-1.1
			Pg	45	49.40	
			Sg	46	22.00	
FUR	2.67	137	iPnc	45	41.50	0.5
ZLA	2.68	183	ePc	45	40.60	-0.7
UCC	2.77	285	iP	45	57.00	14.6X
SNF	2.78	279	P	45	44.20	1.7
			S	46	21.50	
SAX	2.96	170	ePc	45	45.30	0.0
WET	2.97	108	ePn	45	45.50	0.3
CLL	3.03	66	iPn	45	44.70	-1.4

26d 11h

			iPg	45	54.60	
			iSn	46	19.70	
			iSg	46	33.50	
LLS	3.31	175	ePc	45	50.20	0.0
KHC	3.40	106	iPn	45	51.50	0.1
			Sg	46	42.40	
BRG	3.49	76	iPn	45	52.00	-0.7
			i	45	59.00	
OSS	3.63	163	ePd	45	55.10	0.3
OGA	3.67	153	iPnd	45	55.60	0.2
VDL	3.72	171	ePd	45	56.50	0.4
BHG	3.74	129	ePn	45	56.30	0.2
SCE	3.75	145	iPnd	45	56.60	0.1
PRU	3.84	90	Pn	45	56.60	-0.9
			Pg	46	08.60	
			Sg	46	56.00	
TMA	4.06	177	ePd	46	01.00	0.1
MMK	4.13	186	ePc	46	02.70	0.7
DIX	4.16	191	ePd	46	01.90	-0.5
KMR	4.21	118	iPn-	46	02.40	-0.4
			iPg	46	19.40	
			iSn	46	51.60	
			iSg	47	11.40	
EMS	4.24	196	ePc	46	03.40	-0.1
LOR	4.26	229	Pn	46	01.90	-1.7
			Pg	46	20.80	
			Sn	46	51.00	
VAI	4.30	178	P	46	05.00	0.9
LBF	4.41	226	Pn	46	04.00	-1.7
			Sn	46	54.60	
			Sg	47	20.00	
MDI	4.45	170	P	46	07.30	1.1
FVI	4.53	140	Pc	46	08.20	0.8
SSF	4.58	229	Pn	46	06.20	-1.9
			Pg	46	25.80	
			Sn	46	57.60	
			Sg	47	24.20	
CTI	4.60	152	Pc	46	08.20	-0.3
SMF	4.73	224	Pn	46	08.00	-2.2X
			Sn	47	01.30	
			Sg	47	29.70	
LSD	4.80	192	P	46	12.61	1.1
LPL	4.81	196	Pn	46	11.40	-0.2
LPG	4.83	196	Pn	46	11.60	-0.2
AVF	4.85	228	Pn	46	09.60	-2.2X
			Sn	47	04.50	
			Sg	47	31.30	
KSP	4.97	79	ePn	46	12.50	-1.0
			iPg	46	29.20	
			iSg	47	32.00	
RSP	5.09	191	P	46	17.23	1.8
BGF	5.26	229	Pn	46	15.00	-2.6X
			Sn	47	11.80	
BNI	5.27	195	P	46	18.50	0.5
PLDF	5.35	220	Pn	46	15.89	-3.2X
RRL	5.38	194	P	46	21.85	2.2X
BOB	5.43	173	P	46	20.30	0.1
VOY	5.45	137	ePn	46	22.10	1.6
			eSn	47	20.90	
AGO	5.50	224	Pn	46	18.11	-3.0X
PCP	5.62	180	P	46	24.00	1.1
MAF	5.63	228	Pn	46	20.20	-2.8X
TRI	5.65	140	eP	46	23.30	0.1
LJU	5.73	134	ePn	46	24.00	-0.3
			eSn	47	27.00	
DOI	5.73	190	P	46	24.50	0.0
CKI	5.74	182	P	46	24.90	0.4
PZZ	5.75	191	P	46	26.16	1.4
TCF	5.76	230	Pn	46	22.00	-2.7X
			Pg	46	48.20	
			Sg	48	00.90	
PYM	5.79	222	Pn	46	22.00	-3.2X
SOP	5.81	112	ePn	46	26.80	1.4
ROB	5.89	185	P	46	27.54	0.9
LDF	5.90	258	Pn	46	26.00	-0.7
CEY	5.91	136	ePn	46	27.00	0.1
			eSn	47	33.00	
ZST	5.92	106	eP	46	27.20	0.2
	0.6s		0.05nm		2.4mb	
			e	47	39.30	
			i	47	53.50	
FIN	5.96	183	P	46	29.24	1.6
ENR	5.99	188	P	46	27.39	-0.7
FLN	6.08	260	Pn	46	28.20	-0.9
LBL	6.11	218	Pn	46	25.97	-3.6X
LSF	6.13	233	Pn	46	27.30	-2.6X
			Sg	48	12.20	

BDI	6.25	167	P	46	32.30	0.5
IMI	6.27	185	P	46	33.54	1.5
SBF	6.35	188	Pn	46	30.60	-2.6X
GRR	6.43	258	Pn	46	33.40	-0.8
			Sn	47	40.00	
V8Y	6.47	134	e(Pn)	46	34.00	-0.7
			e(Sn)	47	45.00	
PII	6.58	168	P	46	36.00	-0.2
ZAG	6.60	128	eP	46	34.70	-1.8
LPF	6.67	255	Pn	46	36.00	-1.5
			Sn	47	47.20	
RJF	6.80	227	Pn	46	36.20	-3.2X
MFF	6.82	242	Pn	46	37.40	-2.2X
CAF	6.85	223	Pn	46	37.00	-3.1X
LRG	6.88	194	Pn	46	40.20	-0.3
LMR	6.98	193	Pn	46	41.00	-0.9
LFF	7.44	228	Pn	46	45.90	-2.5X

S.D. = 1.0 on 78 of 95 obs.

? MAY 26, 1990 11h 49m 57.77± 5.91s
44.061 N ±34.4km 6.405 E ±29.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

FRF	0.53	161	Pg	50	08.40	-0.1
			Sg	50	17.70	
LRG	0.61	183	Pg	50	09.70	-0.3
			Sg	50	20.20	
LMR	0.73	174	Pg	50	12.40	0.3
			Sg	50	24.60	
SBF	0.77	105	Pg	50	12.80	0.0
			Sg	50	24.80	

S.D. = 0.4 on 4 of 4 obs.

? MAY 26, 1990 11h 52m 31.69± 5.49s
44.010 N ±31.8km 6.409 E ±29.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

FRF	0.48	159	Pg	52	41.30	-0.2
			Sg	52	50.80	
LRG	0.56	184	Pg	52	42.60	-0.4
			Sg	52	53.10	
LMR	0.68	174	Pg	52	45.70	0.5
			Sg	52	57.40	
SBF	0.76	101	Pg	52	46.50	0.0
			Sg	52	58.00	

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

% MAY 26, 1990 11h 55m 13.55± 2.24s
36.933 N ±21.0km 28.530 E ±12.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.28	316	iPg	55	19.50	0.0
			iSg	55	26.50	
ELL	1.12	99	iPn	55	34.30	-0.4
KHL	1.60	29	ePn	55	41.00	-1.0
BCK	1.73	72	ePn	55	44.50	0.6
ALT	2.46	30	ePn	55	55.00	0.6

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

MAY 26, 1990 12h 31m 35.42± 1.08s
36.505 N ± 8.8km 70.440 E ± 6.9km
DEPTH = 192.5 ± 14.2 km
4.5mb (7 obs.)
HINDU KUSH REGION (718)

QUE	6.94	206	eP	33	16.70	0.9
			eS	34	33.80	
MAIO	8.83	272	eP	33	40.00	-0.5
			eS	35	12.00	
NDI	9.67	142	iPd	33	51.20	-0.1
	0.7s		89.04nm		5.2mb	
			eS	35	31.50	
GKN	14.69	121	P	34	54.90	-0.5
DMN	15.26	121	P	35	02.90	0.3
PKI	15.49	121	P	35	05.40	-0.1
GUN	15.61	119	P	35	06.90	-0.1
POO	18.15	170	eP	35	35.80	-0.2
HYB	20.32	157	eP	35	57.80	-0.4
	1.0s		40.00nm		4.9mb	
GBA	23.65	163	Pd	36	30.70	0.2
	0.7s		10.50nm		4.6mb	
NUR	37.56	324	eP	38	18.00	-14.2X

	0.6s		10.40nm			
			i	38	32.00	
SUF	37.68	328	iP	38	34.00	0.8
	0.5s		7.30nm		4.6mb	
SOD	39.54	335	iP	38	49.30	0.8
HFS	42.78	322	eP	39	13.30	-1.8
	0.4s		3.30nm		4.2mb	
NB2	44.11	323	P	39	25.60	-0.2
	0.8s		7.40nm		4.3mb	
MBC	67.35	3	eP	42	11.50	0.5
	1.0s		5.00nm		4.2mb	
INK	73.97	9	eP	42	51.00	0.3
FBA	74.59	16	ePd	42	54.50	0.1

S.D. = 0.7 on 17 of 18 obs.

---

* MAY 26, 1990 12h 41m 36.86± 2.36s
41.948 N ±26.9km 32.502 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KAS	1.11	121	ePg	41	58.00	0.3
			iSg	42	14.00	
BBTK	2.11	175	ePg	42	12.00	-0.8
			eSg	42	38.00	
GPA	2.34	226	ePn	42	17.00	0.9
HRT	2.41	243	ePn	42	17.10	0.1
YLV	2.73	241	iPn	42	21.80	0.1
CTT	3.16	257	ePn	42	26.90	-0.7

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

% MAY 26, 1990 12h 55m 40.99± 0.88s
39.327 N ±10.6km 28.271 E ± 8.1km
DEPTH = 23.8 ± 9.6 km
TURKEY (366)

EDC	1.07	343	ePn	56	00.30	-0.1
KGT	1.35	327	iPn	56	04.80	0.4
KHL	1.40	135	ePn	56	05.00	-0.2
ALT	1.45	100	ePn	56	06.00	0.0
YLV	1.50	34	iPn	56	05.80	-0.9
EZN	1.58	289	ePn	56	07.80	0.0
HRT	1.84	35	ePn	56	11.00	-0.5
GPA	1.84	58	ePn	56	13.00	1.4

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

? MAY 26, 1990 12h 58m 31.66±15.39s
36.589 N ±81.8km 28.180 E ±103.km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.55	9	iPg	58	43.00	0.1
			iSg	58	48.00	
ELL	1.40	83	iPn	58	57.30	0.0
KHL	2.03	31	ePn	59	06.00	-0.4
BCK	2.11	65	ePn	59	07.70	0.1
ALT	2.90	31	ePn	59	19.00	0.2

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

% MAY 26, 1990 13h 10m 37.07± 1.97s
39.435 N ±17.3km 28.253 E ±13.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.96	342	ePg	10	55.30	0.0
			eSg	11	08.30	
KGT	1.25	325	iPn	11	00.30	0.0
YLV	1.42	37	iPn	11	02.80	-0.2
ALT	1.49	104	ePn	11	04.00	0.0
HRT	1.76	38	ePn	11	08.00	0.2

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

MAY 26, 1990 13h 25m 56.72± 0.23s
12.412 N ± 4.4km 121.888 E ± 5.3km
DEPTH = 35.8km (2 depth phases)
5.0mb (19 obs.) 4.6Msz (13 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

BAG	4.17	342	eP	27	00.40	0.5
DAV	6.42	145	eP	27	30.00	-1.4
KKM	8.45	222	eP	28	06.00	6.2X
TSM	8.97	205	eP	28	16.00	9.1X
OIZ	13.33	301	eP	29	04.70	-1.3
N	15s		2.50um			
E	18s		3.90um			
SSE	18.61	358	Pd	30	14.00	0.7
	3.0s		410.00nm		5.1mb	
N	15s		1.10um			

E 15s 1.20um
S 33 36.00
SS 33 59.00
WHN 19.35 340 eP 30 18.50 -3.7X
Z 16s 2.90um
N 15s 3.60um
eS 33 59.00
NJ2 19.75 352 Pd 30 28.00 1.5
4.5s 400.00nm 5.0mb X
Z 20s 0.90um 4.7MszX
N 15s 1.50um
E 14s 0.60um
S 34 01.50
GYA 20.00 317 P 30 29.00 -0.4
Z 18s 2.80um 4.7Msz
N 16s 2.30um
E 16s 2.60um
pP 30 39.00 41km
S 34 14.00
LOE 20.10 287 eP 30 19.80 -10.5X
NST 21.35 281 eP 30 45.10 1.9
SNG 21.59 258 eP 30 45.00 -0.6
eS 34 48.70
IPM 22.04 251 ePd 30 53.50 3.4X
KMI 22.07 308 eP 30 53.00 2.4
3.0s 400.00nm 5.3mb
Z 20s 3.40um 4.8Msz
N 11s 0.90um
pP 31 01.50 31km
sP 31 06.00
GUMO 22.42 84 eP+ 30 55.70 1.8
1.8s 950.70nm 5.9mb X
GUA 22.46 85 eP 30 55.20 0.9
Z 22s 2.07um 4.5Msz
BDT 22.63 285 eP 30 58.00 2.1
CHG 22.98 289 ePc 31 00.90 1.5
1.0s 34.25nm 4.8mb
TIA 24.08 351 eP 31 10.30 0.4
Z 20s 1.50um 4.5Msz
E 14s 0.80um
S 35 26.00
XAN 24.56 333 P 31 13.50 -1.1
N 15s 1.60um
S 35 34.00
PSI 24.70 249 eP 31 17.00 0.9
CD2 24.89 321 eP 31 16.80 -1.0
Z 18s 2.60um 4.8Msz
N 17s 2.50um
S 35 38.00
DL2 26.39 360 eP 31 31.00 -0.6
Z 20s 0.60um 4.1Msz
TIY 26.58 343 eP 31 33.00 -0.5
Z 18s 3.40um 4.9Msz
N 17s 3.10um
S 36 04.00
MTN 26.72 160 eP 31 39.20 4.4X
0.6s 35.00nm 5.2mb
BJI 27.98 351 eP 31 48.00 1.9
1.5s 39.00nm 4.9mb
Z 20s 0.54um 4.1Msz
N 15s 0.61um
eS 36 24.00
MAT 28.16 29 (P) 31 45.00 -2.8
1.5s 16.67nm 4.5mb
Z 20s 1.06um 4.4Msz
eS 36 39.00
LZH 28.64 328 P 31 51.60 -0.8
4.0s 240.00nm 5.2mb X
Z 22s 2.30um 4.7Msz
N 15s 1.50um
E 15s 1.70um
pP 32 05.00 53kmX
sP 32 09.00
eS 36 35.00
SNY 29.34 3 Pc 31 59.00 0.6
Z 16s 1.50um 4.7MszX
N 15s 0.80um
E 14s 0.90um
HHC 29.74 344 eP 32 01.00 -1.2
N 17s 2.40um
E 16s 1.10um
eS 36 58.00
BTO 29.96 342 eP 32 06.00 2.0
N 17s 1.90um
E 17s 2.80um
CN2 31.43 5 eP 32 15.00 -1.8
Z 22s 1.00um 4.4Msz

N 16s 1.70um
E 16s 0.50um
eS 37 19.00
MDJ 32.77 10 eP 32 28.00 -0.5
N 16s 1.00um
PMG 33.17 130 eP 32 32.00 -0.3
GTA 33.24 328 eP 32 32.70 -0.1
Z 20s 3.80um 5.1Msz
E 15s 1.70um
eS 37 46.00
LSA 33.30 306 P 32 32.60 -1.3
MBL 33.42 183 eP 32 34.00 -0.4
WB5 34.36 159 iPc 32 41.10 -1.5
WRA 34.41 159 Pd 32 42.60 -0.4
0.7s 22.90nm 5.2mb
GUN 36.98 300 P 33 04.90 -0.3
OIS 37.11 152 iPc 33 05.20 -0.6
0.8s 22.00nm 5.1mb
PKI 37.28 299 P 33 06.80 -0.9
DMN 37.55 299 P 33 09.30 -0.6
GKN 38.06 300 P 33 13.20 -0.8
WARB 38.64 173 iPc 33 19.70 1.0
0.4s 27.00nm 5.4mb
HYB 42.10 282 eP 33 47.00 -0.4
GBA 43.28 277 Pc 33 57.10 0.1
0.6s 2.30nm 4.1mb
POO 46.59 284 eP 34 31.50 8.0X
RMQ 46.66 146 eP 34 24.00 0.1
BRS 49.63 143 iP 34 47.00 0.0
ADE 49.75 162 iPc 34 48.20 0.4
0.8s 34.33nm 5.4mb
BWA 52.96 152 eP 35 13.60 1.5
BFD 53.01 159 iPd 35 12.30 -0.1
0.8s 21.00nm 5.2mb
CAN 53.97 153 eP 35 19.70 0.2
CNB 54.13 152 eP 35 20.00 -0.7
TOO 54.43 157 eP 35 23.20 0.3
0.8s 25.00nm 5.3mb
DZM 55.53 128 iPd 35 31.10 -0.1
MAIO 60.56 305 eP 36 06.00 -0.3
TTA 75.44 28 eP 37 39.50 0.8
IMA 76.49 25 ePc 37 45.50 0.9
1.1s 14.10nm 4.9mb
PMR 78.71 29 eP 37 56.60 -0.1
1.0s 20.00nm 5.1mb
FBA 79.00 26 eP 37 58.20 -0.1
TOA 80.04 29 eP 38 05.20 1.1
KEV 80.14 339 iP 38 05.80 1.5
0.8s 16.10nm 5.1mb
SOD 80.66 337 iP 38 07.20 0.0
NUR 82.84 330 eP 38 18.00 -0.6
INK 83.87 21 eP 38 24.00 0.2
MBC 84.56 12 eP 38 27.00 -0.1
1.0s 6.00nm 4.7mb
VRI 84.76 316 ePd 38 28.00 -0.7
KRA 88.11 321 eP 38 53.90 8.9X
HFS 88.15 332 eP 38 43.70 -1.3
0.4s 2.00nm 4.8mb
Z 17s 0.41um 4.9MszX
LR 19 18.00
NB2 88.93 333 P 38 46.60 -2.2
1.2s 8.40nm 4.9mb
KSP 90.08 322 eP 38 53.00 -1.3
e 39 18.00
PRU 91.43 322 eP 39 10.00 9.5X
Z 18s 0.60um 5.1Msz
e 39 30.50
BRG 91.46 323 eP 39 13.80 13.2X
1.3s 12.00nm
KHC 92.32 321 eP 39 14.80 10.1X
KIC 123.77 286 PKP 44 53.40 -0.1
TIC 123.93 287 PKP 44 54.20 0.4
LIC 124.08 286 PKP 44 54.00 -0.1
ZOBO 169.57 113 PKP 46 04.30 1.4
S.D. = 1.1 on 69 of 80 obs.

MAY 26, 1990 14h 22m 40.89± 0.29s
5.134 N ± 4.5km 31.769 E ± 5.4km
DEPTH = 10.0km (geophysicist)
5.0mb (24 obs.) 4.6Msz (5 obs.)
SUDAN (557)

LWI 7.90 202 iPd 24 37.20 -1.6
iS 26 05.20
AAE 7.95 60 eP 24 38.00 -1.6
NAI 8.11 142 iP 24 42.80 1.0
1.0s 30.00nm 5.5mb

BCAO 13.21 268 iPd 25 46.40 -4.8X
0.8s 42.00nm 5.6mb
id 27 15.00
id 28 54.00
AWKL 18.20 2 eP 26 56.00 0.7
AGAL 18.22 3 eP 26 56.00 0.4
AKSR 18.44 4 eP 26 58.00 -0.3
AKRL 18.44 3 eP 26 59.00 0.7
ASW 18.87 3 iPc 27 03.00 -0.6
eS 30 58.00
KRI 21.93 186 iP 27 19.80 -16.8X
iSn 31 07.00
HLW 24.60 359 eP 28 03.50 1.1
eS 32 16.00
MBH 24.68 6 eP 28 05.00 1.8
PRNI 25.26 7 iPc 28 09.50 0.6
BUL 25.31 187 iP 27 58.20 -11.3X
iSn 33 40.20
DSI 26.52 7 eP 28 20.00 -0.5
SEK 33.50 187 iPd 29 23.00 0.1
S 34 26.00
BLF 34.47 189 eP 29 31.50 0.3
FRS 35.23 190 iPc 29 37.00 -0.6
S 35 55.00
TAB 35.36 20 eP 29 40.00 1.2
KIC 36.34 274 P 29 47.80 0.5
TIC 36.62 274 P 29 50.20 0.6
LIC 36.63 274 P 29 51.80 2.1
Z 21s 0.39um 4.2Msz
VAY 36.96 348 eP 29 43.00 -9.1X
OHR 37.15 346 eP 29 54.50 0.8
SKO 37.82 347 eP 29 59.90 0.6
MAIO 40.12 36 eP 30 18.00 -0.7
VRI 40.81 355 ePd 30 24.50 0.4
QUE 41.47 49 eP 30 31.00 1.1
SRO 44.06 347 iP 30 51.00 0.4
e 48 11.20
ZST 44.70 346 eP 30 55.80 0.0
e 48 03.20
SPC 44.98 349 eP 30 59.00 0.7
LPG 45.73 335 eP 31 03.60 -0.8
0.9s 9.85nm 4.8mb
GBA 45.77 76 Pc 31 04.70 0.0
1.1s 9.00nm 4.7mb
KRA 45.86 349 eP 31 04.70 -0.3
KHC 46.48 344 iPc 31 10.10 0.1
1.1s 20.50nm 5.1mb
TOL 47.29 322 eP 31 14.00 -2.5
KSP 47.36 347 eP 31 16.50 -0.4
CAF 47.38 331 eP 31 17.60 0.5
1.0s 10.00nm 4.9mb
GRF 47.68 342 eP 31 19.00 -0.4
Z 18s 0.20um 4.1Msz
e 31 26.00
SMF 47.88 334 eP 31 20.30 -0.7
0.8s 11.40nm 5.0mb
BRG 47.97 345 e(P) 31 21.20 -0.4
LBF 48.08 335 eP 31 22.20 -0.4
0.8s 4.70nm 4.6mb
MAF 48.12 333 eP 31 23.20 0.3
0.9s 8.20nm 4.8mb
AVF 48.20 334 eP 31 22.80 -0.7
0.8s 6.70nm 4.8mb
TCF 48.33 333 eP 31 24.80 0.3
1.0s 12.00nm 4.9mb
SSF 48.34 334 eP 31 23.80 -0.8
0.8s 5.35nm 4.7mb
LOR 48.35 335 eP 31 24.00 -0.7
0.8s 6.70nm 4.8mb
MOX 48.40 343 eP 31 25.00 0.0
CLL 48.61 344 eP 31 26.00 -0.6
LSF 48.61 332 eP 31 26.60 -0.1
1.0s 12.00nm 4.9mb
GRR 51.29 333 eP 31 47.20 0.1
0.9s 9.85nm 4.7mb
GKN 55.03 59 P 32 14.00 -1.5
1.1s 73.00nm 5.6mb
DMN 55.34 60 P 32 16.60 -1.2
1.1s 66.00nm 5.6mb
NUR 55.51 356 eP 32 17.00 -1.1
PKI 55.59 60 P 32 18.00 -1.8
1.1s 27.00nm 5.2mb
GUN 56.07 60 P 32 21.80 -1.4
HFS 56.57 349 ePKP 32 26.00 0.1
0.5s 1.00nm 4.1mb
SUF 57.61 357 iP 32 32.30 -0.8
0.6s 16.30nm 5.2mb

26d 14h

NB2	57.89	348	P	32 33.80	-1.4	
	0.9s		13.40nm		5.0mb	
SOD	62.23	358	iP	33 03.70	-1.1	
WMQ	62.27	43	eP	33 05.00	-0.6	
Z	21s		2.27um		5.3Msz	
			PP	35 24.00		
KEV	64.61	358	iP	33 21.60	1.3	
	0.7s		12.00nm		5.2mb	
GTA	69.84	50	eP	33 53.70	-0.4	
CD2	71.93	59	eP	34 07.00	0.1	
LZH	72.52	54	eP	34 10.60	0.2	
	1.8s		51.00nm		5.3mb	
Z	20s		0.40um		4.7Msz	
E	14s		0.30um			
GYA	74.21	64	P	34 20.40	0.0	
XAN	76.50	56	P	34 33.50	0.3	
HHC	78.94	50	P	34 47.80	1.1	
TIY	79.50	53	eP	34 52.00	2.3	
Z	18s		0.70um		5.0Msz	
N	11s		0.20um			
			SKS	44 56.00		
BJI	82.44	50	eP	35 07.00	2.0	
	1.7s		35.00nm		5.2mb	
TIA	83.25	54	eP	35 10.00	0.7	
NJ2	84.84	58	eP	35 19.60	2.2	
CN2	89.14	46	eP	35 35.00	-3.1X	
S.D. = 1.0		on	68 of	73 obs.		

? MAY 26, 1990 14h 39m 51.57± 1.40s
4.835 N ± 9.3km 33.638 E ±41.6km
DEPTH = 10.0km (geophysicist)
4.6mb (7 obs.)
SUDAN (557)

LWI	8.53	215	iPc	41 59.30	1.0	
KRI	21.89	190	iP	44 46.00	-0.9	
			iSn	48 56.00		
BUL	25.31	191	iP	45 20.00	-0.2	
			iSn	50 06.20		
LPL	46.82	334	eP	48 22.00	-1.6	
	0.8s		4.05nm		4.5mb	
KHC	47.32	342	iP	48 28.40	1.1	
SMF	48.97	333	eP	48 41.20	1.1	
	1.0s		6.00nm		4.6mb	
MAF	49.24	332	eP	48 41.20	-1.0	
BGF	49.36	332	eP	48 43.80	0.7	
LOR	49.43	334	eP	48 42.00	-1.7	
	0.8s		5.35nm		4.6mb	
TCF	49.46	332	eP	48 42.90	-1.0	
	0.8s		4.05nm		4.5mb	
NUR	55.96	355	eP	50 04.00	31.9X	
HFS	57.23	348	eP	49 42.00	0.8	
	0.6s		1.10nm		4.1mb	
SUF	58.02	356	iP	49 51.70	5.0X	
	0.6s		6.30nm		4.8mb	
NB2	58.57	347	P	49 52.40	1.7	
	0.8s		6.30nm		4.8mb	
S.D. = 1.3		on	12 of	14 obs.		

% MAY 26, 1990 14h 48m 03.42± 0.38s
42.822 N ± 3.3km 12.799 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.27	338	P	48 08.80	-0.3	
			eSg	48 13.40		
MNS	0.45	191	Pc	48 12.00	-0.5	
			iSg	48 18.80		
AQU	0.65	136	P	48 15.90	-0.5	
			eSg	48 26.00		
ARV	0.68	9	P	48 16.50	-0.5	
			eSg	48 28.70		
AZI	0.96	150	P	48 22.00	0.4	
			eSg	48 35.70		
RMP	1.01	184	P	48 22.40	-0.2	
			eSg	48 36.90		
CRE	1.02	323	P	48 23.90	1.2	
			eSg	48 40.00		
RDP	1.06	183	P	48 23.40	-0.1	
			eSg	48 39.00		
MAO	1.28	252	P	48 27.60	0.4	
SFI	1.30	328	P	48 28.00	0.6	
			eSn	48 46.00		
PGD	1.31	324	P	48 28.00	0.2	
			eSn	48 46.30		
SDI	1.35	146	P	48 28.50	0.3	
			eSn	48 47.20		
DUI	1.69	133	P	48 34.00	0.8	
BDI	2.03	308	Pd	48 36.70	-1.4	
FVI	3.77	360	P	49 02.50	-0.3	
MNO	5.10	163	P	49 37.50	15.7X	
			eSg	49 41.30		
S.D. = 0.7		on	15 of	16 obs.		

MAY 26, 1990 14h 58m 56.76± 0.65s
31.636 S ± 5.4km 68.651 W ± 6.3km
DEPTH = 9.9 ± 4.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.09	345	iPd	58 59.50	0.1	
RTCB	0.20	320	iPc	59 01.00	-0.1	
RTCV	0.24	157	e(P)	59 00.70	-1.3	
RTLL	0.34	27	iPc	59 03.90	0.1	
CFA	0.35	85	iPd	59 04.30	0.3	
RTBS	0.68	268	iPd	59 06.80	-3.5X	
MDZ	1.26	188	eP	59 21.20	1.0	
			eS	59 32.70		
JACH	1.95	237	iPd	59 28.50	-1.8	
			iS	00 00.30		
FCH	2.18	219	iP	59 32.80	-1.1	
PEL	2.29	228	iPc	59 34.50	-0.7	
			iS	00 07.00		
ROCH	2.40	236	iPc	59 36.80	-0.2	
			iS	00 10.00		
SAN	2.48	223	eP	59 38.00	0.1	
			i	00 08.50		
			i	00 10.90		
PCH	2.53	218	eP	59 39.00	0.4	
			i	00 12.50		
			i	00 14.50		
TACH	2.79	223	iP	59 43.50	1.2	
			iS	00 18.50		
CHCH	2.84	216	iPc	59 45.20	2.1	
			i	00 20.50		
IHA	2.89	241	eP	59 44.00	0.4	
			eS	00 20.00		
LCCH	3.07	233	iPd	59 47.50	1.3	
			iS	00 27.00		
LNV	3.28	224	eP	59 47.50	-1.7	
			iS	00 28.00		
S.D. = 1.2		on	17 of	18 obs.		

? MAY 26, 1990 15h 51m 30.86± 6.88s
30.958 S ±57.1km 68.858 W ±14.3km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.50	138	iPc	51 41.50	0.0	
RTCB	0.53	175	iPc	51 43.00	1.0	
ZON	0.61	165	iPc	51 43.00	0.0	
			eS	51 58.00		
RTBS	0.87	216	ePc	51 46.80	0.2	
RTCV	0.94	163	e(P)	51 47.60	-0.2	
MDZ	1.92	180	eP	52 00.70	-1.2	
			e	52 26.00		
			i(S)	52 30.70		
S.D. = 0.9		on	6 of	6 obs.		

---

* MAY 26, 1990 16h 18m 14.01± 1.56s
5.569 N ±13.2km 95.553 E ±14.7km
DEPTH = 132.5 ± 18.0 km
3.9mb (2 obs.)
NORTHERN SUMATERA (706)

PSI	4.41	130	iPd	19 19.80	-0.3	
SNG	5.28	72	eP	19 41.30	9.4X	
IPM	5.54	100	ePd	19 36.00	0.6	
	0.4s		15.30nm		4.6mb X	
NNT	8.11	30	eP	20 10.00	-0.3	
GBA	19.55	295	P	22 34.00	0.2	
	0.6s		1.80nm		3.6mb	
WB5	45.79	125	iPd	26 24.00	-0.3	
WRA	45.80	125	Pc	26 24.60	0.2	
	0.5s		3.10nm		4.3mb	
S.D. = 0.6		on	6 of	7 obs.		

% MAY 26, 1990 16h 43m 06.46± 2.05s
37.195 N ±16.9km 28.148 E ±17.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.12	119	iPg	43 08.00	-1.6	
IZM	1.39	330	ePn	43 32.40	0.5	
ELL	1.48	107	iPn	43 34.30	1.1	
KHL	1.57	44	ePn	43 33.50	-1.0	
BCK	1.96	82	ePn	43 41.90	1.7	
ALT	2.42	39	ePn	43 46.00	-0.7	
S.D. = 1.6		on	6 of	6 obs.		

MAY 26, 1990 16h 48m 48.50± 2.95s
37.602 N ±17.3km 20.603 E ±27.2km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
ML 3.5 (ATH).

VLS	0.57	359	ePg	48 59.20	-0.9	
			eSg	49 07.00		
ITM	1.14	111	ePg	49 08.50	-1.3	
VLI	2.06	115	ePg	49 26.40	2.8X	
KEK	2.20	344	ePg	49 33.50	7.9X	
ATH	2.49	81	ePb	49 31.70	1.9	
NEO	2.67	50	ePn	49 31.20	-1.1	
OHR	3.51	2	ePn	49 45.00	0.8	
VAM	3.63	126	ePn	49 46.20	0.2	
VAY	4.01	22	ePn	49 51.70	0.4	
SKO	4.41	8	ePn	50 13.70	16.7X	
S.D. = 1.5		on	7 of	10 obs.		

MAY 26, 1990 17h 34m 47.95± 0.54s
36.815 N ± 5.5km 28.612 E ± 5.5km
DEPTH = 11.9 ± 3.2 km
4.1mb (8 obs.)
DODECANESE ISLANDS (369)
Felt in the Mugla area, Turkey.

YER	0.41	321	iPg	34 54.60	-1.9	
ELL	1.04	93	iPn	35 08.30	0.8	
KSL	1.05	131	eP	35 10.00	2.5	
			eS	35 33.50		
KHL	1.67	25	iPn	35 17.20	0.0	
SMG	1.67	303	eP	35 17.70	0.6	
			eS	35 49.70		
BCK	1.71	67	iPn	35 20.40	2.7X	
IZM	1.91	326	iPn	35 20.40	-0.2	
ALT	2.53	27	ePn	35 29.50	-0.1	
EZN	3.50	330	iPn	35 43.40	0.1	
EDC	3.57	351	ePn	35 44.10	-0.2	
PPCY	3.59	121	eP	35 47.00	2.4	
GPA	3.71	20	ePn	35 46.00	-0.4	
KGT	3.77	345	iPn	35 46.50	-0.7	
YLV	3.79	9	ePn	35 47.00	-0.5	
VAM	3.84	250	eP	35 53.00	4.9X	
GBZT	4.02	9	ePn	36 36.70	46.1X	
HRT	4.08	11	ePn	35 52.00	0.4	
CSS	4.25	114	eP	35 55.00	1.0	
LFK	4.27	110	ePn	35 56.20	1.9	
CTT	4.33	358	iPn	35 55.20	0.2	
BBTK	4.45	46	eP	35 57.00	0.2	
			eS	36 21.00		
VLI	4.56	270	eP	36 04.50	6.2X	
ITM	5.36	276	eP	36 15.50	5.7X	
KDZ	5.43	334	iP	36 10.00	-0.6	
RZN	5.73	329	eP	36 14.00	-1.0	
MMB	6.09	323	eP	36 20.00	0.0	
VAY	6.51	316	ePn	36 30.50	4.7X	
HRI	6.83	119	eP	36 30.00	-0.5	
PVL	6.87	340	eP	36 30.00	-0.9	
VTS	7.11	326	eP	36 36.00	1.5	
BURJ	7.48	125	Pd	36 39.20	-0.4	
SALJ	7.56	127	Pd	36 39.10	-1.5	
KFNJ	7.65	128	Pd	36 41.00	-0.8	
DSI	7.67	131	eP	36 41.00	-1.1	
MASJ	7.77	129	Pd	36 42.20	-1.4	
MKRJ	7.84	130	Pd	36 43.10	-1.5	
MBH	8.77	141	eP	36 56.00	-1.4	
KHC	16.47	323	eP	38 45.40	5.1X	
MOX	18.43	324	e(P)	39 07.00	2.3	
LPG	18.56	305	eP	39 08.20	1.5	
	0.8s		6.05nm		3.8mb	
CDF	19.44	313	eP	39 18.00	0.8	
	0.9s		6.55nm		3.9mb	
SMF	20.86	306	eP	39 31.80	-0.2	
	0.8s		16.80nm		4.5mb	
LOR	21.06	307	eP	39 34.40	0.3	
	0.8s		5.35nm		4.0mb	
SSF	21.21	307	eP	39 35.80	0.2	
	0.8s		6.70nm		4.1mb	
AVF	21.22	306	eP	39 35.70	0.0	
	0.8s		5.35nm		4.0mb	
GBA	49.22	105	Pc	43 37.50	-0.7	
	0.8s		5.10nm		4.6mb	

```
MBC     65.39 352 eP     45 31.50  -0.4
        0.6s      1.00nm          4.2mb
      S.D. = 1.1  on  40 of  47 obs.
-------------------------------------------
*  MAY 26, 1990  18h 18m 35.85± 0.77s
   5.021 N ± 9.7km   31.973 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 SUDAN                              (557)

AAE      7.83  59 eP     20 32.50  -0.4
LWI      7.88 204 iPd    20 33.00  -0.5
                 iS     22 02.00
NAI      7.90 142 iP     20 34.20   0.5
        1.0s     28.00nm          5.4mb
BCAO    13.41 268 ePd    21 48.90   0.1
        0.4s      3.00nm          4.7mb
KHC     46.65 343 eP     27 06.50   0.2
      S.D. = 0.6  on   5 of   5 obs.
-------------------------------------------
*  MAY 26, 1990  18h 43m 23.82± 1.13s
   39.979 N ±10.5km   62.824 E ±22.1km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 TURKMEN SSR                        (340)

MAIO     4.51 217 iPnc   44 31.80   0.0
        0.8s     51.24nm
                 eSn     45 30.00
QUE     10.33 160 eP     45 53.00   0.0
NUR     31.24 324 eP     49 41.00  -1.1
SUF     31.57 328 eP     49 46.00   0.9
HFS     36.32 320 eP     50 26.20   0.2
        0.5s      2.10nm          4.3mb
NB2     37.69 321 P      50 31.60  -6.0X
        0.7s      2.20nm          4.1mb
      S.D. = 1.0  on   5 of   6 obs.
-------------------------------------------
%  MAY 26, 1990  18h 44m 08.77± 1.72s
   41.651 N ±16.9km   12.987 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

RDP      0.23 298 Pd     44 13.80   0.1
                 eSg     44 17.50
RMP      0.27 307 P      44 14.20  -0.2
                 eSg     44 19.10
AZI      0.48  45 P      44 18.30  -0.1
                 eSg     44 25.70
SDI      0.62  85 Pc     44 21.40   0.1
                 eSg     44 30.50
MNS      0.77 343 P      44 24.00   0.2
                 eSg     44 35.00
      S.D. = 0.2  on   5 of   5 obs.
-------------------------------------------
%  MAY 26, 1990  18h 57m 11.56± 1.36s
   39.039 N ± 9.9km   26.826 E ±15.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

IZM      0.73 152 iPg    57 25.40  -0.5
                 eSg     57 36.40
EZN      0.88 334 ePg    57 29.00   0.6
KGT      1.46  14 iPn    57 37.40  -0.5
EDC      1.53  31 iPn    57 38.10  -0.9
ALT      2.56  89 ePn    57 55.00   1.2
      S.D. = 1.2  on   5 of   5 obs.
-------------------------------------------
?  MAY 26, 1990  19h 05m 49.71± 1.20s
   35.157 N ±18.3km   141.361 E ±22.4km
   DEPTH =  33.0km  (normal)
   4.4mb (  2 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

MAT      2.91 299 iPc    06 34.80   0.0
                 (S)     07 20.00
GBA     61.04 266 Pd     16 02.70   0.0
        0.6s      3.60nm          4.7mb
WARB    62.58 195 iPd    16 12.80   0.0
SUF     69.64 334 eP     16 57.00  -0.4
NB2     75.90 337 P      17 34.80   0.4
        0.7s      1.60nm          4.1mb
      S.D. = 0.4  on   5 of   5 obs.
-------------------------------------------
&  MAY 26, 1990  19h 41m 39.68s
   58.371 N          154.861 W
   DEPTH =  96.8km
 ALASKA PENINSULA                   ( 12)
```

```
        <AGS-P>.

CDD      0.85  48 iP     41 57.53  -1.0
MCNL     0.86  18 iP     41 57.79  -0.9
                 eS     42 11.38
AUL      1.26  36 iP     42 02.25  -0.9
AUE      1.26  37 eP     42 02.23  -0.9
                 eS     42 19.63
KDC      1.41 115 eP     42 03.08  -1.8
                 eS     42 21.71
PDB      1.46  13 iP     42 04.36  -1.3
                 eS     42 22.88
XLV      1.96  55 eP     42 09.60  -2.5
CNPM     2.21  57 eP     42 13.30  -2.1
                 eS     42 38.81
RED      2.32  27 eP     42 15.25  -1.7
NNL      2.48  46 eP     42 17.85  -1.3
RDT      2.54  29 eP     42 18.08  -1.9
SVW      2.77 352 eP     42 21.04  -2.1
NKA      3.01  36 eP     42 25.47  -0.8
SPU      3.16  26 eP     42 26.35  -2.0
SLKM     3.20  46 eP     42 25.55  -3.3
CRP      3.21  24 eP     42 27.56  -1.6
SEW      3.28  56 eP     42 26.24  -3.7
NCG      3.33  23 eP     42 28.73  -2.1
SUA      3.73  32 eP     42 33.72  -2.6
PMS      3.93  41 eP     42 35.91  -3.1
SKT      3.98  23 eP     42 37.13  -2.5
MTU      4.05  63 eP     42 37.32  -3.2
PWA      4.13  35 eP     42 38.35  -3.3
PLRM     4.33  39 eP     42 39.92  -4.4
SDN      4.33 228 eP     42 43.07  -1.4
GHO      4.53  39 eP     42 42.86  -4.3
MID      4.55  73 eP     42 44.01  -3.3
CUT      4.64  27 eP     42 44.67  -4.0
GLI      4.68  54 eP     42 44.30  -4.9
HIN      4.73  61 eP     42 46.28  -3.7
                 eS     43 35.88
SML      4.75  41 eP     42 46.15  -4.1
CVA      5.13  61 eP     42 51.36  -4.1
SGAM     5.37  62 eP     42 54.91  -3.9
RAGM     5.59  64 eP     42 58.10  -3.7
WAX      6.48  66 eP     43 10.14  -4.0
CYK      6.58  70 eP     43 12.30  -3.1
BCPM     7.98  72 eP     43 30.65  -4.0
HON      8.34  76 eP     43 35.01  -4.6
       38 obs. associated
-------------------------------------------
   MAY 26, 1990  19h 55m 14.21± 0.68s
   38.906 N ± 6.7km   25.835 E ± 6.7km
   DEPTH =  33.0km  (normal)
 AEGEAN SEA                         (365)
      ML 3.7 (ATH).

EZN      0.99  22 iPn    55 32.60   0.8
IZM      1.23 114 ePn    55 35.40   0.2
SMG      1.43 146 eP     55 36.50  -1.6
                 eS     55 58.30
ATH      1.91 241 eP     55 45.20   0.2
KGT      1.91  36 iPn    55 46.40   1.3
NEO      2.07 282 eP     55 49.70   2.3
EDC      2.13  47 ePn    55 49.00   0.9
RDO      2.25 354 eP     55 49.20  -0.6
KDZ      2.76 353 iP     55 56.00  -1.1
RZN      2.91 343 eP     55 59.00  -0.4
CTT      3.00  41 iPn    56 00.80   0.3
MMB      3.13 330 eP     56 02.00  -0.3
YLV      3.19  58 ePn    56 15.00  11.7X
VAY      3.48 315 ePn    56 14.50   7.2X
KKB      3.63 325 eP     56 09.00  -0.4
PGB      3.85 341 eP     56 11.00  -1.7
      S.D. = 1.2  on  14 of  16 obs.
-------------------------------------------
   MAY 26, 1990  20h 39m 52.14± 0.66s
   31.664 S ± 4.2km   68.610 W ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA       (137)

ZON      0.13 334 iPd    39 55.50   0.1
RTCV     0.21 163 iPd    39 56.00  -0.7
RTCB     0.24 318 eP     39 56.90  -0.4
RTLL     0.35  20 iPd    39 59.70   0.2
RTBS     0.72 270 iPd    40 02.80  -3.5X
MDZ      1.23 189 eP     40 31.10  16.0X
JACH     1.96 238 iPd    40 24.50  -1.4
                 iS     40 56.00
FCH      2.18 220 iPd    40 29.00  -0.3
                 i      40 58.20
PEL      2.29 229 iP     40 30.30  -0.3
                 iS     41 03.00
ROCH     2.42 237 eP     40 32.70   0.2
                 iS     41 05.50
SAN      2.49 224 eP     40 33.50   0.2
                 iS     41 05.50
                 i      41 08.00
PCH      2.53 219 iPc    40 35.20   1.2
                 iS     41 08.50
TACH     2.79 224 iP     40 32.70  -5.0X
                 iS     41 05.50
CHCH     2.84 217 eP     40 39.50   1.1
                 i      40 40.70
                 iS     41 16.00
IHA      2.90 241 eP     40 39.50   0.3
                 iS     41 16.50
LCCH     3.08 233 iP     40 41.70   0.0
                 iS     41 22.60
                 i      41 23.50
LNV      3.28 225 iPc    40 44.50  -0.1
                 iS     41 25.50
      S.D. = 0.7  on  14 of  17 obs.
-------------------------------------------
?  MAY 26, 1990  21h 09m 52.15± 1.26s
   40.040 S ±25.6km   88.750 W ±22.0km
   DEPTH =  10.0km  (geophysicist)
 WEST CHILE RISE                    (686)

LNV     15.12  72 iPc    13 27.10  -0.2
CHCH    15.68  73 eP     13 34.00  -0.8
                 i      13 39.00
ROCH    15.90  69 eP     13 43.20   5.4X
SAN     15.91  71 eP     13 42.00   4.3X
PCH     15.93  72 eP     13 42.00   3.9X
PEL     16.05  70 iPd    13 40.70   1.2
LPB     29.51  43 P      16 00.00   0.7
                 LR     24 14.00
ZOBO    29.71  43 Pc     16 06.90   5.6X
                 LR     24 34.00
BAO     42.95  67 eP     17 52.50  -0.7
ITR     54.45  69 eP     19 21.30  -0.7
                 e      19 27.70
FRS     87.48 127 iPd    22 42.50   1.3
SEK     89.90 128 eP     23 06.20  13.1X
PRY     90.82 127 eP     23 06.00   8.7X
SLR     92.18 126 iPc    23 03.50  -0.1
BFT     93.29 128 iPc    23 08.50  -0.3
GBA    151.00 151 PKPc   29 40.60  -0.5
        0.7s      3.30nm
      S.D. = 0.9  on  10 of  16 obs.
-------------------------------------------
   MAY 26, 1990  22h 22m 02.93± 0.45s
   53.439 N ± 8.9km   163.567 W ± 5.5km
   DEPTH =  33.0km  (normal)
   5.0mb ( 38 obs.) 4.4Msz (  4 obs.)
 UNIMAK ISLAND REGION               ( 10)

SDN      2.62  42 iPd    22 43.10  -0.7
KDC      7.61  51 eP     23 51.70  -2.5
ADK      8.13 264 eP     24 00.90  -0.6
SVW      8.80  26 eP     24 11.70   0.8
TTA     10.31  20 eP     24 30.70  -0.9
PMS     10.86  38 eP     24 35.00  -4.1X
ANM     11.20 356 eP     24 45.50   1.9
TOA     12.67  40 eP     24 59.10  -4.3X
IMA     13.59  17 eP     25 16.70   1.1
        1.2s     23.40nm          4.9mb
FBA     13.99  29 eP     25 19.00  -1.8
SIT     16.45  66 eP     25 52.00  -0.5
PNT     27.41  81 eP     27 52.00   4.9X
MBC     28.28  21 eP     27 53.00  -1.7
        0.6s      4.00nm          4.3mb
NEW     29.36  81 eP     28 04.70   0.0
SES     31.94  74 eP     28 30.00   2.6X
CMB     33.27 100 eP     28 53.40  14.3X
KVN     33.95  96 eP     28 45.80   0.5
FFC     35.13  62 eP     29 05.00  10.0X
        1.3s     25.00nm
MAT     43.22 271 iPc    30 02.50   0.1
        1.2s     46.88nm          5.1mb
                 eS     37 00.00
ALQ     43.63  91 eP     30 05.00  -1.0
        1.1s      3.80nm          4.1mb
FRB     46.02  38 eP     30 23.00  -1.4
CN2     46.07 288 Pc     30 23.60  -1.5
     Z  18s      0.40um          4.4Msz
```

26d 22h

		eS	37	10.00		
KBS	47.87	1 eP	30	37.70	-1.2	
SNY	48.38	287 eP	30	42.60	-0.6	
SCH	52.23	47 eP	31	11.00	-1.5	
BJI	53.76	290 eP	31	22.50	-1.4	
	1.4s	15.00nm			4.8mb	
Z	19s	0.30um			4.4Msz	
HHC	55.76	294 P	31	38.00	-0.7	
BTO	56.78	295 P	31	45.00	-1.0	
KEV	56.88	356 eP	31	46.00	-0.2	
	0.8s	17.60nm			5.1mb	
		i	31	55.70		
SSE	57.15	279 P	31	48.50	-0.1	
	1.0s	20.00nm			5.1mb	
TIY	57.47	291 eP	31	50.50	-0.4	
Z	16s	0.70um			4.9MszX	
SOD	59.27	355 iP	32	02.00	-0.9	
		i	32	11.60		
XAN	62.09	290 P	32	22.00	-0.7	
GTA	63.05	300 eP	32	27.80	-1.2	
LZH	63.38	295 P	32	30.20	-1.1	
	2.0s	76.00nm			5.5mb	
Z	18s	0.40um			4.6Msz	
N	13s	0.30um				
SUF	63.93	355 iP	32	33.00	-1.3	
	0.6s	4.40nm			4.7mb	
WMQ	65.56	311 P	32	44.70	-0.5	
		eS	41	26.00		
NB2	65.79	3 P	32	45.00	-1.4	
	1.0s	11.00nm			4.9mb	
NUR	66.21	356 iP	32	48.00	-1.0	
	0.8s	11.70nm			5.0mb	
HFS	66.76	1 eP	32	50.20	-2.3	
	0.4s	5.00nm			5.0mb	
CD2	67.32	291 eP	32	56.50	-0.1	
GYA	69.07	286 iPd	33	08.00	0.4	
		pP	33	13.60	18kmX	
EKA	70.39	12 P	33	15.00	0.0	
	0.9s	5.60nm			4.6mb	
DCN	71.77	15 eP	33	23.00	-0.4	
KMI	72.34	288 eP	33	28.00	0.5	
WTS	74.63	6 eP	33	40.00	0.0	
	0.9s	10.00nm			4.8mb	
		e	33	52.00		
LSA	75.06	300 P	33	43.50	0.0	
CLL	75.59	2 eP	33	45.00	-0.6	
		i	33	56.30		
ENN	75.79	7 eP	33	47.50	0.8	
	1.0s	30.00nm			5.2mb	
		e	33	51.50		
		e	33	58.00		
MEM	75.96	7 Pd	33	47.60	0.0	
BRG	76.04	2 eP	33	48.10	0.0	
	1.0s	10.00nm			4.8mb	
		i	33	59.00		
		e	36	18.40		
KSP	76.09	0 eP	33	47.50	-0.9	
		e	33	59.20		
MOX	76.21	3 eP	33	49.00	-0.1	
KRA	76.84	358 eP	33	51.90	-0.7	
PRU	76.94	1 P	33	53.00	-0.2	
GRF	77.15	3 ePc	33	54.70	0.3	
	1.2s	17.00nm			5.0mb	
Z	18s	0.10um			4.2Msz	
		e	34	00.70		
		ed	34	06.00		
LDF	77.38	11 eP	33	56.40	0.7	
	1.2s	23.80nm			5.1mb	
SPC	77.70	357 eP	33	57.60	0.0	
KHC	77.78	2 iP	33	58.50	0.6	
CDF	78.23	6 eP	34	01.00	0.6	
	1.2s	41.65nm			5.3mb	
HAU	78.57	7 eP	34	02.60	0.4	
	0.8s	8.05nm			4.8mb	
ZST	78.74	360 eP	34	01.40	-1.7	
		i	34	14.80		
BSF	78.77	7 eP	34	03.60	0.1	
	1.2s	23.80nm			5.1mb	
LOR	79.10	9 eP	34	05.60	0.4	
	1.0s	21.00nm			5.1mb	
SRO	79.11	359 eP	33	51.70	-13.4X	
		e	34	16.50		
		e	34	42.80		
SSF	79.27	9 eP	34	07.20	1.1	
	1.0s	16.00nm			5.0mb	
MFF	79.34	12 eP	34	07.20	0.8	
	1.2s	38.70nm			5.3mb	
LBF	79.39	9 eP	34	07.60	0.8	
	1.0s	12.00nm			4.8mb	
CHG	79.46	287 eP	34	07.00	-0.5	
AVF	79.53	9 eP	34	08.20	0.8	
	1.2s	20.85nm			5.0mb	
BGF	79.71	9 eP	34	09.60	1.2	
	1.2s	17.85nm			4.9mb	
SMF	79.72	9 eP	34	08.80	0.3	
	1.2s	35.70nm			5.2mb	
LSF	79.88	10 eP	34	09.90	0.6	
	1.0s	20.00nm			5.1mb	
TCF	79.91	10 eP	34	10.00	0.4	
	1.0s	6.00nm			4.5mb	
MAF	80.01	10 eP	34	11.20	1.1	
	1.2s	11.90nm			4.8mb	
FVI	80.30	3 P	34	10.00	-1.5	
CTI	80.81	3 P	34	10.00	-4.4X	
VAI	80.86	5 P	34	15.50	1.0	
ORO	81.05	6 P	34	20.50	4.8X	
LFF	81.08	11 eP	34	16.80	1.1	
	1.2s	26.80nm			5.1mb	
LPG	81.09	7 eP	34	17.80	1.6	
	1.2s	11.90nm			4.8mb	
BZS	81.22	356 eP	34	16.50	0.1	
CAF	81.24	10 eP	34	17.60	1.0	
	1.2s	16.35nm			4.9mb	
LPO	81.39	11 eP	34	18.20	0.9	
	1.2s	20.85nm			5.0mb	
BNI	81.53	7 P	34	20.00	1.8	
BOB	81.99	5 P	34	19.00	-1.5	
BEO	82.06	357 eP	34	20.50	-0.3	
DDI	82.12	7 P	34	21.50	0.3	
CKI	82.26	6 P	34	31.50	9.6X	
BDI	82.75	4 P	34	21.00	-3.5X	
NDI	82.76	309 eP	34	26.60	1.9	
SBF	82.77	7 eP	34	26.00	1.4	
	1.2s	50.60nm			5.5mb	
PGD	82.98	3 P	34	28.00	2.2	
MAIO	83.15	326 eP	34	27.00	0.2	
ASS	83.81	3 P	34	39.00	9.0X	
PGF	84.18	6 eP	34	33.40	1.5	
	1.2s	38.70nm			5.5mb	
MNS	84.50	3 P	34	33.00	-0.4	
SKO	84.87	356 eP	34	36.00	0.8	
		i	34	47.00		
AZI	84.91	2 P	34	36.50	1.1	
RDP	85.13	3 P	34	42.00	5.4X	
SDI	85.21	2 P	34	40.50	3.6X	
DUI	85.26	1 P	34	41.00	3.7X	
VAY	85.47	355 eP	34	38.70	0.5	
OHR	85.75	357 eP	34	40.00	0.3	
QUE	85.90	318 eP	34	40.70	-0.1	
BBTK	86.03	347 eP	34	42.00	0.8	
SGO	86.37	1 P	34	45.00	2.3	
MGR	86.80	1 P	34	46.00	1.2	
HYB	91.65	302 ePd	35	08.00	0.0	
	1.0s	40.00nm			5.8mb	
BUL	145.46	340 iPKPc	41	28.00	-11.1X	
		ipP	41	37.00		
BFT	150.47	334 iPKPc	41	52.50	5.5X	
	0.7s	20.55nm				
		i	42	02.50		
PRY	152.28	338 ePKP	41	54.00	4.4X	
		i	42	06.00		
FRS	155.45	341 ePKP	42	04.00	10.4X	
	S.D. = 1.0	on 94 of 113 obs.				

? MAY 26, 1990 23h 15m 04.17± 1.54s
43.729 N ±16.7km 18.420 E ±11.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

HVAR	1.54	250 iPn	15	31.70	0.0	
		iSn	15	55.30		
BEO	1.82	53 e(Pn)	15	40.50	4.7X	
ZAG	2.71	321 eP	15	48.90	0.3	
VBY	2.87	309 eP	15	50.50	-0.3	
		e(Sn)	16	18.50		
BZS	2.96	49 eP	15	52.00	0.0	
	S.D. = 0.5	on 4 of 5 obs.				

MAY 27, 1990 00h 29m 13.73± 0.87s
46.636 N ± 7.8km 1.216 E ± 6.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG). MD 2.4 (STR).

LSF	0.44	151 Pg	29	21.80	-1.0	
		Sg	29	27.20		
TCF	0.77	117 Pg	29	28.00	-0.8	
		Sg	29	37.50		
MFF	0.94	268 Pg	29	31.40	-0.2	
		Sg	29	43.40		
MAF	1.02	113 Pg	29	38.00	4.9X	
		Sg	29	45.70		
BGF	1.13	93 Pg	29	35.10	0.3	
		Sg	29	49.20		
RJF	1.35	171 Pg	29	38.50	-0.1	
		Sg	29	55.30		
AGO	1.45	113 Pg	29	40.46	0.5	
		Sg	29	59.17		
AVF	1.48	83 Pn	29	39.90	-0.5	
		Pg	29	40.90		
		Sg	29	58.70		
PYM	1.53	125 Pg	29	41.81	0.7	
		Sg	30	00.91		
SSF	1.63	74 Pn	29	41.70	-0.8	
		Pg	29	43.50		
		Sg	30	03.40		
LFF	1.73	191 Pg	29	45.40	1.4	
		Sg	30	07.50		
PLDF	1.80	111 Pg	29	46.58	1.5	
		Sg	30	10.08		
SMF	1.81	89 Pg	29	45.80	0.6	
		Sg	30	09.20		
CAF	1.81	161 Pn	29	43.70	-1.5	
		Pg	29	46.70		
		Sg	30	09.70		
LOR	1.92	70 Pn	29	45.00	-1.8	
		Pg	29	48.30		
		Sg	30	12.20		
LBF	1.93	79 Pg	29	48.60	1.7	
		Sg	30	12.60		
LPO	1.95	181 Pg	29	50.00	2.7X	
		Sg	30	13.70		
LBL	1.99	134 Pg	29	50.24	2.4X	
LPF	2.07	313 Pg	29	52.30	3.3X	
LDF	2.16	336 Pg	29	54.20	4.0X	
		Sg	30	21.60		
GRR	2.25	322 Pg	29	55.40	3.9X	
		Sg	30	23.30		
FLN	2.42	332 Pg	29	58.80	4.9X	
	S.D. = 1.2	on 15 of 22 obs.				

? MAY 27, 1990 01h 39m 57.21± 3.36s
36.865 N ±28.0km 28.505 E ±18.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.32	327 iPg	40	04.00	0.1	
		iSg	40	10.50		
ELL	1.13	96 iPn	40	17.90	-0.6	
KHL	1.67	29 ePn	40	27.00	0.4	
BCK	1.77	70 iPn	40	29.30	1.2	
IZM	1.82	328 ePn	40	33.50	4.7X	
ALT	2.53	30 ePn	40	38.00	-1.0	
	S.D. = 1.2	on 5 of 6 obs.				

% MAY 27, 1990 01h 43m 36.98± 0.77s
40.668 N ± 7.1km 15.715 E ± 6.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.33	251 Pc	43	43.50	-0.3	
		iSg	43	47.00		
MGR	0.54	193 P	43	46.20	-1.8	
		eSg	43	53.70		
BSS	0.70	280 P	43	51.10	0.3	
		eSg	44	00.20		
ORI	0.82	137 P	43	54.50	1.6	
		eSg	44	06.70		
BAI	0.98	62 P	43	54.00	-1.6	
		eSg	44	08.00		
TDS	1.12	154 P	43	58.70	0.8	
		eSg	44	14.00		
DUI	1.37	317 P	44	03.50	1.3	
		eSg	44	22.00		
LCI	1.74	100 P	44	10.50	3.1X	
		eSg	44	34.00		
SDI	1.77	306 P	44	07.50	-0.4	
		eSn	44	29.50		
SOI	2.61	174 P	44	20.00	0.2	
	S.D. = 1.3	on 9 of 10 obs.				

% MAY 27, 1990 02h 24m 05.83± 0.71s
40.454 N ±11.1km 15.461 E ±13.0km
DEPTH = 5.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.16	312	Pc	24 08.00	-1.1
			eSg	24 12.50	
MGR	0.32	167	P	24 12.40	0.0
			eSg	24 19.30	
ORI	0.85	117	P	24 22.40	-0.3
			eSg	24 34.00	
TDS	1.04	139	P	24 26.00	0.1
			eSn	24 42.00	
BAI	1.26	58	P	24 20.00	-9.6X
			eSg	24 34.00	
DUI	1.42	328	P	24 33.00	0.5
SDI	1.76	316	P	24 38.00	0.7

S.D. = 0.8 on 6 of 7 obs.

---

* MAY 27, 1990 02h 54m 46.82± 0.58s
36.688 N ±10.0km 71.594 E ± 9.3km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.55	212	eP	56 38.30	0.7
			eS	57 58.30	
NDI	9.28	148	eP	57 03.50	2.2
			eS	58 41.00	
MAIO	9.75	271	iPc	57 05.80	-2.2
	0.8s		8.78nm	5.1mb	
			eS	58 45.00	
GKN	14.01	124	P	58 04.40	-0.8
	0.5s		26.00nm	5.2mb	
DMN	14.58	125	P	58 11.90	-0.9
PKI	14.81	124	P	58 15.60	-0.3
GUN	14.90	122	P	58 16.20	-1.0
HYB	20.16	160	eP	59 21.50	0.3
NUR	37.96	324	eP	02 04.00	1.3
SUF	38.02	328	iP	02 04.00	0.8
	0.5s		4.00nm	4.5mb	
SOD	39.77	335	iP	02 18.60	0.8
HFS	43.21	322	eP	02 45.50	-0.6
	0.5s		5.70nm	4.6mb	
NB2	44.52	323	P	02 56.50	-0.2
	0.6s		5.00nm	4.5mb	
DVD	128.93	326	ePdiff	10 33.50	-5.7X

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

MAY 27, 1990 02h 56m 12.66± 0.60s
44.995 N ± 3.5km 6.753 E ± 8.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (GEN), 2.0 (LDG).

RRL	0.08	163	P	56 14.20	-1.1
			S	56 15.43	
RSP	0.39	66	P	56 21.27	0.6
			S	56 26.81	
LPG	0.50	360	Pg	56 22.70	-0.2
			Sg	56 30.20	
LPL	0.52	358	Pg	56 23.00	-0.3
			Sg	56 31.30	
LSD	0.54	31	P	56 24.14	0.4
			S	56 31.93	
PZZ	0.55	153	P	56 23.12	-0.7
			S	56 29.99	
SBF	1.23	156	Pg	56 36.20	0.6
FRF	1.44	183	Pg	56 39.00	0.3
LRG	1.57	191	Pg	56 41.40	0.9
LMR	1.67	186	Pg	56 42.00	-0.1

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

? MAY 27, 1990 02h 59m 49.90±14.68s
35.446 S ±114.km 70.238 W ±32.2km
DEPTH = 164.5 ± 54.9 km
CHILE-ARGENTINA BORDER REGION (127)

CHCH	1.55	347	iPc	00 21.80	0.4
			iS	00 49.20	
LNV	1.77	327	iPc	00 23.60	-0.1
			iS	00 51.50	
PCH	1.83	353	iPc	00 25.00	0.4
			iS	00 54.00	
TACH	1.88	342	iP	00 24.50	-0.5
			iS	00 54.30	
SAN	2.02	350	eP	00 26.50	-0.1
			iS	00 56.50	
FCH	2.11	359	iPd	00 27.50	-0.5
			i	01 00.80	
LCCH	2.25	330	iPd	00 29.00	-0.2
			iS	01 00.30	
PEL	2.33	351	iP	00 30.50	0.3
			iS	01 02.50	
ROCH	2.55	345	iPc	00 33.00	0.0
			iS	01 08.50	
IHA	2.68	334	eP	00 34.80	0.5
			e(S)	01 11.50	
JACH	2.77	354	iP	00 35.40	-0.2
			iS	01 12.50	
RTBS	3.83	10	iPc	00 49.00	0.1
			S	01 36.00	
RTCV	3.85	22	ePc	00 46.50	-2.7X
			S	01 34.50	

S.D. = 0.4 on 12 of 13 obs.

MAY 27, 1990 03h 03m 42.25± 0.23s
6.910 N ± 4.5km 82.714 W ± 4.0km
DEPTH = 17.4km (4 depth phases)
5.2mb (45 obs.) 5.0Msz (4 obs.)
SOUTH OF PANAMA (83)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 03:03:45.0 0.7
Lat 6.96N FIX;Lon 82.66W FIX
Dep 15.0 FIX Half-duration 2.4
Moment Tensor; Scale 10**17 Nm
Mrr=-0.25 0.10 Mtt=-0.07 0.09
Mff= 0.31 0.17 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 1.14 0.08
Principal Axes:

T	Val= 1.28	Plg= 0	Azm=130
N	-0.24	90	180
P	-1.04	0	40

Best Double Couple:Mo=1.2*10**17
NP1:Strike=175 Dip=90 Slip=-180
NP2: 265 90 0

DVD	1.54	10	iPc	04 08.50	-0.4
UPA	3.76	57	iPd	04 41.00	0.3
	0.4s		576.27nm		
			iS	05 26.50	
PSO	7.82	136	eP	05 36.00	-2.4
COTA	7.86	146	eP	05 36.00	-3.0X
GGP	8.15	150	eP	05 41.00	-2.2
QUR	8.18	149	P	05 41.00	-2.5
CAYA	8.26	145	P	05 44.00	-0.7
VC1	8.65	150	P	05 49.40	-0.6
BOG	8.90	104	eP	04 56.00	-57.4X
			iS	06 34.00	
SDV	12.13	80	eP	06 37.70	0.3
TPX	12.28	311	(P)	06 37.00	-2.3
TOV	13.10	77	eP	06 52.00	1.7
FISA	13.90	71	eP	07 10.00	9.1X
PLAV	15.33	78	eP	07 24.80	5.0X
GUAC	15.61	77	eP	07 29.00	5.6X
CAR	16.01	76	iP	07 28.00	-0.4
			eS	10 32.00	
OLLA	16.04	78	eP	07 27.00	-1.8
LLAV	16.12	76	eP	07 28.20	-1.6
OXX	17.01	308	(P)	07 43.00	1.7
GUAN	17.15	79	eP	07 41.00	-1.9
LVVM	18.45	315	(P)	07 54.00	-4.9X
IIT	19.36	310	(P)	08 12.00	1.6
ACX	19.46	302	(P)	08 24.00	12.8X
PPM	19.63	309	(P)	08 14.50	0.8
NNA	19.66	163	eP	08 13.50	0.0
	1.0s		27.00nm	4.5mb	
PT10	19.71	163	eP	08 14.50	0.5
PT08	19.72	162	eP	08 16.00	1.5
III	19.90	306	(P)	08 16.50	0.3
CRX	20.64	309	(P)	08 26.00	2.0
IIJ	20.87	309	(P)	08 27.50	0.9
PT06	21.56	163	e(P)	08 33.90	0.9
MRX	21.99	307	(P)	08 39.50	2.2
PRM	27.04	1	P	09 25.60	0.1
ZOBO	27.18	148	P	09 27.00	-0.6
Z	24s		3.25um	4.8MszX	
			S	14 00.00	
			LR	17 18.00	
JSC	27.27	3	P	09 27.00	-0.6
LPB	27.42	148	P	09 26.00	-3.6X
Z	21s		5.73um	5.1Msz	
			LR	17 34.00	
GBTN	28.65	357	P	09 39.50	-0.6
UYO	29.21	340	iPd	09 42.70	-2.5
OLY	29.57	345	P	09 46.00	-2.4
BLA	30.23	4	P	09 54.20	-0.1
NAV	30.32	3	P	09 54.60	-0.5
TUL	31.25	339	eP	10 01.20	-2.1
	1.2s		26.80nm	5.0mb	
LNO	31.25	339	eP	10 00.60	-2.6
FVM	31.71	348	P	10 05.60	-1.7
ALQ	35.44	325	iPc	10 39.80	0.0
	1.0s		54.25nm	5.4mb	
Z	20s		1.01um	4.6Msz	
ANMO	35.44	325	P	10 40.20	0.4
	1.4s		116.28nm	5.6mb	
GLD	38.44	332	P	11 05.40	0.4
	1.5s		195.31nm	5.6mb	
GOL	38.47	331	P	11 05.40	0.0
	1.4s		176.24nm	5.6mb	
GLA	39.54	315	eP	11 15.00	0.8
BAR	40.65	314	eP	11 23.00	-0.2
TPC	40.98	316	eP	11 26.00	0.1
BAO	41.04	123	eP	11 27.00	0.2
PLM	41.14	314	eP	11 28.00	0.6
MSU	41.21	324	P	11 28.80	0.8
RSSD	41.49	337	P	11 30.00	-0.3
PEC	41.64	315	P	11 32.20	0.9
RVR	41.84	315	eP	11 33.00	0.0
DAU	42.00	327	P	11 35.40	0.8
GSC	42.16	317	eP	11 36.00	0.3
MWC	42.44	315	eP	11 38.00	-0.1
PAS	42.48	315	eP	11 39.00	0.8
SBB	42.52	315	eP	11 39.00	0.3
DUG	42.71	326	P	11 41.00	0.8
BW06	42.85	331	P	11 40.90	-0.5
	1.4s		63.12nm	5.2mb	
CLC	42.98	317	eP	11 42.00	-0.4
ISA	43.49	316	eP	11 47.00	0.5
TNP	44.02	320	P	11 51.60	0.6
	1.2s		60.48nm	5.3mb	
IMW	44.36	331	P	11 53.20	-0.5
BCH	44.37	315	P	11 54.20	0.5
FRI	45.05	317	eP	11 57.50	-1.5
KVN	45.15	321	P	12 00.00	0.0
HPI	45.30	329	P	12 01.80	0.5
CMB	46.06	318	eP	12 06.40	-0.7
ARN	46.48	316	P	12 10.40	0.1
LRM	46.50	331	ePc	12 10.70	0.0
MHC	46.55	316	eP	12 11.10	0.1
ITR	46.81	109	eP	12 16.20	3.0
ORV	47.61	319	eP	12 19.30	0.0
MIN	48.11	320	eP	12 22.00	-1.3
SCH	49.46	12	eP	12 32.00	-1.3
FFC	50.13	346	iPc	12 36.50	-1.9
	1.3s		44.00nm	5.3mb	
NEW	50.49	331	P	12 40.00	-1.3
	1.2s		66.29nm	5.5mb	
LON	51.93	327	P	12 51.20	-1.1
PNT	52.42	330	iPc	12 56.00	0.1
	1.4s		206.00nm	5.9mb	
EDM	52.47	337	eP	12 54.50	-1.8
GMW	52.94	327	P	12 58.50	-1.3
FRB	57.64	7	eP	13 20.00	-13.5X
INK	69.87	342	eP	14 52.60	-1.1
MBC	72.14	351	ePc	15 06.00	-1.3
	1.0s		18.00nm	5.1mb	
PMR	72.85	333	P	15 10.70	-1.0
PMS	72.94	332	eP	15 11.70	-0.7
FBA	73.35	336	P	15 13.20	-1.4
	1.4s		28.41nm	5.1mb	
IMA	76.04	337	P	15 29.60	-0.7
	1.4s		17.05nm	4.9mb	
LKO	76.24	82	(P)	15 37.70	5.5X
	1.3s		56.50nm	5.5mb	
TTA	76.30	333	P	15 30.70	-1.0
	1.3s		23.58nm	5.1mb	
MAL	76.53	54	eP	15 34.60	1.2
ALOJ	76.79	54	iPc	15 37.50	2.5
ATEJ	76.86	54	iPc	15 37.00	1.5
TOL	76.91	51	eP	15 34.00	-1.5
TIC	77.06	85	P	15 42.50	5.7X
LIC	77.09	85	P	15 42.80	5.8X
APHE	77.12	54	eP	15 38.00	1.1
EKA	78.41	35	P	15 43.00	-0.4
	1.9s		49.30nm	5.2mb	
LPF	79.33	43	eP	15 49.00	0.4

```
         1.2s    47.60nm               5.4mb
GRR      79.46   42 eP     15 49.70    0.4
         1.2s    59.50nm               5.5mb
FLN      79.72   42 eP     15 50.60   -0.1
         1.2s    59.50nm               5.5mb
MFF      79.92   44 eP     15 52.20    0.4
         0.8s    21.50nm               5.2mb
LDF      79.96   42 eP     15 52.20    0.2
         1.0s    36.00nm               5.3mb
EPF      80.25   48 eP     15 54.70    1.0
         1.1s    34.20nm               5.3mb
LFF      80.53   46 eP     15 55.60    0.5
         0.9s    18.00nm               5.1mb
LPO      80.85   46 eP     15 57.60    0.8
         0.9s    32.75nm               5.4mb
LSF      81.07   44 eP     15 58.00    0.0
         1.2s    26.80nm               5.2mb
RJF      81.08   45 eP     15 58.20    0.2
         1.2s    26.80nm               5.2mb
CAF      81.47   46 eP     16 00.60    0.5
         1.2s    29.75nm               5.2mb
TCF      81.55   44 eP     16 00.50    0.1
         1.0s    16.00nm               5.0mb
MAF      81.79   44 eP     16 01.80    0.1
         1.2s    29.75nm               5.2mb
8GF      81.98   44 eP     16 02.80    0.2
         1.2s    35.70nm               5.3mb
AVF      82.32   44 eP     16 04.10   -0.3
         1.2s    17.85nm               5.0mb
SSF      82.42   43 eP     16 04.60   -0.3
         0.9s     6.55nm               4.7mb
LOR      82.65   43 eP     16 05.60   -0.5
         1.0s    10.00nm               4.9mb
ENN      83.84   40 eP     16 12.00   -0.1
         0.7s     5.00nm               4.8mb
MEM      83.90   40 P      16 17.80    5.4X
KBS      84.16   11 iPd    16 14.00    0.7
HAU      84.29   42 eP     16 14.60    0.1
WTS      84.32   38 eP     16 15.00    0.5
         1.0s    15.00nm               5.2mb
                    e      16 21.00   19km
                    e      16 27.00
BSF      84.60   43 eP     16 16.10   -0.1
         1.0s    12.00nm               5.1mb
BNI      84.73   45 P      16 24.50    7.6X
LPL      84.74   45 eP     16 18.20    1.1
         1.3s    21.65nm               5.2mb
CDF      84.88   42 eP     16 17.60    0.1
         1.0s    10.00nm               5.0mb
DOI      85.18   46 P      16 19.00   -0.1
TNS      85.49   40 ePd    16 22.70    2.2
ORO      85.60   45 P      16 27.50    6.3X
NB2      85.91   29 P      16 21.90   -0.5
         1.3s    30.40nm               5.3mb
VAI      86.13   44 P      16 25.50    1.9
PGF      86.64   48 eP     16 27.00    0.6
         1.0s    26.00nm               5.4mb
8OB      86.72   45 P      16 22.50   -4.2X
MDI      86.79   44 P      16 32.50    5.6X
GRF      87.33   40 eP     16 30.20    0.7
      Z  21s      0.40um               4.8Msz
                    e      16 36.00   18km
                    e      16 43.10
CTI      88.10   44 P      16 35.00    1.6
CLL      88.23   39 eP     16 36.00    2.3
         1.7s    30.00nm               5.3mb
                    e      17 22.00 185kmX
BRG      88.88   39 eP     16 38.60    1.7
         1.1s    14.00nm               5.2mb
                    e      16 43.00   14km
KHC      88.93   41 P      16 38.20    1.0
         1.3s    12.00nm               5.0mb
PRU      89.41   40 eP     16 40.00    0.6
      Z  19s      0.70um               5.1Msz
                    e      16 46.00   19km
KSP      90.35   39 eP     16 43.80    0.0
ZST      91.40   41 eP     16 50.70    2.1
SPA      96.86  180 eP     17 18.40    4.9X
         1.1s    17.86nm               5.5mb
BJI     130.13  341 ePKP   22 51.50   -1.7
WB5     141.80  247 ePKP   23 14.00   -1.7
WRA     141.81  246 PKP    23 15.00   -0.7
         1.4s    17.20nm
GKN     143.20   19 PKP    23 19.00    0.9
GUN     143.67   17 PKP    23 15.30   -3.8X
DMN     143.72   18 PKP    23 15.40   -3.7X
PKI     143.85   18 PKP    23 15.30   -4.1X
```

```
GYA     145.61 345 PKP    23 22.20    0.1
KMI     147.72 351 PKPd   23 27.00    1.3
HYB     149.55  37 ePKP   23 38.00    9.5X
QIZ     151.41 335 ePKP   23 33.40    2.2
GBA     151.65  44 PKPc   23 35.70    4.1X
         0.8s     5.00nm
     S.D. = 1.2  on 135 of 158 obs.
--------------------------------------------
   MAY  27, 1990  03h 22m 49.56± 0.13s
   15.462 N ± 3.0km  147.655 E ± 2.8km
   DEPTH =  39.1km  ( 35 depth phases)
   5.5mb ( 46 obs.)  4.7Msz (  6 obs.)
 MARIANA ISLANDS REGION             (215)
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 11S, 29C
      Centroid Location:
      Origin Time          03:22:50.4 0.6
      Lat 15.45N 0.05 Lon 147.61E 0.06
      Dep  15.0 FIX Half-duration  1.8
      Moment Tensor;    Scale 10**16 Nm
        Mrr=-9.41 0.70  Mtt= 3.48 0.74
        Mff= 5.93 0.67  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf= 4.55 0.77
       Principal Axes:
        T  Val=  9.42   Plg= 0  Azm=127
        N        0.00        0       37
        P       -9.42       90      180
      Best Double Couple:Mo=9.4*10**16
       NP1:Strike=217 Dip=45 Slip= -90
       NP2:        37     45      -90

GUA       3.27 235 eP     23 39.20   -0.5
                   iS     24 17.00
GUMO      3.28 236 eP     23 39.60   -0.2
RAB      20.03 167 eP     27 20.00   -2.2
MAT      22.62 340 eP     27 46.00   -2.2
         1.0s   160.00nm             5.4mb
      Z  20s      1.06um             4.3Msz
                   eS     31 48.00
DAV      23.18 251 eP     27 54.50    0.7
SHK      23.29 327 eP     27 54.80    0.1
PMG      24.72 181 eP     28 07.00   -1.7
BAG      26.05 276 ePd-   28 21.00   -0.4
         1.6s  1273.33nm             6.2mb
SSE      28.76 307 Pc     28 43.00   -2.8
         6.0s   400.00nm             5.3mb X
      Z  20s      1.40um             4.6Msz
      N  14s      0.70um
      E  14s      0.60um
OZH      28.81 294 Pd     28 46.00   -0.2
         1.0s   200.00nm             5.7mb
NJ2      30.97 307 Pd     29 03.80   -1.6
      Z  20s      0.70um             4.3Msz
      N  12s      0.50um
      E  13s      0.80um
                   eS     34 04.50
KKM      32.23 257 eP     29 16.00   -0.8
MDJ      32.84 336 Pc     29 21.00   -0.7
      N  15s      1.20um
                   pP     29 33.00   45km
                   iS     34 36.00
GZH      33.20 289 eP     29 23.00   -2.0
                   eS     34 44.00
SNY      33.49 326 Pd     29 27.60    0.3
         1.2s   200.00nm             5.9mb
      Z  19s      2.40um             4.9Msz
      N  14s      0.90um
      E  13s      0.70um
                   pP     29 35.00   25kmX
WHN      33.98 302 eP     29 32.00    0.3
         1.0s    90.00nm             5.7mb
      Z  24s      1.36um             4.6MszX
      E  14s      0.67um
                   pP     29 36.50   15kmX
CN2      33.99 331 P      29 30.10   -1.5
      Z  18s      2.40um             5.0Msz
      N  16s      1.80um
      E  16s      0.90um
TIA      34.15 313 eP     29 32.40   -0.8
      Z  34s      1.10um             4.4MszX
      N  16s      0.60um
      E  16s      0.80um
                   S      34 54.00
CTA      35.35 182 iPc    29 44.00    0.5
QIZ      36.24 281 Pd     29 52.70    1.6
      E  17s      2.20um
```

```
BJI      36.76 318 eP     29 54.50  -0.7
         1.5s   200.00nm            5.0mb
      Z  23s      0.94um            4.5MszX
                   epP    30 05.00  36km
                   ePP    31 16.00
                   eS     35 32.00
WB5      37.47 201 eP     30 01.20  -0.2
                   i      32 20.20
WRA      37.54 201 Pc     30 01.90  -0.1
         0.9s    45.00nm            5.4mb
TIY      38.18 312 Pc     30 08.00   0.7
      Z  32s      2.00um            4.7MszX
      E  16s      0.90um
                   sP     30 19.50
                   S      35 58.00
                   sS     36 12.00
XAN      39.45 305 Pc     30 17.50  -0.4
                   S      36 16.00
GYA      39.66 293 iPc    30 22.00   2.2
         1.0s   100.00nm            5.6mb
                   sP     30 34.00
                   ScP    36 15.00
                   S      36 22.00
HHC      40.21 316 P      30 24.00  -0.1
      Z  16s      1.50um            4.9MszX
      N  14s      0.40um
      E  15s      0.60um
BTO      41.13 315 P      30 32.00   0.3
      N  14s      0.40um
      E  14s      1.00um
                   sP     30 44.00
                   S      36 44.50
DZM      41.60 153 iPc    30 35.00  -0.7
RMO      41.71 179 iPc    30 36.00  -0.4
QLP      41.92 185 iPc    30 37.50  -0.7
BRS      42.89 173 iPd    30 46.50   0.4
         1.3s    10.00nm            4.4mb X
CD2      42.89 299 iPd    30 47.20   1.0
         1.0s   100.00nm            5.5mb
      Z  24s      0.90um            4.6MszX
      N  12s      0.90um
                   pP     30 58.30  39km
                   eS     37 06.80
KMI      43.04 290 Pd     30 49.00   1.3
         4.0s   600.00nm            5.7mb X
                   pP     31 00.00  39km
                   eS     37 16.00
LOE      44.01 279 eP     30 56.00   0.6
LZH      44.03 306 iPc    30 56.50   1.0
         3.0s   980.00nm            6.1mb
      Z  17s      1.10um            4.8MszX
      N  15s      0.90um
      E  15s      0.60um
                   pP     31 05.00  28kmX
                   sP     31 08.00
                   PP     32 43.00
NST      45.70 277 iPd    31 11.00   2.1
COO      45.95 175 eP     31 11.00   0.3
ADK      46.09  30 eP     31 11.70   0.2
         1.0s    35.00nm            5.2mb
WARB     46.17 207 iPc    31 14.00   1.6
NNT      46.51 273 eP     31 04.60 -10.7X
CHG      46.56 281 ePc    31 16.00   0.3
         0.9s    29.62nm            5.2mb
BDT      46.62 279 eP     31 18.20   2.0
         0.9s    41.80nm            5.4mb
GTA      48.02 309 eP     31 27.50   0.4
         1.2s   100.00nm            5.7mb
      Z  26s      2.00um            5.0MszX
      E  15s      0.80um
                   PP     33 19.00
                   S      3B 22.00
BWA      49.61 179 eP     31 39.40   0.2
PSI      49.63 260 ePd    31 40.80   1.2
PSI      49.63 260 ePd    31 48.80   9.2X
CAN      50.52 179 eP     31 46.30   0.2
CNB      50.52 178 iPd    31 46.60   0.5
         1.2s   111.00nm            5.7mb
ADE      50.86 189 iPd    31 49.20   0.5
         0.8s    92.54nm            5.8mb
BFD      52.57 185 iPc    32 01.50   0.0
         1.1s    91.00nm            5.7mb
COOL     52.66 209 eP     32 01.00  -1.4
LSA      53.59 296 P      32 11.00   1.2
         4.0s   530.00nm            5.9mb X
                   pP     32 22.50  40km
MRWA     53.93 215 eP     32 11.00  -0.6
```

BAL	54.63	213	eP	32	16.20	-0.6
KLB	54.88	211	eP	32	18.00	-0.6
MUN	55.98	212	eP	32	26.00	-0.5
SDN	56.10	33	eP	32	26.20	-0.9
			e	32	37.60	39km
RKG	57.25	210	eP	32	39.00	3.4X
WMO	57.85	312	P	32	40.00	0.1
	N 24s		0.77um			
			S	40	36.00	
			ScS	42	21.00	
GUN	58.20	293	P	32	42.60	-0.3
PKI	58.63	293	P	32	45.00	-0.9
DMN	58.90	293	P	32	47.30	-0.4
GKN	59.30	294	P	32	49.90	-0.4
TTA	61.30	26	eP	33	02.80	-0.6
			i	33	14.20	39km
IMA	63.48	23	eP	33	17.50	-0.4
	1.2s	15.60nm			5.0mb	
			i	33	29.00	39km
PMR	63.86	28	eP	33	18.60	-1.6
	1.0s	22.50nm			5.2mb	
TOA	65.35	28	eP	33	29.80	-0.2
FBA	65.39	25	eP	33	29.00	-1.1
NDI	65.78	295	ePd	33	33.40	0.2
	1.0s	60.00nm			5.6mb	
			eS	42	20.00	
HYB	65.97	282	iPd	33	35.00	0.4
			e	33	46.00	36km
KSH	66.27	307	eP	33	38.00	1.6
			pP	33	49.00	36km
			S	42	29.50	
GBA	67.72	279	Pd	33	45.20	-0.5
	0.7s	11.80nm			5.1mb	
KOD	68.38	275	eP	33	51.00	0.8
AFR	69.85	116	iP	33	58.30	-0.4
	1.2s	115.00nm			5.8mb	
PPN	70.15	115	iP	34	00.90	0.3
	1.2s	70.00nm			5.6mb	
POO	70.19	284	iPd	34	00.00	-1.0
TVO	70.41	116	iP	34	03.00	0.8
	1.2s	145.00nm			5.9mb	
PMO	70.50	112	iP	34	02.90	0.2
	1.2s	105.00nm			5.7mb	
TPT	70.74	112	iP	34	04.70	0.5
	1.2s	75.00nm			5.6mb	
VAH	70.83	112	iP	34	04.60	-0.1
	1.2s	50.00nm			5.4mb	
RUV	71.03	112	iP	34	05.90	-0.1
	1.2s	85.00nm			5.6mb	
INK	71.61	23	eP	34	07.00	-1.6
	1.0s	60.00nm			5.5mb	
QUE	74.49	298	eP	34	27.00	0.5
MBC	75.81	14	eP	34	33.00	0.1
	1.0s	76.00nm			5.6mb	
			pP	34	45.50	42km
BMW	78.36	45	P	34	48.20	0.5
GMW	78.47	44	P	34	48.80	0.6
			pP	35	00.90	40km
RMW	79.14	44	P	34	52.60	0.6
			pP	35	04.30	39km
LON	79.27	44	P	34	52.50	-0.2
			pP	35	04.30	39km
WDC	79.97	51	eP	34	56.30	-0.2
PNT	80.19	42	eP	34	58.00	0.5
	0.9s	45.00nm			5.4mb	
MIN	80.72	51	eP	35	00.00	-0.6
PCC	80.73	54	eP	35	00.20	-0.3
			epP	35	11.90	39km
BRK	80.74	53	eP	35	00.40	-0.2
			epP	35	12.70	41km
BKS	80.76	53	iPc	35	01.60	0.9
	1.0s	87.00nm			5.7mb	
			ipP	35	12.90	37km
ORV	80.96	52	eP	35	01.30	-0.5
			epP	35	13.60	41km
GCC	81.13	54	eP	35	02.70	0.0
			epP	35	14.70	40km
MHC	81.34	54	eP	35	04.00	0.1
			epP	35	16.20	41km
ARN	81.42	54	P	35	05.40	1.1
PRS	81.78	55	eP	35	06.20	0.1
			epP	35	18.40	41km
NEW	82.04	42	P	35	07.10	-0.2
	0.8s	30.21nm			5.4mb	
			pP	35	19.50	41km
LLA	82.05	54	eP	35	07.70	0.2
			epP	35	20.00	41km
CMB	82.15	53	eP	35	07.90	-0.2
			epP	35	20.30	41km
			esP	35	28.40	
PRI	82.37	55	eP	35	10.20	0.9
			epP	35	22.10	39km
KBS	82.74	352	eP	35	11.00	0.7
FRI	82.92	54	eP	35	11.70	-0.3
			epP	35	24.20	42km
			esP	35	32.00	
EDM	83.05	37	iPc	35	13.00	0.6
BCH	83.06	56	P	35	13.30	0.4
KVN	83.65	51	P	35	15.80	-0.1
ISA	84.22	55	eP	35	19.00	0.3
TNP	84.56	52	P	35	20.60	0.0
	0.8s	13.73nm			5.2mb	
PAS	84.85	56	eP	35	22.00	0.2
			e	35	34.00	39km
CLC	84.87	54	eP	35	22.00	0.1
MWC	84.92	56	eP	35	23.00	0.6
SBB	84.98	56	eP	35	23.00	0.5
			e	35	35.00	39km
SES	85.26	39	eP	35	24.00	0.4
	1.3s	165.00nm			6.1mb	
			pP	35	35.00	35km
RVR	85.52	56	eP	35	25.00	-0.2
			e	35	36.00	35km
KEV	85.57	343	eP	35	25.00	0.3
	0.6s	11.70nm			5.3mb	
			i	35	30.60	18kmX
GSC	85.63	55	eP	35	26.00	0.2
PEC	85.72	56	P	35	26.00	-0.2
	0.9s	23.81nm			5.4mb	
			pP	35	38.00	39km
LRM	85.78	44	eP	35	26.70	0.1
			e	35	38.60	39km
PLM	86.11	57	eP	35	28.00	-0.3
BAR	86.45	57	eP	35	30.00	0.2
TPC	86.55	56	eP	35	30.00	-0.3
			e	35	41.00	35km
SOD	87.02	341	iP	35	32.00	0.1
			i	35	44.00	39km
DUG	87.25	49	P	35	34.30	0.6
	0.8s	15.28nm			5.3mb	
			pP	35	46.20	39km
GLA	87.83	56	eP	35	37.00	0.5
FFC	88.79	33	eP	35	40.00	-0.6
	1.0s	21.00nm			5.4mb	
SUF	89.83	337	iP	35	44.70	-0.6
	0.4s	5.40nm			5.2mb	
NUR	91.70	335	iP	35	54.00	0.0
	1.1s	38.40nm			5.7mb	
			i	35	58.00	12kmX
RSSD	91.97	43	P	35	56.00	0.1
GOL	92.79	48	P	36	00.50	0.7
	0.9s	13.83nm			5.4mb	
ANMO	93.77	52	P	36	05.80	1.5
	1.0s	8.75nm			5.1mb	
ALQ	93.77	52	eP	36	04.50	0.2
	0.9s	9.45nm			5.2mb	
Z	18s	0.46um			5.0Msz	
HFS	96.06	339	ePKP	36	10.80	-3.3X
	0.5s	2.00nm			4.9mb	
NB2	96.24	340	P	36	13.70	-1.3
	0.8s	6.40nm			5.2mb	
EKA	105.28	343	PKP	41	18.00	8.6X
	1.5s	18.20nm				
BUL	122.04	256	iPKPd	41	31.50	-11.0X
SLR	122.75	249	ePKP	41	45.00	1.3
BCAO	125.89	287	iPKPd	41	54.20	4.2X
	0.4s	4.00nm				
LKO	143.67	311	PKP	42	21.16	-1.9
	0.9s	25.50nm				
KIC	145.10	306	PKP	42	25.16	-0.3
	0.8s	36.00nm				
TIC	145.14	307	PKP	42	25.16	-0.4
LIC	145.41	307	PKP	42	26.10	0.1
ZOBO	145.60	96	PKPd	42	27.90	0.9
	1.0s	75.00nm				
Z	24s	0.18um			4.8MszX	
			eLR	30	12.00	
LPB	145.64	97	PKP	42	24.00	-2.8X
	1.0s	80.00nm				
ITR	171.08	42	e(PKP)	42	56.00	0.6
			e	44	15.20	
			e	44	26.90	
			e	44	34.70	
S.D. = 0.9 on 139 of 147 obs.						

• MAY 27, 1990 03h 56m 44.22± 2.60s
31.763 S ±14.7km 71.791 W ±20.3km
DEPTH = 20.1 ± 4.8 km
NEAR COAST OF CENTRAL CHILE (135)

IHA	1.27	174	eP	57	07.00	0.2
			i(S)	57	21.30	
JACH	1.37	132	iPd	57	08.00	-0.3
			iS	57	25.00	
ROCH	1.37	152	eP	57	08.00	-0.5
			iS	57	27.50	
PEL	1.66	146	iP	57	12.50	-0.1
			iS	57	35.50	
LCCH	1.72	174	iPd	57	13.50	0.2
			i	57	30.20	
			iS	57	35.50	
SAN	1.94	151	eP	57	16.50	0.0
			i	57	42.90	
			i	57	47.10	
RTBS	1.99	88	iPd	57	17.50	0.2
FCH	2.01	141	iP	57	18.00	0.2
			iS	57	44.00	
TACH	2.02	159	iP	57	18.10	0.4
			iS	57	43.40	
PCH	2.14	150	eP	57	19.50	-0.1
			iS	57	47.00	
			i	57	49.00	
LNV	2.21	172	iP	57	19.80	-0.6
			i	57	52.00	
			i	57	55.00	
CHCH	2.37	156	eP	57	23.00	0.3
			iS	57	54.70	
RTCB	2.57	85	iPd	57	25.80	0.2
RTCV	2.77	93	eP	57	29.00	0.6
RTLL	2.87	82	ePc	57	29.00	-0.8
S.D. = 0.4 on 15 of 15 obs.						

MAY 27, 1990 04h 18m 39.88± 0.27s
15.558 N ± 7.4km 147.612 E ± 6.9km
DEPTH = 31.6km (15 depth phases)
4.6mb (11 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.30	233	eP	19	32.00	1.4
			eS	20	08.60	
GUMO	3.30	234	eP	19	31.70	1.1
MAT	22.51	340	(P)	23	38.00	-0.3
	1.8s	77.27nm			4.9mb	
BJI	36.67	318	eP	25	46.50	0.9
	1.5s	26.00nm			4.9mb	
WB5	37.55	201	eP	25	52.10	-1.1
WRA	37.61	201	Pc	25	52.70	-1.0
	1.0s	9.10nm			4.6mb	
CHG	46.50	281	eP	27	09.40	3.0X
PSI	49.61	260	ePc	27	44.00	13.4X
GUN	58.13	293	P	28	33.10	-0.5
IMA	63.41	23	P	29	08.50	-0.1
			pP	29	18.00	31km
FBA	65.33	25	eP	29	22.00	1.1
	1.0s	5.00nm			4.6mb	
POO	70.13	284	eP	29	50.00	-1.8
INK	71.54	23	eP	30	08.00	8.6X
MBC	75.72	14	eP	30	24.00	0.3
	1.0s	11.00nm			4.8mb	
GMW	78.43	44	P	30	39.70	0.5
			pP	30	49.60	32km
PNT	80.15	42	eP	30	49.00	0.5
ORV	80.94	52	eP	30	52.70	-0.2
			epP	31	03.20	33km
ARN	81.40	54	P	30	55.40	0.0
			pP	31	05.60	32km
PRS	81.76	55	eP	30	57.30	0.1
			epP	31	07.40	32km
			esP	31	15.00	
NEW	82.00	42	P	30	58.10	-0.2
	1.0s	8.13nm			4.7mb	
			pP	31	08.20	32km
CMB	82.13	53	eP	30	59.40	0.2
			epP	31	09.40	32km
			esP	31	16.50	
FRI	82.90	54	eP	31	03.00	-0.1
			epP	31	13.20	32km
			esP	31	21.70	
KVN	83.62	51	P	31	07.00	0.0
			pP	31	17.30	33km
TNP	84.54	52	P	31	11.60	-0.1

27d 04h

	0.7s	1.39nm			4.3mb	
SES	85.21	39 ePc	31	14.60	0.0	
		pP	31	24.00	30km	
KEV	85.47	343 eP	31	11.00	-4.4X	
SOD	86.92	341 iP	31	22.80	0.2	
		i	31	32.80		
DUG	87.22	49 P	31	25.00	0.2	
		pP	31	35.30	32km	
IMW	87.37	45 P	31	26.40	0.7	
		pP	31	36.00	30km	
MSU	88.21	51 P	31	30.10	0.4	
		pP	31	40.10	31km	
SUF	89.73	337 eP	31	36.00	-0.1	
NUR	91.60	335 eP	31	56.00	11.2X	
RSSD	91.93	43 P	31	46.80	-0.2	
		pP	31	56.50	30km	
ANMO	93.75	52 P	31	55.80	0.3	
	0.7s	1.93nm			4.6mb	
		pP	32	06.30	33km	
ALQ	93.75	52 eP	31	55.10	-0.4	
	1.0s	2.50nm			4.6mb	
HFS	95.96	339 ePKP	32	02.80	-2.1	
	0.5s	0.60nm			4.3mb	
NB2	96.13	340 P	32	06.50	0.7	
	0.7s	1.80nm			4.6mb	
BCAO	125.82	287 ePKPc	37	35.20	-6.0X	
	0.6s	15.00nm				
		ic	39	03.60		
KIC	145.01	306 PKP	38	16.20	-0.4	
TIC	145.05	307 PKP	38	16.22	-0.5	
LIC	145.32	307 PKP	38	17.20	0.1	
ZOBO	145.65	96 PKP	38	19.00	0.6	
LPB	145.69	97 PKP	38	15.00	-3.2X	
	S.D. = 0.8	on 36 of 43 obs.				

---

* MAY 27, 1990 04h 30m 17.38± 3.33s
15.492 N ± 9.7km 147.824 E ±25.5km
DEPTH = 38.9 ± 22.1 km
4.5mb (4 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.42	236 eP	31	10.20	0.5	
		eS	31	47.20		
GUMO	3.43	237 eP	31	09.30	-0.5	
MAT	22.65	340 (P)	35	16.00	-0.4	
	0.9s	6.72nm			4.1mb	
BJI	36.85	318 eP	37	24.00	0.2	
	1.5s	13.00nm			4.6mb	
WB5	37.56	201 eP	37	30.00	0.1	
WRA	37.63	201 Pc	37	30.50	0.0	
	0.7s	4.70nm			4.5mb	
XAN	39.56	305 P	37	46.00	-0.7	
GYA	39.80	293 P	37	50.00	1.2	
CD2	43.02	299 eP	38	14.80	-0.3	
LZH	44.14	306 P	38	25.00	0.7	
	1.5s	44.00nm			5.0mb	
WMQ	57.95	312 P	40	09.50	1.1	
GUN	58.34	293 P	40	11.40	-0.3	
PKI	58.77	293 P	40	14.50	-0.2	
DMN	59.03	293 P	40	15.70	-0.8	
GKN	59.43	294 P	40	18.50	-0.6	
KIC	145.21	307 PKP	49	53.60	0.1	
	S.D. = 0.7	on 16 of 16 obs.				

? MAY 27, 1990 05h 30m 07.71± 2.52s
5.580 S ±33.4km 144.964 E ±10.4km
DEPTH = 108.0 ± 15.9 km
4.3mb (1 obs.)
PAPUA NEW GUINEA (202)

MNDI	1.42	246 iP	30	34.00	0.0	
		eS	30	59.00		
LAT	2.29	118 eP	30	45.00	0.1	
PMG	4.38	150 eP	31	13.00	-0.2	
WB5	17.56	215 eP	34	07.20	0.1	
WRA	17.62	215 Pc	34	08.20	0.2	
	0.4s	7.10nm			4.3mb	
KNA	18.84	236 iPd	34	21.80	-0.2	
	S.D. = 0.3	on 6 of 6 obs.				

---

* MAY 27, 1990 05h 32m 58.06± 0.67s
15.379 N ±10.2km 147.833 E ±12.3km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.37	237 eP	33	48.50	-1.2	
		eS	34	27.20		
GUMO	3.38	239 eP	33	48.80	-1.0	
MAT	22.76	340 (P)	37	56.00	-2.6	
BJI	36.94	318 eP	40	04.50	-1.4	
	1.8s	29.00nm			4.8mb	
WB5	37.46	201 eP	40	11.00	0.6	
WRA	37.52	201 Pd	40	11.50	0.5	
	0.2s	3.20nm			4.8mb	
TIY	38.36	312 eP	40	18.00	0.1	
XAN	39.63	305 eP	40	31.50	2.9	
GYA	39.85	293 iPd	40	31.40	0.9	
BTO	41.31	315 eP	40	43.50	1.1	
CD2	43.08	299 eP	40	56.80	-0.1	
LZH	44.22	306 Pc	41	06.50	0.3	
	1.6s	62.00nm			5.2mb	
	Z 17s	0.20um			4.1MszX	
		pP	41	16.40	33kmX	
		sP	41	21.00		
CHG	46.74	281 eP	41	27.40	1.1	
WMQ	58.03	312 P	42	50.50	0.2	
MBC	75.84	14 eP	44	43.00	0.7	
	0.8s	3.00nm			4.3mb	
SES	85.22	39 eP	45	33.00	0.4	
APO	95.83	339 ePKP	46	20.60	-1.7	
	0.5s	1.00nm			4.5mb	
KIC	145.29	306 PKP	52	35.02	-0.1	
TIC	145.33	307 PKP	52	34.94	-0.2	
ZOBO	145.42	96 PKP	52	37.00	1.1	
LPB	145.46	97 PKP	52	34.00	-1.8	
LIC	145.60	307 PKP	52	35.92	0.3	
	S.D. = 1.3	on 22 of 22 obs.				

MAY 27, 1990 07h 29m 32.64± 0.53s
4.804 N ± 8.4km 31.743 E ± 8.3km
DEPTH = 10.0km (geophysicist)
5.0mb (20 obs.)
SUDAN (557)

NAI	7.88	140 iPd	31	39.50	9.3X	
	1.0s	90.00nm			5.9mb	
AAE	8.14	59 eP	31	35.00	1.0	
AWKL	18.52	2 eP	33	59.00	7.9X	
AGAL	18.55	3 eP	33	59.00	7.6X	
AKSR	18.76	4 eP	34	01.00	6.9X	
AKRL	18.77	3 eP	34	01.00	6.9X	
ASW	19.19	3 iPc	34	04.00	4.7X	
		eS	37	44.00		
KRI	21.60	186 iPn	34	23.00	-2.1	
		iSn	38	45.00		
RYD	24.42	34 eP	34	53.00	0.4	
HLW	24.92	359 eP	35	05.00	7.7X	
		eS	39	27.00		
BUL	24.98	187 iP	34	59.00	0.8	
		iSn	39	42.40		
MBH	25.01	6 eP	34	59.00	0.8	
PRNI	25.59	7 eP	35	03.00	-0.7	
DSI	26.84	7 eP	35	15.00	-0.2	
TIC	36.62	275 P	36	47.00	5.6X	
SKO	38.13	348 eP	36	54.50	0.8	
		i	37	01.00		
SRO	44.37	347 iP	37	44.80	-0.1	
		e	39	34.90		
ZST	45.01	346 eP	37	48.90	-1.2	
SPC	45.29	349 eP	37	50.70	-1.8	
APHE	45.55	319 eP	37	57.50	2.8	
OGA	45.57	340 iPc	37	55.80	1.0	
ALOJ	45.91	319 eP	38	00.50	3.0	
LPG	46.02	336 eP	37	58.30	-0.1	
	1.2s	16.35nm			4.9mb	
AAPN	46.04	320 iPc	38	00.00	1.5	
LPL	46.04	336 eP	37	58.40	-0.1	
	1.2s	13.40nm			4.8mb	
KRA	46.18	349 eP	37	58.80	-0.5	
KHC	46.79	344 iP	38	03.70	-0.5	
	1.2s	11.00nm			4.8mb	
		e	40	04.50		
PRU	47.31	345 eP	38	06.50	-1.7	
		e	40	05.50		
TOL	47.53	322 eP	38	04.00	-6.2X	
CAF	47.65	332 eP	38	12.00	1.0	
KSP	47.68	347 eP	38	10.50	-0.6	
		e	40	09.00		
LPO	47.90	331 eP	38	13.80	0.9	
BSF	47.91	337 eP	38	12.60	-0.6	
GRF	47.98	342 eP	38	12.40	-1.1	
	Z 22s	0.10um			3.7Msz	
		e	38	22.20		
		e	38	27.00		
SMF	48.16	334 eP	38	15.00	0.0	
	1.2s	26.80nm			5.2mb	
RJF	48.19	332 eP	38	16.10	0.9	
BRG	48.28	345 eP	38	14.80	-1.0	
	1.2s	11.00nm			4.8mb	
		e	40	13.60		
LBF	48.37	335 eP	38	16.60	0.0	
	1.3s	14.45nm			4.9mb	
MAF	48.40	333 eP	38	18.00	1.2	
	1.2s	23.80nm			5.1mb	
AVF	48.48	334 eP	38	17.60	0.2	
	1.2s	17.85nm			5.0mb	
BGF	48.53	334 eP	38	18.20	0.4	
TCF	48.61	333 eP	38	19.40	1.0	
	1.2s	29.75nm			5.2mb	
SSF	48.63	334 eP	38	17.40	-1.2	
	1.1s	7.35nm			4.6mb	
LOR	48.64	335 eP	38	17.60	-1.1	
	1.2s	17.85nm			5.0mb	
MOX	48.71	343 eP	38	18.00	-1.1	
LSF	48.89	332 eP	38	20.30	-0.3	
	1.0s	16.00nm			5.0mb	
CLL	48.92	344 iPc	38	19.80	-0.9	
	1.7s	21.00nm			4.9mb	
LDF	51.38	333 eP	38	39.50	-0.1	
	1.0s	18.00nm			5.0mb	
LPF	51.39	332 eP	38	38.80	-0.8	
	1.0s	14.00nm			4.8mb	
GKN	55.22	59 P	39	08.60	0.0	
DMN	55.52	60 P	39	11.20	0.3	
PKI	55.78	60 P	39	12.60	-0.2	
GUN	56.26	60 P	39	16.40	0.0	
HFS	56.89	349 ePKP	39	19.70	-0.2	
	0.5s	0.90nm			4.1mb	
EKA	57.64	337 P	39	26.00	0.8	
	1.5s	26.90nm			5.1mb	
SUF	57.94	357 iP	39	26.90	-0.2	
	0.7s	13.70nm			5.1mb	
NB2	58.20	348 P	39	27.20	-2.0	
	1.3s	24.20nm			5.1mb	
SOD	62.56	358 iP	39	58.30	-0.4	
KEV	64.93	358 eP	40	14.00	-0.2	
BJI	82.67	50 eP	42	00.50	2.5	
	S.D. = 1.1	on 51 of 60 obs.				

? MAY 27, 1990 07h 41m 26.62± 6.81s
18.788 N ±51.9km 66.322 W ±10.0km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR	0.64	138 iP	41	40.00	0.5	
SJG	0.69	166 iP	41	40.50	0.2	
		S	41	51.20		
PORP	0.79	202 iP	41	42.40	0.4	
CPD	0.84	153 iP	41	42.00	-0.8	
MGP	1.06	223 iP	41	46.40	-0.3	
		S	42	01.40		
	S.D. = 0.8	on 5 of 5 obs.				

---

* MAY 27, 1990 08h 47m 38.42± 0.65s
50.972 N ±13.3km 173.424 E ±10.8km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
ALEUTIAN ISLANDS REGION (16)

TTA	20.28	42 eP	52	13.50	-0.2	
KDC	20.81	58 e(P)	52	15.00	-4.1X	
IMA	22.49	35 eP	52	34.00	-2.0	
FBA	24.36	40 eP	52	53.70	-0.3	
INK	30.63	36 eP	53	52.00	0.8	
MBC	35.82	22 eP	54	36.50	0.4	
	0.8s	3.00nm			4.3mb	
PNT	41.60	65 eP	55	25.00	0.5	
EDM	43.22	57 ePd	55	38.00	0.3	
SES	45.86	60 eP	55	59.00	0.0	
KEV	57.12	347 eP	57	24.00	0.6	
ALQ	57.94	73 e(P)	57	30.00	0.1	
SOD	59.36	346 eP	57	37.00	-2.1	
SUF	63.74	344 iP	58	08.30	-0.3	
	0.7s	6.80nm			4.9mb	
NB2	67.43	351 P	58	32.00	-0.3	
	0.8s	4.20nm			4.6mb	
HFS	68.04	349 eP	58	34.30	-1.8	
	0.5s	2.90nm			4.6mb	
EKA	74.03	358 P	59	13.00	0.9	
	2.1s	51.10nm			5.2mb	

KSP	76.72	345	eP	59 28.20	0.7
PRU	77.82	346	eP	59 34.00	0.4
WB5	78.45	217	eP	59 36.80	-0.6
WRA	78.52	217	Pc	59 37.40	-0.4
	0.6s	1.30nm		4.1mb	
KHC	78.80	347	P	59 40.40	1.4
ZST	79.14	344	eP	59 42.70	1.8
GBA	83.28	283	P	00 03.00	-0.1
	0.9s	3.90nm		4.5mb	
S.D. = 1.1 on 22 of 23 obs.					

? MAY 27, 1990 09h 10m 50.21± 7.87s
23.913 N ±48.1km 121.828 E ±30.1km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD	0.27	308	iPd	10 55.80	-0.1
			eS	10 59.90	
TWC	0.69	2	ePc	11 03.80	-0.1
			eS	11 13.70	
TWO	0.98	292	ePd	11 08.80	0.0
TWZ	1.20	349	eP	11 12.20	-0.4
ANP	1.30	347	eP	11 14.80	0.5
			eS	11 22.80	
S.D. = 0.5 on 5 of 5 obs.					

% MAY 27, 1990 09h 17m 27.17± 1.75s
16.702 N ±18.0km 99.005 W ±10.8km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.83	282	iP	17 42.78	0.3
			iS	17 50.09	
III	1.72	345	iP	17 55.50	0.0
			iS	18 17.71	
OXX	2.22	80	iP	18 02.30	-0.2
			iS	18 32.80	
PPM	2.38	9	iP	18 06.50	1.3
			iS	18 38.08	
IIT	2.40	16	eP	18 08.00	2.8X
			iS	18 36.93	
UNM	2.62	356	(P)	18 14.00	5.6X
			(S)	18 47.00	
CRX	2.77	347	(P)	18 09.00	-1.4
IIC	3.06	356	(P)	18 22.60	8.0X
			iS	18 52.48	
IIJ	3.09	347	(P)	18 20.00	4.7X
			(S)	19 01.66	
MRX	3.64	325	(P)	18 27.90	5.4X
			(S)	19 09.00	
LVVM	3.88	38	(P)	18 33.75	7.9X
S.D. = 1.4 on 5 of 11 obs.					

& MAY 27, 1990 09h 43m 48.69s
64.839 N 147.384 W
DEPTH = 15.1km
CENTRAL ALASKA (1)
<AGS-P>.

F8A	0.19	290	iP	43 53.10	-0.2
			eS	43 56.03	
CCB	0.26	223	iP	43 54.27	-0.4
			eS	43 58.14	
HDA	0.47	157	iP	43 58.08	-0.1
			eS	44 04.63	
WRH	0.48	220	iP	43 58.19	-0.1
			eS	44 04.79	
NEA	0.77	251	eP	44 03.29	0.0
			eS	44 14.15	
DMW	1.06	137	eP	44 08.08	-0.2
			eS	44 22.73	
DDM	1.25	147	eP	44 10.95	-0.5
			eS	44 29.55	
MCK	1.30	212	eP	44 12.26	0.0
			eS	44 30.50	
RND	1.58	205	eP	44 16.02	-0.2
			eS	44 38.58	
FYU	1.95	26	eP	44 23.98	2.5
			eS	44 48.61	
KTH	2.02	232	eP	44 24.77	2.2
			eS	44 51.24	
CUT	2.76	209	eP	44 36.97	3.8
			eS	45 13.46	
TOA	2.80	168	eP	44 34.31	0.6
IMA	2.90	298	eP	44 35.16	-0.1
			eS	45 13.20	
SML	3.07	188	eP	44 39.37	1.8
			eS	45 18.83	
KLU	3.42	168	eP	44 40.15	-2.4
16 obs. associated					

• MAY 27, 1990 10h 01m 39.63± 3.52s
20.912 S ±16.2km 178.702 W ±11.5km
DEPTH = 601.0 ± 42.1 km
4.5mb (11 obs.)
FIJI ISLANDS REGION (181)

WB5	43.88	263	iPd	08 55.20	-0.9
WRA	43.89	263	Pc	08 55.70	-0.5
	0.9s	24.00nm		4.7mb	
SPA	69.22	180	iPc	11 49.40	0.5
	0.9s	11.82nm		4.4mb	
MAT	70.15	324	eP	11 54.00	-0.5
	0.7s	6.85nm		4.3mb	
NJ2	79.64	310	Pc	12 48.20	1.3
MDJ	80.48	325	eP	12 51.50	0.5
CN2	82.23	323	P	13 00.00	0.1
KVN	82.26	43	P	13 00.20	-0.2
TNP	82.28	44	P	13 00.80	0.2
	0.7s	7.44nm		4.3mb	
TIA	83.07	313	eP	13 04.90	0.6
SHW	84.06	36	P	13 09.20	0.1
GMW	84.61	34	P	13 12.20	0.6
RMW	85.08	35	P	13 14.10	0.2
MCW	85.30	33	P	13 15.60	0.7
TTA	85.46	10	P	13 15.50	0.0
	1.1s	17.97nm		4.7mb	
PMR	85.57	14	P	13 14.90	-1.0
	1.1s	20.31nm		4.7mb	
MSU	85.87	46	P	13 19.00	0.9
DPW	87.27	36	P	13 23.80	-0.6
PNT	87.36	34	eP	13 26.00	1.3
	0.9s	18.00nm		4.8mb	
ALQ	88.17	52	eP	13 29.00	0.0
	1.0s	5.75nm		4.4mb	
ANMO	88.17	52	P	13 29.20	0.2
	1.0s	6.25nm		4.4mb	
IMA	88.76	10	P	13 30.00	-1.0
	0.8s	5.17nm		4.5mb	
F8A	88.78	13	P	13 29.50	-1.4
	0.9s	25.52nm		5.1mb	
KMI	88.95	297	eP	13 35.00	2.2
BW06	89.72	43	P	13 35.50	-0.5
GOL	91.08	48	P	13 42.60	0.2
SES	92.59	36	eP	13 49.00	0.2
RSSD	93.91	44	P	13 54.50	-0.7
SOD	130.86	347	ePKP	19 43.00	-1.3
SUF	134.90	344	ePKP	19 50.00	-2.1
NUR	137.14	343	ePKP	19 57.00	0.6
NB2	139.31	353	PKP	19 51.20	-9.2X
	0.7s	2.20nm			
HFS	139.84	350	ePKP	19 52.00	-9.3X
	0.9s	8.80nm			
EKA	145.47	4	PKPc	20 11.80	0.7
	0.8s	10.10nm			
KRA	147.38	338	ePKP	20 17.40	3.1X
			e	20 21.90	
KSP	147.88	342	iPKPd	20 19.30	4.1X
			e	20 24.30	
SPC	147.99	336	ePKP	20 19.20	3.6X
CLL	148.31	346	ePKP	20 15.00	-0.8
LFK	148.33	304	iPKP	20 21.10	4.7X
8RG	148.49	345	iPKPd	20 20.00	3.9X
	1.4s	29.00nm			
			i	20 26.00	
PRU	149.14	343	PKPd	20 22.00	4.9X
	1.0s	14.50nm			
			e	20 29.00	
MOX	149.23	347	e(PKP)	20 22.00	4.8X
SRO	149.85	337	ePKP	20 23.90	5.7X
ZST	149.95	339	ePKP	20 24.20	5.8X
			e	20 33.00	
ENN	149.98	354	ePKP	20 23.50	5.2X
	0.9s	15.00nm			
			e	20 32.00	
			e	20 39.00	
MEM	150.13	354	PKP	20 24.40	5.9X
KHC	150.18	344	PKP	20 24.50	5.8X
	1.0s	10.50nm			
			e	20 33.70	
TNS	150.21	351	ePKPc	20 24.80	6.0X
GRF	150.22	347	ePKP	20 25.00	6.3X
			e	20 34.00	
BZS	150.24	331	ePKP	20 24.50	5.6X
SNF	150.37	356	PKP	20 24.90	6.0X
DOU	150.76	356	PKP	20 25.90	6.4X
CDF	152.15	351	ePKP	20 29.10	7.4X
	0.6s	3.60nm			
BSF	152.78	352	ePKP	20 26.00	3.4X
	0.6s	2.70nm			
S.D. = 0.9 on 33 of 54 obs.					

• MAY 27, 1990 10h 12m 37.05± 2.01s
14.637 N ±16.6km 23.524 W ±26.4km
DEPTH = 10.0km (geophysicist)
4.2mb (11 obs.)
NORTH ATLANTIC OCEAN (402)

MBO	6.37	91	iPc	14 12.30	-0.9
			iS	15 19.20	
TIO	22.04	40	iP	17 34.50	0.8
KUK	24.25	108	eP	17 56.00	0.6
WEGH	24.52	109	eP	17 57.00	-1.0
LEGH	24.63	109	eP	17 59.00	0.0
SHGH	24.65	108	eP	18 01.00	1.8
TEGH	24.80	109	eP	18 00.00	-0.7
EPF	34.93	31	eP	19 31.60	0.5
	0.8s	4.05nm		4.3mb	
LFF	36.53	29	eP	19 44.90	0.3
	0.8s	8.05nm		4.6mb	
LPO	36.56	30	eP	19 45.10	0.3
	0.8s	5.35nm		4.4mb	
MFF	37.39	27	eP	19 51.30	-0.5
	0.6s	2.70nm		4.2mb	
GRR	38.50	24	eP	20 00.20	-0.9
BGF	38.72	29	eP	20 03.20	0.2
	0.7s	4.95nm		4.3mb	
AVF	39.13	29	eP	20 06.30	-0.1
	0.6s	1.80nm		3.9mb	
SMF	39.26	30	eP	20 07.40	-0.1
	0.6s	1.80nm		3.9mb	
SSF	39.40	29	eP	20 08.20	-0.4
	0.7s	2.75nm		4.0mb	
LPG	39.96	34	eP	20 14.60	0.9
	0.7s	3.30nm		4.1mb	
LPL	39.97	33	eP	20 14.50	0.9
	0.7s	3.85nm		4.2mb	
HFS	52.90	22	eP	21 53.60	-1.7
	1.5s	20.40nm		4.8mb	
S.D. = 0.9 on 19 of 19 obs.					

? MAY 27, 1990 11h 13m 19.68± 1.07s
39.231 N ± 8.7km 27.826 E ±11.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.94	208	iPg	13 37.60	-0.1
			eSg	13 50.60	
EDC	1.12	1	ePn	13 40.40	-0.2
EZN	1.30	298	iPn	13 43.90	0.1
YLV	1.79	41	ePn	13 51.00	0.1
S.D. = 0.3 on 4 of 4 obs.					

MAY 27, 1990 12h 24m 46.57± 0.19s
15.544 N ± 4.2km 147.740 E ± 3.9km
DEPTH = 35.6km (4 depth phases)
5.1mb (19 obs.) 4.7Msz (5 obs.)
MARIANA ISLANDS REGION (215)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 12:24:45.9 0.8
Lat 15.50N 0.07 Lon 147.96E 0.10
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-4.11 0.53 Mtt= 2.07 0.54
Mff= 2.04 0.50 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 2.99 0.66
Principal Axes:
T Val= 5.04 Plg= 0 Azm=135
N -0.93 0 45
P -4.11 90 180
Best Double Couple:Mo=4.6*10**16
NP1:Strike=225 Dip=45 Slip= -90
NP2: 45 45 -90

GUA	3.39	234	eP	25 38.70	0.3
			eS	26 26.70	
GUMO	3.39	235	eP	25 38.50	0.0
RAB	20.09	167	e(P)	29 18.00	-2.2

27d 12h

```
MAT    22.57 340 eP     29 43.00  -2.1
       1.0s     48.00nm          4.9mb
                eS       33 46.00
DAV    23.28 251 eP     29 54.00   1.8
PMG    24.80 181 eP     30 07.00   0.2
QCP    25.75 272 eP     30 11.00  -4.9X
BAG    26.12 276 eP     30 20.00   0.5
SSE    28.78 307 Pc     30 41.50  -1.8
       0.6s     20.00nm          5.0mb
     E 14s      1.38um
QZH    28.85 294 eP     30 43.00  -1.0
MDJ    32.80 336 eP     31 18.00  -0.7
     Z 24s      1.20um           4.5MszX
     N 14s      0.70um
                eS       36 28.00
SNY    33.47 326 eP     31 23.00  -1.5
     N 30s      1.80um
     E 30s      1.10um
CN2    33.96 331 eP     31 27.80  -0.9
     Z 26s      1.60um           4.6MszX
WHN    34.01 302 eP     31 29.00  -0.3
QIZ    36.31 281 eP     31 50.20   1.2
QIS    36.75 193 iPd    31 52.00  -0.7
       1.5s     76.00nm          5.4mb
BJI    36.76 318 eP     31 52.00  -0.6
       1.7s     89.00nm          5.4mb
     Z 24s      0.96um           4.5MszX
                eS       37 34.00
WB5    37.58 201 eP     31 59.00  -0.6
WRA    37.65 201 Pd     31 59.80  -0.4
TIY    38.18 312 eP     32 05.00   0.3
     Z 28s      1.50um           4.7MszX
     N 13s      0.40um
XAN    39.47 305 Pc     32 15.10  -0.3
                S        38 15.00
GYA    39.70 293 iPd    32 18.80   1.2
                S        38 22.00
HHC    40.20 316 eP     32 21.00  -0.5
BTO    41.13 315 eP     32 30.00   0.9
DZM    41.63 153 iPc    32 32.50  -0.9
CD2    42.93 299 eP     32 43.70  -0.2
     Z 22s      0.50um           4.4Msz
                S        39 06.00
KMI    43.09 290 Pd     32 47.00   1.5
       2.0s     70.00nm          5.0mb
     Z 20s      0.80um           4.6Msz
                pP       32 57.00  34km
                sP       33 03.00
                eS       39 13.00
LZH    44.05 306 iPc    32 54.00   0.9
       1.5s    190.00nm          5.7mb
     Z 20s      0.80um           4.6Msz
     N 15s      1.00um
     E 15s     70.00um
                pP       33 05.00  38km
                sP       33 09.00
                PP       34 36.00
                eS       39 22.50
                sS       39 39.00
                eSS      42 30.00
LOE    44.08 279 eP     32 53.50   0.2
NST    45.77 277 eP     33 08.50   1.6
NNT    46.59 273 eP     33 07.70  -5.6X
CHG    46.62 281 eP     33 14.00   0.4
       0.8s     14.55nm          5.0mb
BDT    46.69 279 eP     33 15.00   0.9
IPM    47.16 262 ePc    33 20.80   2.9X
GTA    48.03 309 eP     33 24.80   0.2
     Z 20s      1.50um           5.0Msz
     E 15s      0.50um
                S        40 19.00
BWA    49.69 179 eP     33 37.10  -0.1
PSI    49.73 260 ePc    33 38.80   1.0
CAN    50.60 179 eP     33 44.20   0.1
BFD    52.66 185 eP     33 59.00  -0.6
TOO    52.87 182 eP     34 01.60   0.4
MRWA   54.04 215 eP     34 09.00  -0.9
WMO    57.85 312 P      34 38.00   0.7
     Z 20s      0.65um           4.7Msz
                eS       42 35.00
GUN    58.24 293 P      34 40.50  -0.1
PKI    58.67 293 P      34 43.00  -0.6
       0.7s     23.00nm          5.4mb
DMN    58.94 293 P      34 45.00  -0.4
       0.6s     37.00nm          5.7mb
GKN    59.34 294 P      34 47.70  -0.3
IMA    63.38  23 eP     35 14.00  -0.6
       1.0s      7.50nm          4.8mb
PMR    63.75  28 eP     35 15.40  -1.5
FBA    65.29  25 eP     35 25.50  -1.3
NDI    65.82 295 iPd    35 30.50  -0.4
HYB    66.03 282 iPd    35 32.00  -0.4
       1.0s     40.00nm          5.5mb
GBA    67.78 279 Pd     35 42.60  -0.9
       1.0s     13.80nm          5.0mb
POO    70.25 284 iPd    35 57.00  -1.7
INK    71.51  23 eP     36 05.00  -0.4
MBC    75.71  14 ePd    36 30.00   0.2
       1.0s     14.00nm          4.9mb
MAIO   79.58 305 eP     36 54.00   1.9
WDC    79.85  51 e(P)   36 54.50   1.2
PNT    80.08  42 eP     36 54.00  -0.3
       0.9s     12.00nm          4.9mb
ORV    80.85  52 eP     36 58.60   0.0
PRS    81.66  55 eP     37 03.50   0.6
NEW    81.93  42 eP     37 03.50  -0.6
       1.1s     10.80nm          4.8mb
                epP      37 15.00  38km
CMB    82.04  53 eP     37 05.30   0.4
FRI    82.81  54 eP     37 19.00  10.2X
BCH    82.95  56 eP     37 11.10   1.3
KVN    83.53  51 eP     37 13.00   0.2
ISA    84.10  55 eP     37 16.00   0.4
TNP    84.45  52 eP     37 17.00  -0.4
       1.0s      3.00nm          4.4mb
CLC    84.75  54 eP     37 19.00   0.2
MWC    84.80  56 eP     37 21.00   1.7
SBB    84.87  56 eP     37 19.00  -0.4
SES    85.15  39 eP     37 21.00   0.5
RVR    85.41  56 eP     37 17.00  -5.0X
GSC    85.51  55 eP     37 23.00   0.3
KEV    85.52 343 eP     37 23.00   1.1
PEC    85.61  56 eP     37 24.00   0.9
LRM    85.67  44 eP     37 23.60   0.2
PLM    86.00  57 eP     37 26.00   0.8
TPC    86.44  56 eP     37 28.00   0.8
SOD    86.97 341 iP     37 29.00  -0.1
GLA    87.72  56 eP     37 34.00   0.6
BW06   88.62  46 eP     37 39.00   1.2
FFC    88.68  33 eP     37 37.00  -0.5
       1.8s     55.00nm          5.6mb
SUF    89.79 337 eP     37 42.00  -0.6
NUR    91.66 335 eP     37 51.00  -0.2
RSSD   91.85  43 eP     37 52.50  -0.3
                epP      38 03.00  33km
GOL    92.67  48 eP     37 58.50   1.8
HFS    96.02 339 eP     38 09.80  -1.6
       0.6s      2.50nm          4.9mb
NB2    96.19 340 P      38 11.40  -0.8
       0.7s      2.50nm          4.8mb
SLR   122.86 249 ePKP   43 42.00   0.6
LKO   143.68 312 PKP    44 17.58  -3.0X
KIC   145.12 307 PKPd   44 22.88  -0.1
       0.5s     14.50nm
TIC   145.16 307 PKP    44 22.94  -0.1
LIC   145.43 307 PKP    44 23.86   0.4
ZOBO  145.53  96 PKP    44 25.00   0.7
       1.2s     27.03nm
LPB   145.57  97 PKP    44 22.00  -2.2
     S.D. = 0.9  on  89 of  95 obs.
-----------------------------------------
   MAY 27, 1990  12h 45m 03.57± 0.62s
   42.141 N ± 6.2km   19.168 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     MD 2.4 (TTG).

ULC      0.19 161 iPgc   45 06.90  -0.9
                 iSg     45 10.50
BDV      0.29 299 ePg    45 10.50   0.9
                 iSg     45 17.00
TTG      0.30  13 iPgc   45 09.70   0.0
                 iSg     45 14.90
HCY      0.58 302 ePg    45 15.30  -0.1
                 eSg     45 25.50
NKY      0.68 349 ePg    45 16.40  -0.8
                 eSg     45 27.20
BRY      0.89 329 ePg    45 20.50  -0.2
                 eSg     45 36.00
OHR      1.60 130 ePn    45 32.50   0.5
SKO      1.70  95 ePn    45 34.00   0.6
                 eSn     45 57.00
     S.D. = 0.7  on   8 of   8 obs.
-----------------------------------------
   MAY 27, 1990  13h 17m 43.27± 3.17s
   35.132 N ±35.5km   24.380 E ±15.7km
   DEPTH =  10.2 ±  7.5 km
 CRETE                             (370)

VAM      0.31 332 ePg    17 50.00   0.2
VLI      1.97 324 ePn    18 16.50  -0.5
ITM      2.85 317 ePn    18 30.00   0.4
SMG      3.25  37 ePb    18 42.50   7.3X
YER      3.74  57 iPg    18 42.40   0.1
KSL      4.35  75 ePn    18 51.50   0.6
ELL      4.77  69 ePn    18 56.90  -0.1
BCK      5.53  63 ePn    19 07.00  -0.7
OHR      6.60 336 eP      19 15.00  -7.8X
KHC     16.10 334 P       21 29.70  -1.4
PRU     16.50 337 eP      21 37.50   1.4
GRF     17.46 330 e(P)    21 45.00  -3.2X
HFS     25.96 348 ePKP    23 11.40  -5.9X
       2.1s     94.40nm          5.1mb X
     S.D. = 1.0  on   9 of  13 obs.
-----------------------------------------
   MAY 27, 1990  14h 00m 36.37± 0.23s
   12.703 N ± 3.5km  120.933 E ± 5.2km
   DEPTH =  33.0km  (normol)
   5.1mb ( 19 obs.)  4.7Msz (  8 obs.)
 MINDORO, PHILIPPINE ISLANDS       (250)

QCP      1.93   4 iP      00 58.00  -9.4X
BAG      3.70 355 eP      01 32.00  -0.8
DAV      7.21 140 eP      02 20.80  -1.4
KKM      8.09 216 ePc     02 42.00   7.4X
TSM      8.89 199 ePc     02 48.50   3.0
HKC     11.52 327 iP      03 28.00   6.4X
QZH     12.37 350 P       03 32.00  -1.1
       4.0s    900.00nm          6.3mb X
     N 14s      1.80um
                pP       03 40.00
QIZ     12.38 302 eP      03 30.60  -2.7
     N 15s      1.90um
     E 17s      3.30um
GZH     12.60 326 eP      03 36.00  -0.1
     Z 12s      2.40um
     N 11s      1.00um
     E 12s      2.30um
SSE     18.31   1 P       04 49.50   0.0
       4.0s    600.00nm          5.1mb X
     Z 20s      1.50um           5.0MszX
     N 13s      0.70um
     E 13s      0.80um
                sS       08 20.00
WHN     18.77 342 Pc      04 56.00   0.8
     Z 20s      1.90um           4.5MszX
     N 16s      2.70um
     E 12s      1.50um
                eS       08 22.00
LOE     19.12 287 eP      04 59.00  -0.5
GYA     19.16 318 P       05 01.00   1.0
     N 13s      1.90um
     E 13s      1.00um
                pP       05 12.00  47kmX
NJ2     19.35 355 Pc      05 03.50   1.4
       4.5s    700.00nm          5.2mb X
     Z 16s      0.90um           4.8Msz
     N 14s      1.00um
     E 12s      0.50um
NST     20.38 281 eP      05 13.50   0.4
KGM     20.42 240 eP      05 14.80   1.2
NNT     20.69 272 eP      05 04.00 -12.3X
                e        12 02.00
SNG     20.74 257 eP      05 17.00   0.1
       1.3s   1819.23nm          6.3mb X
                eS       08 30.80
KMI     21.15 308 Pc      05 22.00   0.7
     Z 18s      2.00um           4.5Msz
     N 10s      0.80um
     E 10s      0.50um
                pP       05 32.00  39kmX
IPM     21.26 249 ePd     05 23.20   1.0
       0.9s     35.20nm          4.8mb
BDT     21.65 285 eP      05 28.50   2.4
       1.1s     50.80nm          4.9mb
CHG     22.01 289 ePd     05 29.70   0.0
       1.0s     48.75nm          4.9mb
                eS       09 32.00
TIA     23.66 352 eP      05 44.40  -1.3
     Z 18s      1.30um           4.4Msz
     N 14s      0.70um
```

	E	14s		0.80um					COOL	43.34	180	eP	08	36.80	-0.3	GTA	47.93	309	eP	12	42.40	0.3
XAN		23.89	335	P	05	47.60	-0.4		KLB	44.15	184	eP	08	43.10	-0.6	LSA	53.53	296	P	13	26.10	1.0
	N	14s		2.10um					MUN	44.66	186	eP	08	47.00	-0.8	WMQ	57.76	312	P	13	55.50	0.5
				S	09	58.00			POO	45.61	284	eP	08	53.50	-2.2	GUN	58.14	293	P	13	58.20	0.0
PSI		23.94	247	ePd	05	49.40	0.8		CMS	50.01	152	iPc	09	30.00	0.3	PKI	58.57	293	P	14	00.70	-0.5
CD2		24.08	322	eP	05	49.70	-0.2		ADE	50.32	161	iPc	09	32.00	-0.1	DMN	58.84	293	P	14	02.60	-0.4
	Z	16s		1.30um			4.5MszX			0.8s		35.82nm			5.4mb		0.5s		29.00nm			5.7mb
	N	13s		2.50um					COO	52.33	146	eP	09	47.00	-0.4	GKN	59.24	294	P	14	05.40	-0.3
				eS	10	05.50			BFD	53.62	159	eP	09	56.00	-0.7	FBA	65.29	25	eP	14	44.80	-1.2
TIY		26.04	345	Pd	06	08.20	-0.3			1.0s		20.00nm			5.1mb		0.8s		3.45nm			4.5mb
	Z	17s		2.40um			4.8MszX		BWA	53.65	152	eP	09	58.40	1.3	NDI	65.72	295	iPc	14	40.50	-0.1
	N	13s		1.20um					CAN	54.66	152	eP	10	04.70	0.2	HYB	65.94	282	iPc	14	50.80	-0.1
				pP	06	14.00	21kmX		CNB	54.83	152	iPc	10	06.10	0.3		1.0s		35.00nm			5.4mb
				eS	10	33.00				1.1s		47.00nm			5.4mb	GBA	67.69	279	Pc	15	00.50	-0.7
				sS	10	52.00			MAIO	59.62	305	eP	10	39.00	-0.9		0.5s		3.80nm			4.7mb
DL2		26.10	1	eP	06	10.50	1.6			0.8s		9.88nm			5.0mb	POO	70.15	284	eP	15	14.50	-2.0
	Z	16s		1.00um			4.4MszX					eS	19	02.00		MBC	75.69	14	eP	15	48.00	0.0
	N	14s		1.40um					IMA	76.61	25	eP	12	26.40	1.1		0.6s		7.00nm			4.8mb
	E	14s		1.40um						1.3s		14.20nm			4.8mb	GMW	78.39	44	P	16	03.30	-0.2
				eS	10	40.00			QTFJ	77.91	300	Pd	12	33.70	0.6	SHW	79.01	45	P	15	56.60	-10.5X
MTN		27.32	158	iPd	06	19.00	-1.3		FBA	79.14	26	eP	12	39.00	-0.1	LON	79.19	44	P	16	07.80	-0.2
		1.1s		86.00nm			5.3mb		SALJ	79.40	301	Pc	12	41.90	0.7	MAIO	79.48	305	iPd	16	11.00	1.1
BJI		27.55	352	eP	06	21.00	-1.2		KFNJ	79.43	300	Pc	12	42.50	1.3		1.0s		10.00nm			4.8mb
		1.8s		48.00nm			4.9mb		KEV	79.54	339	eP	12	44.00	2.9	BKS	80.70	53	e(P)	16	17.70	1.5
	Z	17s		1.23um			4.6MszX		LISJ	79.69	300	Pc	12	43.00	0.4	ORV	80.90	52	eP	16	17.00	-0.2
	N	14s		0.77um					DSI	79.72	300	eP	12	44.00	1.1	ARN	81.36	54	P	16	19.80	0.1
				PP	07	10.00			SOD	80.03	337	iP	12	43.60	-0.2	PRS	81.71	55	eP	16	22.10	0.6
LZH		27.91	329	P	06	25.50	-0.2		PRNI	80.23	299	eP	12	47.00	1.3	NEW	81.96	42	P	16	22.70	0.1
		1.5s		120.00nm			5.4mb		MBH	80.42	298	eP	12	57.00	10.4X		0.9s		11.51nm			4.9mb
	Z	20s		3.20um			4.9Msz		SUF	81.00	332	eP	12	48.00	-1.0	CMB	82.09	53	eP	16	23.90	0.4
	N	13s		1.50um					NUR	82.12	330	eP	13	09.00	14.2X	PRI	82.31	55	eP	16	25.60	0.8
	E	15s		2.00um					ALT	82.75	308	eP	12	59.00	0.3	FRI	82.86	54	eP	16	27.80	0.4
				ePP	07	10.00			ELL	83.33	306	eP	13	02.00	0.2	KVN	83.58	51	P	16	31.30	-0.1
				eS	11	03.00			VRI	83.90	316	ePc	13	05.00	0.6	TNP	84.50	52	P	16	36.00	0.0
				sS	11	25.00			INK	83.94	21	eP	13	04.00	-0.1		0.8s		1.96nm			4.3mb
MAT		28.36	30	(P)	06	31.00	1.4		MBC	84.47	12	eP	13	07.00	0.3	PAS	84.79	56	eP	16	20.00	-17.3X
		1.1s		8.86nm			4.4mb		UPP	85.68	330	iP	13	12.30	-0.6	CLC	84.80	54	eP	16	37.00	-0.4
SNY		29.11	4	eP	06	36.40	0.2		KRA	87.30	321	eP	13	22.00	0.9	MWC	84.86	56	eP	16	39.00	1.1
		1.8s		100.00nm			5.2mb					e	13	26.00		SBB	84.92	56	eP	16	38.00	0.0
	Z	18s		1.70um			4.7Msz		HFS	87.45	331	ePKP	13	20.00	-1.6	SES	85.17	39	ePc	16	39.00	0.1
	N	16s		1.20um						1.4s		45.60nm			5.5mb	KEV	85.45	343	iP	16	41.00	1.1
				eS	11	19.00			VAY	87.89	312	eP	13	25.70	1.6		0.6s		9.10nm			5.2mb
HHC		29.22	345	eP	06	36.60	-0.8		NB2	88.24	333	P	13	24.40	-1.1	RVR	85.46	56	eP	16	41.00	0.3
	Z	18s		1.90um			4.8Msz			1.1s		8.20nm			4.9mb	GSC	85.56	55	eP	16	41.00	-0.3
KNA		29.31	164	eP	06	37.50	-0.8		KSP	89.28	322	eP	13	31.40	0.8	PEC	85.66	56	P	16	41.40	-0.3
BTO		29.40	343	eP	06	37.00	-2.0		PRU	90.62	322	eP	13	37.50	0.7				pP	16	51.60	32kmX
	N	16s		1.50um								e	14	00.00		SOD	86.90	341	iP	16	47.00	-0.1
	E	14s		1.80um					BRG	90.66	323	eP	13	37.00	0.0	GLA	87.77	56	eP	16	50.00	-2.0
CN2		31.23	6	eP	06	57.00	2.0			1.2s		12.00nm			5.1mb	MSU	88.17	51	P	16	54.60	0.5
	Z	18s		1.60um			4.7Msz					e	13	45.60		DAU	88.24	49	P	16	54.30	-0.2
	N	15s		1.10um								i	13	54.20		SUF	89.72	337	iP	17	00.20	-0.4
	E	15s		0.60um					CLL	91.06	323	eP	13	43.00	4.2X		0.5s		4.30nm			5.0mb
				eS	12	04.00			KHC	91.52	321	eP	13	41.50	0.5	NUR	91.58	335	iP	17	08.00	-1.2
LSA		32.37	306	P	07	04.60	-1.2		ZOBO	170.54	113	ePKP	20	45.00	1.6		0.7s		12.00nm			5.4mb
				S	12	18.60				S.D. = 1.1		on 88 of 97 obs.				RSSD	91.89	43	P	17	11.00	-0.3
GTA		32.50	329	eP	07	05.60	-0.8		----------							GOL	92.71	48	P	17	15.80	0.6
	Z	18s		2.90um			5.0Msz			MAY 27, 1990 14h 04m 04.61± 0.26s							0.7s		3.64nm			4.9mb
	E	14s		2.80um						15.586 N ± 6.7km 147.645 E ± 4.3km						HFS	95.95	339	eP	17	27.40	-2.0
				eS	12	16.50				DEPTH = 33.0km (normal)							0.6s		1.90nm			4.7mb
MDJ		32.66	11	Pc	07	10.80	3.3X			4.9mb (18 obs.)						NB2	96.12	340	P	17	29.30	-0.9
	Z	20s		1.90um			4.8Msz			MARIANA ISLANDS REGION					(215)		0.7s		2.90nm			4.9mb
				eS	12	24.00										KIC	145.02	307	PKP	23	40.58	-0.6
MBL		33.67	182	eP	07	15.50	-1.0		GUA	3.34	233	eP	04	54.80	-1.0		0.6s		18.00nm			
WB5		34.97	158	iPc	07	26.50	-1.3					eS	05	34.30		TIC	145.06	307	PKP	23	40.50	-0.7
WRA		35.02	158	P	07	09.00	-19.2X		GUMO	3.34	234	eP	04	54.70	-1.1		0.6s		17.00nm			
		0.8s		1.20nm					CN2	33.88	331	eP	10	45.00	-1.3	LIC	145.33	307	PKP	23	41.46	-0.2
GUN		36.03	300	P	07	36.20	-1.0		WHN	33.91	302	eP	10	47.50	0.8		0.5s		18.00nm			
PKI		36.33	299	P	07	38.30	-1.3		BJI	36.67	318	eP	11	09.50	-0.6	ZOBO	145.62	96	PKP	23	43.00	0.2
DMN		36.60	299	P	07	40.50	-1.3			1.7s		85.00nm			5.4mb		1.2s		22.97nm			
GKN		37.11	300	P	07	44.60	-1.4		WB5	37.58	201	eP	11	18.00	0.0	LPB	145.66	97	PKP	23	39.00	-3.7X
QIS		37.81	151	iPc	07	50.60	-1.1		WRA	37.65	201	Pc	11	20.50	1.9		S.D. = 0.9		on 64 of 67 obs.			
		1.3s		56.00nm			5.3mb			0.6s		5.50nm			4.6mb	----------						
WARB		39.05	172	iPc	08	01.50	-0.5		TIY	38.09	312	eP	11	23.00	0.8	*	MAY 27, 1990 14h 30m 06.88± 0.59s					
MEKA		39.15	183	iPc	08	02.60	-0.2		XAN	39.37	305	P	11	33.10	0.2		15.559 N ± 8.4km 147.723 E ±10.4km					
CTA		41.02	142	iP	08	19.00	0.7		GYA	39.60	293	P	11	37.00	2.0		DEPTH = 33.0km (normal)					
HYB		41.13	282	eP	08	19.00	-0.4		HHC	40.11	316	eP	11	39.00	-0.1		4.8mb (8 obs.)					
		1.2s		50.00nm			5.1mb		BTO	41.04	315	eP	11	47.00	0.3		MARIANA ISLANDS REGION					(215)
MRWA		41.95	186	eP	08	26.20	0.4		CD2	42.83	299	P	12	02.00	0.6							
WMQ		42.14	324	P	08	28.00	0.6		LZH	43.95	306	Pd	12	11.00	0.4	GUA	3.38	234	eP	30	57.80	-0.9
	N	17s		1.74um						1.6s		160.00nm			5.6mb				eS	31	37.20	
				pP	08	40.50	46kmX			Z 15s		1.20um			4.9MszX	GUMO	3.39	235	eP	30	57.50	-1.3
				PP	10	05.00				E 10s		0.70um				MAT	22.55	340	eP	35	04.00	-1.4
				eS	14	43.00						pP	12	23.00	43kmX		1.0s		20.00nm			4.5mb
				SS	17	48.00						PP	13	51.00		MDJ	32.78	336	Pc	36	39.00	-0.1
GBA		42.32	276	Pd	08	28.40	-0.7		CHG	46.52	281	eP	12	31.40	0.3	CN2	33.94	331	eP	36	48.60	-0.5
		1.0s		24.10nm			4.9mb			0.9s		11.13nm			4.8mb	WHN	33.98	302	eP	36	50.00	0.3
KOD		42.63	271	eP	08	32.00	-0.1		BDT	46.59	279	eP	12	33.60	2.0	BJI	36.74	318	eP	37	13.00	0.0

27d 14h

	1.5s	24.00nm		4.9mb		
WB5	37.58	201 eP	37 29.40	9.1X		
WRA	37.65	201 P	37 23.00	2.1		
	0.8s	2.10nm		4.1mb		
TIY	38.16	312 eP	37 25.80	0.7		
XAN	39.44	305 P	37 36.00	0.2		
GYA	39.68	293 P	37 39.60	1.6		
HHC	40.18	316 eP	37 42.40	0.5		
CD2	42.90	299 eP	38 04.00	-0.3		
LZH	44.02	306 Pd	38 14.50	1.0		
	1.8s	81.00nm		5.2mb		
	Z 14s	0.30um		4.4MszX		
CHG	46.60	281 eP	38 34.90	0.9		
WMQ	57.83	312 P	39 58.00	0.3		
GUN	58.22	293 P	40 01.00	-0.1		
	0.8s	31.00nm		5.4mb		
PKI	58.65	293 P	40 03.20	-0.9		
DMN	58.92	293 P	40 05.50	-0.3		
GKN	59.32	294 P	40 08.10	-0.4		
HYB	66.01	282 iPc	40 52.50	-0.4		
	1.0s	30.00nm		5.3mb		
MBC	75.70	14 eP	41 51.00	0.7		
MAIO	79.56	305 eP	42 14.00	1.5		
KEV	85.50	343 eP	42 44.00	1.6		
SOD	86.95	341 iP	42 49.80	0.2		
SUF	89.77	337 eP	43 02.00	-1.1		
HFS	96.00	339 eP	43 30.20	-1.7		
	0.5s	0.90nm		4.5mb		
NB2	96.17	340 P	43 31.90	-0.8		
	0.7s	2.00nm		4.7mb		
KIC	145.10	307 PKPd	49 43.24	-0.3		
	0.7s	11.50nm				
TIC	145.13	307 PKPd	49 43.18	-0.5		
LIC	145.40	307 PKP	49 44.14	0.1		
ZOBO	145.55	96 PKP	49 46.00	1.0		
		eLR	21 08.00			
LPB	145.59	97 ePKP	49 43.00	-1.8		
	S.D. = 1.0	on 33 of 34 obs.				

& MAY 27, 1990 14h 56m 39.10s
48.747 N 123.278 W
DEPTH = 59.5km
VANCOUVER ISLAND REGION (25)
<PGC>. CL 2.8 (SEA). Felt mildly in the Victoria area.

SNB	0.08	68 Pd	56 48.26	1.0		
PGC	0.15	230 Pd	56 48.09	-0.2		
		S	56 54.50			
MCW	0.30	103 Pd	56 49.30	0.0		
		S	56 56.38			
VGZ	0.33	185 Pc	56 49.44	-0.1		
		S	56 56.73			
OHW	0.65	130 P	56 52.96	0.1		
STW	0.65	204 Pc	56 52.73	-0.1		
		S	57 03.77			
BIB	0.66	358 Pc	56 52.95	0.1		
		S	57 02.70			
NAB	0.67	315 Pd	56 53.17	0.1		
		S	57 03.24			
HNB	0.70	41 Pc	56 53.28	-0.1		
		S	57 03.31			
BLN	0.77	164 P	56 54.24	-0.1		
PFB	0.79	258 Pc	56 54.16	-0.4		
		S	57 05.73			
VDB	0.82	70 Pc	56 54.99	0.0		
CMW	0.83	112 Pd	56 55.75	0.5		
		S	57 08.86			
OBC	0.89	217 Pc	56 56.09	0.2		
WPB	0.91	3 Pc	56 56.11	0.0		
		S	57 07.94			
MBW	0.91	87 Pc	56 56.74	0.5		
SHB	0.94	336 Pc	56 56.57	0.0		
		S	57 09.40			
MGB	0.97	286 P	56 56.66	-0.3		
		S	57 10.03			
OSD	0.97	197 Pc	56 57.65	0.6		
		S	57 11.62			
OTR	0.97	227 Pc	56 57.29	0.3		
OSP	0.99	243 Pc	56 56.87	-0.2		
PGW	1.03	154 P	56 58.05	0.4		
JCW	1.05	121 Pc	56 58.53	0.5		
OFK	1.07	222 Pc	56 58.49	0.3		
HDW	1.11	172 P	56 58.98	0.2		
OOW	1.18	211 Pc	57 00.01	0.3		
RPW	1.21	104 Pc	57 00.58	0.4		
BLH	1.23	137 P	57 01.56	1.1		
GMW	1.24	164 P	57 00.80	0.2		
HTW	1.38	133 P	57 03.27	0.7		
WHB	1.40	9 P	57 03.17	0.4		
OBH	1.48	196 Pc	57 03.70	-0.1		
RMW	1.62	142 P	57 06.85	1.0		
CPW	1.78	177 Pc	57 08.12	0.1		
GHW	1.84	158 P	57 08.97	0.2		
ONR	1.90	190 Pc	57 09.66	0.0		
FMW	2.11	149 Pc	57 13.15	0.3		
APW	2.14	168 Pc	57 13.09	0.0		
BMW	2.27	179 Pc	57 14.86	-0.1		
KOSW	2.40	162 P	57 17.16	0.4		
GLK	2.46	152 P	57 18.44	0.8		
TDL	2.50	163 P	57 18.78	0.5		
STD	2.61	164 P	57 20.24	0.5		
RVW	2.62	172 P	57 20.01	0.1		
JLK	2.71	163 P	57 21.89	0.7		
LVP	2.74	167 P	57 21.91	0.2		
ASR	2.84	156 Pd	57 23.56	0.5		
	47 obs. associated					

MAY 27, 1990 15h 33m 23.74± 0.82s
34.467 N ± 4.9km 23.978 E ± 3.1km
DEPTH = 13.7 ± 4.8 km
4.5mb (29 obs.)
CRETE (370)
ML 4.4 (ATH).

VAM	0.96	11 ePg	33 40.00	-1.6		
VLI	2.40	340 iPbd	34 06.00	2.8		
ITM	3.18	329 ePn	34 15.00	0.7		
ATH	3.50	357 ePn	34 20.00	1.1		
SMG	3.98	35 ePn	34 27.50	1.9		
YER	4.40	52 iPn	34 32.40	0.8		
CIN	4.57	46 eP	34 36.00	2.0		
VLS	4.60	325 ePn	34 33.80	-0.7		
IZM	4.73	33 ePn	34 37.70	1.3		
NEO	4.87	353 ePn	34 38.20	-0.1		
KSL	4.87	69 ePn	34 39.20	0.9		
ELL	5.34	63 ePn	34 46.00	0.9		
EZN	5.67	19 eP	34 51.00	1.5		
KHL	5.90	48 eP	34 54.50	1.6		
BCK	6.14	59 iP	34 59.00	2.8X		
KEK	6.21	329 ePn	34 56.50	-0.7		
ALT	6.72	45 eP	35 05.00	0.5		
RDO	6.78	10 ePn	35 04.30	-0.9		
PPCY	6.91	84 eP	35 05.50	-1.5		
VAY	6.93	351 iPn	35 07.50	0.2		
OHR	7.09	340 ePn	35 07.00	-2.7		
		i	36 16.00			
		Lg	36 23.00			
MMB	7.11	358 iPd	35 09.00	-0.9		
KDZ	7.26	9 eP	35 12.00	0.0		
SOI	7.34	302 P	35 12.30	-0.7		
		eSn	36 31.50			
		eTT	41 50.00			
LCI	7.57	322 P	35 14.00	-2.2		
PLD	7.65	4 iP	35 22.00	4.7X		
CSS	7.72	84 eP	35 16.30	-2.1		
HLW	7.75	124 eP	35 19.00	0.2		
		eS	36 43.92			
SKO	7.75	346 ePn	35 17.50	-1.4		
		i	36 40.00			
ATN	7.80	301 P	35 18.90	-0.6		
		eSn	36 42.00			
MEU	7.81	292 P	35 19.10	-0.6		
		eSn	36 41.30			
LFK	7.89	81 ePn	35 20.00	-0.9		
TDS	8.01	313 P	35 22.00	-0.4		
KOT	8.04	122 eP	35 28.00	5.1X		
ORI	8.20	315 P	35 24.00	-1.1		
		eSn	36 51.50			
MNO	8.26	297 P	35 25.00	-1.2		
		eSn	36 53.50			
GIB	8.77	296 P	35 32.50	-0.7		
		eSn	37 05.00			
MGR	8.78	313 P	35 31.80	-1.3		
		eSn	37 05.00			
FAI	8.82	291 P	35 34.00	0.3		
BBTK	8.83	50 eP	35 34.00	0.1		
SGO	9.18	314 P	35 37.00	-1.7		
		eSn	37 15.50			
BSS	9.63	314 P	35 43.50	-1.3		
		eSn	37 25.00			
DSI	10.00	104 eP	35 48.00	-1.9		
KFNJ	10.14	102 Pc	35 50.30	-1.6		
PRNI	10.18	111 eP	35 52.00	-0.5		
MKRJ	10.21	103 Pd	35 50.70	-2.3		
MASJ	10.22	102 Pd	35 52.00	-1.1		
MBH	10.36	114 eP	35 54.00	-0.9		
DUI	10.38	317 P	35 55.00	-0.3		
HQL	10.74	116 ePc	35 58.70	-1.4		
SDI	10.78	315 P	36 00.00	-0.7		
BADA	11.12	119 eP	36 06.70	1.5		
BZS	11.28	352 eP	36 03.50	-4.0X		
VRI	11.58	10 ePc	36 04.00	-7.6X		
AYN	11.66	115 eP	36 11.10	-1.5		
MNS	11.87	315 P	36 14.00	-1.4		
VBY	12.88	331 e(P)	36 46.40	17.4X		
PTJ	12.95	334 eP	36 25.00	-5.0X		
LJU	13.61	331 eP	36 38.00	-0.7		
		e(S)	38 08.00			
VOY	13.87	329 e(P)	36 39.80	-2.3		
SRO	13.99	344 eP	36 43.00	-0.6		
		e	37 02.70			
ZST	14.65	342 eP	37 03.50	11.3X		
		e	37 14.50			
FVI	14.79	328 P	36 55.00	1.0		
		eSn	39 28.50			
CTI	14.89	325 P	36 56.00	0.5		
		eSn	39 30.00			
SPC	14.97	350 eP	37 08.80	12.2X		
		e	37 32.30			
BHG	15.64	331 iPc	37 10.70	5.5X		
MDI	15.68	320 P	37 08.00	2.4		
MSL	15.75	78 ePd	37 13.00	6.4X		
		e	43 50.50			
KRA	15.86	350 eP	37 15.10	7.1X		
	Z 16s	0.80um				
	E 18s	2.30um				
		e	37 19.90			
SBF	15.87	311 eP	37 07.30	-1.0		
	0.8s	21.50nm		4.4mb		
KHC	16.55	335 eP	37 14.00	-2.9X		
FUR	16.65	329 iPc	37 20.60	2.5		
	1.2s	82.00nm		4.7mb		
WET	16.81	334 eP	37 22.40	2.3		
	1.3s	86.00nm		4.7mb		
PRU	16.99	339 P	37 23.50	1.2		
	Z 11s	0.50um				
	N 11s	0.60um				
	E 13s	0.50um				
		e	37 33.00			
BHD	16.99	88 eP	37 26.00	3.5X		
		e	42 40.00			
LPG	17.16	315 eP	37 26.20	1.4		
	1.2s	14.90nm		4.0mb		
KSP	17.30	343 eP	37 27.50	1.3		
SLY	17.66	80 eP	37 31.00	0.2		
GRF	17.88	332 eP	37 34.50	1.0		
	Z 21s	0.50um				
BRG	17.95	339 eP	37 35.60	1.3		
	1.4s	14.00nm		3.9mb		
		e	37 44.00			
MOX	18.51	335 eP	37 42.00	0.7		
BSF	18.54	321 eP	37 42.30	0.6		
	1.0s	20.00nm		4.3mb		
CLL	18.62	338 eP	37 41.00	-1.5		
	1.3s	26.00nm		4.3mb		
CDF	18.67	323 eP	37 43.80	0.4		
HAU	18.88	321 eP	37 46.10	0.3		
	1.2s	47.60nm		4.6mb		
TNS	19.42	329 ePd	37 52.30	-0.1		
LBF	19.58	316 eP	37 52.30	-2.0		
	1.2s	14.90nm		4.2mb		
CAF	19.78	308 eP	37 56.00	-0.3		
	1.6s	31.10nm		4.4mb		
LOR	19.80	316 eP	37 55.50	-1.1		
	1.2s	14.90nm		4.2mb		
BGF	20.03	313 eP	37 58.50	-0.4		
	0.9s	13.10nm		4.3mb		
LPO	20.25	307 eP	38 00.80	-0.5		
	0.9s	16.40nm		4.4mb		
TCF	20.28	312 eP	38 01.20	-0.4		
	1.1s	12.20nm		4.2mb		
LSF	20.69	311 eP	38 04.00	-1.8		
	1.0s	20.00nm		4.4mb		
MEM	20.78	326 P	38 08.20	1.5		
ENN	20.93	327 eP	38 08.00	-0.2		
	0.9s	23.00nm		4.6mb		
DOU	21.11	324 P	38 08.80	-1.2		
	0.7s	24.40nm		4.7mb		
		S	42 18.00			
WTS	21.43	330 eP	38 13.00	-0.3		

	1.0s	13.00nm			4.3mb	
ETOR	21.52	295	eP	38 17.00	2.5	
EVIA	21.65	289	e(P)	38 18.60	2.9X	
MFF	21.88	311	eP	38 18.20	0.3	
	1.0s	24.00nm			4.6mb	
APHE	22.57	284	iPc	38 27.80	2.8X	
ASMO	22.61	285	iPc	38 27.00	1.7	
EBAN	22.64	287	eP	38 26.00	0.5	
LDF	22.78	316	eP	38 27.00	0.2	
	1.0s	32.00nm			4.8mb	
ATEJ	22.84	284	iPd	38 29.00	1.4	
ALOJ	22.90	285	iPc	38 32.00	3.8X	
LPF	23.06	314	eP	38 29.40	-0.1	
	1.0s	48.00nm			5.0mb	
FLN	23.07	316	eP	38 28.60	-1.0	
	1.0s	32.00nm			4.8mb	
GUD	23.08	294	eP	38 31.80	1.8	
GRR	23.11	314	eP	38 29.00	-1.0	
	1.0s	24.00nm			4.7mb	
NUR	26.06	1	iP	38 58.00	-0.1	
HFS	26.54	348	ePKP	39 02.40	-0.2	
	0.4s	4.90nm			4.5mb	
NB2	27.83	347	P	39 12.00	-2.4	
	0.7s	4.10nm			4.3mb	
EKA	28.06	326	P	39 16.00	-0.4	
	1.1s	5.10nm			4.2mb	
SUF	28.31	2	eP	39 19.00	0.4	
SOD	32.98	2	iP	39 58.40	-1.5	
LKO	36.71	234	P	40 35.00	2.6	
TIC	38.50	231	P	40 52.00	4.6X	
KIC	38.54	230	P	40 50.40	2.7	
LIC	38.82	230	P	40 53.80	3.7X	
KSH	41.38	67	eP	41 12.50	1.4	
WMQ	49.19	59	P	42 14.50	1.1	
GKN	51.60	80	P	42 31.80	-0.3	
DMN	52.14	80	P	42 36.20	0.0	
PKI	52.40	80	P	42 37.80	-0.5	
	1.0s	36.00nm			5.3mb	
GBA	52.41	100	Pc	42 37.70	-0.3	
	1.1s	8.50nm			4.6mb	
GUN	52.65	79	P	42 39.50	-0.7	
LZH	63.38	63	eP	43 55.00	-0.1	
HHC	66.83	56	eP	44 18.00	0.7	
CHG	67.44	82	eP	44 22.30	0.9	
CHTO	67.44	82	eP	44 22.30	0.9	
	1.0s	6.25nm			4.7mb	
TIY	68.85	58	eP	44 30.00	0.0	
GYA	69.88	71	P	44 37.80	1.3	
BJI	70.33	55	eP	44 39.00	0.2	
TIA	72.86	58	eP	44 54.60	0.5	
CN2	74.36	47	eP	45 03.00	0.3	
PSI	76.07	96	ePc	45 14.60	1.7	
MAT	86.51	47	(P)	46 09.00	1.4	
	S.D. = 1.3		on 119 of 138 obs.			

? MAY 27, 1990 15h 34m 01.42± 1.79s
38.673 N ±17.0km 28.500 W ± 8.6km
DEPTH = 10.0km (geophysicist)
AZORES ISLANDS (405)
MG 3.7 (PDA). Felt (IV) in eastern Foial ond western Pico.

HOR	0.18	215	iPc	34 04.90	-0.5	
			iS	34 06.30		
PICO	0.18	161	iPd	34 05.80	0.3	
			eS	34 07.80		
CALA	0.18	240	eP	34 05.90	0.3	
			eS	34 08.10		
ADH	0.99	91	iPd	34 20.10	-0.1	
			eS	34 33.50		
	S.D. = 0.7		on 4 of 4 obs.			

---

* MAY 27, 1990 15h 46m 26.21± 0.78s
38.698 N ± 6.9km 20.901 E ±12.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.1 (ATH).

VLS	0.57	205	ePg	46 38.00	0.1	
KEK	1.33	320	ePg	46 50.00	-0.7	
ITM	1.72	152	ePg	46 57.00	0.7	
NEO	1.91	71	ePb	46 53.50	-5.6X	
OHR	2.41	358	ePn	47 05.50	-0.9	
VLI	2.55	140	ePn	47 07.00	-1.3	
VAY	2.92	26	ePn	47 06.00	-7.5X	
SKO	3.30	7	ePn	47 20.00	1.1	
	S.D. = 1.2		on 6 of 8 obs.			

---

* MAY 27, 1990 18h 11m 16.55± 1.15s
1.074 N ±22.1km 122.931 E ±19.9km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
MINAHASSA PENINSULA (265)

TSM	5.77	303	eP	12 42.40	0.2	
AAI	7.07	132	eP	13 03.00	2.5	
KKM	8.32	307	eP	13 16.00	-2.0	
IPM	22.15	279	eP	16 13.10	1.8	
WB5	23.65	152	eP	16 25.10	-0.9	
WRA	23.70	152	Pd	16 26.10	-0.3	
	0.8s	9.30nm			4.4mb	
PSI	24.05	274	ePd	16 32.00	2.2	
NANU	24.58	197	iPd	16 35.00	0.1	
QIS	27.00	144	iPd	16 56.00	-1.5	
	0.9s	10.00nm			4.4mb	
MRWA	30.84	192	eP	17 30.70	-1.3	
BJI	39.27	352	eP	18 55.00	11.1X	
	1.4s	11.00nm				
BWA	42.64	148	eP	19 14.40	2.6X	
CAN	43.64	149	eP	19 20.00	0.2	
HYB	46.54	293	eP	19 44.00	0.7	
GBA	46.70	288	Pd	19 43.70	-0.8	
	0.9s	4.70nm			4.5mb	
MAW	79.98	200	eP	23 23.00	-0.7	
BUL	94.42	250	iPd	24 23.60	-11.6X	
			i	24 31.80		
	S.D. = 1.5		on 14 of 17 obs.			

MAY 27, 1990 18h 13m 57.16± 0.56s
47.130 N ± 6.2km 10.789 E ± 5.0km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.9 (FUR), 2.7 (GRF).

OGA	0.31	148	iPgd	14 03.00	-0.7	
OSS	0.63	225	iPc	14 08.00	-1.9	
SCE	0.64	98	iPgc	14 08.80	-1.3	
SAX	0.99	277	ePd	14 15.60	-0.6	
FUR	1.09	17	iPgd	14 18.70	1.1	
VDL	1.11	235	ePc	14 16.80	-1.4	
CTI	1.24	151	P	14 20.30	0.1	
			eSg	14 35.50		
LLS	1.25	259	ePd	14 21.80	1.2	
FVI	1.47	111	P	14 23.90	0.3	
			eSg	14 41.50		
SAL	1.53	187	P	14 26.50	1.9	
			eSn	14 47.00		
BHG	1.54	67	eP	14 26.70	2.0	
MDI	1.55	209	P	14 29.00	4.3X	
			eSn	14 47.50		
ZLA	1.67	283	ePc	14 27.40	0.8	
TMA	1.67	233	ePd	14 28.50	1.7	
SLE	1.68	293	ePc	14 25.80	-1.0	
VAI	1.88	229	P	14 32.80	3.2X	
			eSn	14 58.00		
MMK	2.23	242	ePd	14 37.70	2.8X	
WET	2.45	34	iPc	14 36.50	-1.4	
DIX	2.55	247	ePd	14 43.80	4.2X	
GRF	2.58	6	ePg	14 46.80	7.1X	
			eSg	15 17.70		
KHC	2.74	42	ePn	14 41.00	-1.0	
			ePg	14 49.00		
			Sg	15 23.80		
	S.D. = 1.4		on 16 of 21 obs.			

MAY 27, 1990 18h 27m 57.36± 0.25s
40.869 N ± 5.0km 44.236 E ± 3.1km
DEPTH = 10.0km (geophysicist)
4.9mb (55 obs.)
TURKEY-USSR BORDER REGION (367)
Slight damage (VI) in the Spitak area, USSR. Felt in eastern Turkey.

TAB	3.23	149	e(P)	28 52.00	2.7X	
			e	28 54.00		
MSL	4.56	191	ePnc	29 10.50	2.5	
			ePg	29 20.50		
			eSn	29 58.50		
			e	30 28.50		
SLY	5.35	169	ePn	29 22.50	3.3X	
			iP*	29 39.00		
			ePg	30 06.00		
			iSn	30 31.00		
			iS*	31 18.50		
			eSg	31 48.00		
KVT	6.20	275	iPn	29 32.80	1.6	
BHD	7.58	179	ePn	29 42.50	-8.0X	
			ePg	30 23.00		
			eSn	30 58.00		
			eSg	31 40.00		
TEH	7.60	130	eP	29 44.00	-7.0X	
KAS	7.92	277	eP	30 00.00	4.6X	
B8TK	8.82	267	eP	30 10.50	2.5	
LFK	10.11	240	eP	30 28.30	2.6	
HRI	10.17	224	eP	30 27.00	0.4	
ALT	10.99	265	eP	30 36.00	-1.8	
ELL	11.91	254	iP	30 54.40	4.1X	
PSN	12.22	289	eP	30 56.00	1.7	
KSL	12.42	252	eP	30 58.00	1.0	
MAIO	12.78	106	eP	31 03.00	1.1	
	0.7s	7.94nm			5.0mb	
			eS	33 14.00		
PRNI	12.90	218	e(P)	31 05.00	1.5	
MBH	13.44	217	eP	31 14.00	3.4X	
VRI	13.68	297	ePd	31 16.50	2.8X	
			ed	35 15.00		
			ed	03 42.00		
SMG	13.84	262	eP	31 09.50	-6.3X	
RDO	14.13	277	eP	31 22.00	2.4	
KDZ	14.18	279	iPd	31 24.00	3.7X	
PVL	14.24	286	eP	31 25.00	3.9X	
RZN	14.70	280	iPc	31 29.00	1.7	
MJMA	15.00	176	eP	31 27.00	-4.1X	
VTS	15.79	283	iPd	31 44.00	2.5	
RYD	16.23	172	ePc	32 01.00	14.0X	
VAY	16.34	279	eP	31 51.00	2.7X	
AFIF	16.74	183	ePc	32 01.00	7.4X	
VLI	17.11	263	eP	32 00.80	2.8X	
SKO	17.13	281	eP	32 00.70	2.4	
BZS	17.13	294	eP	31 57.00	-1.3	
			e	03 53.50		
OHR	17.69	278	eP	32 06.20	0.8	
	2.2s	333.00nm			5.1mb	
BEO	17.86	291	eP	32 10.00	2.6X	
SPC	18.83	304	iP	32 18.50	-1.0	
			i	32 29.30		
BUD	19.21	299	iP	32 24.50	0.6	
KRA	19.29	307	iPd	32 23.40	-1.5	
	1.0s	62.00nm			4.8mb	
			e	32 29.10		
SRO	19.74	299	iP	32 30.60	0.5	
BRT	20.42	279	P	32 36.00	-1.2	
KMSA	20.43	179	eP	32 37.40	-0.2	
ZST	20.61	300	eP	32 38.50	-0.6	
HVAR	20.74	286	iP	32 39.50	-1.0	
ZAG	21.08	293	eP	32 36.00	-7.9X	
PTJ	21.10	293	eP	32 44.40	0.1	
ORI	21.13	277	Pc	32 43.00	-1.5	
QUE	21.28	113	eP	32 47.00	0.7	
			e(S)	37 06.60		
GRI	21.42	274	P	32 47.09	-0.5	
	0.1s	3.40nm			4.7mb	
VBY	21.57	292	ePd	32 54.00	5.0X	
KSP	21.75	307	ePc	32 50.50	-0.2	
	1.2s	65.00nm			4.9mb	
MGR	21.79	278	P	32 51.80	0.6	
SOI	21.90	272	P	32 52.00	-0.3	
LJU	22.10	293	eP	32 54.50	0.2	
CEY	22.16	293	e(P)	32 57.30	2.4	
BSS	22.23	280	P	32 55.00	-0.5	
ATN	22.32	272	P	32 56.00	-0.5	
DUI	22.35	282	P	33 00.00	3.1X	
VOY	22.55	293	e(P)	32 58.60	-0.2	
PRU	22.62	304	P	33 00.00	0.6	
	1.2s	16.50nm			4.4mb	
TRI	22.63	293	iPd	33 01.00	1.6	
RFI	22.76	281	P	33 01.74	1.0	
	1.5s	272.30nm			5.5mb	
SDI	22.82	282	P	33 00.00	-1.5	
MNO	22.97	272	P	33 03.00	-0.1	
AZI	23.06	283	P	33 05.00	1.2	
KHC	23.07	301	P	33 04.50	0.6	
NUR	23.08	335	iP	33 04.00	0.3	
	0.8s	41.10nm			5.0mb	
			e	38 32.00		
BRG	23.19	306	iPd	33 06.40	1.4	
	2.0s	66.00nm			4.8mb	
			i	33 19.00		
ARV	23.27	287	P	33 07.00	1.2	
FVI	23.34	295	P	33 08.00	1.6	

27d 18h

BHG	23.36	298	eP	33	18.40	11.8X
	1.5s	65.00nm				
ASS	23.51	286	P	33	09.00	0.8
MNS	23.57	284	P	33	09.60	0.8
RDP	23.63	283	P	33	11.00	1.7
RMP	23.63	283	P	33	11.46	2.1
	0.6s	40.00nm			5.2mb	
CLL	23.87	306	iPc	33	12.60	1.1
	1.6s	98.00nm			5.1mb	
		i		33	19.50	
		eS		37	38.00	
FAI	23.94	271	P	33	15.00	2.7X
CRE	23.98	287	P	33	15.00	2.2
SFI	24.03	288	P	33	16.00	2.9X
CTI	24.11	293	P	33	14.70	0.7
PGD	24.12	288	P	33	16.80	2.5X
KSH	24.24	83	eP	33	18.00	2.7X
SUF	24.40	340	iP	33	17.30	0.8
	0.6s	84.00nm			5.5mb	
OGA	24.56	295	eP	33	19.00	0.5
MOX	24.59	304	eP	33	20.00	1.5
GRF	24.68	302	ePc	33	21.20	1.8
Z	22s	0.30um			3.7Msz	
MME	24.84	289	P	33	22.70	1.4
SAL	24.90	292	P	33	22.90	1.4
BDI	24.92	289	P	33	22.20	0.3
PII	25.00	288	P	33	23.20	0.7
OSS	25.16	295	ePc	33	24.60	0.4
UPP	25.19	328	iP	33	24.70	0.6
		i		33	34.70	
MDI	25.46	293	Pc	33	27.10	0.3
VDL	25.62	294	ePc	33	29.20	0.6
BOB	25.69	290	P	33	30.00	0.9
SAX	25.72	296	ePc	33	29.00	-0.6
LLS	25.95	295	ePc	33	30.80	-0.9
TMA	26.04	293	ePc	33	32.00	-0.5
VAI	26.12	293	P	33	32.10	-0.8
PGF	26.25	285	eP	33	34.20	-0.2
	1.2s	35.70nm			4.9mb	
SLE	26.31	297	ePc	33	34.10	-0.7
PCP	26.35	290	P	33	35.64	0.4
ZLA	26.37	297	ePc	33	34.10	-1.3
CKI	26.55	290	P	33	35.50	-1.5
FIN	26.62	289	P	33	37.69	0.0
MMK	26.67	293	ePc	33	37.30	-1.1
ORX	26.68	292	P	33	37.17	-1.1
ROB	26.85	290	P	33	41.99	2.1
IMI	26.88	289	P	33	40.87	0.8
HFS	26.97	326	eP	33	40.20	-0.5
	0.5s	8.30nm			4.7mb	
Z	17s	0.54um			4.2MszX	
		LR		43	41.00	
DIX	27.06	293	ePc	33	41.50	-0.4
ENR	27.18	289	P	33	43.74	0.9
SBF	27.21	289	eP	33	44.10	1.0
	1.0s	40.00nm			5.1mb	
RSP	27.22	291	P	33	41.07	-2.2
STV	27.25	289	P	33	43.43	-0.1
LSD	27.27	292	P	33	45.17	1.3
DOI	27.28	290	P	33	42.20	-1.6
EMS	27.39	293	ePc	33	44.60	-0.3
LPG	27.55	292	iPc	33	45.80	-0.7
	1.4s	39.20nm			5.0mb	
LPL	27.56	292	iPc	33	45.80	-0.7
	1.4s	30.50nm			4.9mb	
RRL	27.57	291	P	33	47.12	0.5
BNI	27.64	291	P	33	46.40	-0.7
HAU	27.76	298	eP	33	46.80	-1.2
WTS	27.79	306	eP	33	49.00	0.8
	1.0s	13.00nm			4.7mb	
FRF	27.82	288	eP	33	48.00	-0.5
MEM	28.12	303	P	33	51.70	0.5
ENN	28.19	304	eP	33	52.00	0.2
	1.1s	15.00nm			4.7mb	
		e		34	12.00	
SOD	28.27	346	iP	33	51.30	-1.0
NB2	28.49	326	P	33	54.20	-0.3
	0.9s	11.70nm			4.7mb	
DOU	28.99	302	P	34	00.30	1.3
SNF	29.21	303	P	34	01.50	0.5
LBF	29.39	296	iPc	34	01.40	-1.3
	1.0s	16.00nm			4.8mb	
LOR	29.45	296	iPc	34	01.80	-1.5
	1.0s	13.00nm			4.7mb	
SMF	29.50	295	iPc	34	02.60	-1.1
	1.0s	16.00nm			4.8mb	
SSF	29.71	296	iPc	34	04.20	-1.3
	1.0s	15.00nm			4.8mb	
AVF	29.83	295	iP	34	05.50	-1.1
	1.0s	28.00nm			5.0mb	
BGF	30.19	295	eP	34	08.60	-1.2
KEV	30.32	348	eP	34	11.00	0.3
MAF	30.41	294	iPc	34	11.10	-0.7
	0.9s	16.40nm			4.9mb	
TCF	30.65	294	iPc	34	13.10	-0.8
	1.0s	15.00nm			4.8mb	
CAF	30.90	292	eP	34	15.60	-0.6
	0.9s	6.55nm			4.5mb	
LSF	31.12	294	iPc	34	17.00	-1.1
	1.0s	20.00nm			5.0mb	
LFF	31.83	292	eP	34	23.60	-0.7
	1.2s	23.80nm			5.0mb	
WMO	31.98	70	P	34	26.20	0.5
Z	16s	0.49um			4.3MszX	
		PP		35	34.50	
LDF	32.07	299	eP	34	25.10	-1.2
	1.1s	14.65nm			4.8mb	
MFF	32.24	295	eP	34	26.60	-1.2
	1.0s	16.00nm			4.9mb	
FLN	32.30	299	eP	34	27.20	-1.1
	0.9s	13.10nm			4.9mb	
EPF	32.44	289	eP	34	27.40	-2.3
	1.2s	8.95nm			4.6mb	
GRR	32.57	299	eP	34	29.60	-1.0
	1.0s	40.00nm			5.3mb	
LPF	32.72	298	eP	34	30.90	-1.0
	1.4s	43.55nm			5.2mb	
EBR	32.83	285	eP	34	32.00	-1.0
EKA	34.08	311	Pc	34	42.40	-1.3
	0.7s	4.00nm			4.5mb	
GKN	35.40	98	P	34	55.00	-0.6
PKI	36.21	98	P	35	00.00	-2.6X
GUD	36.28	286	eP	35	01.20	-1.6
GUN	36.38	98	P	35	01.30	-2.8X
	1.2s	68.00nm			5.4mb	
EBAN	36.78	282	eP	35	06.00	-0.9
ASMO	37.03	281	iPc	35	08.00	-1.1
APHE	37.13	280	iPd	35	09.00	-1.0
ALOJ	37.39	280	iPc	35	09.50	-2.6
ATEJ	37.39	280	iPd	35	10.50	-1.7
HYB	37.63	118	iPc	35	13.00	-1.3
	1.0s	25.00nm			4.9mb	
EPLA	37.86	286	eP	35	15.00	-0.9
LSA	39.46	91	P	35	30.50	0.5
GBA	39.70	124	Pc	35	30.60	-0.9
	0.7s	14.50nm			4.8mb	
GTA	41.90	73	eP	35	52.50	2.9X
AKU	42.35	327	iP	35	54.90	2.2
	0.9s	16.81nm			4.8mb	
LZH	46.13	76	P	36	26.30	2.5X
	1.5s	74.00nm			5.5mb	
Z	18s	0.30um			4.3Msz	
		pP		36	34.50	27kmX
CD2	48.41	82	eP	36	42.40	0.8
BTO	48.75	67	eP	36	45.30	1.2
HHC	49.73	67	eP	36	52.40	0.7
KMI	50.63	89	Pc	37	05.00	6.1X
	2.0s	80.00nm			5.3mb	
CHG	51.39	98	eP	37	03.50	-1.0
CHTO	51.39	98	eP	37	01.50	-3.0
	1.1s	10.31nm			4.7mb	
TIY	51.65	70	Pc	37	08.80	2.5X
Z	16s	0.70um			4.8MszX	
GYA	52.88	85	P	37	17.00	1.2
BJI	53.26	66	eP	37	19.50	1.3
	1.0s	28.00nm			5.2mb	
LKO	53.85	249	Pc	37	20.88	-1.9
	1.1s	28.50nm			5.2mb	
TIC	55.49	246	P	37	32.68	-2.1
	0.7s	9.50nm			4.9mb	
KIC	55.50	245	Pc	37	32.76	-2.1
	0.9s	17.50nm			5.1mb	
TIA	55.68	69	eP	37	36.70	0.7
LIC	55.79	246	Pc	37	34.94	-2.0
	0.7s	18.00nm			5.2mb	
WHN	56.49	77	eP	37	44.00	2.2
DL2	57.53	64	eP	37	50.50	1.4
	1.0s	100.00nm			5.8mb	
CN2	57.76	58	P	37	51.60	0.9
NJ2	59.00	73	Pc	38	01.10	1.6
BUL	62.41	197	iPc	38	09.80	-13.1X
MBC	62.69	356	eP	38	23.50	-0.5
	0.9s	5.00nm			4.7mb	
FRB	63.05	333	eP	38	25.00	-1.5
	1.0s	15.00nm			4.8mb	
BFT	67.52	194	e(P)	38	55.00	-0.9
	0.7s	8.90nm			5.1mb	
SLR	67.90	196	eP	38	57.00	-1.3
MAT	69.87	59	(P)	39	10.00	-0.4
	1.2s	10.94nm			4.9mb	
FRS	72.42	197	eP	39	23.50	-1.9
IMA	72.50	8	eP	39	25.10	-0.7
	1.2s	11.70nm			4.8mb	
CBM	73.92	319	P	39	34.50	0.3
FBA	74.15	5	eP	39	35.10	-0.1
TOA	77.03	5	eP	39	52.10	0.4
SES	86.56	344	ePc	40	41.00	-0.8
NEW	89.73	348	P	40	57.00	0.0
	1.0s	12.50nm			5.1mb	
RSSD	90.71	338	P	41	00.10	-1.7
BW06	93.43	341	P	41	15.00	0.6
GOL	95.16	337	P	41	24.00	1.5
ZOBO	117.30	272	PKP	46	42.00	-3.6X
LPB	117.44	271	PKP	46	52.00	6.3X

S.D. = 1.3 on 167 of 201 obs.

MAY 27, 1990 18h 56m 56.86± 0.51s
13.129 N ± 8.8km 39.927 E ± 4.8km
DEPTH = 52.2km (9 depth phoses)
5.0mb (43 obs.)

ETHIOPIA (558)

AAE	4.23	196	eP	57	53.00	-7.7X
MBH	17.21	345	eP	00	57.00	1.9
HLW	18.45	336	eP	01	10.00	-0.5
MKRJ	18.76	349	Pd	01	13.00	-1.3
DSI	18.82	348	eP	01	14.00	-1.1
KFNJ	19.05	349	Pc	01	16.60	-1.1
SALJ	19.19	349	Pc	01	17.70	-1.7
KSL	24.71	340	eP	02	15.50	0.9
ELL	25.18	341	iP	02	20.40	1.3
TAB	25.48	12	eP	02	24.00	2.0
SMG	27.12	337	eP	02	37.00	0.1
BBTK	27.35	348	eP	02	59.00	19.9X
ITM	28.86	329	eP	03	02.00	9.4X
MAIO	29.01	34	eP	02	55.00	0.9
			eS	08	04.00	
NEO	29.96	333	eP	03	05.00	2.5
RDO	30.62	338	eP	03	09.00	0.8
KDZ	31.10	339	eP	03	13.00	0.5
RZN	31.39	338	iP	03	16.00	0.8
PLD	31.76	338	iPd	03	19.00	0.8
VAY	31.92	335	eP	03	19.00	-0.6
VTS	32.73	337	iPc	03	27.00	0.1
SKO	32.93	334	iPc	03	28.50	0.1
			i	03	42.30	54km
ATN	33.08	323	P	03	31.00	1.2
GIB	33.82	322	P	03	38.00	1.6
MGR	34.39	326	P	03	41.00	-0.1
BUL	34.89	199	iPc	03	35.90	-9.8X
DUI	36.05	327	P	03	56.00	0.7
SDI	36.43	326	Pc	03	58.80	0.4
AZI	36.83	326	P	04	02.00	0.3
RDP	37.06	325	P	04	05.00	1.2
RMP	37.11	325	P	04	05.00	0.9
MNS	37.51	326	P	04	08.00	0.5
ASS	37.99	327	P	04	11.50	0.0
ARV	38.14	328	P	04	08.00	-4.7X
PTJ	38.45	333	eP	04	15.70	0.3
SRO	39.00	337	eP	04	20.60	0.8
TRI	39.31	331	iPd	04	22.50	0.1
SPC	39.45	340	eP	04	23.90	0.1
VOY	39.49	331	eP	04	24.70	0.6
ZST	39.78	336	iP	04	26.40	0.1
KRA	40.30	340	ePd	04	26.40	-4.1X
	0.7s	34.00nm			5.3mb	
			e	04	44.20	72kmX
FVI	40.42	331	P	04	32.40	0.8
CTI	40.58	330	P	04	33.80	0.8
BOB	40.85	326	P	04	38.00	2.8
KSH	41.18	44	eP	04	40.00	1.9
N	14s	1.40um				
BHG	41.21	332	iPc	04	38.30	0.2
	1.0s	20.00nm			4.8mb	
CKI	41.26	325	P	04	38.00	-0.6
MDI	41.38	328	P	04	39.00	-0.4
SBF	41.39	324	eP	04	39.40	-0.3
	1.1s	29.30nm			4.9mb	
FRF	41.67	323	eP	04	41.30	-0.6
	1.1s	19.55nm			4.8mb	
OSS	41.77	329	ePd	04	43.80	0.9
VAI	41.93	327	P	04	43.80	-0.1

```
KHC     41.96 334 iPd   04 43.50  -0.8
        1.0s    12.00nm          4.6mb
                e       04 57.90   55km
TMA     42.03 328 ePd   04 45.10   0.1
PRU     42.23 336 P     04 46.20  -0.2
        1.5s    22.30nm          4.7mb
                e       04 59.70   51km
KSP     42.24 338 eP    04 46.30  -0.1
MMK     42.47 327 ePd   04 48.50  -0.3
LLS     42.48 329 ePd   04 48.60  -0.1
BNI     42.55 325 P     04 49.50   0.2
SAX     42.56 329 ePd   04 49.10  -0.4
LPG     42.78 325 eP    04 50.40  -0.9
        1.0s    30.00nm          5.0mb
DIX     42.79 327 ePd   04 51.00  -0.4
EMS     43.04 326 ePd   04 52.60  -0.7
BRG     43.16 336 iP    04 53.20  -0.7
        1.2s    24.00nm          4.8mb
                i       05 07.20   53km
ZLA     43.19 329 ePd   04 53.80  -0.6
SLE     43.33 329 ePd   04 54.90  -0.5
GRF     43.40 333 iPd   04 55.10  -0.9
        1.2s    22.00nm          4.8mb
      Z 21s      0.05um          3.4Msz
                e       05 09.10   53km
CLL     43.87 336 iPc   04 59.00  -0.7
        1.7s    39.00nm          4.9mb
MOX     43.94 334 eP    05 00.00  -0.3
GKN     44.14  63 P     05 00.80  -1.7
        1.2s    65.00nm          5.3mb
BSF     44.24 328 eP    05 02.30  -0.6
        1.0s    32.00nm          5.0mb
CDF     44.37 329 eP    05 03.20  -0.7
        1.0s    16.00nm          4.7mb
KIC     44.48 266 P     05 05.44   0.2
DMN     44.49  64 P     05 03.60  -1.8
        1.1s    62.00nm          5.3mb
HAU     44.58 328 eP    05 05.00  -0.5
        0.9s    14.75nm          4.8mb
PKI     44.74  64 P     05 04.60  -2.9
        1.1s    37.00nm          5.1mb
LIC     44.79 266 P     05 07.76   0.1
TNS     45.04 332 ePc   05 09.00  -0.2
SMF     45.09 325 eP    05 08.30  -1.3
        1.1s    12.20nm          4.7mb
CAF     45.15 322 eP    05 10.40   0.2
        1.0s    16.00nm          4.8mb
GUN     45.21  64 P     05 09.60  -1.7
        1.2s    92.00nm          5.5mb
LBF     45.21 326 eP    05 09.60  -1.0
        1.0s    29.00nm          5.1mb
AVF     45.45 325 eP    05 11.50  -0.9
        1.0s    14.00nm          4.8mb
LOR     45.45 326 eP    05 11.60  -0.8
        1.0s    28.00nm          5.1mb
SSF     45.52 325 eP    05 12.10  -0.9
        1.0s    16.00nm          4.9mb
LPO     45.55 321 eP    05 13.70   0.4
        1.0s    20.00nm          5.0mb
APHE    45.56 309 eP    05 15.00   1.3
MAF     45.57 324 eP    05 13.20  -0.2
        1.1s    11.00nm          4.7mb
BGF     45.60 324 eP    05 13.40  -0.2
        1.0s    35.00nm          5.2mb
RJF     45.68 322 eP    05 14.40   0.1
        1.0s    12.00nm          4.7mb
ASMO    45.74 310 iPc   05 15.00  -0.1
ATEJ    45.80 309 iPd   05 15.50   0.0
ALOJ    45.93 309 iPc   05 14.00  -2.6
LFF     45.96 321 eP    05 16.90   0.4
        1.0s    36.00nm          5.3mb
AAPN    46.01 310 iPc   05 17.00  -0.2
LSF     46.18 323 eP    05 18.00  -0.3
        1.0s    20.00nm          5.0mb
MEM     46.45 331 Pd    05 20.50   0.3
                e       05 34.40   52km
ENN     46.59 331 eP    05 21.50   0.2
        0.9s    17.00nm          5.0mb
DOU     46.80 329 Pc    05 22.40  -0.6
        0.9s    20.00nm          5.0mb
                e       05 36.30   52km
WTS     47.01 332 ePc   05 25.00   0.4
        1.0s    20.00nm          5.0mb
                e       05 39.00   53km
NUR     48.61 350 iP    05 46.60   9.6X
        0.7s    22.70nm          5.3mb
FLN     48.70 325 eP    05 36.70  -1.2
        1.0s    16.00nm          5.0mb
LSA     50.05  62 P     05 48.80  -0.3
SUF     50.48 352 iP    05 51.20  -0.1
        0.7s    20.80nm          5.3mb
HFS     50.75 343 eP    05 51.00  -2.4
        1.7s    62.60nm          5.4mb
      Z 16s      0.07um          3.8MszX
                LR      27 09.00
WMQ     50.97  44 P     05 55.60   0.1
      Z 14s      0.35um          4.5MszX
NB2     52.19 343 P     06 03.00  -1.4
        1.3s    35.50nm          5.2mb
EKA     53.72 331 Pc    06 14.80  -0.8
        0.9s     9.40nm          4.8mb
DCN     54.73 327 eP    06 23.00  -0.1
SOD     54.90 354 iP    06 23.70  -0.5
KEV     57.17 355 iP    06 41.00   0.6
        0.7s    13.30nm          5.1mb
GTA     58.58  52 eP    06 51.40   0.5
CD2     61.01  62 eP    07 07.20  -0.5
LZH     61.36  56 P     07 10.00  -0.1
        1.5s    35.00nm          5.3mb
                pP      07 19.00  29kmX
GYA     63.58  67 P     07 24.80  -0.2
XAN     65.43  58 P     07 37.10   0.3
HHC     67.67  51 eP    07 52.60   1.6
TIY     68.30  54 eP    07 55.00   0.1
WHN     70.13  62 Pc    08 07.50   1.3
        1.0s    10.00nm          4.7mb
BJI     71.19  52 eP    08 14.00   1.6
        1.1s    14.00nm          4.8mb
TIA     72.10  56 eP    08 18.70   0.7
CN2     77.83  48 iPc   08 52.10   1.6
                pP      09 05.40   46km
MAT     88.81  53 eP    09 47.00   0.2
        1.0s     7.00nm          4.9mb
MBC     89.94 355 eP    09 52.50   1.2
ZOBO   110.66 257 iPdiff11 18.90  -7.7X
                i       11 43.00
LPB    110.67 257 ePdiff10 57.00 -29.5X
      S.D. = 1.0  on 117 of 126 obs.
-------------------------------------
? MAY 27, 1990  19h 29m 02.49± 2.05s
   35.072 S ±20.5km   71.526 W ±19.7km
   DEPTH = 30.9 ±  8.2 km
 CENTRAL CHILE                    (136)

LNV     1.12   5 iPd   29 20.30  -1.7
                iS      30 35.00
TACH    1.50  19 iPd   29 30.00   2.5X
                iS      29 51.50
LCCH    1.59 359 iPd   29 29.00   0.1
                iS      29 46.00
PCH     1.67  30 iPd   29 30.50   0.4
                iS      29 52.00
SAN     1.77  24 iPd   29 32.50   1.1
                i       29 52.00
                i       29 54.60
FCH     2.02  31 iP    29 35.50   0.1
                iS      30 01.50
IHA     2.04 357 eP    29 37.00   1.6
                e(S)    29 45.00
PEL     2.05  20 iPd   29 35.00  -0.5
                iS      30 03.50
ROCH    2.14  12 eP    29 33.50  -3.5X
JACH    2.51  18 iPd   29 40.50  -1.6
                i       30 10.50
                i       30 15.50
RTBS    3.82  28 eP    30 01.50   1.0
                (S)     30 53.80
RTCV    4.06  39 ePc   30 04.30   0.2
RTCB    4.24  33 iP    30 07.00   0.3
CFA     4.42  39 e(P)  30 09.00  -0.2
                S       31 08.50
RTLL    4.53  35 iPc   30 10.00  -0.7
GBA   144.79 120 PKPc   48 38.30  -0.1
        0.9s     1.30nm
      S.D. = 1.1  on 14 of 16 obs.
-------------------------------------
*  MAY 27, 1990  19h 31m 31.52± 1.24s
   7.433 S ±13.3km  120.426 E ±11.3km
   DEPTH = 636.3 ± 34.1 km
   4.6mb (  6 obs.)
 FLORES SEA                       (279)

KNA     11.62 136 iPc   34 06.00  -0.6
MTN     11.83 118 iPc   34 08.70   0.1
                eS      36 51.50
MBL     13.66 182 iPc   34 26.10  -0.1
        0.4s    13.00nm          4.5mb
NANU    15.76 197 iPc   34 46.50   0.2
        0.8s   329.00nm          5.6mb X
WB5     18.33 134 iPc   35 11.00   0.7
                eS      38 07.50
WRA     18.35 134 Pc    35 10.20  -0.3
        0.5s    18.10nm          4.7mb
PSI     23.70 294 ePd   35 58.40  -0.3
BDT     32.40 319 eP    37 14.00   0.7
CHG     33.60 321 eP    37 23.90   0.5
GBA     47.52 296 P     39 14.00   0.3
        0.6s     2.30nm          3.8mb
GUN     48.47 318 P     39 20.80  -0.2
        0.7s    20.00nm          4.7mb
PKI     48.56 317 P     39 21.20  -0.5
        0.5s    11.00nm          4.6mb
DMN     48.79 317 P     39 23.00  -0.3
GKN     49.36 317 P     39 27.10  -0.2
        0.4s    10.00nm          4.6mb
      S.D. = 0.5  on 14 of 14 obs.
-------------------------------------
%  MAY 27, 1990  19h 32m 18.55± 0.80s
   59.691 N ± 6.5km    6.011 E ± 7.6km
   DEPTH = 10.0km  (geophysicist)
 SOUTHERN NORWAY                  (535)
   MD 2.0 (BER).

ODD1    0.38  54 iP    32 26.14  -0.3
                iSg     32 31.08
BLS1    0.51 126 iP    32 28.53  -0.5
                eSg     32 35.02
BLS2    0.61 130 iP    32 30.34  -0.7
                iSg     32 38.24
KMY     0.62 219 iP    32 31.33   0.3
                eSg     32 39.54
BER     0.77 334 iP    32 33.87   0.3
                iSg     32 43.80
ASK     0.89 333 eP    32 35.55  -0.1
                iSg     32 47.40
HYA     1.48   3 iP    32 45.62   0.4
                eSg     33 04.89
NRA0    2.95  67 Pn    33 08.70   2.4
                Sg      33 46.50
MOL     2.98  14 eP    33 04.74  -2.0
                eSg     33 49.18
      S.D. = 1.3  on  9 of  9 obs.
-------------------------------------
%  MAY 27, 1990  19h 42m 44.47± 1.10s
   40.510 N ±12.0km   15.573 E ± 9.7km
   DEPTH = 10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

SGO     0.21 284 Pc    42 48.60  -0.4
                eSg     42 55.00
MGR     0.37 182 P     42 52.20   0.1
                eSg     42 59.00
BSS     0.65 296 P     42 57.80   0.4
                eSg     43 07.50
ORI     0.80 123 P     43 00.00  -0.1
                eSg     43 10.80
TDS     1.03 145 P     43 04.00   0.0
      S.D. = 0.4  on  5 of  5 obs.
-------------------------------------
*  MAY 27, 1990  20h 15m 09.64± 0.78s
   53.403 N ±17.4km  166.752 W ± 9.6km
   DEPTH = 33.0km  (normal)
   4.4mb (  9 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS  (  9)

ADK     6.24 260 eP    16 42.60   0.9
IMA    14.26  22 e(P)  18 40.00   8.9X
        1.0s     8.80nm          4.3mb
MBC    29.00  21 eP    21 08.50   0.7
KVN    35.85  94 e(P)  22 08.00  -0.2
HFS    66.81 360 eP    25 57.90  -1.6
        0.4s     1.50nm          4.4mb
EKA    70.79  10 P     26 24.00  -0.1
        0.6s     2.10nm          4.4mb
GUN    77.60 300 P     27 04.00  -0.4
PKI    78.12 300 P     27 06.20  -1.0
GKN    78.16 301 P     27 06.70  -0.5
DMN    78.24 301 P     27 07.60  -0.2
BSF    78.99   4 eP    27 11.70   0.3
SSF    79.57   7 eP    27 14.80   0.4
        0.5s     2.20nm          4.4mb
```

27d 20h

```
LBF     79.68    6 eP    27 14.90  -0.1
        0.6s      2.70nm          4.4mb
AVF     79.83    7 eP    27 15.80   0.1
        0.6s      1.80nm          4.2mb
SMF     80.01    7 eP    27 16.90   0.2
        0.6s      1.80nm          4.2mb
LSF     80.22    8 eP    27 18.10   0.2
        0.9s      8.20nm          4.7mb
TCF     80.24    8 eP    27 18.20   0.2
MAF     80.34    8 eP    27 19.80   1.3
        0.6s      1.80nm          4.2mb
QUE     84.62  315 eP    27 41.00  -0.1
BUL    144.75  334 iPKPc 34 31.80 -12.8X
SLR    150.16  332 iPKPc 34 57.00   3.8X
     S.D. = 0.7  on  18 of  21 obs.
-----------------------------------------
   MAY  27, 1990  20h 44m 57.98± 0.49s
   41.909 N ± 2.3km  126.738 W ± 5.2km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  4 obs.)  4.2Msz (  1 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

FHC     2.35  117 ePc   45 36.50  -0.8
WDC     3.43  111 iPc   45 52.50  -0.1
GROR    4.10   32 P     46 02.84   0.7
MIN     4.18  110 ePc   46 03.10  -0.2
TCO     4.36   58 P     46 06.14   0.1
KMOR    4.41   31 P     46 05.97  -0.5
GT2     4.59   44 P     46 08.87  -0.2
ORV     4.62  119 eP    46 08.30  -1.2
                eS      47 04.10
PGO     4.72   40 P     46 12.37   1.5
NLO     4.80   28 P     46 12.08  -0.1
GMO     4.93   57 P     46 13.79  -0.2
TDH     4.93   45 P     46 13.80  -0.2
VLMM    4.98   42 P     46 14.60   0.0
VLL     5.11   44 P     46 17.29   0.9
RVW     5.12   33 P     46 16.85   0.3
VFP     5.12   47 P     46 17.55   0.8
VIPM    5.17   58 P     46 16.86  -0.6
CROR    5.19   52 P     46 17.06  -0.6
LVP     5.20   35 P     46 17.67  -0.1
BMW     5.22   28 P     46 17.22  -0.7
MTMW    5.25   37 P     46 18.12  -0.4
APM     5.29   42 P     46 19.65   0.6
BRK     5.30  138 e(P)  46 17.70  -1.4
BKS     5.31  138 eP    46 18.60  -0.6
FL2     5.33   35 P     46 19.74   0.2
SHW     5.37   36 P     46 21.17   0.9
HSR     5.38   36 P     46 20.90   0.5
CDFW    5.40   37 P     46 20.16  -0.3
REMW    5.40   36 P     46 23.07   2.4
ESD     5.41   36 P     46 21.87   1.0
STD     5.41   35 P     46 20.84   0.0
ERK     5.42   34 P     46 20.83   0.0
SOSW    5.45   36 P     46 21.82   0.5
CZM     5.45   32 P     46 21.25   0.0
GULW    5.47   41 P     46 21.41  -0.2
TDL     5.51   35 P     46 22.18   0.1
PCC     5.54  141 e(P)  46 22.60   0.2
VTHM    5.55   52 P     46 22.80   0.1
APW     5.58   30 P     46 24.19   1.2
KOSW    5.60   34 P     46 23.63   0.2
VGB     5.63   48 P     46 23.47  -0.3
ASR     5.63   39 P     46 23.55  -0.3
CPW     5.68   26 P     46 23.45  -1.1
LMW     5.73   32 P     46 25.47   0.3
GL2     5.88   45 P     46 27.03  -0.3
GLK     5.94   37 P     46 27.90  -0.2
LON     5.99   34 eP    46 29.00   0.2
MHC     6.02  138 e(P)  46 29.20  -0.2
WPW     6.07   36 P     46 29.83  -0.1
ARN     6.07  137 eP    46 29.20  -0.8
RVC     6.08   33 P     46 30.43   0.3
GCC     6.10  141 e(P)  46 33.10   2.8
OOW     6.10   16 P     46 29.31  -1.1
J80     6.13   52 P     46 30.51  -0.3
FMW     6.19   34 P     46 32.10   0.3
CMB     6.23  126 e(P)  46 31.30  -0.9
GSM     6.36   32 P     46 34.40   0.2
RMW     6.57   31 P     46 37.18   0.1
MXC     6.57   43 P     46 36.64  -0.4
STW     6.61   18 P     46 37.47   0.0
PRW     6.66   47 P     46 37.50  -0.7
BRVW    6.67   44 P     46 38.03  -0.4
RSW     6.82   47 P     46 39.74  -0.8
T8M     6.85   38 P     46 41.22   0.3

HTW     6.87   29 P     46 40.82  -0.4
MDW     6.87   44 P     46 41.58   0.4
WIW     7.01   47 P     46 42.17  -0.9
GBL     7.02   46 P     46 42.70  -0.6
WAH2    7.07   44 P     46 43.50  -0.4
JCW     7.15   27 P     46 44.25  -0.8
KVN     7.18  111 eP    46 45.30  -0.4
CRF     7.20   44 P     46 44.97  -0.8
LNOR    7.28   54 P     46 46.57  -0.4
ETW     7.29   36 P     46 47.25   0.0
FRI     7.33  130 ePc   46 48.70   1.1
EPH     7.45   41 P     46 49.38   0.0
SAW     7.79   40 P     46 53.37  -0.8
PNT     8.93   32 eP    47 11.00   1.1
        0.8s     18.00nm          5.5mb X
LRM    11.03   64 eP    47 39.20   0.1
MSU    11.64  102 eP    47 49.00   1.6
SES    13.78   47 eP    48 15.00  -0.6
GOL    16.33   91 eP    48 48.50  -0.6
ALQ    17.33  107 eP    49 05.00   3.4X
MEO    23.13   99 e(P)  50 16.60  11.5X
PMR    23.87  333 eP    50 11.70  -0.3
        0.8s     9.91nm          4.4mb
TUL    24.73   94 e(P)  50 25.50   4.9X
        1.2s     9.10nm          4.3mb
     Z  18s      0.75um          4.2Msz
                LR      57 45.00
UYO    26.46   96 e(P)  50 38.60   1.8
IMA    28.48  337 eP    50 53.50  -1.5
        0.8s     2.59nm          4.1mb
MBC    34.59    3 eP    51 47.50  -0.9
        1.0s     5.00nm          4.4mb
BRG    81.43   24 e(P)  57 17.60   1.4
SPC    84.75   21 eP    57 34.00   0.5
                e       20 13.10
ZST    84.76   23 eP    57 34.00   0.7
SRO    85.46   23 eP    57 37.00   0.2
     S.D. = 0.8  on  90 of  93 obs.
-----------------------------------------
   MAY  27, 1990  21h 16m 12.34± 0.67s
   30.781 N ± 9.1km  103.231 E ± 7.6km
   DEPTH =  33.0km  (normal)
   4.3mb (  2 obs.)
 SICHUAN PROVINCE, CHINA          (307)
      ML 3.9 (BJI).

CD2     0.47   74 ePg   16 22.10  -0.5
                Sg      16 31.30
GYA     5.26  144 ePn   17 30.40  -0.4
                Sn      18 28.80
                Sg      19 00.20
LZH     5.32    5 ePn   17 30.00  -1.7
KMI     5.65  185 ePn   17 36.00  -0.4
                Sn      18 37.50
XAN     5.81   54 Pn    17 40.50   2.0
                Pg      18 01.00
                Sn      18 48.50
                Sg      19 21.20
GUN    15.40  264 P     19 50.20   1.0
PKI    15.89  263 P     19 56.30   0.8
        0.6s    14.00nm          4.3mb
     S.D. = 1.4  on  10 of  10 obs.
-----------------------------------------
   MAY  27, 1990  21h 49m 35.46± 0.12s
   74.225 N ± 1.8km   8.828 E ± 2.6km
   DEPTH =  29.1km  (  9 depth phases)
   5.5mb ( 61 obs.)  5.7Msz ( 26 obs.)
 GREENLAND SEA                    (640)
      Ms 6.3 (PAS), 6.0 (BRK),
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 14S, 32C
      Centroid Location:
      Origin Time        21:49:35.8 0.4
      Lat 73.86N 0.07 Lon   7.78E 0.06
      Dep  15.0 FIX Half-duration  3.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-4.10 0.17  Mtt=-1.07 0.29
        Mff= 5.17 0.18  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf= 1.78 0.14
       Principal Axes:
        T  Val=  5.65  Plg= 0  Azm=105
        N       -1.55       0       15
        P       -4.10      90       180
     Best Double Couple:Mo=4.9*10**17
      NP1:Strike=195 Dip=45 Slip= -90
      NP2:        15     45       -90

KBS     4.77    7 iPc    50 44.20  -3.0X
                eS       51 33.50
TRO     5.57  141 iPd    50 54.75  -3.7X
                eS       51 51.01
JNW     6.07  247 eP     51 00.80  -4.6X
LOF     6.31  164 iPd    51 04.59  -4.3X
                eS       52 10.03
KTK1    6.92  132 iPd    51 14.16  -3.2X
                eS       52 29.88
KEV     7.17  120 iP     51 17.30  -3.6X
        0.7s    114.80nm          6.0mb
                i        51 28.30
                e        53 20.00
                e        54 16.00
SOD     8.99  131 iP     51 41.60  -4.6X
                i        51 46.20
NSS     9.80  172 eP     51 53.69  -3.7X
                eS       53 32.77
MOL    11.72  183 iPd    52 18.94  -4.6X
                eS       54 22.04
AKU    12.44  241 eP     52 33.20   0.1
        1.7s    261.54nm          6.1mb
SUF    13.10  143 iP     52 38.00  -3.8X
        0.6s     35.10nm          5.6mb
NB2    13.28  175 P      52 38.80  -5.5X
        0.7s      6.90nm          4.8mb
NRA0   13.59  174 Pn     52 45.10  -3.3X
                Sn       55 10.30
HFS    14.27  170 eP     52 54.50  -2.8X
        0.7s     16.50nm          4.8mb
     Z  18s     15.18um          4.9MszX
                LR       56 05.00
UPP    14.80  162 iPc    53 02.70  -1.5
                iS       55 32.00
NUR    14.96  148 iP     53 02.00  -4.3X
        1.0s    206.00nm          5.4mb
                i        53 12.80
                e        56 08.00
                e        57 04.00
                e        59 24.00
EKA    19.56  201 P      54 03.00  -0.4
        2.9s    852.80nm          5.5mb
WIT    21.51  184 eP     54 25.00   1.4
BRN    21.97  173 eP     54 28.00  -0.1
DCN    21.97  206 eP     54 29.30   1.1
YRH    22.18  202 eP     54 28.30  -1.9
        1.3s    137.00nm          5.2mb
DBN    22.26  186 eP     54 32.00   1.0
     Z  20s      4.00um          4.8Msz
                eS       58 38.00
WTS    22.33  183 eP     54 33.00   1.3
        2.0s    723.00nm          5.8mb
ETA    22.48  204 eP     54 31.50  -1.7
ECP    23.01  204 eP     54 38.60   0.2
        1.1s    128.00nm          5.3mb
CLL    23.07  173 iPc    54 39.80   0.8
                i        54 46.60  24km
                eS       58 52.00
BRG    23.54  172 iPc    54 44.60   1.1
        2.2s    660.00nm          5.8mb
                i        54 54.20  35km
                i        55 10.20
                i        55 22.40
                iS       58 58.00
                e        03 06.00
ENN    23.58  185 iPd    54 44.50   0.6
        2.0s   1167.00nm          6.1mb
UCC    23.59  187 Pd-    54 44.30   0.3
                S        59 02.00
KSP    23.68  168 eP     54 45.30   0.4
                eS       59 02.00
                e        03 13.50
MOX    23.70  176 ePc-   54 46.50   1.4
        2.4s   1106.00nm          6.0mb
     Z  18s     10.70um          5.4Msz
     N  18s      8.90um
     E  18s      2.90um
VAL    23.73  210 eP     54 45.00  -0.4
                S        59 06.00
MEM    23.73  184 iPd    54 45.72   0.3
SNF    23.88  187 iPd    54 47.00   0.2
TNS    24.09  181 ePd    54 49.10   0.1
```

DOU		24.28	187	P-	54	50.90	0.1	ZAG		28.68	170	eP	55	30.00	-1.4					e	01	46.00									
	Z	18s		5.30um			5.1Msz	CEY		28.69	172	eP	55	31.80	0.3	ETOR	33.88	195	eP	56	17.40	0.1								
				S	59	16.00		TRI		28.69	173	i(P)d	55	31.90	0.4	SGO	33.89	171	P	56	17.00	-0.3								
PRU		24.45	171	Pd	54	52.50	0.1					i(PP)	56	28.20		RDO	34.07	157	iPc	56	18.50	-0.3								
	Z	17s		8.40um			5.3MszX					i(PcP)	58	34.00		PTO	34.16	204	eP	56	20.00	0.4								
	N	17s		7.10um				ORO		28.69	181	P	55	32.00	0.3	GUD	34.22	198	eP	56	19.50	-0.8								
	E	15s		2.70um				SAL		28.72	178	P	55	35.70	4.0X	MGR	34.32	171	P	56	22.00	1.0								
				S	59	15.00		LPL		28.82	183	eP	55	33.00	0.1	ORI	34.44	170	P	56	22.70	0.7								
RAC		24.56	165	eP	54	55.00	1.6			1.5s		94.00nm			5.3mb	ITU	34.51	153	iPc	56	24.00	1.4								
GRF		24.64	176	iPd	54	55.00	0.7	LPG		28.83	183	iPd	55	33.20	0.0	SCH	34.54	279	eP	56	21.00	-1.8								
	Z	19s		8.00um			5.2Msz			1.6s		183.45nm			5.5mb	TDS	34.84	170	P	56	25.20	-0.2								
KRA		24.71	163	iPc	54	55.30	0.4	VBY		28.96	171	e(P)	55	24.00	-9.9X	KAS	34.91	146	eP	56	28.00	1.8								
		1.5s		429.00nm			5.8mb	TIM		29.11	162	iPc	55	38.00	2.8	EPLA	34.96	200	eP	56	26.00	-0.5								
	Z	22s		15.00um			5.4Msz	RSP		29.17	182	P	55	36.89	0.9	ECHE	35.03	193	eP	56	26.90	-0.3								
	E	22s		12.70um				RJF		29.20	191	eP	55	34.50	-1.6	GPA	35.49	151	eP	56	32.00	1.0								
				e	54	57.60	8kmX			1.4s		74.05nm			5.2mb	KVT	35.56	144	iP	56	31.80	0.2								
				i	55	12.40		BZS		29.26	161	ePc	55	36.50	-0.1	INK	35.67	337	iPd	56	32.10	-0.1								
				eS	59	17.00		BNI		29.28	183	P	55	37.00	0.0		1.1s		76.00nm			5.5mb								
WET		25.23	174	iPc	55	00.90	1.0	RRL		29.41	183	P	55	39.25	1.0	GRI	35.68	170	P	56	34.18	1.5								
KHC		25.27	173	P	55	00.80	0.5	VRI		29.54	154	ePc	55	37.50	-1.7		1.2s		33.10nm			5.1mb								
		1.2s		31.00nm			4.8mb	BOB		29.55	179	P	55	39.00	-0.4	ACU	36.07	192	eP	56	36.90	0.9								
	Z	17s		7.20um			5.3MszX	LFF		29.60	192	eP	55	38.60	-1.1	EVIA	36.08	195	eP	56	36.00	-0.1								
	N	18s		5.40um						2.0s		221.60nm			5.6mb	BBTK	36.26	148	eP	56	37.00	-0.7								
	E	18s		4.70um				PCP		29.77	180	P	55	41.61	0.3	ATN	36.29	171	P	56	37.00	-0.8								
				S	59	40.00		DOI		29.82	182	P	55	40.00	-1.8	ERC	36.32	175	P	56	37.30	-0.8								
SPC		25.60	163	eP	55	03.80	0.2	PZZ		29.82	182	P	55	42.12	0.3	SOI	36.40	170	P	56	38.00	-0.7								
				i	55	12.00	29km	LPO		29.83	191	eP	55	41.00	-0.8	GIB	36.41	173	P	56	38.30	-0.5								
				e	03	23.50				2.2s		261.40nm			5.6mb	MNO	36.49	172	P	56	40.00	0.3								
FLN		25.87	194	eP	55	05.40	-0.4	CKI		29.89	181	P	55	41.60	-0.7	EBAN	36.65	197	eP	56	41.70	0.9								
		1.2s		47.60nm			5.0mb	BEO		29.96	163	e(P)	55	45.00	2.1	ALT	36.67	152	eP	56	41.00	-0.1								
CDF		25.91	182	eP	55	06.20	-0.1					e	03	18.00		MCT	36.75	174	P	56	42.60	0.8								
		1.5s		104.45nm			5.2mb	ROB		30.02	181	P	55	43.66	0.1	FAI	37.11	174	P	56	44.00	-0.6								
FUR		26.17	176	iPc	55	09.40	0.7	STV		30.08	182	P	55	43.46	-0.6	KHL	37.32	153	eP	56	46.00	-0.5								
HAU		26.33	184	eP	55	10.00	-0.1	ENR		30.10	182	P	55	43.56	-0.7	ASMO	37.45	197	iPc	56	48.60	1.0								
		1.4s		130.70nm			5.4mb	FIN		30.11	181	P	55	44.17	-0.1	AAPN	37.53	197	iPc	56	49.50	1.2								
KMR		26.36	172	iP-	55	10.50	0.1	MME		30.13	177	P	55	45.00	0.2	SMG	37.61	156	eP	56	50.40	1.6								
				iPP	55	58.60		BDI		30.26	177	P	55	45.60	-0.1	ACHM	37.70	197	iPc	56	51.00	1.3								
ZST		26.37	167	eP	55	10.60	0.2	IMI		30.41	181	P	55	46.53	-0.4	ALOJ	37.72	197	iPc	56	50.50	0.5								
BSF		26.50	183	eP	55	11.30	-0.5	SFI		30.43	176	P	55	47.80	0.8	APHE	37.85	196	iPc	56	52.00	1.0								
		1.5s		104.45nm			5.2mb	RSM		30.43	175	Pc	55	47.80	0.8	ATEJ	37.91	197	iPc	56	52.50	1.0								
SLE		26.55	181	ePd	55	12.00	-0.1	SBF		30.46	182	eP	55	47.10	-0.3	EPRU	37.96	198	eP	56	51.30	-0.5								
LPF		26.63	195	eP	55	10.60	-2.2			1.1s		163.60nm			5.8mb	MAL	38.13	197	iP	56	54.50	1.4								
		1.3s		72.20nm			5.1mb	PGD		30.47	176	Pc	55	48.30	0.7				iPP	58	18.00									
BHG		26.65	174	eP	55	13.50	0.4	PII		30.60	178	P	55	46.00	-2.5				iS	07	00.00									
MBC		26.69	335	ePc	55	13.80	0.6	CRE		30.72	176	P	55	49.80	0.1	VLI	38.21	162	eP	56	51.00	-2.9								
		1.5s		240.00nm			5.6mb	FRF		30.77	183	eP	55	49.40	-0.7	BCK	38.31	152	iP	56	55.90	1.1								
SRO		26.82	166	eP	55	14.80	0.2			1.3s		50.55nm			5.2mb	EJIF	38.49	199	eP	56	57.40	1.2								
				i	55	17.20	8kmX	ARV		30.87	174	P	55	51.20	0.2	ELL	38.92	153	iP	57	00.50	0.5								
PSZ		26.83	163	eP	55	17.00	2.2	BUC1		30.96	156	ePc	55	52.00	0.3	NKM	39.48	198	iP	57	05.50	1.0								
ZLA		26.83	181	ePd	55	14.40	-0.4	ASS		31.29	175	P	55	54.00	-0.7				i	57	10.00	15kmX								
SAX		27.07	179	ePd	55	17.40	0.2	EPF		31.53	192	eP	55	55.70	-1.1	IMA	39.49	349	eP	57	05.20	0.8								
LOR		27.14	187	iPd	55	16.30	-1.2			1.6s		167.90nm			5.7mb		2.3s		237.50nm			5.5mb								
		1.6s		93.30nm			5.2mb	EMON		31.75	203	eP	55	57.40	-1.3				i	59	12.90									
BUD		27.20	165	eP	55	18.00	0.0	PGF		31.77	180	iPd	55	58.30	-0.6	KSL	39.50	153	eP	57	04.50	-0.2								
SSF		27.36	188	eP	55	18.30	-1.2			2.0s		244.90nm			5.7mb	FBA	40.28	345	eP	57	12.60	1.8								
		1.8s		120.85nm			5.3mb	MNS		31.98	175	P	56	00.10	-0.6	TAB	40.37	132	iP+	57	15.00	3.0X								
FRB		27.37	289	eP	55	17.00	-2.4	AOU		32.03	174	P	56	01.50	0.3				e	58	36.00	423kmX								
LBF		27.42	187	iPd	55	18.90	-1.2	ECRI		32.13	196	eP	56	02.00	-0.1	LFK	40.85	148	eP	57	16.80	0.9								
		2.0s		233.25nm			5.5mb	TTG		32.25	165	eP	56	00.00	-3.0	IFR	41.37	198	iP	57	16.50	-3.8X								
LLS		27.45	180	ePd	55	20.70	0.2	AZI		32.40	174	P	56	05.00	0.7				i	00	24.50									
OGA		27.47	177	iPc	55	21.60	0.9	VTS		32.41	160	iPc	56	03.00	-1.6	MSL	41.38	137	ePd	57	22.00	1.9								
AVF		27.63	188	eP	55	20.80	-1.1	STS		32.42	204	e(P)	56	04.70	0.2				ePP	59	01.00									
		2.0s		198.25nm			5.4mb	RMP		32.55	175	P	56	05.50	-0.2				eS	03	01.00									
OSS		27.64	178	ePd	55	22.50	0.3	RDP		32.61	175	P	56	05.70	-0.5	AVE	41.79	201	iP	57	24.40	0.9								
FVI		27.78	174	P	55	24.10	0.9	SDI		32.69	173	Pc	56	06.80	-0.1				i	00	12.20									
BGF		27.88	189	eP	55	23.40	-0.9	DUI		32.76	172	P	56	07.00	-0.6	CBM	42.03	274	P	57	25.00	-0.3								
		1.5s		182.80nm			5.6mb	ERUA		32.76	202	eP	56	07.30	-0.2	SLY	42.59	134	eP	57	30.50	0.5								
MFF		28.00	193	eP	55	42.00	16.7X	SKO		32.87	163	iP	56	07.50	-0.9				i	59	13.00	578kmX								
		1.7s		147.05nm					Z	18s		9.25um			5.5Msz	TTA	42.74	350	P	57	32.20	1.2								
TCF		28.18	190	eP	55	25.90	-1.1		N	18s		9.14um					1.6s		180.33nm			5.6mb								
		1.6s		149.25nm			5.5mb		E	17s		5.70um				TOA	42.93	343	eP	57	34.30	1.7								
TMA		28.21	180	ePd	55	27.40	0.0					i	57	12.00	334kmX	HRI	43.15	146	eP	57	35.00	0.2								
MAF		28.23	189	eP	55	26.60	-0.8					i	01	26.00		FFC	43.36	308	eP	57	36.00	-0.1								
		1.6s		83.95nm			5.2mb					LR	09	53.00		PMR	43.66	345	eP	57	38.90	0.5								
DIX		28.24	182	ePd	55	28.20	0.4	JMB		32.88	155	eP	56	08.00	-0.5				i	59	25.90	613kmX								
LSF		28.25	191	eP	55	26.20	-1.4	PLD		33.04	158	eP	56	03.00	-6.8X	TEH	43.68	127	eP	57	43.00	3.9X								
		1.8s		146.75nm			5.4mb	RFI		33.10	173	P	56	11.20	0.8	SHMJ	43.69	146	Pc	57	43.50	4.5X								
EMS		28.26	183	ePd	55	27.50	-0.4	DIM		33.18	157	eP	56	12.00	0.9	TIO	44.13	200	iP	57	43.00	0.3								
MMK		28.27	181	ePd	55	28.60	0.6	RZN		33.45	158	iPd	56	22.00	8.3X				i	00	01.50									
CTI		28.30	176	P	55	28.50	0.4	KDZ		33.56	157	iPc	56	14.00	-0.4	SALJ	44.38	147	Pc	57	44.40	-0.3								
IAS		28.34	153	eP	55	27.00	-1.3	VAY		33.61	161	iP	56	14.00	-0.8	SVW	44.54	349	eP	57	47.30	1.7								
VOY		28.37	173	e(P)	55	28.00	-0.8					i	58	54.30		BHD	44.63	136	ePd	57	48.00	1.4								
LJU		28.39	172	eP	55	29.00	0.2	BRT		33.67	169	P	56	10.00	-5.4X				ePP	59	43.00									
				eS	00	16.00		OHR		33.67	164	eP	56	14.50	-1.0				eS	04	19.00									
VAI		28.45	180	P	55	29.10	-0.2			1.5s		196.00nm			5.8mb				eSS	07	38.00									
MDI		28.54	179	P	55	30.20	0.1	EBR		33.72	191	(P)	56	12.00	-3.8X	DSI	44.77	147	eP	57	48.00	0.3								
PTJ		28.59	170	eP	55	31.50	0.8					eS	01	32.00		MKRJ	44.82	147	Pd	57	47.40	-0.9								

27d 21h

```
MAIO    45.01 118 iPc+  57 50.60   0.9
        1.2s    38.19nm           5.2mb
                  i     59 28.00 526kmX
                  eS    04 28.00
BNH     45.04 276 P     57 49.20  -0.6
WMQ     45.42  86 Pd    57 54.20   1.3
     Z  16s     17.70um          6.1MszX
     E  16s     11.10um
                  pP    58 02.00  26km
                  PP    59 45.00
                  ScS   07 50.00
HBVT    45.74 277 P     57 52.40  -3.0X
HLW     45.89 152 eP    57 56.00  -0.6
                  eS    04 41.00
PRNI    45.91 148 eP    57 57.00   0.1
WNY     45.93 278 P     57 56.40  -0.5
KSH     46.29  99 Pd    58 01.00   1.1
     Z  20s     12.50um          5.9Msz
     E  10s      3.90um
                  PP    59 48.00
MBH     46.46 148 eP    58 01.00  -0.1
HQL     46.98 148 eP    58 05.10  -0.1
EDM     47.08 316 ePc   58 05.50  -0.4
BADA    47.70 148 eP    58 10.30  -0.6
KDC     47.71 347 eP    58 11.20   0.6
WVLY    48.98 282 P     58 20.20  -0.6
PNJ     49.25 277 iP    58 22.80   0.0
GMTN    49.28 277 iP    58 23.30   0.3
SES     49.32 313 ePc   58 22.80  -0.5
        1.6s   380.00nm          6.2mb
                  pP    58 31.00  27km
LVNJ    49.51 277 P     58 21.00  -3.8X
ASW     51.79 152 iPd   58 44.00   1.7
                  eS    06 07.00
PNT     51.98 319 eP    58 44.00   0.5
        1.2s    42.00nm          5.3mb
MJMA    52.02 137 eP    58 43.50  -0.6
DHR     52.53 132 ePc   58 47.30  -0.5
NEW     52.53 317 P     58 48.20   0.4
        1.2s    47.35nm          5.3mb
CBN     52.65 279 eP    58 48.00  -0.6
                  e     01 42.00
QUE     52.68 112 eP    58 49.40   0.2
                  e(S)  06 16.00
GTA     52.80  77 iPd   58 50.00   0.0
        5.0s  1300.00nm          6.1mb X
     Z  20s      8.40um          5.8Msz
     N  16s      5.10um
                  PP    00 51.00
                  S     06 16.00
AFIF    53.35 140 eP    58 55.70   1.7
RYD     53.37 136 eP    58 53.50  -0.7
LRM     53.97 312 ePd   58 58.40  -0.2
ADK     54.13   4 eP    58 59.50   0.2
GMW     54.24 321 P     59 00.60   0.4
BTO     54.33  67 P     59 01.00  -0.2
     N  16s      4.80um
     E  14s      3.60um
                  PP    01 06.00
                  eS    06 36.50
                  eSS   10 20.00
BLA     54.40 281 P     59 01.10  -0.5
HHC     54.48  65 P     59 01.50  -0.8
     N  15s      6.10um
     E  15s      2.50um
LON     54.84 320 P     59 04.80   0.0
CN2     54.92  52 iPd   59 04.30  -1.0
        5.0s  1000.00nm          6.1mb X
     Z  17s      6.00um          5.7MszX
     N  15s      3.40um
     E  15s      2.90um
                  pP    59 14.00  32km
                  PP    01 11.00
                  eS    06 46.00
                  eSS   10 26.00
MDJ     55.02  49 Pc    59 03.70  -2.3
        1.8s   200.00nm          5.8mb
     Z  24s      4.00um          5.4MszX
     N  16s      2.90um
                  PP    01 10.00
                  eS    06 45.00
SLM     55.64 290 P     59 20.00   9.4X
     Z  20s      5.00um          5.6Msz
BW06    56.28 309 P     59 14.80  -0.7
        1.6s    47.37nm          5.3mb
BJI     56.38  62 eP    59 16.00   0.2
        5.0s   810.00nm          6.0mb X
```

```
     Z  20s      6.28um          5.7Msz
     N  14s      1.98um
     E  14s      1.99um
                  ePcP  00 15.00
                  ePP   01 24.00
                  eS    07 09.00
SNY     56.40  55 iPd   59 14.00  -1.9
        1.2s    40.00nm          5.3mb
     Z  21s      5.20um          5.6Msz
     N  15s      2.30um
     E  17s      3.60um
                  sP    59 28.00
                  S     07 08.00
TKL     56.76 283 P     59 17.60  -1.1
NDI     56.78 102 iPd   59 18.80  -0.1
                  eS    07 18.00
GBTN    56.87 284 P     59 17.80  -1.7
LZH     57.00  74 iPd   59 20.50  -0.1
        5.0s  1240.00nm          6.2mb X
     Z  20s     14.70um          6.1Msz
     N  18s     10.10um
     E  14s      4.00um
                  pP    59 26.50  20km
                  sP    59 31.00
                  PP    01 28.50
                  S     07 12.00
LHS     57.08 280 P     59 19.60  -1.3
JSC     57.39 281 P     59 22.00  -1.1
TIY     57.67  66 Pd    59 25.00  -0.1
     Z  18s      6.10um          5.8Msz
     N  16s      4.40um
GLD     58.22 304 P     59 28.60  -0.5
        1.7s   173.91nm          5.8mb
     Z  20s      7.00um          5.8Msz
GOL     58.30 304 P     59 29.40  -0.4
        1.3s    88.54nm          5.7mb
DL2     58.74  57 eP    59 31.00  -1.5
        7.0s   700.00nm          5.9mb X
     Z  20s      6.00um          5.7Msz
     N  16s      7.00um
                  pP    59 42.00  37km
                  S     07 40.00
SAP     58.74  39 eP    59 33.00   0.6
OLY     58.92 290 P     59 32.60  -1.2
GKN     59.43  95 P     59 37.20  -0.4
DUG     59.44 311 P     59 40.00   2.4
LSA     59.61  88 P     59 39.40   0.2
     N  14s      1.59um
                  PP    01 52.00
LNO     59.63 294 eP    59 40.30   1.8
TUL     59.63 294 eP    59 37.40  -1.3
        1.2s    10.90nm          4.9mb
     Z  22s     10.74um          5.9Msz
                  e     03 08.70
                  eS    07 43.00
                  LR    17 00.00
GUN     59.86  94 P     59 40.60  -0.2
DMN     59.93  95 P     59 41.00  -0.2
PKI     60.05  95 P     59 41.60  -0.5
TIA     60.25  62 Pd    59 42.00  -0.9
        5.5s   900.00nm          6.1mb X
     Z  20s      4.00um          5.6Msz
     N  14s      2.60um
     E  14s      2.20um
                  sP    59 56.50
                  S     08 00.00
XAN     60.26  70 P     59 42.30  -0.8
        5.0s   700.00nm          6.0mb X
     N  14s      3.80um
     E  16s      2.90um
                  PP    01 56.00
                  S     08 00.00
MSU     60.93 310 P     59 48.80   1.0
UYO     60.95 293 iPd   59 46.60  -1.1
WDC     60.95 319 ePc   59 47.10  -0.6
                  eP'P' 29 09.70
FHC     60.99 320 eP    59 41.10  -6.9X
MIN     61.01 318 ePc   59 48.50   0.2
MEO     61.39 297 iPd   59 49.90  -0.8
KVN     61.61 315 P     59 51.00  -1.4
ORV     61.76 318 eP    59 53.00  -0.2
CD2     61.87  76 iPd   59 53.80  -0.3
     Z  20s      6.60um          5.8Msz
     N  15s      6.60um
                  sP    00 07.60
                  sS    08 22.30
TNP     62.37 314 P     59 57.40  -0.1
```

```
OFUJ    62.67  40 P     59 58.30  -0.9
CMB     63.03 317 eP    59 57.00  -4.6X
                  eP'P' 29 06.70
ANMO    63.10 304 P     00 02.60   0.3
        2.0s   117.65nm          5.7mb
ALQ     63.10 304 eP    00 01.10  -1.2
        1.7s    93.27nm          5.6mb
     Z  18s     10.48um          6.1Msz
YAMJ    63.26  42 P     00 02.30  -0.8
BRK     63.53 318 ePc   00 07.00   2.2
     Z  20s     10.00um          6.0Msz
                  ePPP  04 12.00
                  eS    08 43.00
                  e     14 10.00
                  eLR   20 06.00
FRI     63.91 316 ePc   00 08.40   1.0
MAT     64.51  44 eP    00 10.00  -1.3
        1.8s   190.91nm          5.9mb
     Z  20s      2.84um          5.5Msz
                  eS    08 54.00
NJ2     64.63  62 Pd    00 09.50  -2.6
     Z  18s      1.80um          5.3Msz
     N  15s      2.70um
     E  14s      0.90um
                  S     08 55.00
CLC     64.64 314 eP    00 13.00   0.8
PRI     64.92 316 ePc   00 16.00   1.9
ISA     64.96 314 eP    00 15.00   0.7
WHN     64.96  67 eP    00 13.00  -1.2
     Z  20s      3.10um          5.5Msz
     N  13s      3.00um
                  sP    00 26.00
                  eS    08 56.00
GSC     64.98 313 eP    00 15.00   0.5
POO     65.58 109 iPc   00 17.80  -0.6
SBB     65.77 314 eP    00 20.00   0.5
TPC     65.98 312 eP    00 22.00   1.2
SSE     66.11  60 P     00 20.00  -1.6
        4.0s   600.00nm          6.1mb X
     Z  20s      4.50um          5.7Msz
     E  18s      6.80um
                  S     09 10.00
MWC     66.27 314 eP    00 23.00   0.1
SYP     66.35 315 eP    00 25.00   1.7
RVR     66.36 313 eP    00 23.00  -0.2
PAS     66.37 314 eP    00 23.00  -0.2
                  ePP   04 33.00
                  eS    09 24.00
                  eSS   13 27.00
                  eLR   20 45.00
GLA     66.75 310 eP    00 27.00   1.3
GYA     66.87  75 iPd   00 26.00  -0.7
     Z  28s      3.60um          5.4MszX
     N  20s      3.00um
                  S     09 17.00
PLM     66.87 312 eP    00 27.00   0.3
KMI     67.10  79 Pc    00 27.50  -0.7
        1.5s   250.00nm          6.1mb
     Z  20s     11.00um          6.1Msz
     N  17s      2.80um
     E  17s      2.20um
                  pP    00 37.50  32km
                  iS    09 25.00
BAR     67.49 312 eP    00 33.00   2.6
HYB     67.87 105 iPd   00 32.00  -0.9
        1.2s    71.40nm          5.7mb
GBA     71.23 107 Pd    00 51.80  -1.6
        1.7s    88.30nm          5.6mb
QZH     71.37  64 eP    00 52.00  -2.2
     E  18s      3.80um
                  eS    10 12.00
                  sS    10 16.00
GZH     71.83  70 P     00 58.00   1.0
     Z  18s      6.80um          6.0Msz
     N  17s      6.80um
                  S     10 16.00
CHG     72.07  85 ePd   00 58.10  -0.4
        1.0s    43.25nm          5.4mb
                  eS    10 20.00
HKC     72.79  69 iP    01 04.00   1.4
BDT     73.59  85 eP    01 08.00   0.7
LOE     74.17  82 eP    01 10.00  -0.7
KOD     74.46 108 eP    01 15.00   2.2
QIZ     74.79  74 P     01 15.55   1.2
     E  18s      8.70um
                  PP    04 05.00
                  eS    10 54.00
```

NST	75.39	84	eP	01	19.00	1.3	ENIJ	42.94	42	eP	00	58.30	1.6	HAU	54.33	35	eP	02	22.80	-1.9
NNT	78.22	86	eP	01	17.20	-16.3X	ERUA	43.40	32	e(P)	01	01.70	1.4		1.0s	48.00nm				5.5mb
BAG	80.05	65	eP	01	43.00	-0.7	EVIA	43.71	40	e(P)	01	00.80	-2.1	BSF	54.49	35	eP	02	24.00	-2.0
IPM	86.23	87	ePc	02	16.10	1.0	GUD	43.91	36	eP	01	06.20	1.6		1.0s	48.00nm				5.5mb
	1.6s	11B.50nm				5.9mb	EMON	44.04	31	eP	01	04.40	-1.1	BOB	54.52	39	P	02	27.20	0.9
PSI	87.45	89	ePd	02	20.00	-1.0	NNA	44.22	244	eP	01	10.00	2.7	EKA	54.55	23	P	02	24.00	-2.2
BUL	95.01	161	iPd	02	43.90	-12.2X		1.0s	13.00nm				4.7mb		2.1s	62.80nm				5.3mb
PT08	100.16	262	iPdiff	03	30.50	10.6X	Z	18s	1.20um				4.9Msz	DOU	54.57	32	P	02	24.90	-1.5
NNA	100.27	263	iPdiff	03	27.00	7.0X	ECHE	45.23	40	eP	01	17.30	2.1	VAI	54.64	38	P	02	24.80	-2.1
			eS	04	06.00		ETOR	45.28	38	e(P)	01	17.50	1.9	CDF	55.07	35	eP	02	28.00	-2.3
PT10	100.39	263	iPdiff	03	27.10	6.6X	ECRI	46.11	35	eP	01	25.50	3.4X		1.1s	34.20nm				5.3mb
			iS	04	07.00		TBR	46.91	321	P	01	27.00	-1.3	MEM	55.61	32	P	02	29.70	-4.2X
PT02	101.07	262	e(Pdif	03	39.30	15.8X	CBM	47.29	331	P	01	31.50	0.3	ENN	55.66	32	eP	02	35.00	0.7
			eS	04	29.70		NA2	47.64	316	P	01	32.40	-1.7		1.0s	22.00nm				5.1mb
WRA	118.40	61	PKPc	08	20.30	-0.7	ESEL	47.83	42	e(P)	01	36.80	1.2	SDI	56.11	44	P	02	39.90	2.1
	0.9s	4.40nm					EPF	48.03	37	eP	01	36.80	-0.4	DUI	56.54	45	P	02	42.40	1.5
BWA	135.52	50	ePKP	08	54.00	0.6		1.0s	62.00nm				5.7mb	TNS	56.69	33	ePc	02	42.20	0.3
			e	13	05.80		HBVT	48.14	325	P	01	38.80	0.8	WTS	56.82	31	eP	02	43.00	0.4
CAN	136.50	50	ePKP	08	56.30	1.0	BLA	49.11	313	P	01	45.20	-0.4		1.0s	26.00nm				5.2mb
			e	12	54.00		ETER	49.15	39	e(P)	01	48.80	3.1X	FVI	57.44	39	P	02	47.10	0.0
MAW	145.78	147	iPKPd+	09	12.30	1.7	VAL	49.25	22	eP	01	47.00	0.6	TRI	57.67	40	iPd	02	49.60	0.8
	1.0s	82.00nm					LFF	49.40	35	eP	01	46.60	-1.0				i	02	57.60	
MHZ	149.46	28	PKP	09	22.60	5.2X		1.0s	52.00nm				5.5mb	VOY	57.89	40	eP	02	51.10	0.7
TLC	149.56	28	PKP	09	23.00	5.5X	LPO	49.50	35	eP	01	47.20	-1.3	GRF	57.96	35	ePc	02	51.10	0.4
SPA	164.12	180	ePKP	09	30.90	-3.9X		1.0s	34.00nm				5.3mb		1.2s	48.00nm				5.4mb
	1.2s	13.38nm					MFF	49.94	33	eP	01	50.20	-1.6		Z 20s	2.00um				5.2Msz
	S.D. = 1.0 on 305 of 344 obs.							1.4s	47.90nm				5.3mb			e		02	55.10	
----------							RJF	50.06	35	eP	01	50.90	-1.8			e		02	59.80	
MAY 27, 1990 21h 52m 55.79± 0.40s								1.0s	26.00nm				5.2mb			e		03	12.20	
7.715 N ± 8.0km 36.963 W ± 6.6km							CAF	50.15	36	eP	01	52.10	-1.4			e		03	23.90	
DEPTH = 10.0km (geophysicist)								1.0s	42.00nm				5.4mb	VBY	58.55	41	eP	02	50.80	-4.1X
5.3mb (47 obs.) 5.2Msz (3 obs.)							LPF	50.39	31	eP	01	54.10	-1.1			e		02	55.30	
CENTRAL MID-ATLANTIC RIDGE (406)								1.0s	74.00nm				5.6mb	MOX	58.65	34	e(P)	02	56.00	0.5
CENTROID, MOMENT TENSOR (HRV)							LSF	50.63	34	eP	01	55.40	-1.7	KMR	58.90	38	iP-	02	59.20	1.8
Doto Used: GDSN								1.4s	52.30nm				5.3mb	KHC	59.05	36	P	02	58.90	0.5
L.P.B.: 13S, 31C							GRR	50.72	30	eP	01	55.80	-1.9	ZAG	59.14	41	eP	03	00.00	1.0
Centroid Locotion:								1.0s	22.00nm				5.1mb	PTJ	59.15	40	eP	03	00.10	0.8
Origin Time 21:53: 1.2 0.4							ECP	50.92	24	eP	01	59.80	0.7	AKU	59.36	9	iP	03	01.00	0.8
Lat 7.62N 0.04 Lon 36.85W 0.04							LBL	51.01	36	P	02	01.50	1.6		0.9s	23.53nm				5.3mb
Dep 15.0 FIX Half-duration 3.4							TCF	51.03	34	eP	01	58.80	-1.4	PRU	60.00	36	P	03	05.00	0.1
Moment Tensor; Scole 10**17 Nm								1.2s	22.30nm				5.0mb			e		03	13.50	
Mrr=-0.58 0.28 Mtt=-0.01 0.33							FLN	51.15	30	eP	01	59.90	-1.0	FRB	60.34	344	eP	03	10.00	3.1X
Mff= 0.59 0.48 Mrt= 0.00 0.00								1.0s	26.00nm				5.1mb	ZST	60.77	38	iP	03	08.50	-1.7
Mrf= 0.00 0.00 Mtf=-7.72 0.30							PYM	51.17	35	P	02	02.50	1.2	OHR	60.87	47	eP	03	05.00	-6.0X
Principal Axes:							MAF	51.19	35	eP	02	00.40	-1.0	SRO	61.38	39	iP	03	13.90	-0.4
T Val= 8.01 Plg= 0 Azm=226								1.4s	47.90nm				5.2mb	SKO	61.57	46	eP	03	16.00	0.3
N -0.58 90 180							LDF	51.22	31	eP	01	59.70	-1.8		Z 18s	2.36um				5.4Msz
P -7.44 0 136								1.0s	30.00nm				5.2mb		N 16s	2.13um				
Best Double Couple:Mo=7.7*10**17							ETA	51.38	23	eP	02	03.10	0.5		E 20s	2.88um				
NP1:Strike=271 Dip=90 Slip=-180							AGO	51.41	35	P	02	04.07	1.0			LR		03	14.00	
NP2: 1 90 0							DCN	51.47	22	eP	02	01.60	-1.7	VAY	62.21	47	iP	03	20.50	0.5
							BGF	51.55	34	eP	02	02.70	-1.3	KRA	63.21	37	eP	03	27.50	1.1
ITR	16.43	185	eP	56	47.70	-0.5		1.0s	54.00nm				5.4mb		1.1s	72.00nm				5.8mb
MBO	20.72	70	iPd	57	39.30	0.3	PLDF	51.65	35	P	02	06.10	1.2			e		03	35.90	
BAO	25.64	205	eP	58	25.40	-2.2	PEL	51.76	216	eP	01	58.00	-7.8X	NB2	64.01	24	P	03	28.80	-2.9X
CUM	27.00	278	eP	58	53.00	13.0X	LRG	51.94	39	eP	02	05.50	-1.6		0.9s	24.20nm				5.4mb
LKO	31.07	84	P	59	15.84	-0.7	AVF	51.97	34	eP	02	05.60	-1.6	HFS	64.54	25	ePKP	03	34.50	-0.5
	0.8s	15.00nm				5.0mb		1.5s	62.70nm				5.3mb		0.9s	11.50nm				5.1mb
KIC	32.00	90	P	59	26.04	1.2	YRH	52.12	24	eP	02	08.70	0.5	KHL	66.84	52	eP	03	49.00	-1.3
KUK	36.35	90	eP	00	00.00	-2.2	SMF	52.16	35	eP	02	07.00	-1.7	ELL	66.91	53	iP	03	50.50	-0.4
WEGH	36.44	91	eP	00	03.00	0.0		1.4s	30.50nm				5.0mb	ALT	67.40	51	eP	03	53.00	-0.9
LEGH	36.58	91	eP	00	03.00	-1.2	SSF	52.21	34	eP	02	07.40	-1.6	GOL	68.52	310	P	04	00.00	-1.1
SHGH	36.70	90	eP	00	05.00	-0.1		1.4s	43.55nm				5.2mb		1.1s	16.03nm				5.1mb
TEGH	36.76	91	eP	00	02.00	-3.7X	LBF	52.43	34	eP	02	09.00	-1.7	ALQ	68.82	304	eP	04	05.00	2.0
CCH	38.12	229	P	00	17.50	0.1		1.0s	32.00nm				5.2mb		1.5s	25.69nm				5.2mb
ZOBO	38.98	232	P	00	19.00	-5.9X	LOR	52.53	34	eP	02	09.60	-1.8	FFC	69.42	326	eP	04	08.00	2.0
	1.0s	72.50nm				5.3mb		1.0s	38.00nm				5.3mb	BBTK	69.54	50	eP	04	07.00	-0.2
		i		00	23.00		SBF	52.82	39	eP	02	12.20	-1.6	FRS	70.43	125	eP	04	11.50	-1.0
		S		06	18.00			1.2s	89.25nm				5.6mb	PRNI	70.59	61	eP	04	15.00	1.4
		LR		11	06.00		PZZ	52.93	39	P	02	14.08	-0.6	DSI	70.97	59	eP	04	18.00	2.1
LPB	39.11	232	P	00	20.00	-5.8X	STV	52.94	39	P	02	14.49	-0.2	HRI	71.36	58	eP	04	20.00	1.7
	1.3s	153.85nm				5.5mb	RRL	52.95	38	P	02	15.41	0.5	SEK	71.82	123	eP	04	25.00	3.8X
		S		04	22.00		BNI	52.95	38	P	02	16.30	1.5	SOD	72.93	21	eP	04	23.00	-3.9X
		LR		11	26.00		ENR	52.99	39	P	02	15.62	0.5				i	04	38.00	
EJIF	40.51	40	e(P)	00	40.10	3.4X	IMI	53.13	40	P	02	15.31	-0.8	BFT	73.03	120	eP	04	30.50	2.0
PSO	40.73	263	eP	00	35.50	-3.8X	PGF	53.21	42	eP	02	14.70	-2.0		1.2s	46.88nm				5.4mb
EPRU	40.98	40	e(P)	00	43.60	3.0X		1.6s	99.50nm				5.5mb	DAU	73.08	310	P	04	26.30	-2.4
EHOR	41.49	39	e(P)	00	46.60	1.9	LPL	53.23	37	eP	02	15.80	-1.1	MSU	73.67	308	P	04	31.40	-0.7
ATEJ	41.73	41	iPc	00	48.70	1.8		1.1s	19.55nm				5.0mb	SES	73.95	320	eP	04	35.00	1.8
ARE	41.76	235	eP	00	47.00	-0.6	LPG	53.23	37	eP	02	15.90	-1.1	KEV	73.95	19	eP	04	32.00	-0.8
ALOJ	41.78	41	iPc	00	49.00	1.7		1.2s	35.70nm				5.2mb		0.8s	19.10nm				5.2mb
AAPN	41.89	40	iPc	00	50.50	2.4	ROB	53.31	39	P	02	15.00	-2.3			i		04	38.60	
ACHM	41.96	41	iPc	00	51.00	2.3	RSP	53.36	38	P	02	17.87	0.1	LRM	74.40	315	eP	04	38.50	2.4
APHE	41.96	41	iPc	00	51.40	2.6	LSD	53.45	38	P	02	20.33	1.7	TPC	76.70	303	eP	05	00.00	10.8X
ASMO	42.16	41	iPc	00	53.00	2.6	FIN	53.48	39	P	02	17.97	-0.6	BAR	77.23	302	eP	05	02.00	9.8X
AFC	42.23	41	eP	00	52.60	1.6	ERC	53.88	48	P	02	23.30	1.7	PLM	77.38	302	eP	05	03.00	9.8X
EPLA	42.42	36	eP	00	51.80	-0.5	ORX	54.04	38	P	02	21.25	-1.5	TNP	77.63	307	P	04	52.00	-2.5

27d 22h

	1.0s	25.00nm			5.3mb	
NEW	77.74	318 P	04	55.00	0.3	
	1.1s	18.52nm			5.1mb	
RVR	77.80	303 eP	05	01.00	5.8X	
CLC	77.95	305 eP	05	06.00	9.9X	
SBB	78.16	304 eP	05	01.00	3.7X	
KVN	78.31	308 P	04	56.60	-1.6	
ISA	78.67	305 eP	05	04.00	3.9X	
PNT	79.41	319 eP	05	06.00	2.2	
	1.0s	17.00nm			5.0mb	
FRI	79.62	306 e(P)	05	09.80	4.6X	
SYP	79.94	304 eP	05	25.00	17.9X	
BCH	80.00	304 P	05	10.60	3.2X	
TAB	80.02	53 eP	05	10.00	2.5	
CMB	80.13	307 eP	05	09.80	1.9	
		epP	06	00.50	209kmX	
		esP	06	26.00		
MBC	80.74	346 eP	05	12.00	1.6	
	1.0s	28.00nm			5.2mb	
ORV	80.94	309 ePd	05	15.00	2.9X	
MIN	80.98	310 e(P)	05	18.60	6.1X	
MHC	81.15	307 eP	05	19.10	5.6X	
WDC	81.68	310 e(P)	05	22.60	6.6X	
FBA	91.70	336 P	06	14.00	9.5X	
	1.0s	7.50nm			5.0mb	
BJI	126.39	26 ePKP	12	07.00	6.1X	
KKM	149.96	64 ePKP	12	54.00	9.9X	
TOO	150.20	184 ePKP	12	53.90	10.2X	
	S.D. = 1.5	on 132 of 167 obs.				

? MAY 27, 1990 21h 57m 44.22± 5.96s
8.469 N ±80.9km 37.499 W ±43.1km
DEPTH = 10.0km (geophysicist)
4.7mb (15 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

MBO	20.97	72 eP	02	30.30	0.2	
EPF	47.75	37 eP	06	24.40	0.9	
	0.9s	12.30nm			5.0mb	
LFF	49.09	36 eP	06	34.10	0.4	
	0.9s	14.75nm			5.0mb	
LPO	49.20	36 eP	06	34.70	0.1	
	0.9s	6.55nm			4.6mb	
MFF	49.60	33 eP	06	37.60	0.0	
	0.8s	5.35nm			4.6mb	
CAF	49.85	36 eP	06	39.70	0.1	
	0.9s	6.55nm			4.6mb	
LPF	50.02	31 eP	06	41.50	0.7	
	0.8s	10.75nm			4.9mb	
LSF	50.31	35 eP	06	43.00	-0.1	
GRR	50.34	31 eP	06	43.30	0.0	
FLN	50.78	31 eP	06	46.40	-0.1	
LDF	50.85	31 eP	06	47.10	0.0	
ETA	50.91	24 eP	06	48.10	0.7	
BGF	51.23	35 eP	06	50.20	0.1	
	0.9s	10.65nm			4.8mb	
AVF	51.65	35 eP	06	53.00	-0.2	
	0.9s	5.75nm			4.5mb	
YRH	51.65	25 eP	06	52.60	-0.6	
SSF	51.89	35 eP	06	54.70	-0.4	
LBF	52.11	35 eP	06	56.60	-0.2	
	0.9s	6.55nm			4.6mb	
LOR	52.21	35 eP	06	57.20	-0.3	
HAU	54.02	35 eP	07	10.10	-0.7	
	0.9s	8.20nm			4.8mb	
EKA	54.07	23 P	07	11.00	-0.1	
	1.0s	4.50nm			4.5mb	
BSF	54.18	35 eP	07	11.50	-0.6	
	0.9s	8.20nm			4.8mb	
DOU	54.22	32 Pc	07	11.90	-0.3	
MEM	55.25	32 P	07	19.60	-0.2	
GRF	57.65	35 eP	07	36.10	-0.9	
NB2	63.54	24 P	08	16.70	-0.3	
	0.9s	5.30nm			4.7mb	
HFS	64.09	26 ePKP	08	22.20	1.7	
	0.7s	4.50nm			4.8mb	
SES	73.04	320 eP	09	20.00	3.7X	
MBC	79.89	346 eP	10	04.00	9.7X	
	1.0s	5.00nm			4.4mb	
INK	84.42	338 eP	10	30.00	12.1X	
	S.D. = 0.6	on 26 of 29 obs.				

% MAY 27, 1990 22h 20m 14.89± 1.70s
44.542 N ± 8.9km 6.882 E ±16.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN).

PZZ	0.16	103 P	20	18.52	-0.2	
		S	20	20.78		
RRL	0.38	350 P	20	22.31	-0.5	
		S	20	28.26		
STV	0.44	133 P	20	23.65	-0.1	
		S	20	30.52		
ENR	0.50	129 P	20	24.88	-0.1	
		S	20	32.16		
RSP	0.66	23 P	20	27.85	-0.4	
		S	20	36.57		
ROB	0.75	109 P	20	29.39	-0.2	
		S	20	39.95		
LSD	0.94	12 P	20	33.90	1.0	
		S	20	45.49		
IMI	0.96	131 P	20	33.80	0.6	
		S	20	46.82		
FIN	1.01	109 P	20	34.00	0.0	
		S	20	47.13		
	S.D. = 0.6	on 9 of 9 obs.				

---

* MAY 27, 1990 23h 11m 20.65± 0.68s
3.606 N ±14.0km 122.736 E ±16.6km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
CELEBES SEA (262)

WB5	25.99	154 eP	16	52.20	-0.2	
WRA	26.03	154 Pd	16	53.20	0.4	
	0.6s	2.30nm			4.0mb	
MAT	35.74	22 (P)	18	18.00	-0.5	
	0.7s	4.11nm			4.5mb	
GUN	42.62	308 P	19	16.60	0.4	
PKI	42.84	308 P	19	18.50	0.6	
DMN	43.09	308 P	19	20.40	0.5	
GKN	43.64	308 P	19	24.60	0.4	
	0.5s	11.00nm			4.9mb	
GBA	45.80	285 Pd	19	39.90	-1.5	
	0.7s	11.00nm			4.9mb	
	S.D. = 0.9	on 8 of 8 obs.				

MAY 27, 1990 23h 55m 31.08± 1.19s
7.739 S ± 5.8km 127.893 E ±11.2km
DEPTH = 97.4 ± 13.3 km
4.9mb (7 obs.)
BANDA SEA (280)

AAI	4.04	4 ePd	56	33.50	1.7	
MTN	5.99	148 iPc	56	57.20	-1.7	
KNA	8.01	174 iPd	57	24.80	-1.7	
	0.3s	96.00nm			6.0mb X	
		eS	58	47.00		
WB5	13.60	153 eP	58	36.00	-5.2X	
		eS	00	59.00		
WRA	13.65	153 Pd	58	36.60	-5.2X	
	1.1s	241.50nm			5.5mb	
MBL	15.45	209 eP	59	03.00	-1.9	
	0.3s	22.00nm			4.9mb	
		eS	01	43.00		
QIS	17.05	140 iPd	59	21.20	-3.7X	
		eS	02	18.00		
		i	59	24.00		
KKM	17.98	319 eP	59	39.00	2.7	
WARB	18.38	184 iPd	59	40.20	-1.0	
NANU	18.94	218 iPc	59	48.00	0.7	
		eS	03	10.00		
MEKA	20.77	204 eP	00	07.00	0.8	
		eS	03	45.00		
CTA	21.61	126 iP	00	20.00	5.3X	
		e(S)	04	11.00		
FORR	22.99	180 iPd	00	19.40	-8.7X	
		eS	04	43.00		
COOL	23.88	194 eP	00	37.50	0.8	
		eS	05	02.00		
MRWA	24.12	206 eP	00	40.80	1.7	
		eS	05	06.00		
QLP	24.34	142 iPd	00	41.20	0.0	
BAL	25.05	203 eP	00	48.50	0.7	
		eS	05	25.00		
KLB	25.55	200 eP	00	53.10	0.7	
		eS	05	36.00		
MUN	26.46	203 eP	01	00.50	-0.3	
		eS	05	58.00		
IPM	29.47	294 ePc	01	28.50	0.3	
	0.9s	27.30nm			4.9mb	
PSI	30.70	289 iPc	01	39.00	0.0	
	0.8s	59.60nm			5.4mb	
BFO	32.19	158 ePd	01	52.20	0.4	
		e	02	15.00		
BWA	32.60	147 eP	01	56.90	1.5	
CAN	33.59	148 eP	02	04.90	0.9	
TOO	33.72	154 iPd	02	06.50	1.4	
	0.6s	9.00nm			4.8mb	
CHTO	38.87	313 eP	02	50.00	1.2	
	1.0s	3.00nm			4.1mb	
GYA	39.75	329 P	02	56.40	0.3	
CD2	44.85	330 eP	03	36.50	-0.9	
TIY	47.47	343 Pd	03	57.00	-1.0	
BJI	48.76	348 eP	04	06.00	-1.8	
GTA	53.64	333 eP	04	43.80	-1.0	
GUN	53.89	313 P	04	45.80	-1.3	
PKI	54.04	312 P	04	46.70	-1.5	
GKN	54.85	312 P	04	52.40	-1.5	
MAIO	77.53	310 eP	07	18.00	-0.1	
SPA	82.31	180 eP	07	43.00	-0.1	
	1.0s	8.00nm			4.5mb	
BCAO	109.74	272 ePdiff	09	54.80	4.0X	
	0.6s	2.00nm				
LPB	151.16	147 PKP	15	12.00	2.3X	
ZOBO	151.36	146 PKP	15	16.90	6.7X	
CCH	151.44	151 PKP	15	16.50	6.5X	
	S.D. = 1.3	on 31 of 40 obs.				

& MAY 27, 1990 23h 57m 34.59s
63.467 N 150.861 W
DEPTH = 11.4km
CENTRAL ALASKA (1)
<AGS-P>.

KTH	0.09	343 iP	57	37.26	-0.2	
HUR	0.74	131 eP	57	48.94	-0.1	
		eS	57	58.84		
MCK	0.90	72 eP	57	51.20	-0.5	
RND	0.90	93 iP	57	51.49	-0.4	
		eS	58	03.17		
CUT	1.10	166 eP	57	55.81	0.7	
		eS	58	09.61		
SKT	1.52	192 iP	58	02.54	0.8	
WRH	1.58	49 eP	58	01.97	-0.6	
CCB	1.79	47 eP	58	03.80	-1.8	
GHO	1.92	151 iP	58	07.94	0.4	
SML	2.03	144 iP	58	09.28	0.1	
PLRM	2.05	156 iP	58	09.37	0.1	
NCG	2.16	197 iP	58	11.86	0.9	
PMS	2.31	164 eP	58	14.35	1.2	
SPU	2.36	194 eP	58	14.61	0.8	
PAX	2.49	99 eP	58	16.64	0.9	
	15 obs. associated					

---

* MAY 28, 1990 00h 35m 50.79± 0.73s
55.257 N ± 7.4km 58.699 E ±10.6km
DEPTH = 33.0km (normal)
4.5mb (12 obs.)
URAL MOUNTAINS REGION (335)

SUF	18.19	307 eP	40	02.00	0.0	
NUR	18.70	300 iP	40	05.00	-3.2X	
	0.7s	12.00nm			4.2mb	
MAIO	18.97	178 iPd	40	11.00	-0.8	
SOD	19.31	322 iP	40	13.80	-1.7	
KEV	20.25	328 eP	40	26.00	0.5	
BBTK	23.13	239 eP	40	57.00	2.1	
KRA	23.85	274 eP	41	07.50	6.0X	
HFS	24.16	300 eP	41	05.20	0.7	
	0.5s	6.50nm			4.4mb	
NB2	25.24	303 P	41	14.10	-0.8	
	0.6s	11.60nm			4.7mb	
KSP	25.57	278 eP	41	18.50	0.5	
BRG	26.88	279 e(P)	41	47.00	16.9X	
CLL	27.22	281 eP	41	33.00	-0.1	
		e	41	48.00		
KHC	27.92	276 P	41	40.40	0.8	
HAU	32.61	279 eP	42	21.00	-0.1	
LPL	33.80	275 eP	42	31.80	0.1	
	0.7s	5.50nm			4.6mb	
LPG	33.80	275 eP	42	32.00	0.2	
	0.7s	4.40nm			4.5mb	
EKA	34.19	296 P	42	35.00	0.3	
	0.9s	3.30nm			4.3mb	
PGF	34.31	269 eP	42	35.90	-0.1	
SBF	34.38	272 eP	42	36.00	-0.6	
	0.7s	14.35nm			5.0mb	
LOR	34.42	280 eP	42	36.30	-0.5	
LBF	34.51	279 eP	42	37.10	-0.6	
SSF	34.74	280 eP	42	39.00	-0.5	

SMF 34.78 279 eP 42 40.70 0.7
FRF 35.02 273 eP 42 41.40 -0.6
0.7s 6.60nm 4.7mb
LMR 35.24 272 eP 42 43.60 -0.2
LRG 35.25 273 eP 42 43.60 -0.3
0.7s 7.70nm 4.7mb
BGF 35.40 280 eP 42 45.10 -0.1
0.7s 6.05nm 4.6mb
MAF 35.75 279 eP 42 48.20 0.0
CAF 36.80 278 eP 42 57.90 0.9
0.7s 3.30nm 4.3mb
EPF 38.95 277 eP 43 14.70 -0.4
0.7s 3.85nm 4.3mb
INK 56.42 5 eP 45 32.00 1.3
LKO 67.66 254 (P) 46 46.20 -0.5
SPA 145.08 180 iPKPd 55 24.70 -0.2
0.9s 13.64nm
AIA 151.03 227 e(PKP)55 38.00 3.9X
S.D. = 0.8 on 30 of 34 obs.

? MAY 28, 1990 00h 39m 28.63± 3.19s
15.883 N ±29.0km 98.685 W ±10.0km
DEPTH = 33.0km (normal)
OFF COAST OF GUERRERO, MEXICO (65)

ACX 1.49 311 iP 39 53.56 0.1
iS 40 11.05
OXX 2.23 57 iP 40 04.00 -0.2
iS 40 31.98
III 2.59 343 iP 40 09.00 -0.3
iS 40 39.51
IIT 3.14 7 (P) 40 17.00 -0.2
iS 40 54.00
PPM 3.17 1 iP 40 17.96 0.2
(S) 40 56.04
UNM 3.46 352 (P) 40 29.00 7.2X
(S) 41 06.00
CRX 3.63 345 (P) 40 28.50 4.3X
(S) 41 14.00
IIC 3.90 352 (P) 40 34.87 6.8X
(S) 41 23.44
IIJ 3.96 346 iP 40 33.86 4.8X
(S) 41 18.02
LVVM 4.39 29 (P) 40 35.00 0.4
(S) 41 24.00
MRX 4.49 328 (P) 40 41.00 4.9X
(S) 41 25.00
S.D. = 0.3 on 6 of 11 obs.

? MAY 28, 1990 01h 08m 48.86± 2.09s
37.667 N ±16.1km 21.043 E ±20.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.5 (ATH).

VLS 0.62 325 ePg 08 56.20 -5.2X
eSg 09 04.20
ITM 0.86 124 ePg 09 05.50 0.1
VLI 1.78 121 ePg 09 24.30 4.4X
ATH 2.14 81 ePg 09 32.00 6.9X
KEK 2.26 335 ePb 09 26.50 -0.4
NEO 2.37 46 ePn 09 27.50 -0.9
VAY 3.84 17 ePn 09 50.30 1.1
S.D. = 1.5 on 4 of 7 obs.

% MAY 28, 1990 01h 11m 56.55± 0.70s
37.711 N ± 6.6km 14.886 E ± 5.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.27 326 Pc 12 02.00 -0.3
eSg 12 07.00
MEU 0.61 177 P 12 08.40 -0.5
eSg 12 18.60
ATN 0.64 45 P 12 09.00 -0.4
eSg 12 19.00
GIB 0.73 292 P 12 11.00 0.0
eSg 12 22.50
SOI 0.99 68 P 12 16.00 0.7
FAI 1.06 246 P 12 17.00 0.6
eSg 12 32.50
S.D. = 0.6 on 6 of 6 obs.

MAY 28, 1990 01h 11m 57.21± 0.40s
5.462 N ± 6.6km 31.847 E ± 6.0km
DEPTH = 10.0km (geophysicist)
4.8mb (29 obs.) 4.0Msz (2 obs.)

SUDAN (557)

NAI 8.32 143 iPc 14 01.50 0.4
1.0s 110.00nm 6.1mb X
BCAO 13.30 266 iPd 15 05.90 -2.9
0.6s 69.00nm 5.9mb X
id 16 30.50
id 18 17.70
AWKL 17.87 2 iPd 16 19.00 11.4X
AGAL 17.89 3 iPd 16 19.00 11.2X
AKSR 18.11 3 iPd 16 22.00 11.5X
AKRL 18.11 3 iPc 16 23.00 12.4X
ASW 18.54 3 eP 16 24.00 8.1X
KRI 22.26 186 iP 16 46.10 -10.1X
iSn 20 55.00
HLW 24.27 359 eP 17 25.00 9.4X
BUL 25.64 187 iP 17 19.00 -10.0X
iSn 22 07.50
BCK 31.87 358 eP 18 26.80 2.0
SEK 33.83 187 eP 18 43.00 0.9
S 24 17.00
KIC 36.40 273 Pd 19 04.70 0.6
1.1s 25.00nm 5.0mb
TIC 36.68 274 P 19 07.26 0.9
0.6s 23.50nm 5.1mb
LIC 36.69 273 P 19 07.14 0.7
Z 20s 0.38um 4.2Msz
LKO 37.32 279 Pd 19 12.54 0.7
MAIO 39.82 36 eP 19 35.00 2.5
QUE 41.19 49 eP 19 46.00 2.0
SRO 43.76 347 eP 20 05.60 1.1
LMR 43.85 333 eP 20 05.60 0.3
FRF 43.97 334 eP 20 06.20 0.0
0.9s 9.85nm 4.6mb
LRG 44.01 333 eP 20 06.70 0.1
0.9s 13.10nm 4.8mb
ZST 44.40 346 eP 20 10.40 0.7
e 22 13.60
TIO 44.59 309 iP 20 12.50 0.8
LPG 45.47 335 eP 20 18.10 -0.6
0.8s 6.05nm 4.6mb
LPL 45.49 335 eP 20 18.20 -0.6
KRA 45.56 349 eP 20 19.40 0.5
KHC 46.19 343 iPd 20 24.30 0.3
1.0s 8.00nm 4.7mb
ETOR 46.48 324 eP 20 28.00 1.6
EPF 46.63 328 eP 20 27.70 0.1
KSP 47.07 347 eP 20 31.50 0.7
TOL 47.08 322 eP 20 32.00 0.8
CAF 47.13 331 eP 20 32.00 0.5
1.0s 9.00nm 4.8mb
BSF 47.35 337 eP 20 32.80 -0.5
1.0s 8.00nm 4.8mb
LPO 47.38 330 eP 20 33.90 0.5
0.9s 11.45nm 5.0mb
GRF 47.39 342 ePd 20 33.60 0.1
Z 18s 0.10um 3.8Msz
e 20 40.70
GUD 47.61 323 eP 20 36.00 0.5
SMF 47.62 334 eP 20 34.90 -0.4
0.9s 16.40nm 5.1mb
CDF 47.64 338 eP 20 34.60 -1.0
HAU 47.66 337 eP 20 35.20 -0.5
RJF 47.67 331 eP 20 35.90 0.2
LFF 47.78 330 eP 20 36.80 0.2
0.9s 9.85nm 4.9mb
LBF 47.82 334 eP 20 36.40 -0.5
0.9s 8.20nm 4.8mb
MAF 47.86 333 eP 20 37.80 0.6
0.9s 15.55nm 5.1mb
AVF 47.94 334 eP 20 37.50 -0.3
0.9s 10.65nm 4.9mb
BGF 47.99 333 eP 20 38.10 -0.1
0.8s 6.70nm 4.8mb
TCF 48.07 333 eP 20 39.40 0.5
0.9s 19.65nm 5.2mb
SSF 48.08 334 eP 20 38.30 -0.6
0.8s 5.35nm 4.7mb
LOR 48.09 335 eP 20 38.40 -0.6
0.9s 9.85nm 4.9mb
LSF 48.36 332 eP 20 41.10 0.0
0.9s 15.55nm 5.1mb
MFF 49.41 331 eP 20 49.00 -0.1
0.9s 8.20nm 4.7mb
LDF 50.85 333 eP 20 59.50 -0.6
0.6s 7.20nm 4.8mb
LPF 50.86 332 eP 20 59.80 -0.4
0.9s 14.75nm 4.9mb
GRR 51.03 332 eP 21 00.80 -0.7
0.7s 8.80nm 4.8mb
FLN 51.13 333 eP 21 01.60 -0.6
0.5s 2.90nm 4.5mb
GKN 54.80 60 P 21 28.70 -1.4
DMN 55.11 60 P 21 31.40 -1.1
NUR 55.19 356 eP 21 32.00 -0.2
PKI 55.36 60 P 21 32.90 -1.5
GUN 55.84 60 P 21 36.40 -1.5
APO 56.60 350 eP 21 40.70 -1.7
0.5s 1.90nm 4.4mb
EKA 57.08 337 Pc 21 46.00 0.1
1.1s 10.10nm 4.8mb
SUF 57.29 357 iP 21 47.00 -0.2
0.5s 9.90nm 5.1mb
NB2 57.59 348 P 21 48.40 -1.0
0.9s 8.00nm 4.7mb
SOD 61.91 358 iP 22 18.40 -0.6
KEV 64.28 358 eP 22 34.00 -0.6
WRA 103.57 109 Pdiffd25 53.30 -7.3X
0.8s 2.10nm 5.0mb
S.D. = 1.0 on 58 of 67 obs.

% MAY 28, 1990 01h 45m 26.13± 0.70s
37.691 N ± 6.4km 14.857 E ± 5.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.27 332 Pc 45 32.00 0.1
eSg 45 36.50
MEU 0.59 174 Pd 45 37.80 -0.4
eSg 45 47.20
ATN 0.67 45 P 45 39.00 -0.5
eSg 45 49.00
GIB 0.72 295 P 45 40.10 -0.3
eSg 45 52.00
SOI 1.02 68 P 45 46.00 0.6
eSg 46 00.50
FAI 1.03 247 P 45 46.00 0.5
S.D. = 0.6 on 6 of 6 obs.

MAY 28, 1990 02h 41m 28.26± 0.29s
55.225 N ± 7.1km 58.676 E ± 4.4km
DEPTH = 33.0km (normal)
4.5mb (18 obs.)
URAL MOUNTAINS REGION (335)

SUF 18.20 307 eP 45 34.00 -5.6X
NUR 18.70 300 iP 45 45.00 -0.8
0.7s 14.70nm 4.3mb
MAIO 18.94 178 eP 45 48.00 -0.9
0.7s 7.94nm 4.0mb
SOD 19.32 322 iP 45 51.20 -1.9
KEV 20.27 328 iP 46 04.00 0.8
WMQ 21.85 109 P 46 19.50 -0.1
BBTK 23.11 239 eP 46 33.00 0.9
KRA 23.84 274 eP 46 39.30 0.4
e 46 44.30
SPC 24.08 272 eP 46 42.70 1.2
HFS 24.16 300 eP 46 40.30 -1.7
0.6s 9.40nm 4.5mb
BZS 25.22 263 eP 46 53.00 0.8
KSP 25.56 278 eP 46 56.00 0.6
SRO 25.88 270 eP 47 12.30 13.9X
ZST 26.38 272 eP 47 03.50 0.6
BRG 26.88 279 e(P) 47 09.00 1.5
e 47 23.00
PRU 26.95 277 eP 47 08.00 -0.2
e 47 28.50
CLL 27.21 281 eP 47 10.00 -0.6
e 47 25.00
KHC 27.91 276 eP 47 17.70 0.7
e 47 38.00
CDF 31.86 279 eP 47 51.90 -0.3
HAU 32.60 279 eP 47 58.40 -0.2
GKN 33.04 135 P 48 02.80 0.1
GUN 33.63 133 P 48 08.20 0.1
PKI 33.74 134 P 48 09.20 0.2
LPG 33.79 275 eP 48 09.30 0.1
0.7s 6.05nm 4.6mb
LPL 33.79 275 eP 48 09.30 0.2
0.7s 6.60nm 4.7mb
EKA 34.19 296 P 48 12.00 -0.2
0.9s 6.60nm 4.6mb
PGF 34.29 269 eP 48 12.20 -1.2
1.1s 22.00nm 5.0mb

28d 02h

SBF 34.37 272 eP 48 13.60 -0.4
0.7s 17.65nm 5.1mb
LOR 34.41 280 eP 48 13.60 -0.7
LBF 34.51 279 eP 48 14.50 -0.6
0.7s 3.30nm 4.4mb
SSF 34.73 280 eP 48 16.40 -0.5
0.7s 4.40nm 4.5mb
SMF 34.78 279 eP 48 18.20 0.8
AVF 34.97 280 eP 48 18.50 -0.5
FRF 35.01 273 eP 48 18.90 -0.5
0.7s 6.60nm 4.7mb
LMR 35.23 272 eP 48 20.90 -0.3
LRG 35.24 273 eP 48 21.10 -0.2
0.7s 6.60nm 4.7mb
BGF 35.39 280 eP 48 22.40 -0.2
0.9s 11.45nm 4.8mb
MAF 35.74 279 eP 48 25.60 0.0
TCF 35.90 280 eP 48 27.90 0.9
FLN 36.01 285 eP 48 27.60 -0.2
LSF 36.31 280 eP 48 29.90 -0.4
CAF 36.79 278 eP 48 35.20 0.8
0.7s 3.30nm 4.3mb
EPF 38.94 277 eP 48 52.00 -0.5
0.7s 3.30nm 4.2mb
XAN 40.46 100 P 49 05.50 0.4
CN2 43.21 76 eP 49 27.40 0.0
NJ2 47.56 93 Pd 49 59.50 -2.8
MBC 48.80 359 eP 50 13.50 2.2
0.8s 4.00nm 4.5mb
INK 56.45 5 eP 51 09.00 0.5
LKO 67.64 254 (P) 52 23.50 -0.5
0.9s 12.00nm 5.0mb
KIC 69.82 251 P 52 37.20 -0.2
WRA 98.31 113 P 55 05.00 1.6
0.4s 0.40nm 4.3mb
SPA 145.04 180 iPKPd 01 02.80 0.5
0.8s 15.83nm
S.D. = 0.9 on 50 of 52 obs.

? MAY 28, 1990 03h 03m 52.24± 0.74s
39.033 N ±26.8km 75.386 E ±36.7km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
SOUTHERN XINJIANG, CHINA (321)

GKN 13.43 142 P 07 02.70 -0.3
DMN 13.98 142 P 07 09.80 -0.6
GUN 14.12 139 P 07 12.80 0.5
PKI 14.16 141 P 07 13.40 0.5
HFS 43.29 320 eP 11 52.50 0.4
0.8s 5.30nm 4.3mb
NB2 44.52 321 P 12 01.80 -0.3
0.6s 0.90nm 3.8mb
MBC 64.62 4 eP 14 28.00 -0.1
0.6s 1.00nm 4.1mb
S.D. = 0.6 on 7 of 7 obs.

MAY 28, 1990 03h 20m 35.28± 0.77s
45.554 N ± 9.0km 3.476 E ± 7.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
MD 1.0 (STR).

LBL 0.36 207 Pg 20 42.28 -0.4
PYM 0.38 301 Pg 20 44.25 1.1
Sg 20 50.49
PLDF 0.43 14 Pg 20 41.28 -2.8X
Sg 20 46.68
AGO 0.55 334 Pg 20 45.43 -1.1
Sg 20 54.32
DUI 8.87 112 P 23 23.00 36.6X
eSn 23 42.00
SGO 9.99 116 Pc 23 04.50 2.7X
eSg 23 10.70
MGR 10.39 117 Pd 23 07.00 -0.3
eSg 23 15.50
BAI 10.71 110 P 23 13.50 1.8
eSg 23 26.50
ORI 10.99 115 P 23 11.80 -3.8X
eSg 23 23.00
BRT 11.05 110 P 23 16.00 -0.4
eSn 23 31.00
TDS 11.15 117 P 23 17.00 -0.8
S.D. = 1.3 on 7 of 11 obs.

MAY 28, 1990 03h 42m 22.46± 0.53s
43.794 N ± 7.8km 102.723 E ± 8.3km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
MONGOLIA (334)

GTA 4.89 207 Pn 43 35.30 -0.4
Pg 43 50.80
Sg 44 53.50
BTO 6.29 118 Pn 43 55.70 0.3
Pg 44 14.70
HHC 7.18 111 Pn 44 07.00 -0.9
Sn 45 26.60
BJI 10.70 106 eP 45 03.00 6.6X
Z 20s 0.96um
Lg 47 55.00
GUN 20.85 226 P 47 03.20 -1.1
PKI 21.37 226 P 47 10.00 0.5
GKN 21.44 229 P 47 09.00 -1.0
DMN 21.50 227 P 47 10.90 0.1
CHG 25.11 188 eP 47 48.00 2.3
SOD 45.31 328 eP 50 40.00 1.6
NUR 47.67 319 eP 50 58.00 0.8
HFS 52.90 321 eP 51 35.80 -1.3
0.7s 6.10nm 4.7mb
NB2 53.62 323 P 51 41.80 -0.6
0.9s 3.70nm 4.4mb
MBC 57.25 11 eP 52 08.00 -0.4
1.0s 2.00nm 4.1mb
INK 60.62 21 eP 52 32.00 0.2
WRA 69.74 148 P 53 35.00 3.9X
1.1s 4.20nm 4.4mb
S.D. = 1.1 on 14 of 16 obs.

---

* MAY 28, 1990 04h 43m 48.30± 0.54s
74.043 N ± 8.0km 6.926 E ±14.3km
DEPTH = 10.0km (geophysicist)
4.7mb (11 obs.)
GREENLAND SEA (640)

KBS 5.04 11 eP 44 59.00 -6.6X
JNW 5.51 244 eP 45 15.20 2.9X
TRO 5.79 134 iP 45 09.35 -6.9X
eSg 46 06.80
KTK1 7.21 126 iP 45 28.68 -7.5X
eSg 46 39.22
KEV 7.56 115 eP 45 31.00 -10.0X
0.5s 19.60nm 5.6mb
i 45 34.10
SOD 9.29 126 iP 45 55.50 -9.6X
i 46 00.00
NB2 13.16 171 P 46 53.80 -3.8X
0.9s 2.50nm 4.3mb
SUF 13.29 139 iP 46 52.00 -7.2X
0.7s 15.60nm 5.2mb
NRA0 13.48 170 Pn 47 00.80 -1.0X
Sn 49 36.40
NUR 15.10 145 iP 47 16.00 -6.9X
i 47 27.80
EKA 19.22 198 Pd 48 21.20 6.6X
1.4s 25.80nm 4.3mb
CLL 22.96 170 e(P) 49 00.00 6.6X
ENN 23.37 182 iPc 48 58.90 1.6
1.0s 20.00nm 4.6mb
BRG 23.45 169 eP 49 01.20 3.1X
MEM 23.52 181 P 49 00.00 1.2
MOX 23.57 173 eP 49 08.00 8.7X
2.0s 69.00nm 4.9mb
KSP 23.62 165 eP 49 03.00 3.2X
PRU 24.36 168 eP 49 08.50 1.6
e 50 08.30
KRA 24.71 160 eP 49 09.70 -0.6
e 49 13.90
KHC 25.17 170 eP 49 12.50 -2.3
CDF 25.72 179 eP 49 20.10 0.1
1.2s 11.90nm 4.5mb
HAU 26.13 181 eP 49 24.20 0.5
ZST 26.32 165 eP 49 24.80 -0.6
MBC 26.64 335 eP 49 27.50 -0.6
1.1s 13.00nm 4.5mb
SRO 26.79 163 eP 49 20.50 -9.2X
LPL 28.62 180 eP 49 47.00 0.4
LPG 28.64 180 eP 49 46.40 -0.5
1.3s 18.05nm 4.7mb
INK 35.63 336 eP 50 48.00 0.6
SES 49.06 312 eP 52 37.00 0.1
GKN 59.94 93 P 53 57.00 0.2
GUN 60.37 92 P 54 00.30 0.3
DMN 60.44 93 P 54 00.80 0.5
LKO 64.87 194 (P) 54 28.92 -0.6
1.2s 21.00nm 5.2mb
BCAO 69.88 168 iPd 54 59.00 -2.0
0.8s 9.00nm 5.0mb
S.D. = 1.1 on 18 of 34 obs.

? MAY 28, 1990 05h 08m 46.79± 4.18s
1.007 S ±16.0km 77.576 W ±31.2km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

VC1 0.90 294 iPd 09 04.30 -0.1
iS 09 16.90
TUNG 0.96 245 P 09 05.20 -0.1
S 09 18.00
CAYA 1.15 339 P 09 08.00 -0.7
iS 09 24.20
GGP 1.31 309 eP 09 11.70 0.2
COTA 1.54 330 P 09 15.50 0.0
iS 09 36.50
S.D. = 0.8 on 5 of 5 obs.

? MAY 28, 1990 05h 39m 34.80± 9.45s
19.027 N ±51.9km 64.877 W ±69.7km
DEPTH = 10.0km (geophysicist)
VIRGIN ISLANDS (91)

LPR 1.18 233 iP 39 56.90 0.0
CPD 1.39 225 iP 40 00.30 0.0
SJG 1.51 233 iP 40 02.00 0.0
PORP 1.93 240 iP 40 07.70 -0.3
MGP 2.33 245 iP 40 14.00 0.2
S.D. = 0.3 on 5 of 5 obs.

MAY 28, 1990 07h 15m 51.02± 0.46s
37.638 N ± 7.6km 73.460 E ± 7.0km
DEPTH = 33.0km (normal)
4.6mb (9 obs.) 4.3Msz (1 obs.)
TAJIK SSR (715)

QUE 9.19 218 eP 18 04.30 -0.2
NDI 9.47 160 eP 18 07.50 -0.6
0.5s 24.65nm 5.7mb X
eS 19 48.00
MAIO 11.25 267 iPc 18 30.60 -2.1
0.8s 12.81nm 5.2mb
eS 20 35.00
WMQ 12.43 56 P 18 47.50 -1.0
GKN 13.43 132 P 18 56.20 -5.6X
DMN 14.00 132 P 19 03.70 -5.7X
PKI 14.21 132 P 19 06.00 -6.2X
GUN 14.24 129 P 19 06.30 -6.4X
HYB 20.64 166 iPc 20 32.00 1.6
1.0s 25.00nm 4.5mb
eS 24 34.00
GTA 20.67 77 Pc 20 30.20 -0.5
GBA 24.20 171 P 21 07.00 1.5
0.7s 7.30nm 4.3mb
LZH 24.31 84 Pd 21 08.00 1.2
Z 16s 0.40um 4.0MszX
E 10s 0.20um
pP 21 11.00 11kmX
sP 21 15.40
CD2 25.85 96 eP 21 21.70 0.5
XAN 28.87 86 eP 21 47.50 -1.2
CHG 29.10 123 eP 22 05.90 15.0X
CHTO 29.10 123 eP 22 05.00 14.1X
1.0s 6.25nm
GYA 30.12 102 P 22 00.60 0.5
TIY 30.70 78 eP 22 10.20 5.2X
Z 18s 0.60um 4.3Msz
NNT 34.24 130 eP 22 34.00 -2.0
NUR 38.08 323 eP 23 10.00 2.0
0.7s 9.30nm 4.7mb
SNY 38.33 68 eP 23 10.20 -0.1
E 14s 0.40um
SOD 39.57 334 eP 23 22.00 1.7
KEV 40.50 337 eP 23 33.30 5.4X
HFS 43.40 321 eP 23 51.80 0.0
0.5s 8.20nm 4.7mb
BRG 43.48 307 e(P) 24 00.20 7.6X
KHC 43.93 305 eP 24 04.40 8.1X
NB2 44.67 322 P 24 01.50 -0.7
0.6s 4.30nm 4.5mb
EKA 52.84 316 P 25 05.00 -0.3
1.0s 3.80nm 4.3mb
MBC 66.10 3 iPd 26 36.60 0.2

0.5s 15.00nm 5.3mb
INK 72.46 10 eP 27 15.00 -0.5
pP 27 27.00 40kmX
WRA 80.95 124 P 28 10.00 6.2X
0.9s 3.30nm 4.3mb
S.D. = 1.2 on 20 of 31 obs.

---

* MAY 28, 1990 08h 23m 35.51± 2.20s
27.388 S ± 8.4km 114.102 E ±26.5km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

MRWA 2.47 138 iPc 24 18.50 2.0
eS 24 48.00
BAL 3.94 145 eP 24 37.70 0.4
iS 25 22.30
MEKA 4.03 80 eP 24 42.00 3.4X
eS 25 30.00
MUN 4.93 159 eP 24 50.10 -1.3
eS 25 43.00
NANU 4.98 15 eP 24 52.00 0.0
eS 25 55.00
COOL 7.08 121 eP 25 20.80 -0.9
eS 26 37.00
MBL 8.11 41 eP 25 36.50 0.4
0.2s 1.00nm 4.7mb X
eS 27 00.00
WARB 11.27 87 eP 26 19.00 -0.7
eS 28 49.00
FORR 12.71 109 eP 26 36.00 -3.1X
eS 28 52.00
S.D. = 1.3 on 7 of 9 obs.

---

* MAY 28, 1990 09h 55m 39.93± 1.34s
30.212 S ± 8.2km 72.487 W ±14.6km
DEPTH = 36.9 ± 19.6 km
4.7mb (1 obs.)
OFF COAST OF CENTRAL CHILE (134)

IHA 2.90 166 eP 56 31.50 6.8X
i(S) 57 13.30
JACH 2.95 147 iPd 56 26.80 1.2
iS 57 01.00
RTBS 2.98 120 e(P) 56 08.00 -17.9X
PEL 3.30 153 iPc 56 30.50 0.0
iS 57 12.80
LCCH 3.35 167 eP 56 31.00 -0.1
iS 57 11.50
RTCB 3.42 113 ePd 56 32.50 0.3
FCH 3.63 150 eP 56 35.00 -0.4
i 57 21.90
i 57 31.50
RTLL 3.63 109 ePc 56 34.70 -0.6
TACH 3.68 159 eP 56 37.00 1.2
i 57 17.00
i 57 26.00
PCH 3.79 154 eP 56 37.50 0.0
i 57 26.00
LNV 3.84 167 eP 56 36.50 -1.6
iS 57 22.00
CFA 3.91 112 iPc 56 38.70 -0.4
LPB 14.20 17 P 59 00.00 -1.0
ZOBO 14.44 17 P 59 05.20 0.9
LKO 75.37 70 (P) 07 22.28 0.4
0.7s 5.50nm 4.7mb
S.D. = 0.9 on 13 of 15 obs.

---

* MAY 28, 1990 11h 23m 36.79± 1.16s
14.836 N ± 9.1km 98.964 E ±18.1km
DEPTH = 33.0km (normol)
4.1mb (1 obs.)
SOUTH BURMA (298)

KBR 0.98 146 iPnd 23 16.00 -38.3X
ePg 23 17.00
eSg 23 23.00
NST 1.40 53 eP 23 59.00 -1.2
NNT 2.35 161 ePn 24 14.00 0.0
ePg 24 21.60
eSg 24 45.00
BDT 2.40 1 eP 24 15.90 1.4
LOE 3.69 46 ePn 24 34.20 1.3
ePg 24 39.20
eSg 25 22.80
CHG 3.96 360 iPn 24 36.90 0.2
iPg 24 50.80
iSg 25 40.00
CHTO 3.96 360 ePn 24 35.00 -1.7
iPg 24 50.00
iSg 25 40.00
SNG 7.78 168 eP 26 00.20 29.6X
WRA 49.04 134 P 32 28.00 5.1X
0.7s 1.30nm 4.1mb
ZOBO 167.48 262 PKP 43 42.00 0.0
i 51 56.00
S.D. = 1.4 on 7 of 10 obs.

MAY 28, 1990 11h 28m 47.69± 0.09s
20.874 S ± 2.6km 177.987 W ± 2.5km
DEPTH = 485.8km (geophysicist)
5.9mb (51 obs.)
FIJI ISLANDS REGION (181)
Depth from broodbond
displacement seismograms.
RADIATED ENERGY
No. of sto: 7 Focal mech. C
Energy 2.6±0.6*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 466 No. of sta: 10
Moment Tensor; Scale 10**17 Nm
Mrr=-6.42 Mtt= 1.40
Mff= 5.02 Mrt=-0.26
Mrf=-4.02 Mtf= 3.15
Principal axes:
T Val= 7.79 Plg=15 Azm=117
N -0.04 12 24
P -7.75 71 255
Best Double Couple:Mo=7.8*10**17
NP1:Strike=224 Dip=32 Slip= -67
NP2: 17 61 -104
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 40C
Centroid Location:
Origin Time 11:28:54.7 0.5
Lat 20.68S 0.05 Lon 178.01W 0.03
Dep 493.8 1.7 Half-duration 3.5
Moment Tensor; Scale 10**17 Nm
Mrr=-7.01 0.19 Mtt= 1.24 0.33
Mff= 5.77 0.34 Mrt=-1.60 0.30
Mrf=-5.36 0.30 Mtf=-2.29 0.26
Principal Axes:
T Val= 8.11 Plg=18 Azm= 76
N 1.34 16 171
P -9.45 66 301
Best Double Couple:Mo=8.8*10**17
NP1:Strike=142 Dip=31 Slip=-123
NP2: 359 64 -72

KRO 4.32 325 eP 30 09.40 0.7
SVA 4.33 309 ePc 30 10.00 1.3
OVA 4.40 316 eP 30 11.00 1.7
VUN 4.40 310 ePc 30 10.00 0.7
NDE 4.97 329 eP 30 14.90 0.3
MBU 4.98 321 ePc 30 15.90 1.3
SGE 5.06 310 ePc 30 16.30 0.9
YSA 5.91 314 iPc 30 24.30 0.8
PVC 13.30 281 iPc 31 42.50 1.2
DZM 14.54 262 iPc 31 55.10 0.9
iS 34 30.40
ScP 39 22.90
HBZ 16.98 190 eP 32 19.80 1.5
RAR 17.01 94 P 32 20.00 1.2
S 36 04.00
PUZ 17.45 190 eP 32 23.70 0.7
WLZ 17.80 197 P 32 29.60 3.2X
TAZ 17.94 194 P 32 30.50 2.7
NOZ 18.01 190 P 32 30.40 1.9
e 34 41.90
CNZ 19.09 196 P 32 40.20 1.1
TTH 19.13 192 eP 32 40.80 1.5
PGZ 20.28 193 P 32 50.30 0.0
KIW 20.82 195 P 32 54.90 -0.5
MTW 20.96 194 P 32 55.90 -0.8
CAW 21.02 195 P 32 55.80 -1.4
BLW 21.17 194 P 32 58.50 -0.1
WDW 21.19 195 P 32 58.20 -0.5
MRW 21.22 195 P 32 58.20 -0.8
eS 36 17.20
WEL 21.26 195 P 32 59.50 0.1
MOW 21.27 194 eP 32 59.50 -0.1
TCW 21.31 196 P 32 59.20 -0.7
THZ 22.20 198 P 33 08.30 0.1
eS 36 32.40
KHZ 22.63 196 P 33 11.10 -0.9
LTZ 23.33 198 P 33 16.40 -1.9
eS 36 50.80
MQZ 24.07 197 eP 33 23.70 -1.3
MMCZ 26.31 201 P 33 43.20 -1.9
MHZ 26.32 201 P 33 43.20 -1.9
MSZ 26.45 203 eP 33 45.80 -0.3
TLC 26.50 201 eP 33 47.40 0.6
TBI 26.53 101 iP 33 48.20 1.2
1.0s 130.00nm 5.4mb
AFR 26.83 88 iP 33 49.20 -0.6
PAE 26.99 88 iP 33 50.90 -0.3
ipP 35 08.00
PPT 27.01 88 iP 33 51.20 -0.2
1.1s 740.00nm 6.1mb
ipP 35 08.40
iScP 39 53.00
PPN 27.15 88 iP 33 52.40 -0.2
ipP 35 10.00
iScP 39 53.40
TVO 27.27 88 iP 33 53.50 -0.3
1.1s 275.00nm 5.7mb
ipP 35 11.30
BRS 27.42 251 iPc 33 55.50 0.5
1.0s 40.00nm 4.9mb
e 35 17.00
iS 38 02.50
e 39 55.00
COO 28.73 244 eP 34 07.60 1.2
PMO 29.19 83 P 34 09.80 -0.6
1.1s 515.00nm 5.9mb
VAH 29.37 84 iP 34 11.00 -1.0
1.1s 445.00nm 5.9mb
TPT 29.45 84 iP 34 12.10 -0.6
1.1s 770.00nm 6.1mb
RUV 29.61 84 iP 34 13.30 -0.8
1.1s 960.00nm 6.2mb
RIV 30.17 238 iPc 34 20.40 1.7
eS 38 45.00
RMQ 30.91 253 iPc 34 26.20 1.0
1.0s 480.00nm 6.0mb
e 34 41.00 60kmX
e 35 53.00
e 40 06.00
CNB 32.03 236 iPc 34 35.80 1.1
ePcP 36 08.00
eS 39 15.30
eScP 40 10.80
CAN 32.31 236 eP 34 37.80 0.7
e 36 04.00 488kmX
e 39 18.90
BWA 32.51 238 eP 34 38.20 -0.6
e 36 06.30 503kmX
e 39 17.20
RAB 33.41 296 e(P) 34 43.00 -3.4X
CTA 33.47 265 iPd- 34 47.00 0.1
e 35 10.00 101kmX
iPcP 37 14.50
iS 39 27.00
iScP 40 13.30
i 42 24.00
CTAO 33.47 265 iPd 34 47.39 0.5
CMS 34.01 244 iPc 34 52.20 0.9
1.1s 443.00nm 5.9mb
QLP 34.96 253 iPd 34 59.70 0.4
PMG 35.44 283 iPc 35 03.10 -0.3
1.0s 880.00nm 6.2mb
TOO 35.69 234 iPd 35 06.20 0.9
0.6s 207.00nm 5.8mb
LAT 36.72 288 iPc 35 14.70 0.7
BFD 37.84 236 iPd 35 24.20 1.3
QIS 39.58 263 iPc 35 37.00 -0.4
1.3s 170.00nm 5.4mb
iPcP 37 33.30
eScP 40 37.10
eS 41 05.00
RKT 39.84 101 iP 35 40.80 1.4
1.6s 610.00nm 5.9mb
ADE 40.45 240 eP 35 44.50 0.2
1.0s 350.00nm 5.8mb
WB5 44.55 263 iPd 36 15.90 -1.1
i 37 50.00 503kmX
iS 42 14.80
WRA 44.56 262 Pc 36 16.30 -0.8
0.3s 18.70nm 5.1mb
FORR 49.12 247 iPd 36 41.10 -10.7X
MTN 49.18 271 iPc 36 51.20 -1.2

28d 11h

```
                  e       41 16.00
GUA     49.98 310 eP      36 57.80  -0.5
        1.2s  1662.50nm          6.3mb
GUMO    50.05 310 iPd     36 57.31  -1.5
        1.2s  1083.33nm          6.1mb
KNA     50.63 266 eP      37 02.00  -1.0
        0.6s  2485.00nm          6.8mb
DRV     53.01 199 eP      37 20.60   0.9
AAI     55.00 280 eP      37 33.50  -1.1
        0.5s    12.00nm          4.5mb X
COOL    55.09 246 iPc     37 34.00  -1.1
        0.5s    73.00nm          5.3mb
SBA     57.50 184 P       37 54.60   3.6X
MBL     57.69 258 iPd     37 51.70  -1.4
        0.5s   156.00nm          5.6mb
MEKA    57.88 251 iPc     37 43.10 -11.3X
        0.3s    70.00nm
KLB     57.91 245 iPd     37 53.60  -0.9
RKG     58.29 242 eP      37 56.50  -0.6
        0.4s   159.00nm          5.7mb
BAL     58.92 246 eP      38 00.30  -1.1
        0.6s   299.00nm          5.9mb
MUN     59.18 245 iPc     38 02.50  -0.6
        0.8s   549.00nm          6.0mb
MRWA    59.72 248 iPc     38 06.10  -0.6
        0.4s    26.00nm          5.0mb
MNI     60.14 284 ePd     38 09.00  -0.6
NANU    61.31 255 iPd     38 16.60  -0.7
DAV     61.99 290 ePc+    38 20.00  -1.8
TSM     67.43 284 ePd     38 57.80   1.7
        1.2s   684.70nm          6.2mb
TRT     68.06 270 iPc     38 58.10  -1.9
        0.7s   332.30nm          6.1mb
SPA     69.25 180 iPd     39 07.20   0.6
        1.0s   189.50nm          5.7mb
     Z  20s      1.58um          5.3Msz
                  i       40 50.50 485kmX
KKM     69.87 285 ePd     39 11.00   0.0
        1.0s   516.60nm          6.1mb
MAJO    70.52 324 iPd     39 12.95  -1.3
MAT     70.52 324 iPd     39 12.30  -2.0
        1.1s   291.14nm          5.8mb
                  eS      47 47.00
BAG     70.75 297 ePc+    39 14.00  -2.2
        1.1s   455.70nm          5.9mb
SHK     72.35 319 eP      39 23.70  -1.2
ADK     72.45   1 eP      39 23.60  -1.5
        0.8s   308.20nm          5.9mb
SMY     73.61 355 eP      39 30.80  -0.9
QZH     76.63 303 Pd      39 49.50   0.4
        1.0s   800.00nm          6.2mb
SDN     77.36  10 eP      39 51.00  -1.4
BLP     77.66  45 P       39 54.50   0.0
SYP     77.92  46 eP      39 57.00   0.9
SSE     77.94 310 iPd     39 56.40   0.4
        4.0s   600.00nm          5.4mb X
                  eS      49 08.00
PRS     78.08  44 ePc     39 57.40   0.7
                  epP     41 45.80 497kmX
GCC     78.10  43 ePc     39 57.30   0.5
PCC     78.15  42 e(P)    39 56.30  -0.7
BCH     78.24  45 P       39 59.00   1.2
SAO     78.29  43 e(P)    39 57.90   0.0
                  epP     41 46.40 497kmX
PRI     78.42  44 ePc     39 59.60   0.9
                  epP     41 47.90 496kmX
BRK     78.45  42 ePc     39 59.20   0.6
                  epP     41 47.40 495kmX
BKS     78.47  42 iPd     40 00.30   1.5
                  ipP     41 43.00 465kmX
                  iS      49 18.00
                  e       53 18.00
LLA     78.52  44 ePc     40 00.10   1.0
ARN     78.59  43 P       40 00.00   0.5
ABL     78.62  46 P       40 00.50   0.6
HKC     78.87 299 iP      40 02.80   1.6
PAS     78.93  47 eP      40 02.00   0.7
MWC     79.05  47 eP      40 03.00   0.8
                  e       41 52.00 499kmX
BAR     79.15  49 eP      40 04.00   1.5
                  e       41 56.00 515kmX
FHC     79.24  39 e(P)    40 03.70   0.9
MCO     79.29 299 iP      40 04.80   1.4
RVR     79.39  47 eP      40 04.00   0.3
                  e       41 53.00 498kmX
PLM     79.39  48 eP      40 04.00   0.0
                  e       41 53.00 498kmX
```

```
SBB     79.47  47 eP      40 04.00  -0.2
                  e       41 51.00 487kmX
PEC     79.48  48 P       40 04.40   0.2
FRI     79.54  44 eP      40 04.50   0.1
                  epP     41 53.80 499kmX
ISA     79.59  46 eP      40 05.00   0.2
                  e       41 52.00 486kmX
CMB     79.73  43 ePc     40 03.60  -1.8
                  epPc    41 50.87 488kmX
                  esP     42 39.21
GZH     79.91 299 Pd      40 07.40   0.8
ORV     79.95  41 eP      40 06.90   0.4
                  epP     41 55.30 494kmX
WDC     79.95  40 ePc     40 07.10   0.6
                  epP     41 55.50 494kmX
                  eS      49 33.70
NJ2     80.13 310 iPd     40 08.50   1.0
        2.0s  1100.00nm          6.0mb
                  sP      42 44.00
KGM     80.16 276 iPc     40 09.20   1.1
        1.1s  1791.70nm          6.5mb
CLC     80.26  46 eP      40 09.00   0.7
                  e       41 56.00 485kmX
TPC     80.37  48 eP      40 09.00   0.1
                  e       41 59.00 502kmX
MIN     80.37  40 ePc     40 09.10   0.2
                  epP     41 57.70 494kmX
GSC     80.51  47 eP      40 10.00   0.4
                  e       41 56.00 479kmX
AIA     80.62 157 eP      40 11.80   2.2
GLA     80.66  49 eP      40 12.00   1.6
                  e       42 01.00 496kmX
MDJ     80.83 325 Pd      40 11.50   0.6
        4.0s  2100.00nm          6.0mb X
                  pP      42 02.00 504kmX
                  sP      42 50.00
QIZ     81.02 294 Pd      40 13.00   0.6
KDC     81.16  14 ePd     40 12.00  -0.3
MAW     81.22 200 iPd     40 14.30   1.7
        1.1s    63.00nm          5.1mb
KVN     81.77  43 P       40 16.10  -0.1
                  pP      42 06.00 499kmX
TNP     81.79  44 P       40 16.60   0.3
                  pP      42 06.40 498kmX
PPI     82.00 273 ePc     40 17.50  -0.1
        0.7s    96.40nm          5.5mb
DL2     82.01 317 Pd      40 16.00  -1.1
        5.0s  1500.00nm          5.8mb X
KLM     82.11 276 eP      40 19.00   0.9
SNY     82.50 320 iPd     40 19.00  -0.4
        5.0s  1500.00nm          5.8mb X
                  sP      42 56.00
                  PP      43 36.00
                  SKS     49 51.50
                  S       49 57.80
                  SS      55 34.00
CN2     82.60 322 iPd     40 19.50  -0.4
        4.0s  2300.00nm          6.1mb X
                  pP      42 08.00 490kmX
                  sP      42 58.00
                  eS      50 00.00
WHN     82.67 306 eP      40 21.00   0.4
        1.0s   200.00nm          5.6mb
IPM     83.23 277 ePd     40 25.10   1.4
        1.0s   689.10nm          6.2mb
BMW     83.29  35 P       40 24.00   0.6
TIA     83.53 313 Pd      40 24.90   0.1
        4.0s   120.00nm          4.9mb X
                  S       50 00.00
SVW     83.66  11 ePd     40 24.20  -0.8
GMW     84.20  34 P       40 28.50   0.6
PSI     84.50 275 ePc     40 30.00   0.0
        1.0s   408.80nm          6.0mb
SNG     84.56 280 eP      40 31.70   1.4
        1.0s   816.00nm          6.3mb
                  eS      43 16.00
PGC     84.57  33 eP      40 30.00   0.4
TTA     85.31  10 ePd     40 33.00   0.0
                  e       42 23.00 494kmX
PMR     85.38  13 eP      40 32.20  -1.0
        1.1s   115.60nm          5.5mb
                  e       42 22.00 493kmX
BJI     86.16 315 iPd     40 36.85  -0.6
        4.0s  1210.00nm          6.0mb X
                  pP      42 30.00 510kmX
                  eSP     43 16.00
                  eSKS    50 15.00
```

```
                  eS      50 36.00
TOA     86.49  14 ePd     40 38.70   0.0
                  e       42 28.90 493kmX
GYA     86.84 300 iPd     40 42.00   0.7
        3.0s  1300.00nm          6.1mb
                  sP      43 22.00
PNT     86.96  34 eP      40 41.00  -0.1
        0.9s    33.00nm          5.1mb
LOE     87.40 290 eP      40 44.00   0.1
TIY     87.53 312 iPd     40 44.50   0.3
        4.0s  1600.00nm          6.2mb X
                  PP      44 22.50
ALQ     87.63  51 eP      40 44.00  -0.9
        1.0s    11.50nm          4.6mb X
                  epP     42 33.00 485kmX
ANMO    87.63  51 eP      40 44.78  -0.1
                  ipPc    42 31.40 472kmX
NEW     87.67  36 P       40 45.30   0.7
                  pP      43 34.40
XAN     88.37 307 P       40 48.60   0.4
        4.0s  1500.00nm          6.2mb X
                  pP      42 42.00 508kmX
                  sP      43 30.00
                  SKS     50 28.00
FBA     88.60  12 eP      40 47.00  -1.5
                  e       42 38.00 495kmX
IMA     88.61  10 ePd     40 48.20  -0.5
        1.5s   166.70nm          5.6mb
                  e       42 39.80 498kmX
LRM     88.99  40 eP      40 51.40   0.4
HIA     89.00 325 iPd     40 50.24  -0.5
                  epPc    42 40.49 490kmX
                  isPc    43 28.50
BW06    89.23  43 P       40 51.60  -0.6
        1.1s    10.04nm          4.6mb X
KMI     89.53 297 iPd     40 55.11   1.2
        2.0s   930.00nm          6.3mb
HHC     89.62 314 Pd      40 54.50   0.6
        4.0s   800.00nm          6.0mb X
                  PP      44 35.00
CHTO    90.38 290 iPd     40 58.67   1.0
                  isPc    43 36.59
BTO     90.54 314 iPd     40 58.00  -0.1
                  PP      44 43.50
GOL     90.56  47 P       40 59.00   0.6
        1.3s    20.83nm          4.9mb
CD2     91.00 303 eP      41 01.50   1.1
        4.0s   600.00nm          5.9mb X
                  sP      43 40.00
SES     92.16  36 eP      41 05.00  -0.3
        1.0s    44.00nm          5.4mb
EDM     92.42  33 eP      41 06.00  -0.3
LZH     93.00 307 iPDIFd41 10.52     0.9
        3.0s   820.00nm          6.2mb
                  isPc    43 49.11
                  SKS     50 55.00
RSSD    93.41  44 P       41 11.00  -0.4
                  pP      43 00.60 484kmX
MEO     93.42  54 eP      41 11.50   0.1
INK     94.63  15 eP      41 15.00  -1.1
TUL     95.95  54 e(P)    41 26.00   3.2X
        1.1s     4.20nm          4.6mb X
                  (Lg)    43 09.50
GTA     97.22 309 Pd      41 29.40   0.8
        1.4s   100.00nm          5.9mb
MBC    103.14  12 ePdiff41 54.00    -0.2
        1.5s     8.00nm          5.2mb
GUN    104.68 295 Pdiff   42 03.20   0.6
PKI    104.98 294 Pdiff   42 04.20   0.3
DMN    105.25 294 Pdiff   42 05.80   0.8
GKN    105.76 294 Pdiff   42 07.20   0.1
WMQ    107.18 311 Pdiff   42 12.40  -0.5
HYB    108.25 282 ePKP    46 40.00  17.9X
                  e       47 09.00
NDI    112.27 293 iPKPc   46 28.00  -1.3
KSH    115.10 305 ePKP    46 33.50  -1.2
FRB    117.11  28 ePKP    46 36.00  -1.5
SCH    118.99  38 ePKP    46 40.00  -1.4
QUE    121.35 293 ePKP    46 46.90   0.0
TUH    123.70 197 iPKPc   46 49.00  -2.1
        1.0s    40.00nm
MAIO   127.94 300 ePKP    46 59.00  -0.3
                  e       48 58.00
KEV    128.84 349 ePKP    46 59.00  -0.8
ITR    130.54 122 ePKP    47 04.20  -0.6
                  e       49 03.40
                  e       49 42.40
```

28d 11h

			e	50	25.20		PRU	149.29	344	PKPd	47	36.00	-0.9	CDF	152.20	352	PKP	47	41.03	-0.3
SOD	130.97	348	iPKP	47	02.50	-1.5				e	47	41.60		LDF	152.29	3	ePKP	47	40.70	-0.6
BUL	131.64	214	iPKPc	46	54.10	-12.8X	MOX	149.34	348	ePKP	47	37.00	0.1		1.2s	29.75nm				
			i	49	35.00					pPKP	49	36.00		MMB	152.37	323	ePKPc	47	41.00	-0.7
SUF	135.04	345	ePKP	46	59.00	-12.8X	GBZT	149.40	317	ePKP	47	42.00	4.7X	ECH	152.41	353	PKP	47	41.22	-0.3
NUR	137.30	344	iPKP	47	07.00	-9.2X	PSZ	149.40	336	ePKP	47	37.00	-0.2	GRR	152.45	4	ePKP	47	41.10	-0.5
	0.8s	29.30nm					ISK	149.50	317	ePKP	47	42.00	4.6X	VITF	152.53	354	PKP	47	41.45	-0.2
			i	47	15.00		YLV	149.56	316	iPKP	47	42.20	4.5X	PTJ	152.54	339	ePKP	47	41.90	0.0
TAB	138.21	304	ePKP	47	09.00	-9.8X	DEV	149.74	330	ePKPd	47	35.00	-2.7X	ZAG	152.61	338	iPKPd	47	41.50	-0.3
			e	50	05.00		ALT	149.84	313	ePKP	47	43.30	5.1X	FEL	152.63	351	PKP	47	41.97	0.0
SLY	139.31	301	ePKPc	47	11.00	-9.6X	CTT	149.85	318	ePKP	47	43.00	5.0X	HAU	152.71	354	ePKP	47	41.40	-0.6
			ePP	50	11.00		DMK	149.87	320	iPKP	47	42.90	4.9X		1.5s	41.80nm				
			iPKS	50	55.50		PPCY	149.91	304	ePKP	47	43.00	4.8X	MOF	152.77	352	PKP	47	42.08	-0.1
NB2	139.35	353	PKP	47	10.40	-9.6X	ENN	150.01	355	ePKP	47	38.00	0.1	LPF	152.79	4	ePKP	47	41.50	-0.5
	1.0s	17.40nm						1.0s	180.00nm						1.1s	24.40nm				
HFS	139.91	351	ePKP	47	11.70	-9.2X				e	47	43.50		BSF	152.83	353	PKP	47	42.06	-0.2
	0.4s	12.90nm								e	47	51.00		LJU	152.88	341	ePKP	47	41.80	-0.5
MJMA	140.10	286	iPKPd	47	17.40	-5.0X				epP	49	40.00		FVI	152.88	344	PKPc	47	41.50	-0.7
BHD	140.55	297	iPKPd	47	17.00	-5.9X	SRO	150.07	338	iPKP	47	38.90	0.8	ZLA	152.96	350	ePKPc	47	42.40	0.0
			iPP	50	14.50					i	47	44.30		SAX	153.02	349	ePKPc	47	42.90	0.1
			ePKS	51	01.50					i	49	45.80		OGA	153.05	346	iPKPc	47	43.00	0.3
MSL	141.04	302	iPKPd	47	17.50	-6.2X	UCC	150.08	357	PKP	47	38.00	0.0	VOY	153.08	342	iPKP	47	42.20	-0.5
			ePP	50	14.50					i	47	43.00					e	47	49.90	
			e	50	27.50					e	49	41.00					e	48	03.50	
			ePKS	51	02.00		BUD	150.09	337	e(PKP)	47	37.00	-1.1	BBS	153.10	352	PKP	47	42.35	-0.2
QASM	141.68	286	ePKP	47	20.70	-4.5X	ZST	150.16	340	ePKP	47	38.70	0.5	VBY	153.13	339	iPKPc	47	43.60	1.0
AFIF	141.92	283	ePKP	47	22.00	-3.7X				i	47	44.40		CEY	153.18	341	ePKP	47	42.00	-0.7
BSD	144.46	347	iPKPd	47	28.40	-0.5				i	47	52.60					i	48	04.30	
	0.8s	448.00nm								e	49	39.90		VAY	153.19	324	iPKP	47	41.50	-1.3
KVT	144.86	313	iPKP	47	30.00	-0.2	MEM	150.16	355	iPKPc	47	38.33	0.2	LOMF	153.30	353	PKP	47	42.71	-0.2
EKA	145.37	5	PKPd	47	30.20	-0.3				i	47	43.74		SKO	153.34	326	iPKPc	47	42.60	-0.4
	0.9s	66.10nm					JMB	150.18	322	iPKP	47	44.00	5.6X	OSS	153.41	347	ePKPc	47	43.30	0.1
DCN	146.81	10	ePKP	47	33.00	0.2	BCK	150.23	310	iPKP	47	43.60	4.8X	TRI	153.41	341	ePKP	47	42.00	-0.9
	0.8s	221.00nm					TNS	150.27	352	iPKPd	47	44.00	5.6X				i	47	50.20	
DLE	146.98	9	ePKP	47	35.00	1.9	GRF	150.33	348	ePKPd	47	38.20	-0.3				i	48	05.00	
PPE	147.19	326	ePKPc	47	37.00	3.3X		Z 22s		0.20um			4.9Msz				e	50	48.00	
BRN	147.34	347	ePKP	47	33.00	-0.7				id	47	44.20					e	54	21.00	
			ed	47	36.50					ed	47	52.50		LLS	153.45	349	ePKPc	47	43.20	-0.1
VAL	147.56	14	ePKP	47	35.00	0.9	KHC	150.33	345	iPKPd	47	38.50	0.0	LOR	153.63	357	ePKP	47	42.90	-0.3
CFR	147.58	324	ePKP	47	34.00	-0.3				i	47	44.80			1.3s	28.90nm				
KRA	147.60	338	ePKP	47	33.90	-0.3				i	47	53.50		CTI	153.68	345	PKP	47	42.80	-0.7
	0.9s	161.00nm					SNF	150.37	357	PKP	47	38.60	0.2	VDL	153.74	348	ePKPc	47	43.60	-0.1
			i	47	37.30					id	47	44.20		SSF	153.85	358	ePKP	47	43.10	-0.4
			i	47	41.80					e	47	52.60			1.3s	36.10nm				
			e	49	34.00		PVL	150.40	324	iPKPc	47	42.00	3.3X	LBF	153.90	357	ePKP	47	43.30	-0.4
ETA	147.60	9	ePKP	47	36.50	2.4X	WET	150.48	345	iPKPc	47	38.90	0.2	AVF	154.12	358	ePKP	47	43.20	-0.7
BBTK	147.65	313	ePKP	47	34.00	-0.8				i	47	45.10			1.6s	37.30nm				
HRI	147.67	300	e(PKP)	47	34.00	-1.0				i	47	54.20		TMA	154.21	349	ePKPc	47	44.20	-0.1
YRH	147.69	8	ePKP	47	36.00	1.7	BZS	150.53	331	ePKPc	47	38.50	-0.3	SMF	154.25	357	ePKP	47	43.40	-0.7
VRI	147.88	327	ePKPd	47	38.00	3.1X	KHL	150.59	312	ePKP	47	38.00	-1.3		1.2s	19.35nm				
WIT	147.92	355	e(PKP)	47	39.00	4.4X	EDC	150.65	317	iPKP	47	44.50	5.3X	MFF	154.28	3	ePKP	47	43.60	-0.5
			epP	49	39.00		DOU	150.77	357	PKP	47	41.00	1.9		1.3s	25.25nm				
BRD	147.95	326	ePKPc	47	40.00	5.0X				i	47	45.60		OHR	154.29	326	iPKPc	47	44.00	-0.4
KSP	148.05	343	ePKPd	47	34.60	-0.3				i	47	54.80			1.5s	214.00nm				
	1.2s	394.00nm								e	49	47.40					i	47	53.10	
			id	47	39.10		SOP	150.78	340	ePKP	47	39.00	-0.2				i	48	09.30	
			i	47	43.80		ELL	151.03	309	iPKP	47	37.40	-2.7X	BGF	154.37	359	ePKP	47	43.90	-0.3
			e	49	35.00		DIM	151.05	322	ePKP	47	46.00	6.3X		1.6s	62.20nm				
ECP	148.08	10	ePKP	47	37.30	2.4X	KMR	151.17	343	iPKP-	47	39.00	-0.8	MMK	154.42	350	ePKPc	47	45.20	0.6
RAC	148.16	340	ePKP	47	39.00	3.9X				i	47	46.30		VAI	154.46	349	PKP	47	44.00	-0.3
AYN	148.24	291	ePKPc	47	36.00	0.1				i	47	56.80		DIX	154.47	351	ePKPc	47	45.30	0.5
DSI	148.34	297	ePKP	47	35.00	-1.0				ipPKP	49	39.80		EMS	154.55	352	ePKPc	47	45.20	0.4
CLL	148.43	347	iPKP	47	35.10	-0.4				ePP	51	17.00		TCF	154.65	360	ePKP	47	44.20	-0.5
	1.9s	81.00nm					KDZ	151.37	322	iPKP	47	47.00	6.7X		1.0s	18.00nm				
ISR	148.47	326	iPKPd	47	40.00	4.1X	PGB	151.48	324	iPKPd	47	47.00	6.5X	LSF	154.69	1	ePKP	47	43.90	-0.8
PSN	148.51	322	iPKPd	47	40.00	4.1X	GWF	151.60	352	PKP	47	40.60	0.2	MAF	154.71	359	ePKP	47	44.50	-0.2
FAM	148.59	303	ePKP	47	40.50	4.3X	KOT	151.66	295	ePKP	47	40.00	-1.0		1.5s	36.55nm				
BRG	148.62	345	iPKPd	47	35.40	-0.4				e	47	47.50		LPL	155.12	352	ePKP	47	45.50	-0.1
			i	47	40.30		BEO	151.67	332	iPKP	47	47.80	7.3X	LPG	155.13	352	ePKP	47	45.60	-0.1
			i	47	45.20					i	47	59.00		BNI	155.58	352	PKPc	47	46.70	0.6
			ipPKP	49	41.80		RZN	151.75	322	iPKPd	47	48.00	7.0X	RJF	155.63	1	ePKP	47	45.40	-0.6
			eSKP	51	10.00		FUR	151.77	347	iPKPc	47	40.50	-0.1		0.8s	10.75nm				
WTS	148.71	354	ePKP	47	36.00	0.1				i	47	47.80		ARV	155.66	340	PKP	47	46.00	-0.1
	1.0s	206.00nm								i	47	59.00		LFF	155.98	2	ePKP	47	46.10	-0.4
			e	47	40.00		BHG	151.81	344	iPKPc	47	40.40	-0.3	CAF	156.01	360	ePKP	47	46.50	-0.1
			e	47	46.00		EZN	151.92	318	iPKP	47	47.90	6.8X		1.6s	43.55nm				
			epP	49	41.00		STR	151.97	352	PKP	47	39.92	-0.9	PII	156.14	345	PKP	47	37.00	-9.7X
DBN	148.73	356	ePKP	47	40.00	4.1X	VTS	151.97	325	iPKPd	47	48.00	6.7X	LPO	156.25	1	ePKP	47	46.80	0.0
			epP	49	36.00		YER	152.02	311	iPKP	47	47.60	6.2X	STS	156.33	20	ePKP	47	48.00	1.0
LFK	148.86	304	ePKP	47	41.20	4.4X	IZM	152.09	314	iPKP	47	47.90	6.4X	AUTN	156.51	350	PKP	47	47.27	-0.2
PRNI	148.89	294	ePKP	47	37.00	0.1	HLW	152.09	295	ePKP	47	39.50	-2.1X	BCAO	157.09	227	iPKPd	47	49.20	0.4
HQL	149.01	292	ePKP	47	36.70	-0.4				i	47	48.50			0.7s	36.00nm				
GPA	149.09	315	ePKP	47	37.00	0.1				i	48	03.00					ic	48	22.20	
CSS	149.12	304	ePKP	47	36.00	-1.1	FLN	152.10	4	ePKP	47	40.40	-0.7				ic	49	22.50	
CMP	149.16	327	iPKPc	47	41.00	4.1X		1.1s	39.05nm					ERUA	157.20	18	ePKP	47	49.00	0.9
TNR	149.26	329	ePKPd	47	42.00	5.0X	WLS	152.19	352	PKP	47	40.93	-0.4	EPF	157.86	3	ePKP	47	48.80	-0.1
BUC1	149.27	325	ePKPd	47	36.00	-1.0	BST	152.20	9	PKP	47	47.24	6.0X	SOI	158.99	328	PKP	47	50.00	-0.2

28d 11h

GUD	159.61	14	ePKP	47 52.40	1.4
EPLA	159.66	18	ePKP	47 52.30	1.4
ETOR	159.82	9	e(PKP)	47 52.80	1.7
TOL	160.36	14	ePKP	47 53.00	1.4
			ePPS	02 15.00	
EVAL	161.70	23	ePKP	47 54.60	1.6
EBAN	162.05	15	ePKP	47 54.80	1.4
AAPN	162.78	17	iPKPc	47 54.60	0.3
ASMO	162.83	16	iPKPc	47 54.50	0.2
EJIF	163.16	21	ePKP	47 56.80	2.3X
ATEJ	163.18	17	iPKPc	47 54.60	-0.1
APHE	163.23	16	iPKPc	47 55.00	0.3
MAL	163.24	18	ePKP	47 55.50	1.0
LIC	163.92	154	PKPd	47 55.78	-0.1
	1.0s	49.50nm			
KIC	164.16	155	PKPd	47 56.04	-0.1
	1.0s	42.50nm			
TIC	164.30	153	PKP	47 56.14	-0.1
LKO	166.56	146	PKP	47 57.84	-0.2
	1.1s	66.50nm			
	S.D. = 0.9	on 320 of 380 obs.			

? MAY 28, 1990 11h 54m 14.31± 2.76s
44.455 N ±17.8km 6.918 E ±26.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.7 (GEN).

PZZ	0.14	69	P	54 17.76	0.0
			S	54 19.61	
STV	0.36	126	P	54 21.74	0.0
			S	54 27.40	
ENR	0.43	122	P	54 23.07	0.0
			S	54 29.53	
RRL	0.47	349	P	54 24.02	0.0
			S	54 30.92	
	S.D. = 0.0	on	4 of	4 obs.	

? MAY 28, 1990 12h 00m 15.73± 2.02s
36.942 N ±23.5km 28.613 E ±11.6km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.33	306	iPg	00 22.60	0.1
			iSg	00 28.60	
ELL	1.06	100	iPn	00 35.20	-0.5
KHL	1.56	27	ePn	00 43.00	-0.6
BCK	1.66	71	iPn	00 46.10	1.0
ALT	2.42	29	ePn	00 59.00	3.0X
	S.D. = 1.3	on	4 of	5 obs.	

? MAY 28, 1990 13h 34m 03.13± 2.44s
51.400 N ±131.km 157.033 E ±144.km
DEPTH = 33.0km (normal)
4.8mb (2 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

NIIJ	19.08	229	P	38 25.40	0.0
MAT	20.02	229	eP	38 36.00	0.2
	0.8s	17.16nm			4.4mb
CHJJ	20.05	227	P	38 35.60	-0.5
MTMJ	20.17	230	P	38 37.40	-0.1
IIDJ	21.02	228	P	38 45.90	-0.3
TSRJ	21.90	232	P	38 56.10	1.2
INK	36.36	36	eP	41 06.00	0.7
CHG	55.70	257	iPc	43 47.00	8.4X
	1.0s	20.00nm			5.1mb
TIC	120.16	339	PKP	52 52.10	-0.1
LIC	120.57	339	PKP	52 52.00	-1.0
	S.D. = 0.7	on	9 of	10 obs.	

---

* MAY 28, 1990 14h 18m 42.82± 0.67s
48.825 N ±12.8km 156.242 E ±11.5km
DEPTH = 33.0km (normal)
4.5mb (13 obs.)
KURIL ISLANDS REGION (222)

MAT	18.01	234	(P)	22 53.00	0.9
	1.1s	10.13nm			3.9mb
MDJ	18.71	267	eP	22 58.80	-1.8
CN2	21.77	268	Pc	23 29.20	-4.1X
SNY	23.87	265	eP	23 56.00	2.1
FBA	33.22	40	eP	25 18.00	-0.3
	0.8s	2.76nm			4.2mb
INK	38.76	34	eP	26 06.00	0.8
GTA	40.74	278	eP	26 21.80	-0.3
MBC	41.92	21	eP	26 32.00	0.8
	0.9s	3.00nm			4.0mb
GYA	44.22	258	P	26 51.00	0.4
KMI	47.69	260	Pd	27 18.50	0.2
CHG	54.64	258	eP	28 10.80	0.2
CHTO	54.64	258	eP	28 11.00	0.4
	1.1s	9.13nm			4.7mb
GUN	56.91	276	P	28 26.40	-1.0
PKI	57.44	276	P	28 30.80	-0.3
	1.0s	22.00nm			5.2mb
DMN	57.62	276	P	28 31.80	-0.4
	0.8s	34.00nm			5.4mb
GKN	57.66	277	P	28 31.70	-0.7
FFC	57.79	42	iPd	28 32.70	-0.1
	0.7s	6.00nm			4.8mb
NB2	66.92	342	P	29 31.20	-2.4
	0.9s	3.60nm			4.5mb
WB5	71.13	202	eP	29 59.00	-0.8
WRA	71.19	202	Pd	29 59.10	-1.1
	0.8s	2.40nm			4.3mb
G8A	72.53	271	P	30 11.00	2.6
	0.7s	1.50nm			4.1mb
KRA	74.59	332	eP	30 18.50	-1.3
EKA	74.79	348	Pd	30 21.20	0.3
	0.5s	2.30nm			4.4mb
KSP	74.95	335	iP	30 21.80	-0.2
CLL	75.41	337	iPc	30 24.10	-0.4
	1.3s	15.00nm			4.8mb
			e	30 37.00	
BRG	75.56	336	eP	30 25.90	0.5
	1.0s	10.00nm			4.8mb
PRU	76.21	336	P	30 29.50	0.4
SRO	77.07	332	eP	30 22.20	-11.7X
ZST	77.09	333	eP	30 35.20	1.1
KHC	77.25	336	iP	30 35.50	0.5
CDF	79.49	340	eP	30 59.60	12.3X
FLN	80.74	345	eP	31 06.20	12.4X
	0.9s	9.85nm			
LDF	80.83	344	eP	31 06.90	12.6X
	0.9s	6.55nm			
GRR	81.16	345	eP	31 08.90	12.8X
	0.8s	13.45nm			
LOR	81.33	341	eP	31 09.50	12.5X
LPF	81.54	345	eP	31 11.20	13.2X
	0.9s	9.85nm			
SSF	81.60	342	eP	31 11.00	12.6X
MAF	82.60	342	eP	31 17.20	13.6X
	0.8s	5.35nm			
LSF	82.78	343	eP	31 18.50	14.0X
	S.D. = 1.1	on	28 of	39 obs.	

MAY 28, 1990 14h 50m 25.91± 0.32s
18.168 N ± 4.9km 147.202 E ± 6.8km
DEPTH = 32.5km (4 depth phases)
4.4mb (8 obs.)
MARIANA ISLANDS REGION (215)

GUMO	5.08	207	eP	51 42.80	1.0
GUA	5.10	206	eP	51 43.20	1.0
	0.5s	191.55nm			5.8mb X
			eS	52 40.20	
IIDJ	19.11	336	P	54 49.90	1.0
CHJJ	19.23	339	P	54 49.90	-0.4
KAGJ	19.66	314	eP	54 55.00	-0.1
MAT	19.95	338	eP	54 58.00	-0.1
	0.6s	13.33nm			4.4mb
			eS	58 43.00	
TSRJ	19.96	332	P	54 57.00	-1.2
MTMJ	20.13	338	P	54 59.70	-0.5
NIIJ	20.32	341	P	55 03.30	1.3
KUMJ	20.54	317	P	55 05.30	1.0
SHNJ	21.43	321	eP	55 12.50	-0.8
PMG	27.40	180	eP	56 09.00	-1.6
BJI	34.51	316	eP	57 12.00	-1.1
WB5	39.85	199	eP	57 57.30	-1.0
WRA	39.92	199	Pd	57 58.50	-0.4
	1.1s	6.80nm			4.3mb
PSI	49.72	258	ePd	59 18.50	1.1
GUN	56.77	292	P	00 10.20	0.3
PKI	57.21	291	P	00 12.90	-0.1
GKN	57.85	292	P	00 16.40	-0.9
FBA	63.15	26	eP	00 54.50	1.9
	1.0s	3.50nm			4.4mb
MBC	73.31	14	eP	01 55.00	-0.6
	0.9s	3.00nm			4.3mb
MIN	79.36	51	e(P)	02 30.80	0.3
ORV	79.63	52	eP	02 31.50	-0.3
NEW	80.34	42	eP	02 35.00	-0.5
	1.0s	4.50nm			4.4mb
			ipP	02 46.50	38km
PRS	80.58	55	eP	02 36.90	-0.1
			e	02 46.30	30km
CMB	80.88	53	ePc	02 38.40	-0.1
			e	02 48.10	31km
FRI	81.68	54	ePc	02 42.60	-0.1
KVN	82.31	52	eP	02 46.10	-0.1
			epP	02 56.20	32km
TNP	83.26	52	iP	02 51.00	-0.1
	0.8s	1.32nm			4.1mb
SES	83.45	39	eP	02 51.00	-0.6
FFC	86.77	33	iPd	03 08.00	0.0
	0.8s	11.00nm			5.1mb
GOL	91.29	47	eP	03 32.00	2.0
	0.9s	3.79nm			4.8mb
	S.D. = 0.9	on	32 of	32 obs.	

MAY 28, 1990 15h 12m 00.17± 0.70s
7.139 S ± 4.0km 127.309 E ± 6.8km
DEPTH = 329.0 ± 8.9 km
4.8mb (15 obs.)
BANDA SEA (280)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Locotion:
Origin Time 15:12: 6.5 1.0
Lot 6.56S 0.09 Lon 127.67E 0.10
Dep 327.1 3.0 Half-durotion 1.8
Moment Tensor; Scale 10**16 Nm
Mrr= 2.33 0.53 Mtt=-0.21 0.72
Mff=-2.12 0.85 Mrt=-9.14 0.89
Mrf= 8.90 0.83 Mtf= 1.38 0.76
Principal Axes:

T	Val= 12.92	Plg=50	Azm=220
N	0.20	4	315
P	-13.12	39	49

Best Double Couple:Mo=1.3*10**17
NP1:Strike=174 Dip= 7 Slip= 129
NP2: 315 85 86

AAI	3.54	14	ePc	13 04.00	0.3
			e(S)	13 56.00	
MTN	6.81	147	iPd	13 39.10	-1.4
MNI	8.87	344	e(P)	14 07.50	2.1
DAV	14.24	353	eP-	15 10.00	-0.2
WB5	14.40	152	iPc	15 10.30	-1.7
WRA	14.44	152	Pc	15 10.80	-1.7
	0.8s	169.80nm			5.5mb
TRT	14.56	267	ePd	15 10.50	-3.3X
	0.6s	179.60nm			5.6mb
MBL	15.70	207	iPc	15 25.10	-0.9
	0.4s	27.00nm			5.0mb
			e	16 33.00	
MNDI	16.27	88	eP	15 33.00	0.7
KKM	17.15	320	ePc	15 42.00	0.7
QIS	17.88	139	iPc	15 48.30	-0.4
			eS	16 51.00	
WARB	18.95	182	iPc	16 01.00	1.6
NANU	19.08	215	iPd	16 00.70	0.1
PMG	19.77	98	eP	16 08.00	0.5
	1.2s	250.00nm			5.4mb
MEKA	21.09	202	eP	16 20.50	0.2
CTA	22.43	127	iP	16 33.80	0.6
	1.0s	50.00nm			4.8mb
			e	17 16.00	
			e(S)	20 25.00	
FORR	23.60	178	iPc	16 43.50	-0.5
COOL	24.32	193	eP	16 49.70	-0.9
			e	17 46.00	
BAG	24.33	344	eP	16 52.00	1.0
MRWA	24.41	205	eP	16 51.70	0.2
	0.3s	6.00nm			4.4mb
			e	17 38.00	
			e	18 28.00	
QLP	25.16	142	eP	16 59.00	0.7
			e	17 54.10	
BAL	25.37	202	eP	17 00.00	-0.2
			e	17 49.00	
KL8	25.91	199	eP	17 04.00	-1.0
			e	17 54.00	
MUN	26.79	201	eP	17 12.00	-1.0
			e	18 10.00	
			e	19 00.00	
GUMO	26.98	40	eP	17 13.80	-1.0
ADE	29.62	161	iPd	17 39.40	1.5

```
CMS    29.77 147 eP    17 39.00  -0.2
                e       18 38.10
PSI    29.97 288 ePd   17 41.80   0.7
       0.8s     63.40nm          5.1mb
OIZ    31.19 327 eP    17 51.00  -0.6
BFD    32.96 157 eP    18 07.00   0.3
                e       19 04.00
                e       19 45.00
BWA    33.41 147 iP    18 13.90   3.2X
                e       19 14.70
CAN    34.40 148 iP    18 21.00   2.0
                e       19 24.00
TOO    34.50 154 iPd   18 22.10   2.3
       1.2s     80.00nm          5.0mb
CHG    38.04 313 eP    18 51.00   1.5
CHTO   38.04 313 eP    18 52.10   2.6
       1.0s      7.50nm          4.0mb
SSE    38.47 352 eP    18 51.20  -1.6
GYA    38.94 330 P     18 58.00   1.1
                S       24 31.00
WHN    39.47 342 eP    19 01.80   0.7
                PcP     21 03.60
NJ2    39.80 349 Pd    19 04.00   0.3
KMI    40.00 324 Pd    19 07.50   1.7
       2.0s     90.00nm          4.7mb
                pP      20 02.00 264kmX
                S       24 50.00
CD2    44.05 330 eP    19 37.60  -0.5
TIA    44.17 348 eP    19 37.90  -1.0
XAN    44.50 338 P     19 40.80  -0.8
MAT    44.64  13 eP    19 41.00  -1.6
                (S)     25 47.00
TIY    46.73 344 eP    19 58.00  -1.0
BJI    48.06 349 eP    20 08.00  -1.1
       1.8s     49.00nm          4.5mb
LZH    48.32 334 iPd   20 11.60   0.2
       3.0s    330.00nm          5.1mb
                S       26 44.50
SNY    48.85 356 eP    20 13.50  -1.5
LSA    50.49 318 P     20 28.20  -0.1
CN2    50.73 358 eP    20 28.00  -1.2
MDJ    51.56   2 eP    20 35.30   0.0
GTA    52.85 333 Pd    20 45.00  -0.2
GUN    53.06 313 P     20 46.70  -0.5
PKI    53.21 312 P     20 47.50  -0.8
       0.6s     18.00nm          4.6mb
DMN    53.46 312 P     20 49.60  -0.3
       0.6s     22.00nm          4.7mb
GBA    53.63 293 Pd    20 50.30  -0.7
       0.7s      5.10nm          4.0mb
GKN    54.02 312 P     20 53.60  -0.3
NDI    59.97 309 eP    21 34.00  -1.1
WMQ    62.08 329 P     21 49.50   0.6
MAIO   76.71 310 eP    23 16.00  -1.3
                e       24 32.00
ALQ   123.52  53 ePKP  30 21.70   0.9
ZOBO  152.17 147 PKP    31 15.00   2.2
                i       32 45.00
     S.D. = 1.1  on  60 of  62 obs.
-------------------------------------
% MAY 28, 1990  16h 09m 30.30± 0.89s
  31.451 N ± 7.4km   35.600 E ±12.6km
  DEPTH =  10.0km  (geophysicist)
 DEAD SEA REGION                (373)

MKRJ    0.11  19 Pc    09 32.90  -0.3
LISJ    0.23 206 Pc    09 35.30   0.0
MASJ    0.29  20 Pc    09 36.80   0.3
KFNJ    0.41   9 Pc    09 38.70  -0.1
MDSJ    0.59  72 Pc    09 42.20   0.0
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
? MAY 28, 1990  16h 10m 25.95± 4.01s
  36.753 N ±33.5km   70.954 E ±19.8km
  DEPTH = 135.4 ± 55.9 km
  4.3mb (  2 obs.)
 HINDU KUSH REGION              (718)

OUE     7.35 208 eP    12 12.60   0.5
                eS      13 31.40
MAIO    9.24 271 eP    12 37.00  -0.3
NDI     9.62 145 eP    12 42.00  -0.3
                eS      14 19.00
NUR    37.60 324 eP    17 29.00   0.5
SUF    37.69 328 eP    17 29.90   0.6
SOD    39.49 335 eP    17 45.00   0.8
KEV    40.55 338 eP    17 53.00   0.2

HFS    42.85 322 eP    18 11.00  -0.7
       0.5s     3.50nm          4.3mb
     Z 20s      0.13um          3.8Msz
                LR      31 37.00
NB2    44.16 323 P     18 21.10  -1.3
       0.6s     3.30nm          4.2mb
     S.D. = 0.9  on   9 of   9 obs.
-------------------------------------
   MAY 28, 1990  16h 11m 59.56± 0.23s
   43.919 N ± 5.8km  147.378 E ± 3.5km
   DEPTH =  34.2km  ( 11 depth phases)
   5.3mb ( 61 obs.)  4.4Msz (  5 obs.)
 KURIL ISLANDS                  (221)
     Felt (IV) on Shikotan and ot
     Yuzhno-Kurilsk and Kurilsk.
     CENTROID, MOMENT TENSOR    (HRV)
     Data Used: GDSN
     L.P.B.: 13S, 26C
     Centroid Location:
     Origin Time        16:12: 6.7 0.4
     Lat 43.89N 0.05 Lon 147.22E 0.06
     Dep  96.1 3.4 Half-duration  1.8
     Moment Tensor;   Scale 10**16 Nm
       Mrr=-8.74 0.50  Mtt= 5.85 0.83
       Mff= 2.89 0.63  Mrt= 5.39 0.50
       Mrf= 5.87 0.61  Mtf= 5.36 0.82
      Principal Axes:
       T  Val= 12.80  Plg=20  Azm=321
       N       -1.04      6       228
       P      -11.76     69       123
     Best Double Couple:Mo=1.2*10**17
      NP1:Strike= 61 Dip=25 Slip= -76
      NP2:       226     65       -97

KUSJ    2.11 248 iPd   12 38.70   5.6X
                S       13 02.50
HODJ    3.36 244 eP    12 57.20   6.2X
                S       13 34.00
ASAJ    3.42 275 iP+   12 59.80   7.9X
MAT    10.16 227 eP    14 27.00   0.8
       0.7s     30.82nm          5.7mb
                eS      16 18.00
MDJ    12.77 279 Pd    15 04.30   2.9
     Z 22s      2.90um
     E 12s      1.10um
                S       17 23.00
CN2    15.82 277 iPd   15 41.00  -0.2
     Z 20s      1.90um
     N 10s      0.40um
     E 10s      0.50um
                pP      15 47.00
SNY    17.56 271 P     16 03.00  -0.2
       0.8s   100.00nm          5.0mb
     Z 34s      2.10um          5.3MszX
                S       19 16.00
DL2    19.92 264 eP    16 28.00  -3.1X
       5.0s   900.00nm          5.3mb X
     Z 16s      0.60um          3.8Msz
                S       20 06.00
BJI    23.44 271 ePc   17 06.50   0.0
       3.0s   410.00nm          5.4mb
     Z 36s      1.25um          4.1MszX
SSE    24.29 247 Pc    17 16.80   2.1
       0.8s    30.00nm          4.9mb
                pP      17 26.50  35km
                sP      17 28.00
                S       21 29.00
                sS      21 43.00
TIA    24.30 262 eP    17 15.50   0.6
       0.8s   100.00nm          5.4mb
                epP     17 21.50  21kmX
NJ2    25.28 252 Pd    17 38.80  14.6X
       1.0s   100.00nm
     Z 13s      1.80um          4.8MszX
     N 12s      0.30um
     E 13s      0.90um
                sP      17 48.00
                S       22 04.00
TIY    27.02 269 eP    17 43.00   2.6
                S       22 18.00
BTO    27.70 276 P     17 49.00   2.5
     N 12s      0.50um
     E 12s      0.60um
                epP     17 57.00  28km
                S       22 23.00
                sS      22 37.00
WHN    29.28 254 eP    18 00.80   0.1

GUMO   30.30 185 eP    18 08.00  -1.9
XAN    31.24 265 P     18 17.60  -0.5
                S       23 19.00
LZH    33.93 272 Pc    18 42.00   0.3
       1.5s    35.00nm          5.1mb
     Z 20s      0.60um          4.3Msz
     E 10s      0.20um
                pP      18 50.00  27km
                S       23 59.50
                PcS     25 06.00
GTA    35.43 279 eP    18 54.60   0.1
     Z 24s      0.60um          4.3MszX
                S       24 22.00
CD2    36.59 264 eP    19 03.80  -0.4
GYA    37.12 256 P     19 09.00   0.2
                pP      19 19.00  34km
TTA    37.20  39 eP    19 10.90   1.9
SVW    37.31  42 ePd   19 12.20   2.3
IMA    38.45  34 ePd   19 20.90   1.4
       1.1s   110.90nm          5.6mb
                e       25 11.70
KDC    39.07  48 eP    19 25.40   0.8
PMR    40.42  41 eP    19 36.70   1.0
       1.2s    39.10nm          5.0mb
KMI    40.71 258 Pd    19 39.50   0.7
       2.0s    90.00nm          5.2mb
     Z 20s      0.40um          4.3Msz
                S       25 42.00
FBA    40.86  36 ePd   19 41.00   1.7
TOA    41.77  40 eP    19 49.00   2.1
WMQ    42.19 291 P     19 51.00   0.4
     Z 16s      1.25um          4.9MszX
     E 10s      0.49um
                iS      26 04.90
INK    46.18  30 iPd   20 24.00   1.8
LSA    46.35 272 P     20 25.00   0.3
CHG    47.49 254 iPd   20 34.00   0.8
       1.0s    31.25nm          5.3mb
MBC    48.60  19 eP    20 41.00  -0.2
       1.4s    32.00nm          5.2mb
GUN    51.17 273 P     21 01.60  -0.3
PKI    51.71 273 P     21 05.50  -0.4
DMN    51.90 273 P     21 07.10  -0.2
KSH    51.98 291 P     21 10.00   2.4
     E 14s      1.30um
                S       28 26.00
GKN    52.01 274 P     21 07.70  -0.3
NDI    56.94 280 eP    21 43.00  -0.8
KEV    58.61 339 eP    21 53.00  -2.0
PSI    59.27 240 ePc   22 01.50   1.3
PNT    60.14  49 eP    22 06.00   0.1
SOD    60.37 338 iP    22 05.40  -1.7
NEW    62.10  49 P     22 19.00  -0.2
       1.0s     2.50nm          4.3mb
                pP      22 28.50  31km
FHC    62.42  59 eP    22 22.30   0.9
HYB    62.95 268 iPd   22 23.50  -1.6
       1.0s    30.00nm          5.4mb
QUE    63.27 287 eP    22 26.50  -0.8
                e(S)    30 47.50
WDC    63.44  58 ePd   22 28.30   0.2
SUF    63.84 334 eP    22 29.30  -1.1
       0.5s    30.50nm          5.7mb
SES    64.01  44 eP    22 32.00   0.3
                pP      22 41.00  29km
MIN    64.16  58 eP    22 32.40  -0.6
WB5    64.60 194 eP    22 33.90  -1.8
WRA    64.66 194 Pc    22 35.40  -0.7
       0.4s     7.50nm          5.1mb
ORV    64.69  59 eP    22 35.60  -0.7
FFC    65.47  37 iPd   22 41.00   0.0
       0.4s    12.00nm          5.3mb
GCC    65.91  61 eP    22 43.90  -0.2
NUR    65.96 333 iP    22 42.80  -1.2
       0.5s    29.50nm          5.6mb
LRM    66.12  49 eP    22 45.70   0.1
GBA    66.26 266 Pc    22 44.40  -2.2
       1.0s    10.10nm          4.9mb
CMB    66.31  60 ePd   22 46.80   0.1
                e       22 57.80  36km
                e       23 11.40
PRS    66.74  61 eP    22 49.20  -0.2
LLA    66.83  61 eP    22 50.00   0.0
KVN    67.09  57 P     22 51.90   0.0
                pP      23 03.50  39km
PRI    67.30  61 eP    22 58.20   5.1X
FRI    67.37  60 eP    22 53.50   0.1
```

28d 16h

		e	23 06.10	43km		
		e	23 18.50			
TNP	68.23	58 P	22 59.00	-0.1		
	0.7s	17.67nm		5.3mb		
		pP	23 10.50	38km		
UPP	68.68	335 iP	22 58.20	-3.0		
FRB	68.97	16 eP	23 01.00	-1.9		
ISA	68.98	60 eP	23 03.00	-0.6		
CLC	69.44	60 eP	23 06.00	-0.3		
NB2	69.51	339 P	23 05.50	-0.8		
	0.7s	30.20nm		5.5mb		
HFS	69.60	337 eP	23 05.50	-1.3		
	0.4s	16.70nm		5.4mb		
Z	22s	0.31um		4.5Msz		
		LR	52 26.00			
BW06	69.67	50 P	23 07.50	-0.4		
	1.0s	42.00nm		5.4mb		
		pP	23 18.50	36km		
SBB	70.01	61 eP	23 10.00	0.1		
RMQ	70.07	179 eP	23 10.70	0.7		
GSC	70.26	60 eP	23 11.00	-0.4		
RVR	70.75	61 eP	23 14.00	-0.2		
TPC	71.51	60 eP	23 19.00	0.1		
RSSD	71.72	46 P	23 19.90	-0.3		
BAR	72.05	62 eP	23 22.00	-0.1		
GLA	72.97	60 eP	23 28.00	0.4		
GOL	74.07	50 P	23 34.30	0.2		
	1.0s	28.50nm		5.2mb		
GLD	74.12	50 P	23 35.00	0.7		
	1.1s	82.93nm		5.6mb		
KRA	75.80	328 iPd	23 43.20	-0.3		
	0.7s	51.00nm		5.6mb		
VRI	76.29	322 ePd	23 47.50	1.2		
KSP	76.50	331 iP	23 47.50	0.1		
	0.9s	22.00nm		5.2mb		
ANMO	76.77	54 P	23 49.80	0.3		
	1.0s	9.50nm		4.8mb		
ALQ	76.77	54 eP	23 49.80	0.3		
	1.0s	12.50nm		4.9mb		
CLL	77.24	333 iPd	23 51.20	-0.3		
	1.4s	50.00nm		5.4mb		
		e	24 14.00	86kmX		
		eS	33 31.00			
BRG	77.29	332 iPc	23 51.90	0.1		
	1.5s	25.00nm		5.0mb		
		i	23 54.20	7kmX		
		eS	33 34.00			
SCH	77.43	19 eP	23 53.00	0.4		
PRU	77.83	331 P	23 55.10	0.3		
	1.2s	16.50nm		4.9mb		
		e	23 57.90	9kmX		
		S	33 41.00			
BBTK	77.92	314 eP	23 56.00	0.4		
EKA	78.01	343 Pd	23 55.30	-0.4		
	0.9s	9.90nm		4.8mb		
SRO	78.25	328 iP	23 57.60	0.5		
SRO	78.25	328 iP	23 46.70	-10.4X		
MOX	78.26	333 eP	23 52.00	-5.2X		
	1.6s	37.00nm		5.2mb		
ZST	78.40	329 eP	23 58.50	0.6		
WTS	78.57	336 eP	23 59.00	0.2		
	1.0s	39.00nm		5.4mb		
BZS	78.70	324 eP	23 58.50	-1.1		
KHC	78.89	331 P	24 01.20	0.5		
	1.2s	31.00nm		5.2mb		
		e	24 23.40	83kmX		
PVL	78.97	321 eP	24 02.00	0.9		
WET	79.12	332 iPd	24 02.50	0.6		
GRF	79.22	333 iPd	24 03.10	0.7		
	1.4s	46.00nm		5.3mb		
Z	19s	0.10um		4.2Msz		
		ed	24 24.50	80kmX		
TNS	79.64	335 ePd	24 04.80	0.0		
ALT	79.87	315 eP	24 05.00	-1.2		
ENN	79.92	336 eP	24 06.00	-0.1		
	1.0s	42.00nm		5.4mb		
MEM	80.04	336 Pc	24 07.00	0.3		
KDZ	80.16	320 eP	24 09.00	1.4		
BHG	80.34	331 eP	24 09.60	1.2		
VTS	80.42	322 iP	24 10.00	0.8		
RZN	80.45	320 iP	24 10.00	0.6		
KHL	80.72	315 eP	24 10.00	-0.7		
PTJ	80.74	328 eP	24 10.30	-0.4		
DOU	80.90	337 P	24 13.00	1.6		
		S	34 14.00			
MMB	80.99	321 ePd	24 13.00	1.0		
MEO	81.36	49 iPc	24 14.70	0.6		
CDF	81.60	334 eP	24 14.20	-1.0		
	0.7s	13.25nm		5.1mb		
ECP	81.63	344 eP	24 15.60	0.5		
SKO	81.71	322 iPc	24 16.60	0.9		
OGA	81.72	331 iPc	24 16.70	0.7		
VAY	81.72	321 eP	24 16.30	0.5		
TUL	82.02	47 iPc	24 18.30	0.9		
	0.9s	12.30nm		4.9mb		
Z	20s	0.20um		4.5Msz		
		e	24 44.50	100kmX		
		LR	52 00.00			
LNO	82.02	47 iPc	24 18.00	0.7		
MDSJ	82.04	307 Pc	24 18.50	0.8		
SALJ	82.09	307 Pc	24 18.00	0.0		
KFNJ	82.20	307 Pd	24 18.80	0.4		
HAU	82.25	335 eP	24 17.20	-1.3		
	0.7s	6.60nm		4.8mb		
BSF	82.27	334 eP	24 17.20	-1.5		
MKRJ	82.45	307 Pc	24 20.00	0.1		
DSI	82.59	307 eP	24 20.00	-0.4		
OHR	82.68	322 eP	24 20.70	-0.2		
	0.6s	36.00nm		5.6mb		
		e	24 42.50	81kmX		
FLN	83.49	339 eP	24 23.70	-1.1		
	0.7s	22.05nm		5.4mb		
LDF	83.55	339 eP	24 24.00	-1.2		
	0.6s	7.20nm		5.0mb		
LOR	83.66	336 eP	24 24.60	-1.2		
	0.7s	11.00nm		5.1mb		
PRNI	83.71	306 eP	24 27.00	0.7		
LBF	83.88	336 eP	24 25.70	-1.2		
	0.5s	4.35nm		4.9mb		
GRR	83.93	339 eP	24 26.20	-0.9		
	0.5s	16.05nm		5.4mb		
SSF	83.95	336 eP	24 26.10	-1.1		
	0.7s	9.90nm		5.1mb		
PGD	84.05	329 Pc	24 29.30	1.3		
UYO	84.05	47 iPd	24 28.20	0.3		
BOB	84.09	331 P	24 28.40	0.4		
MME	84.15	330 Pc	24 30.00	1.5		
MBH	84.20	306 eP	24 27.00	-1.7		
SMF	84.23	336 eP	24 27.60	-1.0		
	0.8s	21.50nm		5.4mb		
AVF	84.24	336 eP	24 27.60	-1.0		
	0.8s	16.10nm		5.2mb		
LPF	84.31	339 eP	24 28.50	-0.5		
	1.1s	43.95nm		5.5mb		
LPL	84.34	333 eP	24 28.90	-0.6		
	0.7s	13.80nm		5.2mb		
LPG	84.35	333 eP	24 29.10	-0.5		
	0.7s	16.55nm		5.3mb		
BNI	84.77	333 P	24 33.30	1.8		
MAF	84.99	336 eP	24 32.30	-0.1		
	0.8s	23.50nm		5.4mb		
TCF	85.03	337 eP	24 31.90	-0.8		
	0.5s	4.00nm		4.9mb		
LSF	85.26	337 eP	24 33.00	-0.8		
	1.0s	28.00nm		5.4mb		
MFF	85.40	338 eP	24 34.00	-0.4		
	0.5s	8.75nm		5.2mb		
FRF	86.11	333 eP	24 36.80	-1.2		
RJF	86.12	337 eP	24 37.60	-0.5		
	1.1s	19.55nm		5.2mb		
PGF	86.19	331 eP	24 36.80	-1.8		
	0.9s	18.00nm		5.3mb		
LRG	86.29	333 eP	24 38.00	-0.9		
	0.8s	22.85nm		5.5mb		
CAF	86.31	336 eP	24 39.00	-0.1		
	0.9s	20.45nm		5.4mb		
LMR	86.35	333 eP	24 38.00	-1.2		
LFF	86.68	337 eP	24 40.60	-0.2		
LPO	86.79	337 eP	24 41.20	-0.2		
	0.5s	8.00nm		5.2mb		
BUL	124.29	275 iPKPd	30 43.70	-13.0X		
SLR	127.98	269 iPKPc	31 03.00	-0.7		
	1.0s	15.00nm				
ZOBO	139.24	59 PKP	31 21.00	-4.7X		
ITR	144.61	10 ePKP	31 32.10	-2.4X		
		e	31 40.80			
		e	31 56.90			
		e	32 13.90			
		e	32 28.80			
LNV	148.48	85 ePKP	31 43.50	3.3X		
PEL	148.59	83 iPKPc	31 44.00	3.5X		
BAO	148.92	30 ePKP	31 40.00	-1.6		
PCH	148.96	84 ePKP	31 45.20	4.0X		
	S.D. = 1.0	on 157 of 171 obs.				

---

* MAY 28, 1990 17h 07m 34.47± 0.65s
54.866 N ±12.5km 161.812 E ±10.1km
DEPTH = 33.0km (normol)
4.7mb (18 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

IMA	24.05	45 eP	12 47.80	0.6
MAT	24.45	231 (P)	12 51.00	-0.2
KEV	51.45	342 eP	16 37.00	-0.9
SOD	53.58	340 iP	16 53.20	-0.6
KVN	53.88	72 eP	16 56.00	-0.6
TNP	55.06	72 eP	17 05.00	-0.3
SUF	57.75	338 iP	17 24.10	0.2
	0.4s	9.40nm		5.2mb
NUR	60.04	337 iP	17 40.00	0.1
	0.6s	10.40nm		5.1mb
NB2	62.12	344 P	17 52.40	-1.6
	0.6s	5.30nm		4.8mb
HFS	62.57	343 eP	17 55.20	-1.7
	0.5s	6.50nm		5.0mb
EKA	69.47	351 Pd	18 41.10	0.1
	0.4s	3.50nm		4.8mb
CLL	71.05	340 eP	18 50.00	-0.6
	1.6s	19.00nm		4.9mb
BRG	71.27	339 eP	18 52.00	0.1
PRU	71.98	338 eP	18 55.00	-1.2
		e	18 56.70	
GRF	72.94	341 ePc	19 02.70	0.8
	0.7s	12.00nm		5.0mb
KHC	73.00	339 P	19 03.20	0.9
CDF	74.89	343 eP	19 13.70	0.4
	0.5s	2.90nm		4.5mb
HAU	75.44	343 eP	19 16.60	0.2
	0.4s	3.45nm		4.7mb
BSF	75.53	343 eP	19 17.00	0.0
FLN	75.68	348 eP	19 17.40	-0.2
	0.5s	4.35nm		4.7mb
LDF	75.80	348 eP	19 18.00	-0.4
GRR	76.09	348 eP	19 20.10	0.1
	0.5s	4.35nm		4.7mb
LPF	76.46	348 eP	19 22.30	0.2
	0.6s	3.60nm		4.6mb
LOR	76.55	345 eP	19 22.50	-0.1
	0.5s	3.30nm		4.6mb
AVF	77.09	345 eP	19 25.90	0.3
	0.5s	2.20nm		4.4mb
SMF	77.16	345 eP	19 26.00	0.0
	0.6s	2.25nm		4.4mb
MFF	77.76	347 eP	19 29.80	0.5
LPL	77.78	342 eP	19 31.10	1.4
	0.7s	4.95nm		4.6mb
LPG	77.80	342 eP	19 31.30	1.4
	0.7s	4.40nm		4.6mb
LPO	79.47	346 eP	19 39.70	1.0
	0.4s	2.30nm		4.5mb
	S.D. = 0.8	on 30 of 30 obs.		

---

* MAY 28, 1990 17h 54m 37.34± 0.75s
41.903 N ±12.0km 85.024 E ±26.1km
DEPTH = 33.0km (normol)
4.3mb (5 obs.)
SOUTHERN XINJIANG, CHINA (321)

GUN	13.98	177 P	57 55.00	-0.6
PKI	14.30	179 P	57 59.40	-0.4
SUF	39.79	322 iP	02 09.50	1.0
	0.5s	3.50nm		4.4mb
HFS	45.92	319 eP	02 58.20	-0.1
	0.8s	4.10nm		4.4mb
NB2	46.96	320 P	03 06.60	0.1
	0.6s	1.70nm		4.2mb
MBC	61.10	6 eP	04 48.00	-1.9
	0.8s	2.00nm		4.3mb
WB5	76.54	133 eP	06 25.90	0.0
WRA	76.57	133 P	06 28.00	1.8
	0.6s	0.80nm		3.9mb
	S.D. = 1.3	on 8 of 8 obs.		

? MAY 28, 1990 18h 01m 38.30± 1.01s
46.314 N ±11.2km 2.522 E ± 8.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.5 (LDG).

MAF	0.10	162 Pg	01 41.00	0.0
		Sg	01 43.80	

```
TCF      0.22 263 Pg     01 44.00    1.0
                  Sg     01 48.80
BGF      0.33  42 Pg     01 45.20    0.0
                  Sg     01 50.80
LSF      0.69 265 Pg     01 51.00   -1.0
                  Sg     02 00.20
      S.D. = 1.4   on   4 of   4 obs.
-------------------------------------
    MAY  28, 1990  18h 04m 49.14± 0.49s
    36.248 N ± 9.3km  100.089 E ± 6.3km
    DEPTH =  10.0km  (geophysicist)
    4.4mb (  8 obs.)
 QINGHAI PROVINCE, CHINA            (325)

LZH      3.04  92 iPnc   05 40.50    2.2
     Z  10s      1.20um
                  Pg     05 46.20
                  Sg     06 24.50
GTA      3.16 356 Pn     05 46.00    6.0X
                  Pg     05 52.00
                  Sg     06 35.00
CD2      6.14 149 ePg    06 44.20   22.1X
     Z  10s      0.90um
                  eSg    08 00.00
XAN      7.56 104 Pn     06 38.80   -3.3X
                  Sn     08 01.00
                  Sg     08 46.00
BTO      8.92  58 eP     07 02.00    0.9
     N  12s      0.30um
     E  12s      0.40um
TIY      9.99  78 P      07 14.70   -1.1
     N  15s      0.70um
HHC     10.09  59 P      07 16.60   -0.6
     N  12s      0.50um
                  S      09 09.00
WMQ     12.13 312 P      07 44.30   -0.7
     Z  10s      0.45um
                  S      10 02.00
GUN     14.62 239 P      08 00.00  -18.3X
CHG     17.40 184 eP     08 55.00    1.4
SNY     19.05  66 eP     09 13.60   -0.2
HFS     57.65 324 eP     14 41.00   -0.5
        0.7s     1.00nm          4.0mb
NB2     58.53 325 P      14 47.20   -0.6
        0.5s     0.50nm          3.9mb
WB5     64.56 144 eP     15 26.60   -2.1
WRA     64.60 144 Pd     15 27.20   -1.8
        0.7s     1.40nm          4.3mb
LPG     67.33 310 eP     15 47.40    0.7
        0.5s     2.20nm          4.6mb
LPL     67.34 310 eP     15 47.40    0.8
PGF     67.34 307 eP     15 47.10    0.6
        0.7s     8.80nm          5.1mb
SMF     68.53 313 eP     15 53.60   -0.2
        0.7s     3.30nm          4.6mb
AVF     68.74 313 eP     15 54.80   -0.3
        0.9s     4.10nm          4.6mb
MAF     69.50 313 eP     16 00.50    0.7
TCF     69.68 313 eP     16 01.30    0.4
YKA     77.71  16 eP     16 47.50    0.2
        0.6s     0.90nm          4.0mb
      S.D. = 1.1   on  19 of  23 obs.
-------------------------------------
    MAY  28, 1990  19h 12m 25.73± 0.47s
    30.321 N ± 5.3km   50.812 E ± 6.5km
    DEPTH =  33.0km  (normal)
    4.6mb ( 20 obs.)
 IRAN                               (348)
      Some damage in the Do Gonbodan
      area.

DHR      4.05 189 eP     13 29.00    2.1
BRF      4.24 183 iP     13 31.00    1.5
        0.4s   104.00nm
TEH      5.42   5 eP     13 54.00    7.5X
MJMA     6.60 229 iPd    14 00.80   -2.2
RYD      6.71 215 eP     14 03.50   -1.1
QASM     7.68 238 eP     14 15.70   -2.4
TAB      8.57 336 e(P)   14 39.00    8.4X
AFIF     9.19 229 eP     14 40.30    1.2
MAIO     9.40  48 eP     14 40.00   -2.0
        0.7s     5.08nm          4.8mb
                  eS     16 12.00
KMSA    11.43 211 eP     15 05.90   -3.9X
AYN     12.97 267 eP     15 29.00   -1.3
BADA    13.90 267 ePc    15 42.10   -0.4
QUE     13.95  86 eP     15 45.50    2.0
                  e(S)   18 32.70
BBTK    17.54 308 eP     16 31.00    1.7
ELL     18.55 296 iP     16 43.00    1.1
ALT     19.09 303 eP     16 47.00   -1.4
KHL     19.28 300 eP     16 50.50   -0.1
GPA     19.43 306 eP     16 53.00    0.8
YLV     20.19 306 iP     17 00.30   -0.1
KDZ     23.37 306 eP     17 34.00    1.9
DIM     23.43 307 iP     17 33.00    0.3
RZN     23.87 306 iPd    17 39.00    1.8
PVL     24.02 309 eP     17 40.00    1.6
ISR     24.11 315 eP     17 41.50    2.2
VRI     24.37 316 ePd    17 43.00    1.2
PGB     24.56 307 iPc    17 46.00    2.3
VTS     25.24 307 iPd    17 52.00    1.7
VAY     25.29 303 eP     17 52.00    1.4
SKO     26.29 304 eP     18 00.50    0.6
OHR     26.52 302 eP     18 03.40    1.3
        0.9s    80.00nm          5.3mb
BZS     27.43 312 eP     18 11.00    0.7
SRO     30.39 314 eP     18 36.80    0.0
KRA     30.41 319 ePd    18 36.70   -0.3
ZST     31.29 314 eP     18 44.60   -0.1
VOY     32.65 309 e(P)   18 57.00    0.2
MNS     32.72 302 P      18 57.90    0.5
KSP     32.84 319 eP     18 57.80   -0.5
SFI     33.58 305 P      19 06.70    1.9
PGD     33.67 305 P      19 08.00    2.2
KHC     33.80 314 iPd    19 06.50   -0.2
        1.2s    10.00nm          4.6mb
BRG     34.22 317 eP     19 09.80   -0.4
MME     34.45 305 P      19 14.90    2.3
BDI     34.50 305 P      19 12.60   -0.2
NUR     34.86 338 eP     19 15.00   -0.6
CLL     34.93 318 iP     19 15.60   -0.7
        1.3s    13.00nm          4.7mb
BOB     35.43 306 P      19 21.40    0.6
GRF     35.44 314 eP     19 20.50   -0.2
        1.0s    19.00nm          5.0mb
VAI     36.09 307 P      19 26.90    0.7
SUF     36.11 341 eP     19 25.00   -1.2
SBF     36.73 304 eP     19 31.50   -0.2
        1.0s    26.00nm          5.1mb
BNI     37.42 306 P      19 36.60   -1.0
LPG     37.43 306 eP     19 37.20   -0.7
        0.8s    10.05nm          4.7mb
LPL     37.45 306 eP     19 37.10   -0.8
        0.9s    12.30nm          4.8mb
BSF     37.80 310 eP     19 39.60   -1.1
HAU     38.13 310 eP     19 42.10   -1.3
HFS     38.74 331 eP     19 46.90   -1.4
        0.5s     7.00nm          4.7mb
WTS     38.80 317 eP     19 50.00    1.1
        0.9s    17.00nm          4.8mb
ENN     39.01 315 eP     19 51.00    0.4
        1.1s     8.00nm          4.4mb
SMF     39.59 308 eP     19 54.60   -1.0
        0.8s     9.40nm          4.6mb
LOR     39.67 309 eP     19 54.80   -1.4
SOD     39.79 346 iP     19 56.30   -0.6
                  e      20 05.00
BCAO    39.87 236 iPc    19 57.50   -0.7
        0.4s     4.00nm          4.5mb
SSF     39.88 308 eP     19 57.10   -0.8
        0.7s     4.40nm          4.3mb
AVF     39.95 308 eP     19 57.60   -0.9
NB2     40.26 331 P      19 59.10   -1.9
        1.0s     5.50nm          4.3mb
KEV     41.73 348 eP     19 56.00  -16.8X
MFF     42.32 307 eP     20 17.20   -0.8
LDF     42.49 310 eP     20 18.20   -1.1
FLN     42.74 310 eP     20 20.20   -1.2
GRR     42.95 310 eP     20 22.30   -0.8
        0.8s     8.05nm          4.5mb
LPF     43.04 309 eP     20 23.00   -0.8
EKA     45.34 319 Pc     20 42.10   -0.2
        0.8s     5.80nm          4.5mb
LKO     56.31 261 (P)    22 04.84   -1.1
MBC     73.51 358 eP     23 55.50   -0.9
        0.7s     2.00nm          4.2mb
INK     81.62   2 eP     24 41.00   -0.2
IMA     82.09  10 eP     24 44.20    0.2
        0.8s     4.30nm          4.5mb
YKA     86.77 353 eP     25 06.80   -0.7
        0.9s     3.10nm          4.5mb
PMR     87.00   9 eP     25 08.50   -0.1
      S.D. = 1.2   on  74 of  78 obs.
-------------------------------------
%   MAY  28, 1990  19h 49m 15.64± 1.29s
    31.732 S ±20.9km   69.207 W ± 9.6km
    DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTBS     0.22 289 iPd    49 22.40    0.0
RTCB     0.43  55 iP     49 26.00    0.8
RTCV     0.58 103 e(P)   49 27.90    0.4
RTLL     0.75  58 iPc    49 29.30   -0.5
CFA      0.83  82 iPd    49 30.40   -0.6
                  S      49 48.00
      S.D. = 0.8   on   5 of   5 obs.
-------------------------------------
?   MAY  28, 1990  19h 53m 12.09±12.16s
    65.248 N ±57.2km    0.496 W ±88.7km
    DEPTH =  10.0km  (geophysicist)
 NORWEGIAN SEA                      (642)
      MD 3.0 (BER).

MOL      4.45 123 eP     54 20.71   -0.4
                  eS     55 03.44
SUE      4.83 148 eP     54 26.88    0.3
                  eS     55 15.94
HYA      5.09 141 eP     54 30.50    0.4
                  iS     55 24.74
NSS      5.36  92 iP     54 34.03    0.1
                  iS     55 29.15
KMY      6.62 153 iP     54 51.31   -0.5
                  eS     56 00.11
BLS1     6.79 147 eP     54 51.93   -2.3X
                  eS     56 01.76
      S.D. = 0.6   on   5 of   6 obs.
-------------------------------------
?   MAY  28, 1990  20h 20m 27.21± 0.87s
    25.989 S ± 7.6km   27.106 E ±14.8km
    DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA           (584)
      mbLg 3.5 (BUL).

PRY      0.99 161 iPc    20 46.60    0.0
        1.0s   385.00nm
                  S      20 52.70
SLR      1.09  77 iPc    20 54.50    6.3X
        0.8s    97.01nm
                  S      21 06.90
SWZ      1.99 233 iPc    21 02.00    0.0
                  S      21 30.00
FRS      4.07 202 iPc    20 51.00  -40.4X
                  S      21 34.00
BUL      5.98  14 iPn    21 58.90    0.2
                  iSn    23 06.90
                  iSg    23 37.80
KRI      9.41  15 iPn    22 46.40   -0.2
                  iSn    24 28.90
                  iSg    25 25.40
TUH     10.04 222 eP     23 00.00    4.8X
      S.D. = 0.3   on   4 of   7 obs.
-------------------------------------
    MAY  28, 1990  21h 39m 08.13± 0.14s
    4.633 S ± 3.2km  152.187 E ± 3.8km
    DEPTH =  96.4km  (  7 depth phases)
    5.2mb ( 21 obs.)
 NEW BRITAIN REGION                 (192)
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 12S, 23C
      Centroid Location:
      Origin Time        21:39:10.9 0.7
      Lat  4.55S 0.08 Lon 152.54E 0.07
      Dep  99.6 4.1 Half-duration  1.6
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-1.13 0.59  Mtt=-0.29 0.67
        Mff= 1.42 0.81  Mrt=-8.66 0.39
        Mrf= 0.17 0.41  Mtf= 4.35 0.80
       Principal Axes:
        T  Val=  9.22  Plg=36  Azm=152
        N        1.03      27      264
        P      -10.25      42       21
       Best Double Couple:Mo=9.7*10**16
        NP1:Strike=181 Dip=28 Slip=-173
        NP2:         85     87      -63

RAB      0.44 358 iPc+   39 25.10    1.8
LAT      5.54 249 eP     40 32.00    2.3
PMG      6.89 226 eP     40 48.00   -0.3
        0.9s   991.60nm          6.3mb X
```

28d 21h

				eS	42	07.00			GUN	71.51	301	P	50	21.40	0.2		0.7s	4.40nm										
HNR	9.06	122	eP		41	16.00	-1.9		PKI	71.82	301	P	50	23.00	-0.1	LBF	129.68	332	ePKP	58	07.10	-0.7						
			eS		42	59.00				0.8s	26.00nm			5.1mb			0.7s	3.30nm										
CTA	16.41	200	iPc		42	57.20	3.1X		DMN	72.09	301	P	50	24.70	0.1	SSF	129.85	332	ePKP	58	07.50	-0.5						
	1.1s	83.54nm		4.9mb					GKN	72.60	301	P	50	27.40	0.0		0.9s	8.20nm										
			e		43	10.00			WMQ	75.21	317	P	50	42.00	-0.1	SMF	129.99	332	ePKP	58	07.60	-0.7						
			iS		46	01.00						pP	51	06.50	94km	PGF	130.07	325	ePKP	58	08.80	0.1						
GUA	19.44	338	ePd		43	31.70	1.9		GBA	76.34	285	P	50	50.00	1.2		0.7s	8.80nm										
	0.9s	853.78nm		6.1mb						0.5s	1.30nm			4.0mb	X	AVF	130.12	332	ePKP	58	07.50	-1.0						
GUMO	19.51	338	eP		43	32.10	1.7		TTA	77.84	22	eP	50	57.10	0.7		0.8s	3.35nm										
	1.2s	1233.33nm		6.1mb					PMR	79.79	25	ePd	51	06.30	-0.6	LDF	130.24	336	ePKP	58	08.00	-0.7						
PJG	19.51	338	eP		43	32.20	1.8			1.3s	61.30nm			5.3mb		FLN	130.25	337	ePKP	58	08.00	-0.7						
QIS	20.01	217	iPc		43	35.00	-0.6		IMA	80.50	20	eP	51	11.50	0.7		0.7s	7.70nm										
	0.4s	13.00nm		4.6mb						1.2s	25.40nm			4.9mb		BGF	130.52	332	ePKP	58	08.80	-0.5						
			ipP		43	53.90	98km		TOA	81.26	25	ePd	51	15.30	0.5		0.6s	5.40nm										
PVC	20.46	131	iPc		43	43.50	3.2X		FBA	81.96	22	eP	51	17.70	-0.5	GRR	130.70	337	ePKP	58	09.20	-0.4						
RMO	21.98	188	iPc		43	56.00	0.6		QUE	88.19	300	eP	51	49.60	-0.6		0.6s	7.20nm										
DZM	22.17	143	iPc		43	58.10	0.7		FHC	88.33	49	e(P)	51	51.50	1.0	FRF	130.73	327	ePKP	58	08.80	-1.0						
MTN	22.34	247	eP		43	59.00	0.0		WDC	89.39	49	ePd	51	55.80	0.4	MAF	130.90	332	ePKP	58	09.90	-0.2						
BRS	22.64	179	iP		44	02.50	0.6		PRS	89.85	54	eP	51	58.50	0.8	LMR	130.96	327	ePKP	58	09.40	-0.8						
WB5	23.04	227	iPc		44	06.60	0.8		ORV	90.08	50	ePd	51	58.70	0.1		0.8s	6.70nm										
			i		44	26.00	88km		MIN	90.08	50	e(P)	51	56.50	-2.3	LRG	130.96	327	ePKP	58	09.60	-0.6						
			eS		48	10.00			PRI	90.40	54	eP	52	01.80	1.4		0.8s	14.80nm										
			eScP		51	22.00			BCH	90.78	55	P	52	02.70	0.6	TCF	131.02	333	ePKP	58	10.00	-0.3						
WRA	23.10	227	Pd		44	07.30	0.9		CMB	90.80	52	eP	52	03.00	0.9		0.7s	4.95nm										
	0.6s	39.60nm		4.9mb					FRI	91.24	53	ePd	52	04.70	0.7	LPF	131.06	336	ePKP	58	10.10	-0.1						
QLP	23.11	198	eP		44	08.00	1.6		ISA	92.13	55	eP	52	09.00	0.7		0.7s	14.35nm										
CMS	27.37	192	eP		44	45.20	-1.1		PAS	92.27	56	eP	52	09.00	0.1	LSF	131.36	333	ePKP	58	10.30	-0.6						
MNI	27.98	282	e(P)		44	38.50	-13.4X		PNT	92.30	41	eP	52	09.00	0.3	MFF	131.82	335	ePKP	58	11.40	-0.4						
WARB	32.51	226	iPd		45	32.00	0.1		MWC	92.37	56	eP	52	10.00	0.4	LPO	132.70	332	ePKP	58	13.60	0.1						
BFD	33.57	194	iPd		45	40.80	-0.1		SBB	92.60	56	eP	52	11.00	0.6		0.7s	6.60nm										
FORR	34.56	218	iPc		45	28.20	-21.3X		KVN	92.66	51	P	52	10.70	-0.1	BCAO	133.80	272	iPKPc	58	16.00	-0.5						
MBL	35.44	239	iPd		45	56.20	-0.9		CLC	92.85	54	eP	52	12.00	0.4		0.6s	5.00nm										
BAG	37.60	304	eP		46	16.50	1.0		RVR	92.92	56	eP	52	13.00	1.1	EPF	134.35	331	ePKP	58	15.90	-0.9						
MEKA	38.87	232	eP		46	25.00	-0.9		TNP	93.29	52	P	52	14.10	0.3		0.9s	4.90nm										
COOL	39.18	225	eP		46	27.30	-1.1			0.7s	18.67nm			5.6mb		LPB	134.96	119	PKP	58	09.00	-10.1X						
PUZ	40.89	148	P		46	42.70	0.3		GSC	93.47	55	eP	52	15.00	0.5	ZOBO	135.05	118	ePKP	58	12.00	-7.5X						
TCW	41.45	155	P		46	47.60	0.7		NEW	93.88	42	P	52	15.50	-0.5				i	58	20.00							
MRW	41.65	154	P		46	48.60	0.1			1.0s	20.75nm			5.5mb		AVE	145.72	329	ePKP	58	38.00	0.6						
CAW	41.71	154	P		46	49.60	0.6		TPC	94.03	56	eP	52	28.00	11.0X	SVB	145.91	73	ePKP	58	38.01	-0.2						
WDW	41.81	154	P		46	49.80	0.0		MBC	94.10	14	eP	52	16.00	-0.4	TPP	146.19	78	ePKP	58	40.28	1.6						
MTW	41.95	153	P		46	50.90	0.0			1.0s	7.00nm			5.0mb		TRN	146.20	78	ePKP	58	39.42	0.7						
LTZ	41.97	158	P		46	52.00	0.9		GLA	95.00	57	eP	52	24.00	2.5X	TIO	147.47	326	iPKP	58	44.00	3.5X						
KLB	41.97	226	eP		46	50.00	-1.3		YKA	95.56	28	eP	52	23.00	-0.4	BAO	151.63	136	ePKP	58	45.40	-1.9						
MRWA	42.08	230	eP		46	51.00	-1.2			0.7s	8.50nm			5.3mb		LKO	157.42	284	(PKP)	59	05.60	10.6X						
BLW	42.10	154	P		46	52.00	-0.2		SES	97.87	40	ePd	52	34.20	0.1		S.D. = 0.9	on 141 of 153 obs.										
KHZ	42.15	156	P		46	52.40	-0.2		BW06	99.19	48	P	52	39.80	-0.7	----------												
CHJJ	42.31	344	P		46	52.60	-1.4			1.1s	20.83nm			5.7mb		? MAY 28, 1990 23h 27m 46.16± 5.56s												
MAT	43.00	343	eP		46	59.00	-0.5		ALQ	101.95	55	ePdiff	52	54.80	1.7	44.020 N ±32.4km 6.414 E ±29.0km												
MTMJ	43.15	343	P		46	59.50	-1.4			1.0s	3.25nm			5.0mb		DEPTH = 10.0km (geophysicist)												
MUN	43.30	227	eP		47	04.00	1.9		ANMO	101.95	55	Pdiff	52	55.00	1.9	FRANCE											(538)	
NIIJ	43.43	345	P		47	02.10	-0.9			0.7s	1.88nm			4.9mb		ML 2.1 (LDG).												
QZH	43.94	314	eP		47	09.00	1.7		GOL	102.52	51	Pdiff	52	55.50	-0.1													
SSE	46.23	322	P		47	24.50	-0.9			1.0s	11.50nm			5.6mb		FRF	0.49	160	Pg	27	55.90	-0.2						
NJ2	48.33	321	eP		47	38.00	-3.8X		RSSD	103.10	46	Pdiff	52	57.30	-0.7				Sg	28	04.80						
WHN	50.31	317	eP		47	56.50	-0.6		HFS	116.30	338	ePKP	57	40.00	-1.6	LRG	0.57	184	Pg	27	57.20	-0.4						
TIA	52.22	324	Pc		48	10.90	-0.5			0.8s	5.10nm								Sg	28	07.30							
MDJ	53.05	340	eP		48	17.00	-0.4		NB2	116.55	340	PKP	57	41.60	-0.6	LMR	0.69	174	Pg	28	00.20	0.4						
SNY	53.08	333	eP		48	15.00	-2.6			0.7s	3.90nm								Sg	28	12.10							
N	22s	0.40um							BUL	119.37	244	iPKPd	57	36.00	-12.9X	SBF	0.75	102	Pg	28	00.90	-0.1						
CN2	53.90	336	Pc		48	23.40	-0.2					ipP	58	00.20					Sg	28	12.80							
Z	21s	0.80um		4.8Msz					BRG	122.22	330	iPKP	57	53.40	0.2		S.D. = 0.6	on 4 of 4 obs.										
BJI	55.42	327	eP		48	33.00	-1.7			0.7s	10.00nm					----------												
	2.0s	55.00nm		5.2mb					CLL	122.41	331	iPKP	57	53.50	0.0	% MAY 29, 1990 01h 13m 34.39± 1.00s												
Z	36s	0.42um		4.3MszX						0.7s	11.00nm					39.610 N ± 8.4km 28.609 E ±10.4km												
			pP	48	58.00	103km			PRU	122.46	329	ePKP	57	53.30	-0.4	DEPTH = 10.0km (geophysicist)												
TIY	56.02	322	eP		48	39.00	-0.3		KHC	123.48	329	iPKP	57	56.20	0.4	TURKEY											(366)	
Z	20s	0.80um		4.8Msz					GRF	124.32	330	iPKPc	57	57.80	0.4													
XAN	56.08	317	P		48	39.30	-0.4		Z	20s	0.10um			4.5Msz		KCT	0.67	343	iPg	13	46.50	-1.2						
KMI	56.39	304	Pc		48	44.00	1.7		WTS	124.77	335	ePKP	57	57.50	-0.5	EDC	0.93	322	ePg	13	52.20	0.0						
Z	30s	0.50um		4.4MszX						0.7s	5.00nm								eSg	14	02.20							
			pP	49	07.50	95km			EKA	125.70	343	PKP	58	00.00	0.2	ALT	1.29	115	ePn	13	58.30	-0.1						
CHG	57.36	296	ePd		48	50.00	1.0			0.7s	4.80nm					HRT	1.46	33	ePn	14	00.00	-0.8						
	1.1s	18.99nm		5.1mb					ENN	126.04	334	ePKP	58	01.00	0.4	KHL	1.47	151	ePn	14	01.00	0.0						
CHTO	57.36	296	iP		48	50.00	1.0			1.0s	16.00nm					GPA	1.47	62	ePn	14	01.00	0.0						
	1.2s	20.14nm		5.0mb					MEM	126.12	334	PKP	58	01.00	0.2	ISK	1.49	13	ePn	14	02.00	0.8						
			i	49	13.50	95km			SNF	126.93	335	PKP	58	02.90	0.6	CTT	1.54	355	ePn	14	03.10	1.2						
CD2	58.17	311	eP		48	54.60	0.1		CDF	127.10	331	ePKP	58	01.40	-1.5		S.D. = 0.9	on 8 of 8 obs.										
HHC	58.56	325	eP		48	57.60	0.5		DOU	127.11	334	PKPc	58	03.20	0.5	----------												
BTO	59.30	324	P		49	03.00	0.7		BSF	127.74	331	ePKP	58	02.90	-1.2	? MAY 29, 1990 01h 43m 11.17± 3.17s												
LZH	60.68	316	Pd		49	12.50	0.6			0.8s	9.40nm					35.542 N ±26.8km 24.961 E ±24.8km												
	1.6s	61.00nm		5.4mb					HAU	127.83	331	ePKP	58	03.20	-1.0	DEPTH = 33.0km (normol)												
Z	10s	1.20um		5.3MszX						0.6s	7.20nm					3.7mb (2 obs.)												
			pP	49	38.00	103km			LPL	129.37	329	ePKP	58	06.80	-0.7	CRETE												(370)
GTA	65.12	317	iPd		49	41.60	0.6			0.6s	2.70nm																	
	0.8s	10.00nm		4.8mb					LPG	129.37	329	ePKP	58	07.00	-0.6	VAM	0.64	258	ePn	43	23.70	0.0						
LSA	67.64	305	P		49	56.00	-1.7		LOR	129.53	332	ePKP	58	06.90	-0.5				eSn	43	39.50							

VLI 2.02 306 ePn 43 44.20 0.7
ITM 2.94 305 ePn 43 56.00 -0.7
KHC 15.95 332 eP 46 56.70 2.1X
HFS 25.67 347 eP 48 38.20 -1.2
0.7s 3.30nm 4.0mb
NB2 26.99 345 P 48 52.80 1.2
0.5s 0.50nm 3.4mb
S.D. = 1.4 on 5 of 6 obs.

& MAY 29, 1990 02h 43m 20.50s
37.150 N 121.897 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.1 (BRK).

GCC 0.14 214 iPc 43 23.40 -0.2
i 43 25.60
PCC 0.52 312 iPd 43 30.30 -0.7
SAO 0.53 137 iPc 43 30.50 -0.6
BKS 0.77 340 iPc 43 35.30 -0.5
BRK 0.78 338 eP 43 35.30 -0.6
eS 43 45.60
ZSP 0.84 340 ePd 43 37.10 0.1
e(S) 43 49.70
PRS 0.92 152 ePd 43 37.60 -0.8
eS 43 50.30
LLA 0.93 125 eP 43 38.00 -0.6
CMB 1.49 53 e(P) 43 47.40 -0.4
9 obs. associated

& MAY 29, 1990 02h 53m 06.52s
59.926 N 152.888 W
DEPTH = 105.8km
SOUTHERN ALASKA (2)
<AGS-P>.

RED 0.50 7 iP 53 22.68 -0.6
iS 53 35.05
AUL 0.61 207 eP 53 23.24 -0.7
eS 53 37.10
AUE 0.62 204 eP 53 23.24 -0.8
PDB 0.67 259 iP 53 23.70 -0.8
iS 53 36.87
RDT 0.69 20 iP 53 24.10 -0.7
XLV 0.76 128 eP 53 24.07 -1.2
eS 53 38.20
NNL 0.81 81 iP 53 26.03 0.3
CNPM 0.93 115 iP 53 26.05 -0.9
iS 53 41.46
CDD 1.07 201 eP 53 27.03 -1.4
NKA 1.16 44 eP 53 30.69 1.3
SPU 1.33 18 iP 53 30.80 -0.6
iS 53 49.75
CRP 1.39 15 iP 53 31.95 -0.4
eS 53 52.27
CGLM 1.45 17 eP 53 32.59 -0.4
SLKM 1.45 65 eP 53 31.97 -1.0
NCG 1.53 13 eP 53 33.46 -0.4
SEW 1.74 83 eP 53 35.10 -1.3
iS 53 56.90
SUA 1.87 33 iP 53 37.86 -0.4
eS 54 02.04
PMS 2.11 50 eP 53 40.35 -0.9
eS 54 05.83
SKT 2.17 17 iP 53 41.11 -0.9
PWA 2.27 39 eP 53 42.49 -0.9
PLRM 2.49 46 eP 53 44.19 -2.0
GHO 2.68 45 eP 53 47.00 -1.9
CUT 2.79 26 eP 53 49.21 -1.1
SML 2.92 48 eP 53 50.01 -2.1
GLI 3.03 69 eP 53 51.04 -2.5
VZW 3.33 67 eP 53 55.90 -1.8
VLZ 3.46 67 eP 53 57.87 -1.5
NCA 3.61 52 eP 53 59.28 -2.2
KTH 3.76 14 eP 54 02.39 -1.2
KLU 3.77 62 eP 54 01.12 -2.6
TOA 3.93 53 eP 54 04.18 -1.7
RND 3.99 27 eP 54 05.12 -1.5
WRH 5.08 24 eP 54 19.42 -2.2
BALM 5.33 73 eP 54 23.51 -1.7
PCA 6.34 83 eP 54 37.77 -1.2
35 obs. associated

MAY 29, 1990 03h 23m 14.83± 1.45s
44.849 N ± 4.9km 6.659 E ±14.4km
DEPTH = 10.7 ± 6.5 km
FRANCE (538)

ML 2.3 (GEN).

RRL 0.11 52 P 23 18.22 0.2
S 23 19.56
BNI 0.20 3 P 23 19.10 -0.3
eSg 23 22.60
PZZ 0.47 137 P 23 24.17 -0.2
S 23 30.16
RSP 0.52 54 P 23 25.40 0.0
S 23 31.86
DOI 0.54 129 P 23 23.90 -1.9
eSg 23 30.00
LPG 0.65 6 Pg 23 27.50 -0.5
Sg 23 35.90
LPL 0.67 4 Pg 23 27.90 -0.3
Sg 23 36.80
LSD 0.70 30 P 23 29.09 0.3
S 23 37.81
STV 0.77 142 P 23 30.43 0.6
S 23 39.55
ENR 0.83 139 P 23 31.04 0.2
S 23 40.63
FIN 1.28 119 P 23 38.83 0.3
S 23 53.40
IMI 1.29 136 P 23 39.04 0.3
S 23 54.17
PCP 1.38 102 P 23 40.58 0.5
S 23 56.79
S.D. = 0.8 on 13 of 13 obs.

MAY 29, 1990 04h 37m 29.80± 0.44s
5.467 N ± 7.1km 32.568 E ± 7.1km
DEPTH = 10.0km (geophysicist)
4.7mb (15 obs.) 3.8Msz (1 obs.)
SUDAN (557)

AAE 7.09 60 eP 39 16.50 0.0
NAI 7.92 148 iP 39 28.00 0.0
iS 41 30.00
BCAO 14.02 266 ePc 40 46.10 -4.7X
0.3s 5.00nm 4.8mb
id 42 24.30
ic 44 02.70
KRI 22.34 187 iP 42 22.40 -7.3X
iSn 46 20.20
BUL 25.74 189 iP 42 51.70 -10.8X
iSn 48 00.10
KIC 37.12 273 P 44 43.00 0.3
LKO 38.03 278 (P) 44 50.52 0.1
0.8s 10.50nm 4.7mb
SRO 43.92 346 eP 45 40.30 1.9
SRO 43.92 346 eP 45 46.30 7.9X
ZST 44.58 345 e(P) 45 44.80 1.1
KRA 45.69 349 eP 45 53.30 0.7
LPG 45.77 335 eP 45 53.10 -0.5
0.9s 5.75nm 4.6mb
LPL 45.79 335 eP 45 53.10 -0.6
1.2s 8.95nm 4.6mb
CAF 47.47 331 eP 46 07.30 0.5
1.1s 11.00nm 4.9mb
GRF 47.61 341 ePd 46 08.20 0.4
0.8s 10.00nm 5.0mb
Z 19s 0.10um 3.8Msz
e 46 11.50
BSF 47.63 337 eP 46 07.60 -0.5
LPO 47.73 330 eP 46 09.20 0.4
BRG 47.86 344 eP 46 09.60 -0.1
CDF 47.91 337 eP 46 09.60 -0.7
SMF 47.93 334 eP 46 10.10 -0.2
HAU 47.94 336 eP 46 10.10 -0.3
RJF 48.02 331 eP 46 11.20 0.2
LBF 48.13 334 eP 46 11.50 -0.4
0.9s 4.90nm 4.6mb
LFF 48.14 330 eP 46 12.30 0.4
MAF 48.19 332 eP 46 12.90 0.5
1.1s 13.45nm 4.9mb
AVF 48.26 333 eP 46 12.50 -0.3
1.1s 8.55nm 4.7mb
BGF 48.31 333 eP 46 13.10 -0.2
LOR 48.40 334 eP 46 13.40 -0.6
0.9s 5.75nm 4.6mb
TCF 48.40 332 eP 46 14.50 0.5
0.9s 9.85nm 4.9mb
CLL 48.51 344 eP 46 15.00 0.3
1.2s 10.00nm 4.8mb
LSF 48.70 332 eP 46 16.30 0.0
LDF 51.17 333 eP 46 34.50 -0.6
0.9s 9.85nm 4.7mb
LPF 51.20 332 eP 46 35.10 -0.2
0.9s 9.85nm 4.7mb
GRR 51.36 332 eP 46 36.00 -0.6
NB2 57.73 348 P 47 21.80 -1.2
1.0s 4.80nm 4.5mb
S.D. = 0.6 on 31 of 35 obs.

? MAY 29, 1990 06h 11m 23.29± 2.12s
45.081 N ± 7.4km 7.367 E ±20.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

RSP 0.11 312 P 11 26.83 0.6
S 11 28.98
LSD 0.41 338 P 11 31.24 -0.4
S 11 35.85
RRL 0.44 249 P 11 32.16 -0.2
S 11 37.70
PZZ 0.61 198 P 11 35.65 0.0
S 11 44.57
S.D. = 0.8 on 4 of 4 obs.

MAY 29, 1990 06h 14m 26.78± 0.47s
50.142 N ± 4.9km 8.513 E ± 3.7km
DEPTH = 31.6 ± 3.9 km
GERMANY (543)
ML 3.5 (GRF), 3.3 (FUR). Felt in the Frankfurt area.

TNS 0.09 333 iPgc 14 30.80 -1.6
iSg 14 33.10
BNS 1.19 314 iPnd 14 49.00 1.8
0.2s 515.00nm
Sg 15 06.50
GWF 1.30 207 Pg 14 50.25 1.3
Sg 15 08.12
WLF 1.60 254 iP 14 55.22 2.1
JCK 1.60 305 ePnd 14 55.60 2.4
eS 15 16.10
eS 15 16.90
MEM 1.67 287 iP 14 56.70 2.5
ENN 1.77 292 ePg 14 59.00 3.4X
0.4s 14.00nm
e 15 04.00
eSg 15 24.00
GRF 1.81 103 iPnd 14 57.50 1.3
e(Pg) 14 59.00
eSg 15 19.90
WLS 1.89 204 Pn 14 57.87 0.4
Sg 15 28.05
CDF 1.91 206 Pn 14 58.07 0.2
Sg 15 28.77
MOX 2.05 75 ePn 14 58.00 -1.7
ePg 15 02.00
eSg 15 27.00
ECH 2.12 205 Pn 15 00.72 -0.1
Sg 15 35.25
WTS 2.14 331 ePg 15 07.00 6.0X
0.8s 46.00nm
i 15 09.80
eSg 15 35.00
FEL 2.29 188 Pn 15 03.07 -0.2
Sg 15 40.47
SLE 2.38 180 ePc 15 04.30 -0.1
MOF 2.47 202 Pn 15 05.65 -0.1
Sg 15 46.30
DOU 2.52 270 iP 15 09.00 2.6
i 15 15.80
VITF 2.54 222 Pn 15 07.06 0.4
Sg 15 47.99
HAU 2.57 214 Pn 15 06.80 -0.3
Sg 15 48.40
BSF 2.57 207 Pn 15 07.00 -0.3
Sn 15 37.80
Sg 15 49.60
ZLA 2.66 182 ePd 15 08.60 0.1
FUR 2.68 136 iPc 15 16.70 8.0X
UCC 2.73 286 eP 15 54.00 44.6X
SAX 2.95 169 ePc 15 12.90 0.2
LOMF 3.01 202 Pn 15 11.79 -1.6
WET 3.01 108 iPnd 15 13.90 0.5
CLL 3.08 66 iPn 15 12.30 -2.1
iPg 15 22.30
iSg 16 01.00
KHC 3.44 105 iPn 15 19.50 -0.1
e 15 46.40

29d 06h

			Sn	16 03.00		
			Sg	16 09.90		
BRG	3.54	76	ePn	15 19.30	-1.6	
			iPg	15 29.40		
			iSg	16 13.50		
OSS	3.62	162	ePc	15 23.10	0.9	
OGA	3.68	152	iPnc	15 23.40	0.4	
VDL	3.71	170	ePc	15 24.60	1.1	
SCE	3.76	144	iPnd	15 24.00	-0.1	
PRU	3.89	90	ePn	15 27.00	1.2	
			ePg	15 37.00		
			Sg	16 23.80		
TMA	4.05	176	ePd	15 29.30	1.0	
MMK	4.11	185	ePc	15 30.10	0.9	
DIX	4.13	191	ePd	15 29.90	0.4	
LOR	4.21	229	Pn	15 29.20	-1.2	
			Sn	16 18.30		
			Sg	16 42.00		
VAI	4.28	178	P	15 40.50	9.1X	
			eSn	16 43.00		
LBF	4.36	225	Pn	15 31.40	-1.2	
			Sn	16 22.20		
			Sg	16 47.50		
SSF	4.53	229	Pn	15 33.60	-1.4	
			Sn	16 25.80		
			Sg	16 51.80		
FVI	4.55	140	Pd	15 36.00	0.8	
			eSn	16 11.00		
CTI	4.60	152	P	15 36.50	0.4	
			eSn	16 11.50		
SAL	4.73	163	P	15 40.00	2.2	
LPL	4.78	195	Pn	15 39.30	0.6	
LPG	4.80	195	Pn	15 39.60	0.7	
KSP	5.02	79	eP	15 39.00	-2.8X	
			iS	16 59.50		
BGF	5.21	229	Pn	15 43.30	-1.2	
			Sn	16 42.30		
			Sg	17 11.80		
BNI	5.24	194	P	16 14.00	28.9X	
			eSn	17 17.00		
MAF	5.59	228	Pn	15 47.80	-2.0	
			Sg	17 24.20		
TCF	5.71	230	Pn	15 50.40	-1.2	
			Sn	16 53.80		
			Sg	17 27.30		
CKI	5.72	182	P	15 54.00	2.2	
LDF	5.85	258	Pn	15 53.80	0.2	
FLN	6.03	260	Pn	15 56.10	0.1	
SBF	6.32	187	Pn	15 58.80	-1.5	
GRR	6.38	258	Pn	16 00.20	-0.8	
LPF	6.62	255	Pn	16 04.60	0.2	
MFF	6.77	242	Pn	16 05.00	-1.4	
CAF	6.80	222	Pn	16 04.40	-2.5X	
LFF	7.40	228	Pn	16 13.40	-1.8	

S.D. = 1.3 on 52 of 60 obs.

MAY 29, 1990 07h 14m 11.21± 1.27s
43.333 N ± 9.6km 144.404 E ± 6.6km
DEPTH = 105.9 ± 11.9 km
4.9mb (24 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT	8.28	217	(P)	16 09.00	-1.2	
	0.9s		20.17nm		4.8mb	
			eS	17 38.00		
MDJ	10.76	282	eP	16 43.50	0.1	
CN2	13.76	278	iPc	17 23.40	0.6	
			sP	17 52.50		
SNY	15.42	272	Pc	17 43.60	-0.3	
BJI	21.29	271	eP	18 50.00	-0.5	
	1.0s		30.00nm		4.6mb	
			eS	22 40.00		
TIA	22.08	260	Pd	18 57.40	-0.9	
NJ2	23.05	249	Pc	19 08.40	0.6	
HHC	24.41	275	eP	19 22.00	1.0	
TIY	24.85	268	Pc	19 27.00	1.9	
BTO	25.61	276	eP	19 35.00	2.8X	
			eS	23 53.00		
WHN	27.05	252	eP	19 46.00	0.8	
XAN	29.03	263	P	20 07.60	4.4X	
CD2	34.37	263	eP	20 50.00	0.1	
IMA	40.14	34	iPc	21 38.30	0.4	
	0.5s		11.00nm		4.9mb	
WMQ	40.39	291	eP	21 40.00	0.0	
FBA	42.60	36	eP	21 58.70	0.8	
	0.7s		26.40nm		5.2mb	
TOA	43.61	40	eP	22 08.00	1.9	
CHG	45.25	252	eP	22 28.00	8.3X	
MBC	49.84	18	eP	22 54.00	-0.7	
	0.9s		2.00nm		4.1mb	
KEV	58.39	339	eP	23 56.00	-1.2	
	0.7s		17.40nm		5.2mb	
SOD	60.07	337	iP	24 08.00	-0.8	
PNT	62.14	47	eP	24 23.00	0.0	
NUR	65.48	332	iP	24 43.80	-0.7	
FFC	67.21	35	iPd	24 55.50	-0.1	
	0.9s		13.00nm		4.8mb	
LRM	68.12	47	eP	25 02.30	0.5	
UPP	68.29	334	iP	25 01.60	-0.6	
NB2	69.25	338	P	25 07.40	-0.8	
	0.8s		20.40nm		5.0mb	
HFS	69.28	336	eP	25 07.60	-0.7	
	0.6s		27.40nm		5.3mb	
FRB	70.12	15	eP	25 12.00	-1.3	
KRA	75.13	327	iPd	25 43.70	0.7	
	0.5s		49.00nm		5.6mb	
KSP	75.92	329	eP	25 48.00	0.5	
CLL	76.74	331	iPd	25 52.10	0.1	
	0.9s		19.00nm		4.9mb	
PRU	77.27	329	ePc	25 55.70	0.7	
			e	25 58.40		
EKA	77.92	342	P	25 59.00	0.5	
	0.6s		3.70nm		4.4mb	
KHC	78.33	330	P	26 01.40	0.5	
GRF	78.72	331	iPd	26 04.30	1.4	
	1.1s		20.00nm		4.8mb	
CDF	81.16	333	eP	26 15.50	-0.6	
	0.7s		6.60nm		4.6mb	
HAU	81.83	333	eP	26 18.70	-0.8	
FLN	83.24	337	eP	26 26.00	-0.7	
LOR	83.28	334	eP	26 26.30	-0.7	
	0.7s		7.70nm		4.7mb	
LBF	83.49	334	eP	26 27.40	-0.7	
SSF	83.58	334	eP	26 28.00	-0.5	
GRR	83.68	338	eP	26 29.40	0.4	
SMF	83.84	334	eP	26 29.30	-0.5	
	0.8s		12.10nm		4.9mb	
LPL	83.86	332	eP	26 31.10	0.9	
AVF	83.87	334	eP	26 29.40	-0.5	
	0.7s		6.60nm		4.7mb	
LPG	83.87	332	eP	26 30.40	0.0	
MAF	84.62	334	eP	26 34.00	0.3	
	0.8s		13.45nm		4.9mb	
TCF	84.67	335	eP	26 33.60	-0.4	
LSF	84.92	335	eP	26 35.00	-0.2	
MFF	85.10	336	eP	26 36.30	0.2	
	0.9s		8.20nm		4.7mb	
RJF	85.77	335	eP	26 39.60	0.1	
LRG	85.79	331	eP	26 39.10	-0.4	
	0.7s		13.25nm		5.0mb	
LMR	85.84	331	eP	26 39.30	-0.5	
	0.7s		11.00nm		5.0mb	
CAF	85.94	334	eP	26 41.00	0.7	
	0.8s		8.75nm		4.8mb	
LFF	86.34	335	eP	26 42.80	0.6	
	0.7s		11.00nm		5.0mb	
LPO	86.43	335	eP	26 43.20	0.5	
	0.7s		6.60nm		4.8mb	
ITR	145.47		5 e(PKP)	33 38.00	-0.6	

S.D. = 0.8 on 55 of 58 obs.

? MAY 29, 1990 09h 27m 02.41± 1.27s
39.051 N ± 8.9km 27.742 E ±14.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.75	210	iPg	27 17.20	0.0	
			eSg	27 27.20		
KCT	1.29	21	ePn	27 26.00	-0.3	
EDC	1.30	4	ePn	27 26.80	0.4	
EZN	1.34	306	iPn	27 27.00	-0.1	

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

• MAY 29, 1990 09h 42m 28.20± 1.89s
1.376 N ±12.1km 124.154 E ±13.7km
DEPTH = 41.5 ± 21.9 km
4.8mb (5 obs.)
MINAHASSA PENINSULA (265)

MNI	0.69	84	iPd	42 41.50	-0.1	
			eS	42 54.00		
AAI	6.45	141	iP	44 09.00	5.8X	
WB5	23.38	155	eP	47 33.50	-0.7	
WRA	23.43	155	Pd	47 34.40	-0.3	
	0.9s		49.10nm		5.6mb	
GUMO	23.82	58	eP	48 20.50	42.0X	
SNG	24.16	284	eP	47 42.60	0.8	
PSI	25.25	273	ePd	47 52.60	0.4	
PSI	25.25	273	ePd	47 52.70	0.5	
QIS	26.54	146	iPd	48 04.00	-0.2	
	0.7s		17.00nm		4.8mb	
CD2	35.16	329	eP	49 20.10	-0.2	
XAN	35.48	338	eP	49 22.70	-0.3	
LZH	39.34	334	P	49 56.60	1.1	
	1.8s		34.00nm		4.8mb	
TOO	43.50	155	eP	50 30.80	1.4	
	0.9s		17.00nm		4.8mb	
HYB	47.56	292	eP	51 01.50	-0.5	
GBA	47.78	287	Pc	51 01.80	-2.0	
	0.9s		8.00nm		4.7mb	
BCAO	105.46	275	ePKPd	00 46.20	-3.3X	

S.D. = 1.0 on 13 of 16 obs.

& MAY 29, 1990 09h 46m 06.94s
63.884 N 148.944 W
DEPTH = 0.3km
CENTRAL ALASKA (1)
<AGS-P>.

MCK	0.15	178	iP	46 10.20	0.2	
			eS	46 12.69		
RND	0.48	175	iP	46 16.27	-0.3	
			eS	46 22.85		
WRH	0.70	32	iP	46 20.24	-0.6	
			eS	46 30.63		
NEA	0.70	355	iP	46 20.41	-0.5	
CCB	0.91	32	eP	46 23.95	-1.2	
			eS	46 36.54		
KTH	0.94	250	eP	46 24.43	-1.2	
			eS	46 38.80		
HUR	0.96	199	eP	46 25.15	-1.0	
HDA	1.02	58	eP	46 26.11	-1.0	
			eS	46 39.69		
FBA	1.14	26	eP	46 28.28	-0.8	
			eS	46 43.01		
DDM	1.37	93	eP	46 32.66	-0.5	
DMW	1.43	82	eP	46 33.42	-0.6	
CUT	1.60	203	eP	46 36.20	-0.3	
PAX	1.81	119	eP	46 40.27	0.6	
SML	2.10	172	eP	46 43.39	-0.5	
GHO	2.12	180	eP	46 43.52	-0.6	
DOT	2.18	94	eP	46 46.64	1.6	
TOA	2.19	143	eP	46 46.44	1.3	
SKT	2.25	213	eP	46 44.75	-1.2	
PWA	2.28	191	eP	46 46.41	0.0	
PLRM	2.30	182	eP	46 45.81	-0.9	
SUA	2.57	200	eP	46 51.08	0.5	
PMS	2.66	186	eP	46 52.66	0.8	
KLU	2.78	148	eP	46 54.35	0.8	
NCG	2.90	212	eP	46 52.50	-2.8	

24 obs. associated

• MAY 29, 1990 10h 39m 19.55± 2.34s
37.640 N ±17.6km 20.782 E ±26.1km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.5 (ATH).

VLS	0.56	344	iPgd	39 30.40	-0.5	
ITM	1.02	116	ePg	39 37.20	-1.7	
VLI	1.95	117	ePg	39 55.00	2.0	
KEK	2.21	340	ePg	40 04.00	7.2X	
NEO	2.54	48	ePn	40 01.60	0.1	
OHR	3.47	0	e(Pn)	40 15.00	0.3	
VAM	3.54	128	ePn	40 15.40	-0.3	
VAY	3.93	20	ePn	40 23.30	2.1X	

S.D. = 1.5 on 6 of 8 obs.

% MAY 29, 1990 11h 01m 56.12± 0.77s
44.818 N ± 6.1km 9.851 E ± 6.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BOB	0.29	260	Pd	02 01.50	-0.8	
			eSg	02 07.00		
SAL	0.92	31	P	02 14.50	0.8	
			eSn	02 29.00		
MDI	0.96	354	P	02 13.50	-0.9	
			eSg	02 27.50		
CKI	1.19	251	P	02 19.00	0.7	
			eSg	02 34.00		

PII	1.20	156	P	02 18.00	-0.4
			eSn	02 35.50	
VAI	1.30	324	P	02 20.30	0.2
			eSg	02 36.00	
ORO	1.55	302	P	02 23.50	-0.4
			eSn	02 42.00	
DOI	1.89	261	P	02 29.50	0.7
			eSn	02 52.00	

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

% MAY 29, 1990 11h 23m 42.88± 0.75s
44.878 N ± 6.3km 9.873 E ± 7.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BOB	0.32	250	Pd	23 49.00	-0.6
			iSg	23 54.10	
SAL	0.86	32	P	24 01.00	1.5
			eSg	24 14.00	
MDI	0.91	353	P	23 58.00	-2.2
			eSg	24 15.70	
BDI	0.97	147	P	24 01.50	0.2
			eSn	24 16.00	
CKI	1.22	249	Pd	24 06.50	0.8
			eSg	24 20.00	
PII	1.25	158	P	24 05.20	-0.8
			eSn	24 22.50	
VAI	1.26	322	P	24 07.00	0.8
			eSg	24 22.00	
ORO	1.53	300	P	24 10.00	-0.4
			eSg	24 29.50	
DOI	1.91	260	P	24 16.50	0.6
			eSg	24 39.50	

S.D. = 1.3 on 9 of 9 obs.

% MAY 29, 1990 11h 38m 12.50± 0.50s
44.853 N ± 4.6km 9.850 E ± 4.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BOB	0.30	253	Pd	38 19.10	0.3
			iSg	38 24.30	
SAL	0.89	32	P	38 30.00	0.4
			eSn	38 44.50	
MDI	0.93	354	P	38 30.50	0.3
			eSg	38 42.70	
BDI	0.95	146	P	38 31.00	0.3
			eSn	38 46.00	
CKI	1.20	250	P	38 35.00	0.1
			eSn	38 51.00	
PII	1.23	157	P	38 35.50	0.1
			iSn	38 53.00	
VAI	1.27	324	P	38 36.00	0.0
			eSn	38 51.50	
ORO	1.53	301	P	38 40.50	0.5
			eSg	38 58.00	
CTI	1.74	46	P	38 42.20	-0.9
			eSn	39 03.50	
DOI	1.89	260	P	38 44.00	-1.2
			eSg	39 08.00	

S.D. = 0.6 on 10 of 10 obs.

MAY 29, 1990 11h 55m 33.26± 0.90s
31.747 S ± 5.4km 68.335 W ± 9.2km
DEPTH = 10.6 ± 4.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.16	30	iPd	55 37.00	-0.1
RTCV	0.21	236	iPc	55 37.00	-0.8
RTLL	0.43	345	iPc	55 42.00	-0.1
RTCB	0.47	303	iPd	55 43.10	0.2
RTBS	0.96	275	iPd	55 51.00	-0.4
MDZ	1.21	201	eP	55 56.20	0.3
			iS	56 08.20	
JACH	2.13	243	iPc	56 11.10	1.7
FCH	2.28	226	iPc	56 12.50	0.7
			iS	56 43.00	
PEL	2.43	234	iPc	56 14.10	0.5
			iS	56 47.60	
SAN	2.60	228	eP	56 15.00	-1.0
			eS	56 51.70	
PCH	2.62	224	eP	56 16.50	0.1
			iS	56 53.10	
TACH	2.90	228	iPc	56 20.00	-0.3
			iS	57 01.90	
LCCH	3.23	237	iPd	56 25.80	0.9
			iS	57 14.00	
LNV	3.40	229	iPc	56 25.50	-1.8
			iS	57 15.20	

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

& MAY 29, 1990 12h 15m 38.66s
61.267 N 149.405 W
DEPTH = 40.8km
SOUTHERN ALASKA (2)
<AGS-P>. ML 3.1 (PMR).

PMS	0.08	254	iP	15 45.06	-0.3
PLRM	0.35	22	iP	15 46.96	-0.6
			iS	15 53.49	
PMR	0.35	22	iPd	15 46.90	-0.7
PWA	0.45	330	iP	15 48.49	-0.2
			iS	15 56.87	
GHO	0.56	24	iP	15 49.70	-0.6
			iS	15 58.83	
SUA	0.67	288	iP	15 51.45	-0.5
			iS	16 02.08	
SML	0.75	43	iP	15 52.10	-0.8
			iS	16 02.72	
SLKM	0.86	208	iP	15 53.68	-0.8
			iS	16 05.54	
NKA	1.04	240	eP	15 58.32	1.4
SEW	1.17	181	eP	15 57.63	-1.1
			eS	16 12.95	
GLI	1.19	108	iP	15 57.66	-1.4
			iS	16 13.58	
CUT	1.21	341	eP	15 59.59	0.2
			iS	16 16.18	
SKT	1.24	306	iP	16 00.08	0.2
CGLM	1.26	273	iP	16 00.24	0.1
SPU	1.28	267	iP	16 00.07	-0.4
			eS	16 17.43	
CRP	1.33	271	eP	16 01.40	0.2
NCG	1.33	277	iP	16 01.63	0.4
			eS	16 20.24	
VZW	1.40	97	iP	16 01.29	-0.8
			eS	16 19.28	
NCA	1.43	58	eP	16 02.23	-0.3
VLZ	1.49	94	iP	16 02.63	-0.7
			iS	16 22.56	
RDT	1.62	246	iP	16 05.21	-0.1
KLU	1.69	81	iP	16 05.57	-0.7
			eS	16 25.55	
HUR	1.72	356	eP	16 07.57	0.9
TOA	1.76	60	eP	16 07.60	0.4
RED	1.86	244	iP	16 08.47	-0.2
			eS	16 31.85	
CNPM	1.97	208	eP	16 09.55	-0.7
RND	2.16	7	eP	16 13.73	0.6
SDG	2.22	54	eP	16 14.59	0.7
KTH	2.40	344	eP	16 16.87	0.4
MCK	2.48	5	eP	16 18.77	1.2
PAX	2.52	46	eP	16 18.91	0.8
PDB	2.79	240	eP	16 20.95	-0.9
SVW	3.01	270	ePd	16 24.40	-0.7
DDM	3.02	31	eP	16 28.01	2.8
CDD	3.16	224	eP	16 26.64	-0.6
TGL	3.24	96	eP	16 26.69	-1.7
HDA	3.35	19	eP	16 29.79	0.0
BALM	3.43	91	eP	16 29.08	-2.0
CCB	3.47	11	eP	16 31.36	-0.2
TTA	3.53	301	eP	16 31.10	-1.3
FBA	3.72	11	eP	16 35.00	-0.1
IMA	5.18	340	eP	16 55.60	-0.2

42 obs. associated

MAY 29, 1990 12h 35m 28.92± 0.61s
15.970 N ± 2.9km 120.237 E ± 3.5km
DEPTH = 45.9 ± 5.5 km
5.3mb (46 obs.) 4.5Msz (6 obs.)
LUZON, PHILIPPINE ISLANDS (249)
Felt (II RF) at Baguio and Santa.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 12:35:25.5 0.8
Lat 16.23N 0.10 Lon 120.54E 0.11
Dep 16.9 4.9 Half-durotion 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-6.84 0.90 Mtt= 7.64 0.64
Mff=-0.79 1.19 Mrt= 1.81 3.38
Mrf=-1.43 1.77 Mtf= 0.27 0.71
Principal Axes:
T Val= 7.86 Plg= 7 Azm= 0
N -0.47 12 92
P -7.38 76 241
Best Double Couple:Mo=7.6*10**16
NP1:Strike= 76 Dip=39 Slip=-110
NP2: 281 53 -75

BAG	0.55	37	iPc+	35 41.10	0.3
QCP	1.55	148	iPd	35 54.00	-0.5
MCO	8.79	315	eP	37 31.10	-5.3X
GZH	9.61	319	P	37 44.00	-3.6X
	Z 20s		2.80um		
	N 14s		2.30um		
	E 12s		2.90um		
DAV	10.26	149	eP	38 03.00	6.5X
QIZ	10.37	289	eP	37 54.00	-4.1X
	N 15s		1.60um		
	E 15s		2.90um		
KKM	10.62	202	eP	38 00.40	-1.2
TSM	11.87	191	ePc	38 18.90	0.6
SSE	15.08	3	P	39 00.80	0.2
	8.0s	600.00nm			4.9mb X
	Z 20s	1.80um			4.1MszX
	N 13s	1.00um			
			pP	39 11.00	
			sP	39 17.50	
MNI	15.13	162	ePd	39 04.00	2.6
WHN	15.48	341	eP	39 05.00	-0.7
	Z 15s	2.40um			
	N 14s	1.16um			
	E 14s	1.70um			
			pP	39 12.00	
NJ2	16.06	356	Pc	39 12.00	-1.1
	4.5s	400.00nm			4.8mb X
	Z 18s	1.10um			4.1MszX
	N 15s	1.30um			
	E 17s	1.60um			
			sP	39 29.00	
GYA	16.39	312	P	39 19.60	2.1
	N 16s	1.60um			
	E 16s	2.30um			
LOE	17.79	277	eP	39 36.00	1.1
KMI	18.73	302	Pd	39 47.50	0.8
	4.0s	600.00nm			5.1mb X
	Z 15s	2.60um			3.8Msz
			pP	39 53.50	
			sP	39 56.50	
			PP	40 07.50	
NST	19.35	272	eP	39 56.00	2.4
NNT	20.15	263	eP	40 03.70	1.5
TIA	20.35	353	Pd	40 04.50	0.4
	Z 17s	1.60um			4.4MszX
	N 14s	1.10um			
			eS	43 46.00	
BDT	20.39	277	eP	40 05.70	1.1
	1.0s	62.10nm			4.9mb
CHG	20.51	281	ePd	40 05.20	-0.8
	0.9s	25.21nm			4.6mb
XAN	20.68	333	P	40 06.00	-1.6
	N 12s	1.80um			
	E 10s	0.40um			
			S	43 53.00	
AAI	21.06	157	eP	40 15.40	3.9X
SNG	21.10	248	eP	39 56.00	-15.9X
			eS	43 51.00	
CD2	21.17	318	P	40 12.10	-0.5
	Z 18s	1.50um			4.4Msz
	N 12s	1.80um			
			eS	44 04.00	
KGM	21.68	232	eP	40 22.00	4.2X
IPM	22.01	241	ePd	40 22.00	0.9
	0.7s	28.00nm			4.8mb
TIY	22.73	344	Pd	40 29.40	1.3
	1.2s	130.00nm			5.2mb
	Z 17s	2.16um			4.7MszX
	N 15s	2.20um			
			pP	40 40.00	41kmX
			S	44 30.00	
			sS	44 43.00	
DL2	22.88	3	eP	40 29.00	-0.5
	Z 18s	0.60um			4.1Msz
	N 13s	0.90um			
	E 10s	0.30um			
			sP	40 41.00	
			S	44 32.00	
GUMO	23.93	92	eP	40 41.00	1.2

29d 12h

		1.2s	183.33nm			5.5mb		QLP	48.30	151	eP	44	06.80	-1.0		Z	20s	0.20um			4.5Msz
PJG		23.93	92 eP	40	41.00	1.2		QUE	50.60	296	eP	44	24.50	-1.2				e	48	33.20		
TSRJ		24.04	33 P	40	40.60	-0.1					e	45	43.40					e	48	36.70		
BJI		24.24	352 eP	40	43.00	0.4		BRS	53.42	143	eP	44	54.00	7.4X		FUR		90.35	321 iPc	48	27.70	1.1
		1.2s	200.00nm			5.5mb		BWA	56.84	152	eP	45	11.90	0.6		OGA		91.05	320 eP	48	30.00	-0.1
	Z	20s	1.50um			4.5Msz		MAIO	57.25	303	iPd	45	14.00	-0.4				0.9s	27.00nm			5.7mb
			PcP	44	22.50				0.8s		23.79nm			5.3mb		WTS		91.24	325 eP	48	30.50	0.0
			eS	45	00.00						eS	53	24.00					0.8s	8.00nm			5.2mb
TSI		24.66	242 ePd	40	49.00	2.1		CAN	57.85	152	eP	45	18.40	0.0		OSS		91.67	320 ePd	48	33.40	0.5
PSI		24.78	240 ePd	40	48.00	-0.1		CNB	58.01	152	eP	45	19.10	-0.4		SAX		91.92	320 ePd	48	34.30	0.1
		0.7s	25.80nm			4.9mb		TOO	58.32	157	eP	45	22.10	0.5		VDL		92.18	320 ePd	48	35.70	0.4
LZH		24.80	327 iPd	40	49.50	1.3		ADK	61.02	39	eP	45	38.60	-1.4		SLE		92.21	321 ePd	48	34.90	-0.3
		4.0s	480.00nm			5.4mb X			1.0s		96.40nm			5.9mb		LLS		92.30	320 ePd	48	36.20	0.3
	Z	20s	1.70um			4.5Msz		TAB	67.77	305	eP	46	24.00	-0.5		ENN		92.31	325 eP	48	35.50	0.0
	N	14s	1.80um					ANM	69.00	26	ePd	46	32.60	1.2				0.8s	9.00nm			5.3mb
	E	12s	0.70um					TTA	73.08	28	ePd	46	57.00	0.9		ZLA		92.40	321 ePd	48	36.00	-0.1
			pP	40	55.50	21kmX			1.1s		86.10nm			5.6mb		CDF		92.64	322 eP	48	36.70	-0.5
			sP	40	59.40			SVW	73.34	30	ePd	46	58.80	1.3				1.1s	31.75nm			5.7mb
			eS	45	08.00			IMA	73.95	25	iPd	47	02.00	0.9		TMA		92.72	320 ePd	48	37.30	-0.4
			sS	45	18.00				0.7s		40.40nm			5.5mb		MAW		93.08	199 iP	48	39.90	1.4
IIDJ		25.04	36 P	40	49.80	-0.7		KDC	75.21	34	ePd	47	08.40	0.1		BSF		93.20	322 eP	48	39.10	-0.7
MTMJ		25.79	34 eP	40	56.60	-0.9		KVT	75.37	309	iP	47	08.80	-0.9				1.1s	19.55nm			5.4mb
HHC		25.91	345 P	40	59.00	0.4		KEV	76.26	339	eP	47	12.00	-2.1		MMK		93.31	320 ePd	48	41.10	0.6
	Z	16s	2.10um			4.8MszX		PMR	76.40	29	ePd	47	14.70	-0.3		DOU		93.38	324 Pc	48	41.00	0.6
	N	13s	1.60um						1.0s		78.00nm			5.6mb				1.0s	25.00nm			5.6mb
	E	13s	0.30um					FBA	76.51	26	ePd	47	15.70	0.1		DIX		93.64	320 ePd	48	42.50	0.4
			S	45	26.00				1.1s		48.80nm			5.4mb		EMS		93.94	320 ePd	48	43.90	0.5
SNY		25.93	6 Pd	40	57.70	-0.9		SOD	76.78	337	iP	47	16.70	-0.3		LPG		94.32	320 eP	48	45.00	-0.3
		1.0s	60.00nm			5.1mb		HRI	76.91	301	eP	47	19.00	0.4				0.7s	13.25nm			5.5mb
	Z	14s	1.18um			4.6MszX		KAS	77.02	310	iPd	47	19.30	0.3		LPL		94.32	320 eP	48	44.80	-0.4
	N	19s	2.26um					DSI	77.52	299	eP	47	22.00	0.2				0.7s	11.00nm			5.4mb
	E	15s	1.03um					TOA	77.70	29	ePd	47	23.70	1.4		LOR		95.21	322 eP	48	48.00	-1.0
			pP	41	06.20	30kmX		SUF	77.81	332	iP	47	22.70	-0.1				1.2s	14.90nm			5.3mb
			eS	45	25.00				0.6s		22.90nm			5.4mb		LBF		95.28	322 eP	48	48.70	-0.7
MAT		25.98	35 eP	40	57.00	-2.2		PRNI	78.09	298	iPd	47	25.00	0.0				0.9s	9.85nm			5.3mb
		0.8s	8.21nm			4.3mb X		MBH	78.30	298	eP	47	27.00	0.9		SSF		95.52	322 eP	48	49.60	-0.8
			eS	45	34.00			LFK	78.32	303	eP	47	26.30	0.0		AVF		95.75	322 eP	48	50.60	-0.9
CHJJ		26.06	36 P	40	58.20	-1.7		NUR	78.97	330	iP	47	29.00	-0.2				1.1s	9.75nm			5.2mb
BTO		26.10	342 P	41	00.50	0.2			0.9s		47.30nm			5.4mb		PNT		96.28	35 eP	48	55.00	1.2
	N	15s	1.50um					ALT	80.22	308	eP	47	35.00	-1.5		MAF		96.51	322 eP	48	54.60	-0.3
	E	13s	0.80um					YLV	80.44	309	iP	47	36.70	-0.9				0.7s	3.30nm			5.0mb
			sP	41	11.00			ELL	80.88	306	eP	47	38.10	-2.0		TCF		96.69	322 eP	48	55.20	-0.6
CN2		28.09	8 eP	41	17.00	-1.3		VRI	81.12	315	ePd	47	41.50	0.5				1.0s	6.00nm			5.1mb
	Z	24s	1.10um			4.4MszX		MBC	81.43	12	iPd	47	42.40	0.3		LDF		96.79	325 eP	48	55.60	-0.5
	N	14s	1.10um						0.9s		61.00nm			5.6mb				0.9s	9.85nm			5.3mb
	E	14s	0.40um					JMB	82.04	312	iPd	47	46.00	0.2		BUL		96.85	251 iPd	48	44.10	-12.9X
			PP	42	08.00			CMP	82.41	315	ePc	47	47.00	-0.8		FHC		98.02	44 ePKP	49	04.20	2.3
			eS	46	04.00			PVL	82.74	313	eP	47	50.00	0.6		NEW		98.24	35 P	49	04.00	1.3
YAMJ		28.16	34 P	41	18.90	-0.1		KDZ	83.08	311	eP	47	52.00	0.7				0.8s	6.67nm			5.2mb
GTA		29.40	327 Pd	41	30.10	-0.2		RZN	83.58	311	iPd	47	53.00	-1.0		WDC		99.09	43 ePKPc	49	08.20	1.5
	Z	20s	2.00um			4.7Msz		PGB	83.74	312	eP	47	56.00	1.3		MIN		99.82	43 ePKPc	49	11.00	0.8
	E	12s	0.90um					HFS	84.28	331	ePKP	47	55.70	-1.2		FRB		100.25	4 ePdiff	49	11.00	-0.2
			S	46	21.00				0.7s		20.10nm			5.3mb		ORV		100.29	44 ePdiff	49	13.20	1.1
MDJ		29.63	14 eP	41	31.50	-0.7		MMB	84.32	311	eP	47	57.00	-0.6		CMB		101.82	45 ePdiff	49	20.50	1.5
OFUJ		29.71	35 P	41	31.80	-1.1		DAG	84.33	351	iPd	47	56.00	-0.9		PRI		102.60	46 e(Pdif	49	23.60	1.0
LSA		29.99	302 P	41	34.20	-1.9			0.6s		88.67nm			6.0mb		KVN		102.80	43 Pdiff	49	24.90	1.4
MTN		30.59	159 eP	41	39.00	-1.9		KRA	84.36	320	ePd	47	57.50	0.0		FRI		102.82	45 e(Pdif	49	25.00	1.6
			e	44	38.00						e	48	03.50			TNP		103.91	43 Pdiff	49	29.40	0.9
ASAJ		33.88	29 eP	42	08.60	-0.8		SIT	84.38	32	eP	47	59.30	1.9				1.0s	5.00nm			5.3mb
KUSJ		34.17	33 eP	42	12.10	0.3		VTS	84.41	313	iPc	47	58.00	-0.2		ALQ		112.71	40 ePKP	54	03.80	1.0
PMG		36.69	132 eP	42	29.00	-4.5X		NB2	85.05	332	P	47	59.80	-1.0				0.9s	2.73nm			
MBL		36.90	181 eP	42	33.70	-1.5			1.1s		70.20nm			5.7mb		LKO		120.68	292 PKP	54	17.80	-0.6
WB5		38.24	158 eP	42	45.00	-1.5		VAY	85.23	311	iP	48	01.20	-0.9				0.9s	12.00nm			
			i	42	51.50			BUD	85.75	318	iP	48	04.50	-0.1		KIC		121.20	288 PKP	54	19.12	-0.3
			eS	48	31.20			SKO	85.84	312	iP	48	04.50	-0.6				0.8s	20.50nm			
WRA		38.29	158 Pd	42	44.90	-2.0					i	48	18.60			TIC		121.34	288 PKP	54	19.42	-0.2
		0.2s	3.70nm			4.9mb		SRO	86.10	319	iP	47	58.70	-7.5X				0.8s	14.00nm			
WMQ		39.14	322 P	42	54.00	0.1					e	55	25.20			LIC		121.51	288 PKP	54	19.66	-0.3
	Z	16s	1.39um			4.9MszX		KSP	86.30	322	ePd	48	07.50	0.3				0.8s	18.50nm			
	N	12s	0.78um						1.0s		55.00nm			5.7mb		UPA		148.41	40 ePKP	55	12.80	3.5X
	E	11s	0.58um								i	48	08.20			ITR		157.97	286 ePKP	55	32.50	9.8X
			S	48	50.50			ZST	86.73	319	iP	48	09.50	0.1		PEL		160.25	152 iPKPc	55	26.50	1.7
			ScS	53	00.00						e	55	24.40			ZOBO		171.96	93 PKP	55	36.80	1.9
HYB		39.90	278 eP	43	00.00	-0.4		PRU	87.66	322	Pd	48	14.00	0.2				1.1s	12.47nm			
		1.0s	40.00nm			5.2mb			1.5s		33.50nm			5.4mb		LPB		171.97	95 PKP	55	34.00	-0.7
QIS		40.98	152 iPc	43	08.20	-1.0		BRG	87.67	323	iPd	48	13.90	0.1			S.D. = 1.0 on 164 of 177 obs.					
GBA		41.40	273 Pd	43	12.10	-0.6			1.5s		44.00nm			5.5mb								
		1.1s	63.70nm			5.3mb					e	48	22.00			& MAY 29, 1990 13h 15m 11.91s						
KOD		41.99	268 iPc	43	18.80	0.8		CLL	88.05	323	iPd	48	15.40	-0.2		62.904 N 151.574 W						
		1.2s	12.50nm			4.5mb			1.2s		22.00nm			5.3mb		DEPTH = 1.9km						
MEKA		42.36	182 eP	43	20.50	0.1					e	48	23.00			CENTRAL ALASKA					(1)	
CTA		44.02	144 iPc	43	34.00	0.0		KHC	88.57	321	iP	48	18.90	0.7		<AGS-P>.						
		1.5s	63.89nm			5.1mb		WET	88.98	321	eP	48	20.50	0.3								
POO		44.28	280 iPc	43	35.00	-1.3		MOX	89.12	323	e(P)	48	20.00	-0.8		KTH		0.72	24 eP	15	25.62	-0.6
MRWA		45.11	185 eP	43	42.00	-0.6		BHG	89.55	320	iPc	48	23.40	0.5					eS	15	35.65	
BAL		46.43	184 eP	43	51.00	-2.0			1.3s		50.00nm			5.7mb		CUT		0.78	129 iP	15	26.86	-0.7
KLB		47.35	183 eP	43	59.00	-1.3		GRF	89.75	322	ePKPd	48	24.40	0.6		HUR		0.89	84 eP	15	28.45	-1.3

		eS	15 40.65		
SKT	0.93	179 iP	15 29.34	-1.1	
RND	1.33	67 eP	15 36.57	-0.8	
		eS	15 54.09		
MCK	1.45	54 eP	15 38.91	-0.3	
PWA	1.49	147 eP	15 38.74	-0.9	
		eS	16 01.80		
NCG	1.53	191 eP	15 40.00	-0.4	
CGLM	1.62	187 eP	15 41.37	-0.2	
CRP	1.67	190 eP	15 42.39	0.0	
		eS	16 04.13		
GHO	1.68	131 iP	15 41.90	-0.6	
		iS	16 04.50		
PLRM	1.74	138 eP	15 43.02	-0.3	
SPU	1.74	188 eP	15 43.36	-0.1	
SML	1.87	125 iP	15 44.84	-0.4	
		iS	16 09.31		
PMS	1.92	149 eP	15 46.15	0.2	
RDT	2.37	190 eP	15 53.83	1.3	
SLKM	2.49	164 eP	15 54.66	0.5	
TOA	2.63	105 eP	15 57.91	1.7	
GLI	2.94	132 eP	16 01.24	0.7	
KLU	3.00	116 eP	16 01.97	0.5	

20 obs. associated

? MAY 29, 1990 13h 43m 37.72± 8.74s
16.337 S ±88.3km 75.471 W ±71.7km
DEPTH = 33.0km (normal)
OFF COAST OF PERU (114)

PT03	2.35	352 iPd	44 15.40	0.5	
PT06	2.63	341 iP	44 19.50	0.7	
		iS	44 48.50		
PT02	3.50	344 eP	44 31.00	-0.2	
		e(S)	45 17.80		
ARE	3.82	92 eP	44 36.00	0.0	
		iS	45 22.00		
PT08	4.48	346 iPc	44 44.40	-1.0	
		eS	45 39.40		
PT10	4.48	341 e(P)	44 53.00	7.9X	
		eS	45 52.00		
ZOBO	7.06	90 eP	45 22.00	0.1	
		i	45 24.20		
		S	47 28.00		
LPB	7.08	93 P	45 22.00	-0.1	
CCH	8.99	98 P	45 59.70	11.1X	

S.D. = 0.7 on 7 of 9 obs.

? MAY 29, 1990 14h 04m 56.49± 7.96s
16.239 S ±78.3km 75.656 W ±66.5km
DEPTH = 33.0km (normal)
OFF COAST OF PERU (114)

PT03	2.24	357 iPc	05 32.70	0.7	
PT06	2.48	345 iP	05 34.20	-1.3	
PT02	3.36	347 eP	05 48.50	0.5	
		eS	06 34.70		
ARE	4.00	94 eP	05 58.00	0.6	
		iS	06 39.50		
PT10	4.33	343 e(P)	06 03.00	1.2	
		eS	07 08.50		
PT08	4.34	348 iPc	06 01.20	-1.0	
		eS	06 56.50		
ZOBO	7.23	91 P	06 42.00	-1.2	
LPB	7.26	93 P	06 44.00	0.6	

S.D. = 1.2 on 8 of 8 obs.

---

* MAY 29, 1990 14h 23m 12.13± 1.63s
36.367 N ±10.0km 140.975 E ±17.2km
DEPTH = 22.0 ± 11.4 km
4.3mb (2 obs.)
NEAR EAST COAST OF HONSHU, JAPAN (228)

KAKJ	0.67	256 P	23 27.90	2.9	
		S	23 35.30		
CHJJ	1.63	259 P	23 39.50	-0.3	
		S	23 55.70		
NIIJ	1.81	299 P	23 41.30	-1.0	
		S	24 01.20		
YAMJ	1.95	338 iP+	23 44.90	0.5	
		S	24 06.20		
MAT	2.24	275 iPd	23 47.30	-1.3	
		(S)	24 10.00		
MTMJ	2.56	276 P	23 52.80	-0.5	
IIDJ	2.64	251 P	23 55.60	1.3	
		S	24 24.40		
OFUJ	2.76	11 iP+	23 57.50	1.5	
		S	24 27.30		
TSRJ	4.13	260 P	24 15.40	-0.1	
AOMJ	4.21	354 P	24 18.10	1.5	
MRRJ	6.05	1 eP	24 41.50	-1.0	
		eS	25 48.40		
HOOJ	6.27	16 P	24 46.50	0.9	
		S	25 52.50		
KUSJ	7.31	22 P	24 59.10	-1.1	
		eS	26 15.40		
WB5	56.29	187 eP	32 52.50	-0.9	
WRA	56.35	188 P	32 54.00	0.1	
	0.6s	1.20nm		4.1mb	
GBA	60.81	266 Pd	33 33.70	8.6X	
	0.7s	3.10nm		4.5mb	

S.D. = 1.4 on 15 of 16 obs.

% MAY 29, 1990 15h 42m 54.54± 1.61s
36.613 N ±16.1km 23.728 E ±19.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.5 (ATH).

VLI	0.64	280 iPnc	43 07.50	0.1	
VAM	1.26	162 ePn	43 18.00	0.0	
ITM	1.55	292 iPn	43 22.00	-0.2	
VLS	2.95	303 ePn	43 42.50	0.2	
KEK	4.38	316 ePn	44 02.50	-0.1	

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

---

* MAY 29, 1990 16h 12m 08.56± 2.63s
31.849 S ±20.6km 70.012 W ±16.7km
DEPTH = 135.4 ± 26.5 km
CHILE-ARGENTINA BORDER REGION (127)

RTBS	0.51	69 iPc	12 28.50	0.0	
JACH	0.97	210 iPd	12 31.70	-0.3	
		iS	12 47.50		
RTCB	1.09	71 iPc	12 33.10	-0.1	
ZON	1.18	75 iPc	12 34.00	0.0	
		eS	12 51.00		
RTCV	1.26	91 ePd	12 34.70	-0.1	
PEL	1.41	204 iPd	12 36.50	0.1	
		iS	12 55.00		
RTLL	1.41	69 iPd	12 36.80	0.3	
MDZ	1.43	137 eP	12 57.20	20.6X	
FCH	1.49	189 iPd	12 38.00	0.3	
		iS	12 58.50		
CFA	1.53	81 iPc	12 37.60	-0.2	
		S	12 57.80		
PCH	1.82	193 iP	12 41.50	0.4	
		iS	13 04.70		
TACH	1.96	203 iPd	12 42.50	-0.3	
		iS	13 07.00		
LCCH	2.09	219 iP	12 45.00	0.7	
		iS	13 08.00		
LNV	2.41	209 iPc	12 47.50	-0.8	
		iS	13 15.10		

S.D. = 0.4 on 13 of 14 obs.

? MAY 29, 1990 16h 49m 37.91± 4.08s
37.576 N ±27.1km 20.703 E ±33.5km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.5 (ATH).

VLS	0.61	352 iPgd	49 48.70	-1.5	
		eSg	49 57.60		
ITM	1.05	112 ePg	49 57.50	-0.3	
VLI	1.98	115 ePg	50 15.40	3.6X	
KEK	2.25	342 ePg	50 21.70	6.0X	
NEO	2.63	48 ePn	50 20.50	-0.6	
OHR	3.53	1 ePn	50 35.00	1.1	
VAY	4.01	21 ePn	50 41.00	0.4	
SKO	4.43	7 ePn	50 42.00	-4.6X	

S.D. = 1.4 on 5 of 8 obs.

MAY 29, 1990 18h 31m 12.29± 0.11s
56.956 N ± 2.2km 153.569 W ± 2.0km
DEPTH = 24.7km (geophysicist)
5.9mb (80 obs.) 5.8Msz (33 obs.)
KODIAK ISLAND REGION (13)
ML 5.7 (PMR). Ms 5.9 (BRK), 5.5 (PAS). Felt (V) at Old Harbor; (IV) at Kodiak and Port Lions; (III) at Chiniak. Depth from broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 50 Dip=77 Slip= 90
NP2: 230 13 90
Principal Axes:
T Plg=58 Azm=320
P 32 140
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 2.6±0.6*10**12 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 36C
Centroid Location:
Origin Time 18:31:15.6 0.2
Lat 56.89N 0.04 Lon 153.09W 0.05
Dep 15.0 BDY Half-duration 4.0
Moment Tensor; Scale 10**18 Nm
Mrr= 0.38 0.02 Mtt=-0.25 0.03
Mff=-0.12 0.02 Mrt= 1.32 0.06
Mrf= 0.71 0.06 Mtf=-0.32 0.02
Principal Axes:
T Val= 1.51 Plg=53 Azm=337
N 0.12 4 241
P -1.63 37 148
Best Double Couple:Mo=1.6*10**18
NP1:Strike=212 Dip= 9 Slip= 61
NP2: 62 82 94

KDC	0.99	36 iPc	31 30.30	-0.1	
CDD	1.98	359 iP	31 46.62	1.8	
MCNL	2.27	350 iP	31 50.80	1.8	
AUE	2.41	2 eP	31 52.56	1.6	
AUL	2.43	2 eP	31 53.03	1.8	
XLV	2.69	21 eP	31 55.35	0.5	
CNPM	2.86	25 iP	31 57.16	-0.1	
PDB	2.86	354 iP	31 58.55	1.3	
BRLK	3.15	26 eP	32 00.99	-0.5	
		eS	32 57.70		
NNL	3.32	20 iP	32 03.93	0.2	
RED	3.50	6 iP	32 06.62	0.1	
RDT	3.68	9 iP	32 08.89	-0.1	
SEW	3.82	33 iP	32 08.31	-2.6X	
SLKM	3.97	25 iP	32 11.31	-1.7X	
NKA	3.99	17 eP	32 13.52	0.3	
SDN	4.20	250 eP	32 17.00	0.7	
SVW	4.30	347 iPc	32 18.50	0.8	
SPU	4.31	10 iP	32 17.31	-0.6	
MTU	4.35	43 eP	32 16.04	-2.3X	
CRP	4.38	9 eP	32 18.68	-0.4	
CGLM	4.44	10 eP	32 19.12	-0.7	
NCG	4.52	9 eP	32 20.30	-0.7	
MID	4.56	54 eP	32 17.30	-4.1X	
SUA	4.75	17 eP	32 22.17	-2.0X	
PMS	4.77	24 iP	32 22.37	-2.1X	
HIN	5.05	44 eP	32 24.66	-3.7X	
PWA	5.07	20 eP	32 26.73	-1.9X	
SKT	5.15	11 eP	32 28.25	-1.5X	
GLI	5.17	38 eP	32 25.94	-4.1X	
PLRM	5.18	24 eP	32 26.99	-3.1X	
PMR	5.18	24 ePc	32 27.30	-2.8X	
GHO	5.38	24 eP	32 30.65	-2.5X	
CVA	5.43	45 eP	32 30.00	-3.7X	
VZW	5.48	38 iP	32 30.83	-3.7X	
SML	5.55	27 eP	32 32.55	-2.9X	
VLZ	5.61	39 eP	32 32.81	-3.4X	
		eS	33 32.13		
SGAM	5.62	47 eP	32 32.95	-3.5X	
CUT	5.71	16 eP	32 37.03	-0.7	
RAGM	5.77	50 eP	32 34.57	-4.0X	
KLU	6.01	38 eP	32 38.25	-3.7X	
NCA	6.11	31 eP	32 40.50	-2.8X	
TTA	6.12	349 ePc	32 43.30	-0.2	
HUR	6.35	16 eP	32 45.22	-1.5X	
TOA	6.39	33 ePc	32 44.70	-2.6X	
WAX	6.59	53 eP	32 45.77	-4.4X	
CYK	6.60	57 eP	32 47.31	-2.8X	
TGL	6.75	51 eP	32 47.78	-4.6X	
KTH	6.75	10 eP	32 51.01	-1.3X	
RND	6.88	18 eP	32 51.22	-3.0X	
SDG	6.90	33 eP	32 52.76	-1.7X	
BALM	7.09	50 iP	32 52.95	-4.3X	
MCK	7.17	17 eP	32 56.00	-2.3X	

29d 18h

PAX		7.27	31	eP	32	56.70	-3.0X	CLC		32.03	116	eP	37	38.00	-0.8					e	41	24.00							
PCA		7.64	60	eP	33	00.79	-4.1X					e	40	30.00						ePP	41	53.80							
YKU		7.75	65	e(P)	33	02.20	-4.0X	SBB		32.82	117	eP	37	45.00	-0.7	IIDJ		49.67	275	P	40	03.80	0.0						
DDM		7.84	26	eP	33	08.23	0.6	GSC		32.83	115	eP	37	45.00	-0.8	CN2		50.27	292	iPc	40	07.00	-1.2						
BCPM		7.90	62	eP	33	03.64	-4.8X	MWC		33.08	118	eP	37	49.00	0.8			6.0s	1300.00nm				6.1mb X						
WRH		8.00	17	eP	33	06.59	-3.2X	PAS		33.09	118	iPd	37	47.29	-0.7		Z	19s	8.20um				5.8Msz						
HDA		8.14	21	eP	33	09.03	-2.8X					ipPd	37	54.57	25kmX		N	17s	8.40um										
HQN		8.15	66	eP	33	06.84	-5.1X					ePP	38	45.00			E	17s	1.90um										
CCB		8.21	18	eP	33	08.97	-3.7X					ePcP	39	34.00						pP	40	15.00	27kmX						
FBA		8.45	17	eP	33	12.30	-3.7X					eS	43	08.00						PP	42	03.00							
IMA		9.15	360	ePc	33	23.50	-2.3X					ePcS	43	50.00						S	47	20.00							
HYT		9.17	58	P	33	22.00	-4.1X					eLg	45	30.00		NAV		50.63	80	eP	40	09.00	-2.1						
ANM		9.55	328	eP	33	31.70	0.4					eLR	46	43.00		TSRJ		50.68	277	P	40	11.00	-0.4						
SIT		9.95	82	eP	33	30.50	-6.2X					eScS	48	19.00		BLA		50.91	80	eP	40	11.50	-1.7						
ADK		14.35	259	eP	34	35.20	-0.4	RVR		33.60	118	eP	37	52.00	-0.4			1.0s	55.00nm				5.4mb						
SMY		18.98	271	eP	35	34.50	0.4	TPC		34.16	116	eP	37	58.00	0.7	PNJ		51.54	72	iP	40	21.60	3.8X						
	Z	20s	28.00um					PLM		34.37	118	eP	37	59.00	-0.3	HRV		51.72	69	ePc	40	18.26	-1.0						
PGC		19.88	102	eP	35	44.00	-0.2	CPE		34.64	118	eP	38	04.10	2.7X					ipPd	40	25.21	23kmX						
YKA		20.16	58	eP	35	44.40	-2.8X	BAR		35.01	118	eP	38	05.00	0.4	WKYJ		51.88	276	eP	40	20.70	0.1						
		1.1s	145.00nm			5.2mb		IKP		35.31	117	eP	38	09.50	2.3	YONJ		52.31	278	eP	40	23.60	-0.2						
MCW		20.19	101	eP	35	47.00	-0.7	GOL		35.51	98	eP	38	09.00	-0.1	JSC		52.64	83	eP	40	24.20	-2.0						
GMW		20.90	104	eP	35	54.50	-0.4		Z	18s	10.40um			5.6Msz		SNY		52.64	291	iPc	40	25.00	-1.2						
BMW		21.35	106	eP	35	58.50	-1.0	GLD		35.56	98	eP	38	09.40	0.0			1.2s	300.00nm				6.1mb						
PNT		21.57	96	ePd	36	01.00	-0.7			1.4s	114.86nm			5.6mb			Z	18s	11.40um				6.0Msz						
		1.0s	574.00nm			6.0mb			Z	18s	18.40um			5.9Msz			N	20s	7.60um										
LON		21.92	104	iPd	36	05.05	-0.2	GLA		35.61	115	eP	38	10.00	0.3		E	14s	7.80um										
SHW		22.05	106	eP	36	08.00	1.3	HON		35.74	187	P	38	20.00	9.2X					sP	40	37.00							
COR		22.58	110	ePd	36	13.06	1.3		Z	20s	17.02um			5.8Msz						PP	42	22.00							
				ipP	36	22.00	32kmX	ANMO		38.43	104	iPd	38	33.93	0.3	LHS		52.73	82	eP	40	25.00	-1.9						
MBC		22.97	20	iPc	36	15.70	0.4			1.5s	69.44nm			5.2mb		TKSJ		52.90	277	eP	40	27.90	-0.3						
EDM		23.08	82	iPc	36	17.50	0.9		Z	18s	9.28um			5.6Msz		AKU		53.14	21	iPc	40	29.80	0.3						
		1.0s	280.70nm			5.7mb						ipPd	38	41.55	26kmX			1.0s	112.00nm				5.8mb						
FHC		25.01	118	eP	36	37.50	2.1					esP	38	44.86			Z	18s	11.00um				6.0Msz						
		1.1s	328.95nm			5.9mb						ePP	40	02.71		SHK		53.23	278	eP	40	30.50	-0.1						
SES		25.69	87	eP	36	41.00	-0.7	ALQ		38.44	104	eP	38	33.40	-0.3	MRX		53.45	112	(P)	40	33.50	1.2						
		1.1s	350.00nm			5.9mb				1.0s	31.75nm			5.1mb		KEV		53.59	360	iPc	40	32.09	-0.6						
				pP	36	52.00	42kmX		Z	18s	10.09um			5.7Msz				1.3s	445.30nm				6.3mb						
WDC		25.89	116	ePd	36	44.00	0.4					eS	44	32.00			Z	18s	7.60um				5.8Msz						
				ipP	36	57.10	53kmX	FRB		39.61	44	eP	38	41.00	-1.8					esP	40	42.19							
				isP	37	00.70				1.0s	93.00nm			5.5mb						ePP	42	36.73							
				ePcP	40	20.20		KUSJ		40.57	277	P	38	49.20	-1.7					e	48	02.00							
				e	40	27.80		ASAJ		41.01	280	P	38	54.50	-0.1					LR	04	08.00							
				eScP	43	49.40		GDH		41.62	32	iPc	39	02.93	3.7X	TRO		53.60	3	iP	40	32.60	-0.2						
				e	43	57.60						ePP	40	27.65		REY		53.69	24	iP	40	33.60	0.0						
LTCM		26.38	116	eP	36	49.50	1.4	HOOJ		41.82	278	P	39	00.90	-0.3	KTK1		54.32	1	iP	40	36.28	-1.9						
MIN		26.53	115	eP	36	49.10	-0.6	MRRJ		42.99	279	eP	39	10.60	-0.2	SHNJ		54.39	279	eP	40	38.30	-0.8						
				e	37	10.60		LNO		43.48	94	iP	39	15.50	0.8	LOF		54.86	6	eP	40	41.03	-1.1						
ORV		27.18	116	ePd	36	54.70	-0.8	TUL		43.48	94	eP-	39	15.80	0.9	PPM		55.30	110	(P)	40	48.00	1.5						
LRM		27.55	96	eP	36	59.00	-0.1			1.2s	100.00nm			5.5mb		III		55.45	111	(P)	40	46.50	-0.7						
BRK		28.13	119	eP	37	05.10	1.0		Z	19s	24.02um			6.1Msz		KUMJ		55.75	278	eP	40	49.00	0.0						
	Z	20s	32.00um			5.9Msz						eSKS	49	35.00		DL2		55.81	290	Pc	40	48.00	-1.3						
				eS	41	55.00						LR	54	00.00				7.0s	800.00nm				5.9mb X						
				eLR	44	12.00		DAG		43.52	14	iPc+	39	13.80	-0.9		Z	18s	8.20um				5.9Msz						
BKS		28.14	119	ePd	37	04.00	-0.2			0.9s	231.93nm			6.0mb			N	15s	5.60um										
		1.2s	219.00nm			5.8mb			Z	20s	20.99um			6.0Msz			E	16s	4.80um										
	Z	20s	31.00um			5.9Msz			N	19s	15.28um									PP	42	56.00							
	N	20s	12.00um						E	20s	4.54um					LVVM		55.87	107	(P)	40	38.00	-12.0X						
	E	20s	24.00um					KBS		44.10	4	iPd	39	20.30	0.9	SOD		55.99	360	iP	40	49.40	-0.9						
			eS	41	54.00			CCM		44.41	88	ePd	39	21.46	-0.9					i	41	01.40							
			eLQ	43	20.00							ipPd	39	27.92	22kmX	ACX		56.51	112	(P)	40	55.50	0.8						
			eLR	44	16.00							esP	39	30.57		KAGJ		56.75	277	eP	40	57.50	1.3						
FFC		28.49	72	eP	37	06.00	-1.2	AOMJ		44.66	278	P	39	26.10	1.7	BJI		57.71	295	iPc	41	01.93	-0.9						
		0.9s	11.00nm			4.6mb X		FVM		44.91	87	eP	39	24.80	-1.6			8.0s	870.00nm				5.8mb X						
MHC		28.85	119	e(P)	37	09.50	-1.3	OFUJ		45.00	275	P	39	27.10	-0.1		Z	16s	9.90um				6.0MszX						
ARN		28.90	119	eP	37	11.30	0.2	UYO		45.50	94	iPd	39	30.80	-0.4		N	14s	8.70um										
CMB		28.91	117	ePd	37	11.73	0.5	SCH		45.57	54	ePc	39	30.30	-1.2					isPd	41	13.19							
		1.3s	178.96nm			5.6mb				0.8s	56.00nm			5.5mb						eS	49	00.00							
				ipP	37	20.18	29kmX	YAMJ		46.54	276	P	39	39.30	0.0					esS	49	16.00							
GCC		28.93	120	e(P)	37	10.60	-0.7	MDJ		47.57	290	Pc	39	46.00	-1.4	OXX		57.94	109	(P)	41	04.50	-0.5						
KVN		29.27	112	eP	37	14.40	-0.2			1.2s	100.00nm			5.7mb		HHC		59.35	299	Pc	41	14.00	-0.5						
LLA		29.77	119	ePd	37	18.50	-0.4		Z	20s	20.10um			6.1Msz				7.0s	1300.00nm				6.2mb X						
PRS		29.79	120	ePd	37	18.30	-0.8		N	14s	6.40um						N	15s	5.60um										
FRI		30.07	117	eP	37	20.00	-1.5					pP	39	55.00	30kmX		E	15s	5.00um										
				ePcP	40	24.00						ePP	41	34.00						PcP	42	04.00							
				eScP	44	02.20		NIIJ		47.79	276	P	39	48.80	-0.3					PP	43	32.00							
PRI		30.28	119	ePd	37	23.70	0.2	KAKJ		47.90	274	P	39	49.40	-0.7	RGS		59.72	8	iPd	41	17.00	0.5						
TNP		30.45	113	eP	37	25.00	-0.2	PWLA		48.40	88	eP	39	52.70	-1.2	TIA		60.17	291	Pd	41	19.30	-0.7						
PKEM		30.61	119	eP	37	28.00	1.7	CHJJ		48.66	275	P	39	55.60	-0.4		Z	19s	8.80um				5.9Msz						
PHAM		30.66	119	eP	37	27.50	0.8	MAJO		48.73	276	iPc	39	55.61	-0.9		N	19s	5.50um										
BW06		31.11	98	eP	37	30.00	-0.9					isPd	40	06.20			E	10s	4.90um										
		1.0s	27.00nm			5.0mb		MAT		48.73	276	iPc	39	55.80	-0.7					eS	49	29.00							
DUG		31.17	105	eP	37	32.00	0.7			1.0s	86.00nm			5.7mb		BTO		60.28	299	P	41	20.00	-0.9						
		1.4s	65.27nm			5.3mb			Z	20s	5.32um			5.5Msz			N	15s	6.20um										
BCH		31.33	120	eP	37	33.35	0.6					eS	46	45.00			E	15s	7.00um										
ISA		31.72	117	eP	37	35.00	-1.2	MTMJ		48.92	276	P	39	58.50	0.5					pP	41	29.00	29kmX						
SYP		31.92	120	eP	37	39.00	1.0	HIA		49.25	300	iPc	39	59.36	-1.0					S	49	36.00							
ABL		32.02	119	eP	37	39.00	0.1					isPd	40	10.62						sS	49	51.50							

SUF		60.66	0	iP	41	22.10	-0.8	ETA		67.48	21	eP	42	07.00	-0.6				e		42	43.00							
		0.8s	57.10nm			5.8mb		YRH		67.65	20	eP	42	07.60	-1.1				S		52	07.00							
TIY		61.36	296	Pc	41	27.40	-0.8			1.1s	171.00nm			6.1mb		GRF		72.97	10	iPc	42	41.10	0.0						
		1.0s	90.00nm			5.9mb		ECP		67.94	21	eP	42	09.80	-0.7			1.0s	135.00nm			5.9mb							
	Z	14s	13.80um			6.3MszX				1.1s	257.00nm			6.3mb			Z	20s	2.00um			5.4Msz							
	N	14s	11.00um					QZH		68.31	283	Pc	42	12.50	-0.7				e		42	46.70							
ASK		61.71	12	iP	41	30.30	0.2		Z	19s	2.20um			5.4Msz					e		42	53.80							
NB2		61.74	8	P	41	29.00	-1.4		N	14s	1.80um					RAC		73.11	6	eP	42	42.00	0.2						
		0.8s	85.20nm			5.9mb			E	14s	1.80um					KRA		73.22	4	ePc	42	41.60	-0.8						
BER		61.82	12	iP	41	30.80	-0.1				pP		42	23.00	34kmX			1.0s	155.00nm			6.0mb							
SSE		62.04	285	Pc	41	32.00	-0.7				S		51	10.00			Z	20s	4.00um			5.7Msz							
		8.0s	1200.00nm			6.1mb	X				sS		51	31.50			E	20s	5.00um										
	Z	20s	3.20um			5.5Msz		WIT		69.40	13	eP	42	20.00	0.5				e		42	53.90							
	N	14s	2.60um					DBN		69.91	14	eP+	42	24.00	1.4				eS		52	10.00							
	E	14s	1.80um						Z	19s	4.50um			5.7Msz		GWF		73.28	13	eP	42	42.59	-0.3						
			S		49	58.00					ePP		45	00.00		GYA		73.30	293	P	42	43.00	-0.4						
			sS		50	12.00					eS		51	35.00			N	18s	4.10um										
NJ2		62.52	287	Pc	41	34.00	-1.9				eSS		56	16.00			E	18s	7.50um										
		7.0s	900.00nm			6.0mb	X	BRN		70.45	9	eP	42	47.00	21.1X	WET		73.67	9	iPc	42	45.00	-0.1						
	Z	16s	4.20um			5.7MszX		UCC		71.08	15	P	42	31.00	1.3			1.2s	172.00nm			6.0mb							
	N	16s	5.60um								S		51	45.00			Z	17s	2.00um			5.5MszX							
	E	18s	5.50um					CD2		71.08	298	eP	42	29.60	-0.5	KHC		73.74	9	iPc	42	46.00	0.4						
HFS		62.82	7	eP	41	36.20	-1.3			8.0s	1100.00nm			6.0mb	X			1.0s	132.00nm			5.9mb							
		0.8s	107.90nm			6.0mb			Z	17s	6.90um			6.0MszX			Z	18s	2.10um			5.5Msz							
	Z	16s	2.96um			5.6MszX			N	16s	9.40um						N	20s	1.96um										
			LR		09	09.00					S		51	45.00			E	20s	1.60um										
NUR		62.87	1	iP	41	37.00	-0.8				isS		52	02.50					e		42	57.80							
		0.8s	167.20nm			6.2mb		ENN		71.31	14	ePc	42	30.50	-0.7				S		52	18.00							
	Z	20s	8.90um			5.9Msz				1.1s	277.00nm			6.3mb		CDF		73.80	13	eP	42	45.62	-0.3						
			e		50	04.00		SNF		71.34	15	P	42	30.80	-0.5	WLS		73.81	13	eP	42	45.69	-0.3						
			e		51	42.00		MEM		71.48	14	Pc	42	31.70	-0.4	UPA		73.82	99	eP	42	44.10	-2.3						
			LR		13	24.00		CLL		71.53	9	iP	42	31.80	-0.7	VITF		73.82	14	eP	42	45.73	-0.2						
KONO		62.98	10	ePc	41	37.62	-0.9			1.3s	145.00nm			5.9mb		ECH		73.98	13	eP	42	46.76	-0.2						
			isPd		41	47.56			Z	17s	2.50um			5.5MszX		HAU		74.08	14	iPc	42	47.10	-0.4						
UPP		63.32	5	eP	41	36.00	-4.8X				i		42	43.10				0.8s	91.35nm			5.9mb							
			i		49	50.00					eS		51	48.00		BAG		74.16	276	eP	42	47.00	-1.6						
GUMO		63.32	253	eP	41	38.00	-3.3X	DOU		71.79	15	P+	42	33.70	-0.4				eS		52	20.00							
		0.8s	125.92nm			6.1mb				0.9s	175.00nm			6.1mb		PPN		74.28	176	eP	42	52.00	3.2X						
PJG		63.32	253	eP	41	39.00	-2.3				PP		45	15.00				1.2s	95.00nm			5.7mb							
ELO		64.34	18	eP	41	46.40	-1.2				S		51	53.00		BSF		74.31	14	eP	42	48.46	-0.5						
EDU		64.39	18	iPd	41	46.50	-1.3				SP		52	15.00		MOF		74.33	13	eP	42	48.74	-0.3						
		0.8s	114.00nm			6.1mb					SS		56	25.00		FEL		74.42	13	eP	42	48.88	-0.7						
EAB		64.50	18	iPd	41	47.60	-1.0	TPT		71.84	174	iP	42	36.10	1.5	MFF		74.45	19	iPc	42	49.50	-0.1						
EBH		64.59	18	iPd	41	47.60	-1.6			1.2s	145.00nm			5.9mb		LOR		74.45	16	iPc	42	49.20	-0.5						
EBL		65.12	18	iPd	41	52.00	-0.6	PMO		71.84	174	iP	42	36.50	1.9			0.9s	127.95nm			6.0mb							
		0.9s	122.00nm			6.0mb				1.2s	90.00nm			5.7mb		FUR		74.49	10	eP	42	50.00	0.1						
EKA		65.52	18	Pd	41	54.60	-0.6	BRG		72.04	8	iPc	42	34.60	-0.9			0.8s	120.00nm			6.0mb							
		1.0s	94.90nm			5.9mb				1.3s	180.00nm			5.9mb		SLE		74.58	12	ePd	42	50.40	0.0						
GTA		65.95	306	Pc	41	57.40	-0.9		Z	18s	2.50um			5.5Msz		SSF		74.60	16	iPc	42	50.20	-0.3						
		5.0s	1300.00nm			6.3mb	X		N	18s	2.50um					LBF		74.75	16	iPc	42	51.00	-0.4						
	N	16s	13.60um						E	18s	2.00um					BBS		74.76	13	eP	42	51.01	-0.5						
	E	17s	13.50um								e		42	46.00		LOMF		74.78	14	eP	42	51.47	-0.2						
			S		50	44.50					e		42	57.00		VKA		74.81	7	eP	42	46.00	-5.7X						
			sS		50	53.00					eS		51	57.00				5.0s	672.00nm			5.9mb	X						
XAN		66.01	296	P	41	58.00	-0.6	RUV		72.06	174	iP	42	37.40	1.5		Z	16s	1.80um			5.5MszX							
		8.0s	1100.00nm			6.0mb	X			1.2s	100.00nm			5.7mb					i		43	03.40							
	N	14s	5.50um					MOX		72.07	10	ePc+	42	35.50	-0.2				LR		22	27.00							
	E	14s	5.60um						Z	22s	2.90um			5.5Msz		AVF		74.84	16	iPc	42	51.40	-0.5						
WHN		66.06	289	Pc	41	58.20	-0.7		N	22s	2.50um					ZLA		74.85	13	ePd	42	52.20	0.2						
		1.0s	100.00nm			5.9mb			E	21s	1.80um					KMR		74.86	9	iP-	42	50.70	-1.3						
	Z	20s	5.00um			5.7Msz		BST		72.09	21	eP	42	33.68	-2.2				ePP		45	38.00							
	N	18s	6.80um					VAH		72.09	174	iP	42	37.60	1.5	ZST		74.93	6	iP	42	51.80	-0.6						
	E	18s	5.20um							1.2s	145.00nm			5.9mb					e		56	35.00							
			pP		42	08.00	31kmX	TNS		72.16	12	ePc	42	31.20	-5.1X	BGF		74.99	17	iPc	42	52.40	-0.4						
			S		50	48.00		KSP		72.24	7	iPc	42	36.00	-0.7	SMF		75.06	16	iPc	42	52.60	-0.6						
DCN		66.66	21	iPd	42	01.80	-0.6			0.8s	400.00nm			6.5mb		LSF		75.08	18	iPc	42	52.60	-0.7						
		0.8s	237.00nm			6.4mb		FLN		72.30	18	iPc	42	36.40	-0.7	BHG		75.08	9	iPc	42	53.30	0.0						
LZH		66.80	301	iPc	42	02.86	-1.0			1.1s	131.85nm			5.9mb				1.2s	310.00nm			6.2mb							
		7.0s	1480.00nm			6.2mb	X	HOF		72.42	10	iPc	42	37.30	-0.5	TCF		75.15	17	iPc	42	53.20	-0.5						
	Z	18s	17.30um			6.3Msz				0.8s	56.00nm			5.6mb		SAX		75.19	12	ePd	42	54.40	0.1						
	N	15s	10.30um					LDF		72.53	18	iPc	42	37.70	-0.7	KSH		75.27	322	P	42	56.00	1.4						
	E	16s	7.90um							1.1s	92.80nm			5.7mb			Z	19s	18.50um			6.4Msz							
			pP		42	12.50	31kmX	GRR		72.60	19	iPc	42	38.50	-0.3		E	16s	1.27um										
			isPd		42	14.12				1.0s	112.00nm			5.9mb		MAF		75.27	17	iPc	42	54.20	-0.2						
			PcP		42	35.00		GZH		72.60	286	P	42	38.00	-1.2	QCP		75.34	274	eP	42	56.00	0.8						
			ePP		44	33.65			Z	15s	4.30um			5.8MszX		PSZ		75.35	5	iP	42	55.40	0.5						
			S		50	56.00			N	20s	3.10um					SRO		75.38	6	iP	42	55.50	0.6						
			ScS		51	55.00			E	21s	5.40um					SOP		75.41	7	iPd	42	56.70	1.6						
			SS		55	15.00					S		52	03.50		LLS		75.52	12	ePd	42	56.60	0.5						
WMQ		67.26	317	iPc	42	06.44	-0.1	HKC		72.80	284	iP	42	45.00	4.6X	BUD		75.75	5	eP	42	57.00	0.0						
		6.0s	1950.00nm			6.4mb	X				iS		52	10.00		OGA		75.75	11	iPc	42	57.90	0.5						
	N	13s	3.71um					LPF		72.91	19	iPc	42	40.50	-0.2			1.0s	134.00nm			5.9mb							
	E	16s	15.30um							1.1s	190.45nm			6.0mb		OSS		75.83	11	ePd	42	58.40	0.6						
			isPd		42	17.53		PRU		72.97	8	Pc	42	40.90	-0.1	VDL		75.96	12	ePd	42	59.50	1.0						
			ePP		44	32.82			Z	18s	3.20um			5.6Msz		RJF		75.99	18	iPc	42	58.00	-0.5						
VAL		67.36	24	iP	42	06.20	-0.6		N	18s	3.60um							1.2s	136.85nm			5.9mb							
			S		51	03.00			E	19s	2.20um					EMON		76.03	25	iPd	42	58.70	-0.1						

29d 18h

EMS	76.06	14	ePd	42	59.70	0.6		1.1s	87.90nm		5.7mb		LCI	82.81	7	Pd	43	35.90	0.6
DIX	76.11	14	ePd	43	00.40	0.9	LRG	78.55	15	eP	43	13.00	0.4	YLV	82.81	358	iP	43	35.80	0.4
FVI	76.19	10	Pd	42	59.30	-0.2		1.1s	102.55nm		5.8mb		MGR	82.84	8	Pd	43	35.00	-0.4
MMK	76.21	13	ePd	43	01.10	1.1	LMR	78.68	15	eP	43	13.60	0.2	ACHM	82.87	24	iPc	43	37.01	1.3
LFF	76.22	18	iPc	42	59.60	-0.1		1.1s	92.80nm		5.7mb		ORI	82.98	8	Pd	43	37.20	1.0
TMA	76.26	12	ePd	43	00.80	0.6	SFI	78.75	11	Pd	43	16.00	2.3	MAIO	82.98	334	iPc+	43	37.30	0.9
STS	76.27	26	iPc	43	01.70	1.6	SDV	78.76	91	eP	43	14.80	0.3		0.8s	38.43nm			5.6mb	
HNR	76.35	227	eP	43	06.00	5.2X	PGD	78.78	11	Pd	43	15.50	1.3				eS	54	12.00	
KMI	76.37	295	iPc	43	00.35	-0.9	RSM	78.80	10	Pc	43	15.60	1.6	ATEJ	83.01	24	iPc	43	37.62	1.1
	5.0s	1000.00nm				6.1mb X	PII	78.81	12	P	43	13.30	-0.7	APHE	83.04	24	iPc	43	37.34	0.6
Z	17s	9.00um				6.1MszX	CRE	79.05	11	P	43	16.90	1.4	EDC	83.06	359	eP	43	36.50	-0.1
N	12s	1.00um					BUC1	79.07	0	ePc	43	16.00	0.6	GPA	83.07	357	eP	43	38.00	1.3
E	12s	0.80um					DAV	79.11	266	eP	43	17.00	0.9	MAL	83.10	25	iPc	43	38.00	1.2
		isPd	43	11.94			ETER	79.14	18	eP	43	16.10	0.2				iPP	46	50.00	
		ePP	45	53.43			ARV	79.27	10	P	43	17.30	0.7				iS	54	00.00	
		S	52	46.00			GUD	79.40	23	iPd	43	18.30	0.8	EJIF	83.12	25	iPc	43	38.20	1.3
CAF	76.45	18	iPc	43	00.80	-0.3	CAR	79.45	87	iP	43	24.00	5.9X	LOE	83.34	292	eP	43	39.00	0.7
VAI	76.49	13	Pc	43	01.20	0.0	EPLA	79.53	25	iPc	43	18.30	0.2	ENIJ	83.34	23	eP	43	38.60	0.5
LPO	76.54	18	iPc	43	01.40	-0.2	LLAV	79.54	87	eP	43	19.00	0.4	TDS	83.37	8	P	43	38.70	0.5
	1.0s	152.00nm				6.0mb	ASS	79.67	10	P	43	19.20	0.4	KEK	83.53	5	eP	43	39.00	0.0
LPL	76.57	14	iPc	43	02.80	0.8	ETOR	79.67	22	eP	43	19.10	0.2	CHG	83.56	295	ePc	43	39.00	-0.5
	1.1s	73.25nm				5.6mb	PSN	79.72	359	iPc	43	21.00	2.0		1.0s	42.25nm			5.6mb	
LPG	76.59	14	iPc	43	02.90	0.7	PGF	79.78	13	eP	43	19.60	0.1				eS	54	00.00	
	1.2s	110.10nm				5.8mb		1.0s	124.00nm		5.9mb		CHTO	83.56	295	iPc	43	38.18	-1.3
ORX	76.62	13	P	43	04.18	2.0	HVAR	79.88	7	iP	43	20.90	1.0				isPd	43	49.77	
CTI	76.62	11	Pd	43	01.50	-0.7	OLLA	79.92	87	eP	43	21.00	0.4	TAB	83.85	344	eP+	43	42.00	1.1
ORO	76.63	13	P	43	03.30	1.1	LIS	80.07	28	iPd	43	22.50	1.6	NEO	84.06	3	eP	43	41.50	-0.3
MDI	76.68	12	P	43	01.50	-0.8	TOL	80.16	23	iPc	43	22.15	0.7	NKM	84.09	26	iP	43	43.00	1.1
LSD	76.69	14	P	43	04.80	2.1				isPd	43	32.25					i	43	45.00	
BPA	76.82	79	eP	43	01.00	-2.5				ePP	46	24.73		MNI	84.20	264	ePd	43	43.00	0.3
VOY	76.85	9	eP	43	02.90	-0.5				ePPP	48	20.00		GRI	84.22	8	P	43	41.34	-1.2
LJU	76.89	8	eP	43	03.00	-0.5				iS	53	24.00			0.8s	187.80nm			6.4mb	
		eS	52	48.00			EBR	80.16	20	eP	43	20.00	-1.4	ALT	84.30	357	eP	43	43.00	-0.1
MGH	76.89	80	eP	43	04.00	0.1				eS	53	29.00		NOI	84.54	317	iPc	43	44.00	-0.3
EZAM	76.93	26	eP	43	04.30	0.5	PVL	80.19	1	eP	43	22.00	0.5		0.5s	70.42nm			6.1mb	
SAL	76.94	11	P	43	03.70	0.0	MNS	80.35	10	P	43	21.90	-0.6	ATN	84.79	9	P	43	45.00	-0.4
BNI	77.02	14	Pd	43	05.00	0.6	GUAN	80.60	86	iP	43	25.10	0.8	GIB	84.84	10	P	43	45.00	-0.7
ERUA	77.07	25	iPc	43	04.80	0.2	VTS	80.78	2	iPd	43	24.00	-0.9	BDT	84.86	294	eP	43	47.00	1.1
PTJ	77.14	7	eP	43	04.80	-0.2	AZI	80.82	10	P	43	23.50	-1.3		0.9s	48.40nm			5.7mb	
TRI	77.16	9	i(P)d	43	04.20	-0.7	PGB	80.84	2	eP	43	26.00	0.9	SOI	84.93	8	P	43	43.00	-3.0X
		e(PP)	45	58.00			RMP	80.92	10	P	43	27.00	1.5	MNO	84.96	9	P	43	41.50	-5.0X
		e(S)	52	36.00			JMB	80.95	360	iPd	43	26.00	0.5	IZM	85.01	359	iP	43	46.30	-0.2
		e(SPP)	53	56.00			RDP	80.98	10	P	43	25.50	-0.3	KHL	85.05	358	eP	43	46.00	-0.8
RRL	77.17	14	P	43	07.97	2.6X	ECHE	81.08	21	iPd	43	27.40	1.1	KKM	85.10	273	ePd	43	49.80	2.5
CEY	77.18	9	e(P)	43	02.80	-2.4	SDI	81.13	10	Pd	43	26.50	-0.1	TEH	85.28	340	eP	43	50.00	2.0
ZAG	77.22	7	eP	43	05.50	0.2	DUI	81.23	9	P	43	28.10	0.9	ATH	85.41	2	P	43	50.00	1.6
VBY	77.48	8	iPd	43	07.00	0.3	SKO	81.35	4	iPc	43	28.20	0.5				e	54	09.00	
DEV	77.49	3	iPc	43	08.00	1.2		0.7s	225.00nm		6.3mb		DZM	85.59	217	iPc	43	54.00	4.5X	
FISA	77.51	89	eP	43	08.00	0.6	Z	18s	2.61um		5.6Msz		TSM	85.59	271	eP	43	52.50	2.8	
VRI	77.54	360	ePd	43	08.00	0.9	N	19s	2.51um				NST	85.61	292	eP	43	51.00	1.3	
PZZ	77.62	14	P	43	10.23	2.5				iPP	46	26.00		AVE	85.64	28	eP	43	46.00	-3.7X
DOI	77.64	14	P	43	07.80	0.1				iS	53	37.00					i	44	12.00	
BOB	77.65	12	Pc	43	08.40	0.6				iPS	54	22.00		SMG	85.70	360	eP	43	49.00	-0.9
BZS	77.72	3	eP	43	07.50	-0.5				iSS	58	40.00		BCK	85.88	357	iP	43	51.10	0.2
TNR	77.75	2	ePc	43	08.00	-0.2				LR	27	13.00		MSL	85.95	347	ePc	43	51.00	-0.2
PAG	77.75	80	eP	43	07.00	-1.7	DIM	81.36	1	eP	43	28.00	0.3				e	47	13.50	
ATE	77.75	20	eP	43	08.48	0.2	ESEL	81.61	18	eP	43	29.60	0.5				eSKS	54	18.00	
PCP	77.76	13	P	43	08.79	0.4	EVIA	81.68	23	iPd	43	30.50	0.9				eSKKS	54	26.00	
ESCF	77.78	20	eP	43	08.29	-0.2	RZN	81.71	1	iPc	43	30.00	0.2	IFR	86.00	26	iP	43	52.00	0.3
QIZ	77.78	286	Pc	43	09.00	0.2	EVAL	81.73	26	eP	43	30.50	0.8				i	44	04.50	
N	15s	2.70um					KDZ	81.76	1	iPc	43	25.00	-4.8X	SLY	86.40	345	eP	43	54.00	0.6
E	15s	2.40um					MMB	81.80	2	ePc	43	31.00	1.0				i	44	19.50	
		eS	53	02.00			KAS	81.85	354	eP	43	30.00	-0.3				eSKS	54	18.00	
ISSF	77.79	20	eP	43	09.17	0.5	EBAN	81.86	24	iPc	43	31.30	0.9	ELL	86.61	357	eP	43	54.00	-0.6
CKI	77.85	13	P	43	08.60	-0.2	EHOR	81.86	25	eP	43	30.90	0.5	VLI	86.64	3	eP	43	53.50	-1.1
ECRI	77.86	21	eP	43	10.10	1.1	PMG	81.93	239	eP	43	32.50	1.5	AAI	86.67	258	ePd	43	55.60	0.6
JAU	77.86	20	eP	43	09.34	0.3	KVT	81.99	353	iP	43	31.40	0.3	QUE	86.68	326	eP	43	55.30	0.2
STV	77.90	14	P	43	10.13	0.9	VAY	82.04	3	iPc	43	31.50	0.3				e(S)	54	12.50	
MLR	77.92	0	iPd	43	00.00	-9.3X		0.8s	164.00nm		6.1mb						e	54	23.50	
ENR	77.93	14	P	43	07.87	-1.5	BSS	82.13	9	Pd	43	32.00	0.3	LFK	87.93	354	eP	44	00.90	0.0
LHE	77.93	20	eP	43	09.78	0.4	OHR	82.18	4	iPc	43	32.10	0.0	TIO	87.93	28	iP	44	00.50	-0.6
LSA	77.95	306	P	43	10.60	0.4		1.1s	353.00nm		6.3mb						i	44	24.00	
N	16s	5.65um								iPcP	43	44.30		VAM	87.98	2	eP	44	00.70	-0.3
E	16s	3.97um								i	43	55.10		CSS	88.25	354	eP	44	02.50	0.1
		S	53	04.00			BRT	82.22	7	P	43	30.00	-2.2	PPCY	88.38	355	eP	44	02.50	-0.5
EPF	77.99	19	iPc	43	09.00	-0.7	ACU	82.23	21	eP	43	33.50	1.1	NNT	88.42	291	eP	44	04.80	1.4
	1.0s	52.00nm				5.5mb	CTT	82.25	358	iP	43	33.30	0.9	BHD	88.84	345	ePc	44	08.00	2.8X
FIN	78.05	13	P	43	10.33	0.4	RDO	82.26	1	iPc	43	32.50	0.1				eSKS	54	36.00	
CFR	78.22	359	eP	43	11.00	0.3	ITU	82.28	358	iPc	43	48.00	15.5X				eSKKS	54	51.00	
BBL	78.27	80	eP	43	10.00	-1.6	ISK	82.32	358	eP	43	31.00	-1.7	HRI	89.78	352	eP	44	11.00	1.2
SBF	78.29	14	eP	43	11.30	0.0	SGO	82.40	9	P	43	34.00	0.9	DSI	91.50	352	e(P)	44	15.00	-2.6
IMI	78.30	14	P	43	12.08	0.7	HRT	82.55	358	eP	43	31.00	-3.0	CTA	91.69	235	iPc	44	21.70	3.2X
MME	78.36	11	P	43	12.20	0.3	AAPN	82.61	24	iPc	43	35.75	1.3		1.2s	31.25nm			5.6mb	
BEO	78.47	4	eP	43	11.50	-0.7	ASMO	82.64	24	iPc	43	35.55	0.9				iS	55	17.00	
TOV	78.47	90	eP	43	14.10	1.3	EPRU	82.68	25	eP	43	36.90	2.2	SNG	92.54	287	eP	44	21.20	-1.4
BDI	78.48	12	P	43	12.30	-0.1	AFC	82.79	24	iPc	43	36.10	0.7				eS	54	57.50	
FRF	78.48	15	eP	43	12.20	-0.1	ALOJ	82.80	24	iPc	43	36.59	1.1	MTN	92.82	251	eP	44	23.00	-0.7

		e	44 45.00		
MBH	93.32	353 eP	44 25.00	-1.0	
HLW	93.43	356 eP+	44 28.00	1.5	
		ePP	45 05.00		
		ePPP	50 24.00		
		eS	55 00.50		
HYB	94.14	311 eP	44 28.50	-1.5	
	1.0s	50.00nm		5.9mb	
IPM	94.52	285 ePd	44 35.40	3.7X	
POO	95.01	315 iPd	44 34.20	0.2	
BRS	95.40	226 eP	44 38.00	2.6	
		e	56 02.00		
		e	02 00.00		
RMQ	96.23	230 eP	44 41.00	1.8	
		e	44 56.00		
WB5	97.12	244 eP	44 43.70	0.4	
		e	48 30.00		
WRA	97.19	244 Pc	44 44.40	0.8	
	1.1s	4.90nm		5.0mb	
GBA	98.03	310 Pc	44 45.90	-1.7	
	0.7s	16.20nm		5.7mb	
AFIF	98.03	345 ePc	44 49.70	1.9	
ZOBO	101.02	103 Pdiff	45 01.00	-0.8	
Z	20s	0.41um		4.9Msz	
		i	49 16.00		
		LR	58 16.00		
KOD	101.04	309 ePdiff	45 02.00	0.4	
LPB	101.25	103 Pdiff	45 12.00	9.4X	
CCH	103.00	102 (Pdiff	45 24.00	13.8X	
BUL	143.20	357 iPKPc	50 29.00	-16.8X	
SPA	146.78	180 ePKP	50 48.30	-2.1	
	1.0s	205.00nm			
Z	20s	1.98um		5.9Msz	
SLR	148.78	357 iPKPc	50 54.00	-0.9	
	1.0s	175.00nm			
KSR	148.93	359 ePKP	50 53.50	-1.7	
	1.0s	40.00nm			
PRY	149.98	358 ePKP	50 55.00	-1.7	
	0.9s	38.46nm			
POF	152.06	12 ePKP	51 01.50	2.0X	
	1.0s	25.00nm			
FRS	152.79	2 ePKP	51 06.50	6.0X	
TUH	155.82	15 ePKP	51 06.00	1.4	
	1.0s	50.00nm			
CRZF	161.16	293 ePKP	51 10.00	-0.2	
		ePP	55 15.00		
		eSKKS	02 00.00		
		e(SP)	06 20.00		
		eSPP	07 55.00		
		eSS	14 20.00		

S.D. = 1.0 on 435 of 509 obs.

---

* MAY 29, 1990 18h 46m 34.79± 1.27s
56.641 N ±11.3km 152.817 W ± 8.8km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
KODIAK ISLAND REGION (13)

KDC	1.12	9 iPc	46 55.70	1.5	
CDD	2.34	349 eP	47 12.70	1.0	
		eS	47 41.13		
MCNL	2.68	343 eP	47 16.62	0.1	
		eS	47 47.34		
AUE	2.74	354 eP	47 19.19	1.8	
AUL	2.77	353 eP	47 19.23	1.5	
XLV	2.88	11 eP	47 20.89	1.5	
CNPM	3.01	16 eP	47 22.51	1.2	
PDB	3.24	348 eP	47 24.20	-0.3	
NNL	3.50	13 eP	47 29.32	1.0	
RED	3.79	0 eP	47 32.61	0.3	
SEW	3.90	26 eP	47 32.81	-1.0	
RDT	3.95	3 eP	47 34.51	-0.1	
SLKM	4.11	18 eP	47 36.86	0.0	
SDN	4.50	256 eP	47 42.30	-0.1	
SPU	4.57	5 eP	47 42.80	-0.7	
CRP	4.65	4 eP	47 44.74	0.0	
CGLM	4.70	5 eP	47 45.62	0.3	
SVW	4.71	343 ePc	47 44.20	-1.2	
NCG	4.79	4 eP	47 46.45	-0.1	
PMS	4.92	19 eP	47 48.91	0.6	
SUA	4.95	12 eP	47 48.72	-0.2	
GLI	5.19	33 eP	47 51.39	-0.8	
PMR	5.32	19 eP	47 54.70	0.8	
SKT	5.40	6 eP	47 53.88	-1.2	
VZW	5.49	34 eP	47 55.89	-0.6	
VLZ	5.62	34 eP	47 58.16	0.0	
SML	5.67	22 eP	47 57.45	-1.5	
TOA	6.44	29 eP	48 09.90	0.0	
TTA	6.51	347 ePc	48 08.70	-2.1	
FBA	8.64	14 eP	48 39.50	-0.9	
IMA	9.47	358 eP	48 49.80	-2.2	
ANM	10.04	327 eP	49 02.50	2.8X	
MBC	23.13	20 eP	51 41.00	2.7X	
NB2	61.99	9 P	56 54.00	0.6	
	0.7s	1.10nm		4.1mb	
HFS	63.08	8 eP	57 01.20	0.7	
	0.4s	0.50nm		4.0mb	

S.D. = 1.1 on 33 of 35 obs.

MAY 29, 1990 18h 53m 50.21± 0.33s
44.985 N ± 3.5km 11.077 E ± 3.5km
DEPTH = 33.0km (normal)
NORTHERN ITALY (545)
ML 3.2 (LDG).

SAL	0.73	328 P	54 03.80	-0.3	
		eSn	54 15.20		
BDI	0.98	201 Pd	54 08.30	0.5	
		eSn	54 23.00		
CTI	1.14	21 Pc	54 09.60	-0.4	
		iSn	54 26.40		
BOB	1.18	260 P	54 12.10	1.6	
		eSn	54 29.50		
SFI	1.20	152 Pc	54 11.00	0.3	
		eSn	54 28.00		
PGD	1.20	157 P	54 11.40	0.5	
		eSn	54 27.90		
MDI	1.25	310 P	54 12.50	1.1	
		eSn	54 30.80		
PII	1.32	198 P	54 12.50	0.0	
		eSn	54 31.60		
CRE	1.50	155 P	54 16.10	1.0	
		eSn	54 35.00		
OSS	1.82	339 ePc	54 22.20	2.3	
VAI	1.85	299 P	54 20.70	0.6	
		eSn	54 45.00		
VDL	1.88	324 ePd	54 21.90	1.2	
TMA	1.91	307 ePd	54 22.00	0.8	
ARV	2.00	137 P	54 22.50	0.1	
FVI	2.00	36 P	54 21.90	-0.4	
		eSn	54 47.40		
TRI	2.03	68 eP	54 21.70	-1.0	
		i	54 25.60		
		i	54 45.50		
		i	54 52.80		
		i	55 01.00		
CKI	2.07	255 P	54 24.00	0.7	
		eSn	54 50.30		
SCE	2.10	12 iPnd	54 24.70	0.8	
ASS	2.23	149 P	54 25.00	-0.6	
VOY	2.24	61 ePn	54 24.30	-1.5	
		eSg	54 58.70		
ORO	2.28	287 P	54 26.50	0.2	
		eSn	54 56.00		
LLS	2.38	323 ePd	54 31.30	3.4X	
MMK	2.43	297 ePd	54 32.50	3.7X	
CEY	2.48	71 e(Pn)	54 34.50	5.3X	
		e(Sn)	55 08.00		
SAX	2.57	333 ePc	54 32.60	2.0	
LJU	2.65	65 ePn	54 36.90	5.3X	
		eSn	55 12.00		
DOI	2.77	261 P	54 34.00	0.7	
		eSn	55 07.00		
DIX	2.80	294 ePd	54 36.50	2.6X	
SBF	2.84	248 Pn	54 34.80	0.5	
		Sn	55 09.00		
PGF	2.86	212 Pn	54 33.70	-0.9	
		Sn	55 06.80		
LPG	3.10	281 Pn	54 38.20	0.0	
LPL	3.11	281 Pn	54 38.40	0.0	
BNI	3.12	273 P	54 39.00	0.6	
		eSn	55 15.00		
SLE	3.31	328 ePd	54 41.10	0.2	
FRF	3.49	247 Pn	54 42.50	-0.9	
		Sn	55 23.40		
ZAG	3.55	75 eP	54 45.20	0.8	
LMR	3.68	245 Pn	54 45.00	-1.1	
		Sn	55 27.20		
BSF	4.11	315 Pn	54 50.20	-2.2	
		Sn	55 37.80		
CDF	4.31	324 Pn	54 54.40	-0.8	
		Sn	55 43.00		
HAU	4.45	314 Pn	54 56.80	-0.3	
		Sn	55 45.40		
KHC	4.49	22 ePn	54 50.40	-7.3X	
		Pg	54 55.00		
		eSg	55 40.00		
GRF	4.71	1 ePg	55 18.60	17.8X	
		e(Sn)	55 59.10		
SMF	5.32	291 Pn	55 08.30	-1.2	
LBF	5.34	295 Pn	55 08.40	-1.3	
LOR	5.51	297 Pn	55 10.20	-1.9	
AVF	5.69	291 Pn	55 13.00	-1.5	

S.D. = 1.1 on 39 of 46 obs.

---

* MAY 29, 1990 19h 46m 13.41± 1.15s
30.234 S ± 6.9km 71.792 W ±12.8km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
Felt (III) at Coquimbo, La Higuera, Vicuna, La Serena and Ovalle.

JACH	2.65	158 iPd	46 56.00	1.2	
		iS	47 28.00		
IHA	2.79	177 eP	47 01.50	4.9X	
		i(S)	47 38.00		
RTCB	2.86	117 iP	46 58.20	0.4	
ZON	2.98	117 eP	46 59.00	-0.5	
PEL	3.05	162 eP	47 01.00	0.5	
		i	47 04.50		
		i(S)	47 40.00		
RTLL	3.06	112 ePd	47 00.10	-0.5	
RTCV	3.23	121 e(P)	47 03.50	0.5	
LCCH	3.24	177 eP	47 02.50	-0.6	
		iS	47 45.50		
FCH	3.34	158 iP	47 06.50	1.6	
		iS	47 47.10		
CFA	3.35	115 ePc	47 04.60	-0.1	
SAN	3.35	164 eP	47 02.50	-2.3	
		iS	47 49.50		
		i	47 53.00		
TACH	3.49	168 iP	47 06.50	-0.2	
PCH	3.55	162 iPd	47 08.60	1.0	
		iS	47 59.50		
MDZ	3.64	137 eP	47 16.40	7.5X	
		eS	48 13.80		
LNV	3.72	175 ePd	47 09.00	-1.0	
		iS	47 57.00		
ANT	6.62	11 e(P)	46 50.70	-60.2X	
ZOBO	14.30	14 P	49 37.50	1.4	
SIV	17.25	37 P	50 12.00	-1.5	

S.D. = 1.2 on 15 of 18 obs.

? MAY 29, 1990 19h 56m 55.84± 4.54s
10.019 N ±16.9km 84.157 W ±33.0km
DEPTH = 39.5 ± 36.6 km
4.7mb (2 obs.)
COSTA RICA (78)
Felt in northern Costa Rica and at San Jose.

DVD	2.30	133 iPd	57 01.40	-30.8X	
UPA	4.67	102 iPd	58 05.40	-0.5	
	0.8s	8955.22nm			
		S	59 58.40		
UYO	25.82	340 e(P)	02 26.20	0.9	
ZOBO	30.56	149 eP	03 10.00	1.1	
SIV	34.50	138 P	03 42.60	0.0	
FRB	54.78	8 eP	06 23.00	-0.7	
MBC	68.87	351 eP	07 58.00	-0.1	
NB2	83.91	29 P	09 23.60	0.8	
	1.1s	5.90nm		4.6mb	
HFS	85.28	30 eP	09 29.70	0.1	
	0.8s	5.20nm		4.8mb	
WRA	141.61	251 PKP	16 24.00	-1.7	
	0.7s	1.20nm			
HYB	147.83	32 ePKPc	16 39.50	3.4X	
	1.0s	25.00nm			

S.D. = 1.1 on 9 of 11 obs.

---

* MAY 29, 1990 20h 04m 44.12± 1.52s
36.370 N ±17.7km 26.959 E ± 8.9km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	1.31	54 ePn	05 07.00	-1.4	
SMG	1.34	356 eP	05 09.20	0.4	
KSL	2.14	96 eP	05 16.00	-4.3X	
ELL	2.40	80 eP	05 24.00	-0.3	
VAM	2.44	248 eP	05 29.50	4.9X	

29d 20h

BCK	3.11	68	eP	05 35.60	1.5	
VLI	3.26	277	eP	05 36.00	-0.3	
S.D. = 1.5 on 5 of 7 obs.						

---

* MAY 29, 1990 20h 25m 27.91± 1.23s
9.858 S ±13.5km 161.254 E ±14.4km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
SOLOMON ISLANDS (193)

DZM	13.13	158	iPc	28 35.00	0.2	
PMG	13.91	271	eP	28 46.50	1.5	
CTA	17.69	233	iPc	29 32.80	-0.7	
	0.8s		29.10nm		4.5mb	
RMQ	20.33	214	eP	30 04.00	-0.2	
QIS	23.41	240	eP	30 35.30	0.3	
	0.6s		14.00nm		4.6mb	
CMS	25.85	211	eP	30 57.80	-0.4	
WB5	27.79	246	eP	31 14.90	-1.3	
WRA	27.83	246	Pc	31 19.40	2.9X	
	0.4s		2.20nm		4.2mb	
MAT	50.99	336	(P)	34 28.00	-0.7	
MAW	84.14	202	iP	37 58.00	1.3	
S.D. = 1.1 on 9 of 10 obs.						

MAY 29, 1990 20h 45m 32.74± 0.61s
37.120 N ± 6.3km 26.629 E ± 4.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.8 (ATH).

SMG	0.61	16	iPgc	45 44.80	-0.2	
YER	1.32	89	iPn	45 54.50	-2.7	
IZM	1.37	21	iPn	45 57.30	-0.6	
ATH	2.47	291	ePb	46 15.10	1.5	
KSL	2.58	112	ePn	46 16.00	0.8	
KHL	2.59	62	ePn	46 15.00	-0.5	
VAM	2.60	230	ePn	46 14.70	-0.9	
ELL	2.65	97	iPn	46 17.20	0.8	
EZN	2.71	355	iPn	46 17.50	0.4	
VLI	2.99	263	ePn	46 20.80	-0.2	
BCK	3.18	83	ePn	46 25.10	1.3	
ALT	3.36	54	ePn	46 27.00	0.6	
EDC	3.36	16	ePn	46 28.40	2.0	
KGT	3.37	9	iPn	46 25.70	-0.7	
NEO	3.46	310	ePn	46 28.40	0.7	
ITM	3.76	272	ePb	46 35.50	3.5X	
YLV	4.05	31	ePn	46 40.00	3.8X	
KDZ	4.62	349	iPc	46 44.00	-0.2	
RZN	4.80	343	iPc	46 46.00	-0.9	
MMB	5.00	334	ePd	46 49.00	-0.6	
PGB	5.74	342	iP	46 59.00	-1.1	
VTS	6.06	335	iP	47 05.00	0.3	
S.D. = 1.1 on 20 of 22 obs.						

% MAY 29, 1990 20h 52m 02.24± 0.86s
41.830 N ±10.6km 13.212 E ± 5.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

AZI	0.23	46	P	52 07.80	0.6	
			eSg	52 11.00		
RDP	0.38	259	Pd	52 10.20	0.2	
			eSg	52 16.10		
RMP	0.38	267	P	52 10.30	0.2	
			eSg	52 16.00		
SDI	0.47	105	P	52 11.40	-0.4	
			eSg	52 19.60		
MNS	0.68	325	Pd	52 15.10	-0.7	
			iSg	52 25.70		
S.D. = 0.7 on 5 of 5 obs.						

MAY 29, 1990 22h 52m 03.65± 0.58s
44.139 N ± 3.4km 6.244 E ± 4.9km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG). MD 2.3 (STR).

CALN	0.61	129	Pg	52 15.86	0.1	
			Sg	52 25.18		
FRF	0.65	153	Pg	52 16.60	0.0	
			Sg	52 25.40		
LRG	0.69	173	Pg	52 17.90	0.5	
			Sg	52 27.90		
MVIF	0.70	110	Pg	52 17.91	0.3	
PZZ	0.72	59	P	52 17.63	-0.3	
			S	52 27.68		
STV	0.78	82	P	52 18.97	-0.4	
			S	52 29.24		
DOI	0.81	63	P	52 18.00	-1.8	
			eSg	52 28.00		
AURF	0.82	107	Pg	52 20.15	0.1	
			Sg	52 33.89		
LMR	0.83	166	Pg	52 20.00	-0.1	
			Sg	52 32.10		
ENR	0.85	84	P	52 20.00	-0.6	
			S	52 30.93		
AUTN	0.86	99	Pg	52 21.11	0.2	
			Sg	52 35.32		
RRL	0.87	26	P	52 21.22	0.2	
			S	52 32.47		
SBF	0.90	107	Pg	52 20.50	-0.9	
			Sg	52 32.60		
REVF	0.90	116	Pg	52 21.78	0.3	
			Sg	52 35.65		
IMI	1.21	100	P	52 28.09	1.4	
			S	52 43.55		
RSP	1.24	35	P	52 27.78	0.5	
			S	52 42.78		
LPG	1.41	15	Pg	52 29.70	-0.5	
			Sg	52 48.00		
FIN	1.41	86	P	52 30.55	0.4	
			S	52 47.71		
LPL	1.42	14	Pg	52 30.00	-0.4	
			Sg	52 48.90		
LSD	1.47	26	P	52 32.40	1.3	
			S	52 50.48		
PCP	1.70	75	P	52 35.78	1.6	
			S	52 55.40		
PGF	2.56	127	Pn	52 45.10	-1.5	
			Sn	53 14.00		
CAF	3.09	286	Pn	52 53.80	-0.2	
			Sn	53 30.20		
S.D. = 0.9 on 23 of 23 obs.						

? MAY 29, 1990 23h 17m 26.90± 2.19s
44.630 N ±12.5km 6.867 E ±25.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

PZZ	0.21	127	P	17 31.59	0.0	
			S	17 34.84		
RRL	0.30	349	P	17 33.19	0.0	
			S	17 37.59		
ENR	0.57	135	P	17 38.41	0.0	
			S	17 45.70		
RSP	0.59	28	P	17 38.92	0.0	
			S	17 46.54		
S.D. = 0.1 on 4 of 4 obs.						

? MAY 29, 1990 23h 33m 46.56± 2.46s
5.207 S ±40.5km 129.550 E ±43.0km
DEPTH = 197.6 ± 37.1 km
BANDA SEA (280)

AAI	2.03	318	eP	34 25.50	0.0	
MTN	7.75	168	eP	35 37.60	0.0	
			eS	37 04.00		
WB5	15.32	163	eP	37 14.00	-0.1	
			i	37 17.80		
			eS	40 01.00		
WRA	15.37	163	Pc	37 14.90	0.1	
MBL	18.45	210	iPd	37 49.90	0.0	
WARB	21.04	187	eP	38 19.50	3.4X	
S.D. = 0.2 on 5 of 6 obs.						

MAY 30, 1990 00h 47m 24.17± 0.57s
43.104 N ± 6.5km 0.568 W ± 4.1km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.3 (LDG).

ESCF	0.03	191	Pg	47 25.90	-0.3	
			Sg	47 27.22		
OGE	0.09	47	Pg	47 26.78	-0.1	
			Sg	47 28.91		
ATE	0.10	260	Pg	47 26.87	0.0	
			Sg	47 28.84		
JAU	0.16	114	Pg	47 28.37	0.4	
			Sg	47 30.99		
ISSF	0.18	245	Pg	47 28.65	0.3	
MADF	0.19	283	Pg	47 28.37	0.0	
			Sg	47 32.83		
LHE	0.19	192	Pg	47 28.45	-0.1	
			Sg	47 31.40		
EPF	0.67	96	Pg	47 37.30	-0.2	
			Sg	47 46.90		
LPO	2.03	38	Pg	48 02.30	3.6X	
			Sg	48 28.70		
LFF	2.06	27	Pg	48 03.50	4.2X	
			Sg	48 30.60		
S.D. = 0.3 on 8 of 10 obs.						

---

* MAY 30, 1990 01h 21m 22.20± 0.83s
6.250 S ± 9.2km 130.169 E ± 9.8km
DEPTH = 218.8 ± 8.9 km
4.7mb (6 obs.)
BANDA SEA (280)

MTN	6.62	172	iPd	22 59.20	0.8	
WB5	14.15	164	iPd	24 26.00	-8.5X	
			eS	26 57.00		
WRA	14.20	164	Pd	24 26.80	-8.4X	
	0.5s		44.20nm		5.1mb	
QIS	16.91	148	iPc	25 02.40	-5.4X	
	0.2s		29.00nm		5.4mb	
			iS	27 59.20		
PMG	17.12	102	eP	25 08.00	-1.9	
MBL	17.89	213	iPc	25 16.70	-1.4	
	0.3s		7.00nm		4.6mb	
			iS	28 23.70		
KKM	18.52	311	ePd	25 24.00	-0.9	
WARB	20.11	189	iPd	25 41.00	0.2	
CTA	20.81	133	eP	25 49.00	1.1	
NANU	21.51	220	iPc	25 54.80	0.2	
MRWA	26.48	209	eP	26 40.90	-0.3	
			eS	31 38.00		
RMQ	26.81	141	eP	26 45.60	1.3	
BAL	27.33	206	eP	26 48.70	-0.2	
KLB	27.76	203	iPd	26 52.50	-0.2	
MUN	28.73	205	eP	27 01.00	-0.4	
			eS	32 36.00		
ADE	29.64	166	eP	27 09.10	-0.3	
BRS	30.06	137	iPd	27 12.00	-1.2	
SNG	32.36	294	eP	27 38.40	5.1X	
TOO	34.16	158	eP	27 49.90	1.4	
	0.8s		12.00nm		4.6mb	
BDT	38.65	308	eP	28 28.10	1.8	
CHG	39.59	310	iPc	28 35.30	1.2	
	0.9s		12.60nm		4.4mb	
GBA	55.94	291	Pc	30 39.00	-1.3	
	0.7s		8.70nm		4.5mb	
MAW	75.71	201	iP	32 58.80	14.0X	
KSP	109.80	322	ePKP	39 28.50	-0.2	
			e	41 07.50		
S.D. = 1.2 on 19 of 24 obs.						

MAY 30, 1990 01h 32m 05.44± 0.18s
36.463 N ± 4.5km 70.396 E ± 3.4km
DEPTH = 203.9km (3 depth phases)
4.7mb (55 obs.)
HINDU KUSH REGION (718)

QUE	6.89	206	eP	33 45.60	0.4	
			eS	35 02.70		
MAIO	8.79	272	eP	34 07.00	-3.0	
			eS	36 05.00		
NDI	9.66	142	iPd	34 19.70	-1.3	
	1.0s		160.00nm		5.3mb	
WMQ	15.12	56	P	35 29.00	-1.1	
	2.0s		630.00nm		5.7mb	
			S	38 11.00		
TEH	15.39	273	eP	35 16.00	-17.5X	
POO	18.12	169	iPd	36 04.30	-0.5	
	1.0s		236.00nm		5.6mb	
LSA	18.64	105	P	36 10.80	0.2	
TAB	19.22	282	e(P)	36 19.00	2.8	
DHR	20.01	245	ePc	36 24.70	0.7	
HYB	20.30	157	iPd	36 27.80	0.7	
	1.0s		450.00nm		6.0mb X	
			e	37 25.50		
			eS	40 07.00		
BHD	21.56	269	ePc	36 42.50	3.2X	
			eS	40 27.00		
GTA	23.34	74	Pc	36 57.80	1.1	
	1.2s		300.00nm		5.8mb X	
			sP	38 05.00		
			ScP	43 54.80		
			ScS	47 39.50		
RYD	23.52	247	ePc	36 59.00	0.6	

GBA	23.62	163	Pd	36	59.50	0.2
	0.8s	101.80nm			5.5mb	
AFIF	26.44	250	ePc	37	28.70	3.4X
KOD	26.89	164	eP	37	30.50	0.8
LZH	26.90	81	Pc	37	29.50	0.0
	2.0s	38.00nm			4.8mb	
			pP	38	15.00	232kmX
CD2	28.22	92	eP	37	41.60	0.3
KMI	29.86	103	eP	37	56.50	0.4
CHG	30.63	117	ePd	38	03.10	0.5
	1.0s	19.50nm			4.8mb	
BTO	31.09	70	eP	38	07.00	0.5
BDT	31.72	120	eP	38	13.00	1.0
	1.1s	84.90nm			5.3mb	
HHC	32.23	69	eP	38	16.00	-0.5
GYA	32.34	98	P	38	17.80	0.2
			pP	39	05.60	235kmX
			S	43	14.60	
			ScP	44	21.80	
			ScS	48	19.00	
TIY	33.36	75	Pd	38	26.60	0.4
N	11s	0.19um				
			S	43	32.50	
			SS	45	50.00	
LOE	33.55	116	eP	38	27.00	-0.9
NST	33.58	120	eP	39	08.80	40.7X
VRI	33.83	300	ePd	38	31.00	1.0
MLR	34.37	299	iPd	38	37.00	2.2
NNT	35.49	125	iPd	38	45.30	1.0
NUR	37.57	324	iP	39	02.00	0.7
	1.1s	141.60nm			5.5mb	
SUF	37.70	328	iP	39	03.40	1.1
	0.8s	96.50nm			5.5mb	
KRA	38.44	307	ePd	39	09.40	0.7
	1.2s	75.00nm			5.2mb	
			e	39	15.90	22kmX
QIZ	38.68	106	eP	39	10.70	-0.2
GZH	39.28	98	Pc	39	17.80	2.0
SRO	39.55	303	iP	39	19.40	1.6
			e	40	02.80	204km
			e	40	51.90	
SOD	39.57	335	iP	39	18.20	0.5
NJ2	39.96	82	Pc	39	21.40	0.0
SNG	40.13	129	eP	39	23.90	1.1
	1.1s	113.92nm			5.3mb	
			e	45	14.40	
ZST	40.35	304	e(P)	39	24.70	0.4
KEV	40.66	338	iP	39	27.00	0.4
	0.8s	71.90nm			5.2mb	
PRU	41.93	307	P	39	38.00	0.7
	1.5s	20.10nm			4.4mb	
			e	40	21.50	203km
SSE	42.16	82	Pc	39	40.00	0.6
BRG	42.26	308	iPd	39	41.00	1.0
	1.4s	30.00nm			4.6mb	
			e	40	25.00	205km
			eScP	44	59.00	
IPM	42.40	131	ePd	39	43.20	1.7
	0.8s	129.20nm			5.5mb	
KHC	42.61	306	P	39	45.20	2.3
			e	41	27.50	577kmX
HFS	42.80	322	eP	39	44.00	-0.2
	0.8s	63.40nm			5.2mb	
CLL	42.84	309	iP	39	45.10	0.5
	1.4s	23.00nm			4.5mb	
TRO	43.11	336	eP	39	47.00	0.5
MOX	43.75	308	eP	39	52.00	-0.1
	1.4s	31.00nm			4.6mb	
GRF	44.09	307	iPc	39	56.10	1.3
	1.5s	39.00nm			4.7mb	
NB2	44.12	323	P	39	54.30	-0.5
	1.0s	79.80nm			5.2mb	
RGS	44.71	326	eP	40	01.80	2.4
MDJ	44.85	60	eP	40	00.70	0.0
PPI	46.10	136	eP	40	10.60	-0.3
WTS	46.62	310	eP	40	15.00	0.3
	1.2s	12.00nm			4.2mb	
BSF	47.26	305	eP	40	19.50	-0.3
	1.0s	12.00nm			4.3mb	
ENN	47.34	309	eP	40	19.00	-1.2
	1.0s	5.00nm			3.9mb	
HAU	47.52	305	eP	40	21.50	-0.2
	1.0s	8.00nm			4.1mb	
LPG	47.75	302	eP	40	23.80	-0.1
	1.2s	11.90nm			4.2mb	
LPL	47.76	302	eP	40	23.80	-0.1
	1.0s	10.00nm			4.2mb	
KBS	48.54	347	iP	40	29.50	0.4
LBF	49.30	304	eP	40	34.50	-0.9
	1.0s	5.00nm			3.9mb	
LOR	49.32	305	eP	40	34.80	-0.7
	1.0s	4.00nm			3.8mb	
SMF	49.47	304	eP	40	36.20	-0.5
	1.0s	14.00nm			4.4mb	
SSF	49.60	304	eP	40	37.00	-0.6
	1.0s	8.00nm			4.2mb	
AVF	49.76	304	eP	40	38.30	-0.6
	1.0s	12.00nm			4.3mb	
BGF	50.16	304	eP	40	41.20	-0.7
	1.0s	5.00nm			4.0mb	
MAF	50.43	303	eP	40	44.00	0.0
	1.0s	12.00nm			4.4mb	
TCF	50.65	304	eP	40	45.40	-0.3
	1.0s	10.00nm			4.3mb	
CAF	51.10	302	eP	40	49.00	-0.1
	1.0s	8.00nm			4.2mb	
LSF	51.12	304	eP	40	48.30	-0.9
	1.0s	8.00nm			4.2mb	
KKM	51.64	115	ePc	40	53.50	0.0
	1.0s	67.90nm			5.2mb	
LPO	51.77	302	eP	40	53.80	-0.3
	1.0s	8.00nm			4.3mb	
FLN	51.80	307	eP	40	53.30	-0.9
	0.6s	3.60nm			4.1mb	
EKA	51.98	316	Pd	40	54.70	-0.7
	1.5s	34.00nm			4.7mb	
LFF	52.00	302	eP	40	55.60	-0.2
	0.8s	6.70nm			4.3mb	
GRR	52.14	307	eP	40	55.80	-0.9
	0.6s	3.60nm			4.2mb	
MFF	52.14	305	eP	40	55.80	-0.9
	0.6s	3.60nm			4.2mb	
MAT	53.42	68	(P)	41	05.00	-1.3
	0.8s	18.66nm			4.8mb	
DAG	54.65	344	iPc	41	13.90	-0.8
	1.0s	106.00nm			5.5mb	
OFUJ	55.04	64	P	41	17.00	-1.0
AKU	56.82	330	iP	41	31.10	0.9
	1.2s	50.00nm			5.1mb	
BCAO	57.19	249	iPd	41	34.50	1.0
	0.6s	8.00nm			4.6mb	
MBC	67.40	3	ePc	42	40.20	0.1
	1.0s	69.00nm			5.3mb	
BUL	68.76	222	iPc	42	35.80	-13.6X
IMA	72.30	17	eP	43	09.20	-0.9
	0.9s	20.31nm			4.9mb	
LKO	73.14	269	P	43	14.16	-1.4
MBL	73.92	132	eP	43	19.00	-0.8
KIC	74.30	266	P	43	20.78	-1.5
	0.6s	8.00nm			4.6mb	
TIC	74.36	267	P	43	21.28	-1.3
LIC	74.61	266	P	43	22.86	-1.2
FBA	74.64	16	eP	43	13.20	-10.2X
	1.1s	67.19nm				
FRB	74.95	342	eP	43	25.00	-0.2
PMR	77.16	18	eP	43	36.50	-1.0
	1.3s	54.25nm			5.1mb	
KDC	79.47	22	eP	43	49.80	-0.3
	1.0s	37.50nm			5.1mb	
YKA	81.30	2	eP	43	58.60	-1.0
	1.1s	16.50nm			4.7mb	
WB5	82.36	121	iPd	44	04.00	-1.8
WRA	82.39	121	Pd	44	04.40	-1.5
	0.3s	6.00nm			4.8mb	
FFC	88.94	356	eP	44	37.00	-0.6
	1.2s	27.00nm			5.0mb	
ANMO	108.90	357	ePdiff	46	16.00	7.8X
SPA	126.28	180	ePKP	50	43.20	-1.1
	1.0s	15.00nm				

S.D. = 1.0 on 95 of 102 obs.

MAY 30, 1990 02h 34m 05.88± 0.10s
6.016 S ± 2.0km 77.229 W ± 2.7km
DEPTH = 24.2km (geophysicist)
6.1mb (75 obs.) 6.5Msz (29 obs.)
NORTHERN PERU (111)

Ms 6.6 (BRK), 5.9 (PAS).
Mo=1.3•10••19 Nm (PPT). At leost 135 people killed, more than 800 injured and severe damage (VI) in the Mayobamba-Rioja areo. Felt (V) at Chachapoyos; (IV) at Cajamarco; (III) at Chiclayo and Chimbote. Also felt (IV) at Guayaquil, Ecuador. Three events about 1.5 and 4.8 seconds apart respectively. Depth from broadbond displacement seismograms, based on second event.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=355 Dip=72 Slip= 90
NP2: 175 18 90
Principal Axes:
T Plg=63 Azm=265
P 27 85

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. M
Energy 1.2±0.3•10••14 Nm

MOMENT TENSOR SOLUTION
Dep 20 No. of sta: 16
Moment Tensor; Scale 10••18 Nm
Mrr= 5.74 Mtt=-1.28
Mff=-4.45 Mrt=-3.73
Mrf= 3.54 Mtf= 3.20
Principal axes:
T Val= 7.72 Plg=68 Azm=210
N 0.51 8 322
P -8.23 20 55
Best Double Couple:Mo=8.0•10••18
NP1:Strike=160 Dip=26 Slip= 109
NP2: 318 65 81

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 44C M.W.: 13S, 31C
Centroid Location:
Origin Time 02:34:12.3 0.2
Lat 6.22S 0.01 Lon 77.01W 0.02
Dep 23.2 0.8 Half-duration 6.6
Moment Tensor; Scale 10••18 Nm
Mrr= 5.08 0.07 Mtt=-0.12 0.05
Mff=-4.96 0.07 Mrt=-3.32 0.18
Mrf= 4.71 0.23 Mtf= 0.64 0.05
Principal Axes:
T Val= 7.97 Plg=63 Azm=222
N -0.65 13 338
P -7.32 24 73
Best Double Couple:Mo=7.7•10••18
NP1:Strike=188 Dip=24 Slip= 122
NP2: 333 70 77

TUNG	4.73	345	Pn	35	19.10	1.3
VC1	5.47	348	Pn	35	28.60	0.1
QTO	5.92	347	ePn	35	36.60	1.9
			S	36	55.00	
PT08	5.94	174	iPd	35	35.20	0.2
NNA	5.95	176	iPc	35	33.20	-1.6
	1.0s	350.00nm			6.0mb	
			e	36	32.00	
OUR	5.95	347	ePn	35	37.30	2.2
GGP	5.96	347	ePn	35	37.70	2.2
PT10	6.03	178	iPc	35	35.00	-0.8
CAYA	6.10	353	Pn	35	36.40	-1.0
HUA	6.27	163	iPc	35	40.70	1.0
			iS	36	55.40	
COTA	6.40	350	Pn	35	44.00	2.3
PT02	6.93	174	iPc	35	47.00	-1.6
PSO	7.16	359	eP	35	51.50	-0.7
PT06	7.81	174	iP	35	57.30	-3.7X
PT03	8.05	170	iPc	36	01.40	-2.9X
HOQC	9.44	4	eP	36	23.65	-0.1
CLMC	9.85	4	eP	36	29.06	-0.3
BOG	11.03	17	iPd	36	46.50	0.9
			eS	39	12.00	
ARE	11.81	152	iPd	36	55.60	-0.6
FUO	11.93	17	iP	36	57.50	-0.4
ZOBO	13.54	140	P	37	16.00	-3.6X
BMG	13.64	18	eP	37	20.00	-0.5
LPB	13.76	140	Pc	37	15.00	-7.2X
			eS	40	18.00	
			eLR	40	41.20	
UPA	15.07	351	iPd+	37	39.40	0.3
	1.0s	396.00nm			5.7mb	
			iS	40	44.00	
CCH	15.66	137	P	37	43.00	-4.0X
SDV	16.20	24	eP	37	52.50	-1.3

30d 02h

TOV	17.36	25	eP	38	05.20	-3.2X	NAV	43.23	356	P	42	06.30	-0.7	FRI	58.34	321	ePc	44	00.10	-1.4
PLAV	18.52	32	eP	38	23.00	0.1	NA2	43.92	359	P	42	13.00	0.6				ePᵖPᵖ	13	50.80	
SIV	18.69	123	iPd	38	21.00	-3.8X	CBN	43.99	360	iPc	42	13.60	0.6	PRI	58.44	319	eP	44	01.80	-0.5
ANT	18.77	160	eP+	38	24.50	-1.2	LNO	45.20	339	iP	42	23.10	0.3				ePᵖPᵖ	13	50.60	
			iS	41	16.00		TUL	45.20	339	iPc+	42	22.80	-0.1	KVN	58.65	323	iPc	44	02.40	-1.5
FISA	18.88	25	eP	38	25.00	-2.2		1.2s		14.00nm			4.8mb X	LLA	58.90	320	eP	44	04.70	-0.8
GUAC	18.91	32	iPd	38	28.00	0.4	Z	20s		15.70um			5.9Msz	PRS	59.01	319	ePc	44	05.70	-0.5
MORO	18.98	28	eP	38	27.00	-1.4				eS	49	14.00		SAO	59.31	319	e(P)	44	07.00	-1.3
OLLA	19.01	33	eP	38	29.00	0.2				LR	57	39.00		CMB	59.40	321	iPc	44	08.40	-0.5
			eS	42	05.00		FVM	45.47	345	ePc	42	23.00	-1.9				ic	44	09.73	
CAR	19.36	32	iPd	38	32.50	-0.5		1.0s		340.00nm			6.2mb				ec	44	13.20	
			eS	42	07.00					pP	42	35.00	43kmX				ed	44	18.00	
LLAV	19.39	32	iPd	38	31.60	-1.8	CCM	45.74	345	ePc	42	25.58	-1.5				ed	44	20.32	
GUAN	19.62	36	eP	38	35.00	-0.9				ec	42	27.41		ARN	59.71	320	P	44	11.00	-0.1
CUM	20.91	39	eP	38	47.50	-1.7				ec	42	31.05		MHC	59.78	320	eP	44	11.20	-0.5
			iS	42	52.00					ed	42	34.69					ePᵖPᵖ	14	46.90	
TPP	22.59	44	eP	39	07.46	1.4				ed	42	37.17		BGMT	59.78	332	ePc	44	11.10	-0.6
TRN	22.85	44	eP	39	08.88	0.2				i	44	04.49		GCC	59.82	319	ePc	44	11.40	-0.4
	0.9s	624.70nm				6.1mb	SCP	46.58	359	ePc	42	33.34	-0.3	AIA	59.84	174	eP	44	12.40	1.0
SVB	24.88	40	eP	39	28.89	0.5				ec	42	34.83		SXM	60.10	333	ePc	44	13.20	-0.6
SLB	25.43	39	eP	39	31.91	-1.7				ec	42	38.31		LRM	60.41	332	ePc	44	15.40	-0.6
TPX	25.58	324	(P)	39	37.50	2.6X				ed	42	42.12		BKS	60.47	320	ePc	44	16.00	-0.2
SLW	25.65	39	eP	39	35.14	-0.5	LVNJ	46.65	3	P	42	34.00	-0.2		0.9s		251.00nm			6.3mb
MGP	25.88	23	iP	39	37.80	0.1	GMTN	46.75	3	iP	42	35.30	0.3	Z	20s		29.00nm			6.4Msz
BIM	25.94	38	eP	39	37.80	-0.6	PNJ	46.78	3	iP	42	36.70	1.5	N	20s		10.00nm			
FDF	26.06	38	eP	39	37.84	-1.6	TBR	47.01	3	P	42	37.00	0.0	E	20s		38.00nm			
			S	43	00.00		WVLY	48.27	359	P	42	46.00	-1.0				eS	52	34.00	
MVM	26.08	38	eP	39	37.09	-2.5	HRV	48.57	6	ePc	42	49.41	0.2				eLQ	59	56.00	
PORP	26.10	23	iP	39	40.00	0.2				ec	42	50.90					eLR	04	56.00	
CRM	26.22	38	eP	39	38.85	-2.0				ec	42	54.38		BRK	60.49	320	iPc	44	16.00	-0.3
SJG	26.35	24	iP	39	42.00	-0.1				ed	42	58.52		Z	20s		33.00nm			6.5Msz
CPD	26.38	25	iP	39	41.80	-0.6	DLA	48.80	356	P	42	49.00	-2.0				ePP	46	36.00	
BBL	26.48	36	eP	39	41.85	-1.5	LDN	48.95	356	P	42	50.20	-2.0				eS	52	34.00	
RTLL	26.49	163	ePd	39	42.30	-1.0	ELF	49.12	356	P	42	51.20	-2.2				eSS	57	40.00	
RTCB	26.54	164	iPd	39	49.00	5.1X	ALQ	49.18	328	iPc+	42	54.20	-0.1				eLQ	59	56.00	
ZON	26.63	164	e(P)	39	42.00	-2.6		1.0s		195.00nm			6.1mb				eLR	04	54.00	
PAG	26.77	35	eP	39	45.24	-0.8	Z	20s		16.31um			6.0Msz	ZSP	60.53	320	eP	44	16.60	0.0
CFA	26.82	163	eP	39	45.00	-1.3	ANMO	49.18	328	ePc	42	54.77	0.4	BUT	60.61	332	eP	44	17.10	-0.1
MGG	26.89	36	eP	39	45.55	-1.5	Z	18s		14.40um			6.0Msz	HRY	60.80	333	ePc	44	17.90	-0.6
MGH	27.03	33	eP	39	50.81	2.5				ec	42	56.26		ORV	61.02	322	ePc	44	20.20	0.3
SEG	27.17	35	eP	39	48.77	-0.8				ec	42	59.73					ePᵖPᵖ	13	44.90	
NEV	27.19	32	eP	39	51.60	1.9				ed	43	03.71		SCH	61.24	7	ePc	44	19.60	-1.5
SFG	27.23	35	eP	39	46.30	-3.8X				ed	43	06.69			1.1s		266.00nm			6.3mb
JACH	27.24	168	iPd	39	51.00	0.7				ePcP	44	14.28		MIN	61.56	323	ePc	44	22.10	-1.7
SCX	27.26	326	(P)	39	58.00	7.6X				ePP	44	52.62					ePᵖPᵖ	13	43.80	
SKI	27.26	31	eP	39	49.59	-0.9	WNY	50.27	3	P	43	02.00	-0.3	WDC	62.27	322	ePc	44	25.40	-2.9X
IHA	27.37	170	iPKP	39	51.40	0.1	HBVT	50.28	4	P	43	01.60	-0.8				ePᵖPᵖ	13	41.20	
ROCH	27.44	169	iPd	39	52.00	-0.2	BNH	50.66	6	P	43	05.60	0.3	MBO	63.12	71	iPc	44	35.00	0.7
BPA	27.49	33	eP	39	52.10	-0.5	EMM	51.28	9	P	43	09.50	-0.4				iS	53	05.00	
PEL	27.67	168	iPc	39	53.50	-0.6	MIM	51.55	7	P	43	12.00	0.0	FHC	63.29	322	eP	44	35.50	0.4
	0.4s	275.42nm				6.3mb	GLD	52.36	333	P	43	18.00	-0.4	SES	63.33	337	ePc	44	34.00	-1.2
LCCH	27.82	170	iPd	39	55.50	0.1	Z	20s		19.50um			6.1Msz		0.9s		376.00nm			6.5mb
MDZ	27.85	165	eP	39	58.90	3.2X	GOL	52.38	333	iPc	43	17.90	-0.8				pP	44	51.00	64kmX
			e(S)	46	38.00		Z	22s		17.10um			6.0Msz	FFC	63.95	344	iPc	44	37.50	-1.7
FCH	27.93	168	iPd	39	57.30	0.5	GLA	52.75	320	eP	43	21.00	-0.3		1.4s		254.00nm			6.2mb
CPB	28.00	33	eP	39	55.56	-1.5	CBM	53.33	8	ePd	43	25.00	-0.3	NEW	64.38	332	iPc	44	40.00	-2.1
TACH	28.11	169	iPc	39	57.40	-0.7	BAR	53.71	318	eP	43	28.00	-0.4	DPW	64.62	331	P	44	43.00	-0.7
PCH	28.17	168	eP	39	58.50	-0.1	CPE	54.12	318	eP	43	36.20	4.9X	COR	65.15	325	ePc	44	47.41	0.3
LNV	28.32	170	iPd	39	59.00	-0.8	TPC	54.21	320	eP	43	32.00	0.0				ec	44	48.73	
OXX	29.97	320	(P)	40	17.00	1.9	PLM	54.26	319	eP	43	32.00	-0.6				ic	44	52.04	
BAO	30.23	111	ePd	40	15.40	-2.0	PEC	54.79	319	P	43	36.00	-0.3				ed	44	56.51	
LVVM	31.82	324	(P)	40	32.00	0.9	MSU	54.90	327	P	43	37.00	-0.3	LON	65.70	328	ePc	44	49.56	-1.1
ACX	31.90	316	(P)	40	34.50	2.6X	RVR	54.99	319	eP	43	38.00	0.3				ec	44	50.88	
IIT	32.41	321	(P)	40	39.00	2.4	GSC	55.45	321	eP	43	41.00	-0.1				ec	44	54.36	
PPM	32.64	320	(P)	40	41.00	2.1	MWC	55.58	319	eP	43	43.00	0.8				ed	44	58.83	
III	32.69	318	(P)	40	41.00	2.0	PAS	55.61	319	eP	43	42.00	-0.2				ed	45	01.47	
MEX	33.19	320	eP	40	46.72	3.3X				ePP	46	03.00		RMW	66.15	329	P	44	54.00	0.4
UNM	33.19	320	(P)	40	47.50	4.1X				ePPP	46	57.00		CHIE	66.27	56	ePd	44	54.00	-0.7
CRX	33.57	319	(P)	40	49.50	2.8X				ePcS	48	35.00		PNT	66.30	331	ePc	44	54.00	-0.4
LPA	33.82	151	iPd+	40	48.00	-0.4				eS	51	30.00			0.8s		206.00nm			6.3mb
	2.0s	********	nm			7.6mb X				eSS	55	28.00		EDM	66.43	337	ePc	44	53.50	-1.7
Z	20s	90.78	um			6.5Msz				eLg	58	01.00		TBT	66.65	55	ePc	45	06.20	9.1X
			iS	46	12.00					eLR	00	08.00		GMW	66.72	328	P	44	56.40	-0.8
IIJ	33.84	320	(P)	40	52.00	2.7X	SBB	55.71	320	eP	43	43.00	0.0	PGC	67.76	329	ePd	45	04.30	0.6
MRX	34.78	318	(P)	40	59.00	2.3	DAU	55.80	329	P	43	43.40	-0.4		0.9s		170.00nm			6.2mb
ITR	38.57	96	eP	41	27.90	-1.0	CLC	56.27	321	eP	43	46.00	-1.0	CTFE	67.94	56	iPd	45	11.70	6.5X
HBF	38.85	356	P	41	31.00	0.1	ABL	56.72	319	P	43	50.00	-0.4	GGC	68.34	57	ePd	45	21.00	13.2X
SGS	39.12	356	P	41	33.00	-0.1	ISA	56.73	320	eP	43	50.00	-0.3	RUV	69.32	256	iP	45	15.00	1.1
PRM	40.17	353	P	41	41.40	-0.5	SYP	57.03	318	eP	43	52.00	-0.5		1.3s		1430.00nm			6.9mb
JSC	40.26	355	P	41	41.50	-1.1	BLP	57.33	318	P	43	54.00	-0.4	TPT	69.55	256	iP	45	16.50	1.2
LHS	40.42	355	P	41	43.20	-0.7	BCH	57.49	319	P	43	55.50	-0.2		1.3s		1320.00nm			6.9mb
TKL	41.91	352	P	41	55.00	-1.1	TNP	57.49	323	iPc	43	55.00	-0.8	VAH	69.56	256	iP	45	16.40	1.0
GBTN	41.98	351	P	41	55.50	-1.2		0.8s		58.80nm			5.7mb		1.3s		990.00nm			6.8mb
PWLA	42.04	347	P	41	55.20	-2.0	RKT	58.04	247	iP	44	00.00	0.4	CFTV	69.73	57	iPd	45	28.20	11.9X
BLA	43.10	356	iPd	42	06.00	0.0		1.6s		810.00nm			6.5mb	PMO	69.82	256	iP	45	18.20	1.2
	1.0s	220.00nm				5.9mb	PHAM	58.08	319	P	44	00.00	0.3		1.3s		1320.00nm			6.9mb
UYO	43.16	339	iPd	42	06.30	-0.1	IMW	58.25	332	P	43	59.00	-2.2	FRB	69.88	4	eP	45	15.00	-1.4

```
        0.7s    97.00nm            6.0mb
TVO     71.09 253 iP    45 26.10    1.3
PPN     71.26 254 iP    45 26.90    1.2
TBI     71.34 247 iP    45 28.30    2.2
        1.1s   590.00nm            6.6mb
PPT     71.40 254 iP    45 27.80    1.2
        1.3s   880.00nm            6.7mb
PAE     71.40 253 iP    45 27.90    1.3
AFR     71.59 254 iP    45 29.00    1.3
LKO     73.03  78 Pc    45 35.34   -1.0
        0.9s   255.00nm            6.2mb
LIC     73.08  82 P     45 35.70   -0.9
                  S     55 04.00
TIC     73.15  81 Pc    45 36.12   -0.9
KIC     73.38  82 Pc    45 37.62   -0.8
YKA     74.05 343 eP    45 40.00   -1.3
        0.7s    53.90nm            5.7mb
TIO     76.14  56 iP    45 55.00    0.8
                  i     46 31.00
GDH     76.86   8 ePc   45 56.00   -1.2
        1.0s    16.00nm            5.0mb X
                  i     55 43.00
LIS     76.96  48 iPc   46 00.00    1.6
WEGH    77.63  83 eP    46 02.00   -0.6
                  S     55 51.00
KUK     77.66  82 eP    46 00.80   -1.9
                  S     55 50.00
KOGH    77.77  82 eP    46 03.50    0.1
LEGH    77.78  83 eP    46 03.00   -0.4
                  S     55 53.00
SHGH    77.95  83 eP    46 04.50    0.2
                  S     55 58.00
TEGH    77.96  83 eP    46 04.00   -0.3
                  S     55 00.00
EZAM    78.40  45 eP    46 03.60   -2.7
EVAL    78.42  50 iPc   46 07.00    0.5
SIT     78.46 332 P     46 06.40    0.2
        1.1s    68.75nm            5.6mb
      Z  18s    19.05um            6.5Msz
IFR     78.57  54 iP    46 08.50    0.9
                  i     46 12.50
                  i     46 42.50
CNIL    78.61  51 eP    46 11.00    3.5X
STS     78.74  44 iPd   46 07.50   -0.6
GIBL    78.81  51 eP    46 13.00    4.4X
NKM     78.86  52 iP    46 05.50   -3.4X
                  i     46 08.50
OJEN    78.93  52 eP    46 22.00   12.6X
ALJ     79.04  51 eP    46 13.00    3.0X
EJIF    79.08  51 eP    46 11.40    1.3
EPRU    79.41  51 iPc   46 13.90    2.0
ERUA    79.57  45 iPc   46 12.70    0.1
EHOR    79.63  50 e(P)  46 14.80    1.8
EPLA    79.64  48 iPc   46 12.70   -0.4
EMON    79.77  44 eP    46 13.50   -0.2
MAL     79.98  51 iPd   46 16.60    1.7
                  iS    56 20.00
ALOJ    80.31  51 iPc   46 17.74    0.8
ATEJ    80.33  51 iPc   46 17.66    0.6
AAPN    80.35  51 iPc   46 17.70    0.6
ACHM    80.52  51 iPc   46 18.95    1.0
APHE    80.59  51 iPc   46 19.17    0.8
ASMO    80.66  51 iPc   46 19.37    0.7
AFC     80.78  51 iPc   46 20.10    0.7
EBAN    80.83  50 eP    46 20.40    0.9
VAL     80.85  35 iP    46 19.20    0.0
                  S     56 22.00
RAR     80.92 250 P     46 24.00    3.8X
TOL     81.09  48 ePc   46 20.20   -0.6
                  ec    46 21.69
                  ec    46 25.50
                  ed    46 29.14
                  ec    46 32.78
                  iPP   49 33.00
                  ePPP  52 04.00
                  iS    56 29.00
                  ePS   57 06.00
                  eS    01 56.00
REY     81.11  21 eP    46 21.00    0.7
GUD     81.21  47 eP    46 21.90    0.3
ENIJ    81.74  51 iPc   46 23.60   -0.6
EVIA    81.92  50 iPc   46 25.70    0.4
ETOR    82.80  48 iPc   46 30.40    0.7
ECRI    82.92  46 iPd   46 30.90    0.6
DCN     83.04  35 eP    46 30.60    0.0
        1.0s   209.00nm            6.2mb
ECP     83.18  36 iPc   46 31.20   -0.1
```

```
        0.7s   127.00nm            6.2mb
AKU     83.31  21 iP    46 32.80    1.1
        1.6s   226.67nm            6.1mb
      Z  23s    18.94um            6.4MszX
ECHE    83.31  49 iPd   46 33.50    1.2
BST     83.41  40 P     46 32.76    0.2
ETA     83.44  35 eP    46 32.70    0.1
ACU     83.49  50 iPd   46 33.50    0.2
HON     83.63 292 P     46 40.00    5.8X
      Z  22s    18.33um            6.4Msz
OPA     83.69 293 P     46 40.00    5.5X
INK     83.77 342 eP    46 31.00   -3.0X
        1.2s   383.00nm            6.5mb
SPA     84.02 180 iPc   46 35.10   -0.5
        1.3s   545.00nm            6.6mb
      Z  20s    12.84um            6.3Msz
BOH     84.11  46 P     46 36.86    0.5
ELYF    84.14  46 P     46 36.60    0.1
ISSF    84.24  46 P     46 37.73    0.7
MADF    84.25  46 P     46 37.03    0.0
ATE     84.32  46 P     46 37.60    0.2
LHE     84.34  46 P     46 38.18    0.6
YRH     84.39  36 iPc   46 37.80    0.4
        1.0s   278.00nm            6.4mb
ESCF    84.41  46 P     46 38.37    0.6
JAU     84.55  46 P     46 39.44    0.8
EROQ    84.62  48 iPd   46 39.60    0.8
EBR     84.68  48 ePc   46 40.00    0.9
                  eS    57 04.00
EPF     85.05  46 eP    46 41.40    0.4
        1.2s   302.15nm            6.4mb
LPF     85.29  41 eP    46 41.80   -0.2
GRR     85.49  41 eP    46 43.00    0.0
MFF     85.53  42 eP    46 43.20   -0.1
        1.2s   184.45nm            6.2mb
EAB     85.57  32 eP    46 42.90   -0.3
        1.1s   251.00nm            6.4mb
MBC     85.67 351 ePc   46 43.70    0.3
        0.9s   309.00nm            6.5mb
LFF     85.76  44 eP    46 44.40    0.0
FLN     85.82  40 eP    46 44.50   -0.2
        0.8s    83.95nm            6.0mb
EAU     85.94  33 eP    46 45.00   -0.1
        1.3s   324.00nm            6.4mb
EKA     85.95  33 Pc    46 44.70   -0.5
        1.2s   117.00nm            6.0mb
ELO     85.99  32 eP    46 45.20   -0.1
LPO     86.01  44 eP    46 45.50   -0.2
LDF     86.02  40 eP    46 45.40   -0.2
        1.2s   178.50nm            6.2mb
EBH     86.03  32 eP    46 45.40   -0.1
EDI     86.11  33 eP    46 46.90    1.0
EBL     86.14  33 eP    46 45.80   -0.3
ESEL    86.26  50 eP    46 47.80    0.7
RJF     86.37  44 eP    46 47.20   -0.3
        1.2s   139.85nm            6.1mb
EDU     86.38  32 eP    46 47.40    0.2
ESY     86.42  33 eP    46 47.30   -0.1
        1.0s   234.00nm            6.4mb
LSF     86.58  43 eP    46 47.90   -0.6
        1.0s    62.00nm            5.8mb
CAF     86.68  44 eP    46 48.60   -0.4
        1.3s   111.90nm            5.9mb
ETER    86.72  47 iPc   46 50.40    1.2
PMR     86.77 333 P     46 48.00   -1.0
      Z  20s    20.00um            6.5Msz
                  pP    47 09.00   77kmX
TCF     87.05  43 eP    46 50.40   -0.4
        1.0s    31.00nm            5.5mb
KDC     87.26 329 P     46 51.00   -0.4
        1.3s    94.34nm            5.9mb
MAF     87.28  43 eP    46 51.60   -0.3
        1.2s    83.30nm            5.9mb
FBA     87.31 336 P     46 50.90   -0.7
BGF     87.54  43 eP    46 52.40   -0.7
AVF     87.93  43 eP    46 54.20   -0.7
        1.2s    89.25nm            6.0mb
SSF     88.08  42 eP    46 54.60   -1.1
        1.0s    43.00nm            5.7mb
SMF     88.23  43 eP    46 55.80   -0.6
LOR     88.36  42 eP    46 57.00    0.0
        1.0s    56.00nm            5.8mb
LBF     88.38  43 eP    46 56.10   -1.1
        1.1s    39.05nm            5.6mb
DAG     88.94  11 iPc+  46 58.60   -0.6
        1.0s   189.00nm            6.4mb
      Z  20s    22.13um            6.6Msz
```

```
      N  20s    16.45um
      E  20s     9.93um
SNF     89.22  39 P     47 00.40   -0.6
UCC     89.32  39 Pc+   47 02.60    1.1
                  PP    50 33.00
                  S     57 27.00
DOU     89.34  40 Pc+   47 01.60    0.0
                  e     50 20.00
                  SKS   57 31.00
LRG     89.45  46 eP    47 02.20   -0.1
        1.0s   100.00nm            6.1mb
SBA     89.47 191 P     47 02.50    0.7
LMR     89.54  46 eP    47 02.40   -0.3
        1.0s   108.00nm            6.1mb
FRF     89.68  46 eP    47 03.00   -0.4
BNI     89.92  45 Pd    47 05.10    0.5
VITF    89.93  42 eP    47 03.67   -0.7
RRL     89.98  45 P     47 06.56    1.5
IMA     90.00 337 P     47 04.00   -0.6
LPL     90.03  44 eP    47 04.00   -1.2
        1.0s    56.00nm            5.8mb
LPG     90.04  44 eP    47 05.40    0.0
        1.1s    80.60nm            5.9mb
DBN     90.05  38 eP+   47 06.00    1.2
      Z  23s    22.10um            6.5MszX
                  ePP   50 20.00
                  eS    57 34.00
                  eSPP  58 56.00
                  eSS   04 00.00
HAU     90.14  42 eP    47 04.70   -0.7
        1.0s    52.00nm            5.7mb
PZZ     90.14  45 P     47 07.59    1.9
DOI     90.24  45 P     47 06.60    0.5
EMS     90.25  44 ePd   47 06.40    0.2
STV     90.26  46 P     47 07.89    1.7
SBF     90.29  46 eP    47 05.80   -0.5
        1.2s   175.55nm            6.2mb
ENN     90.29  39 eP    47 05.00   -1.0
        1.0s    96.00nm            6.0mb
LSD     90.31  44 P     47 08.41    1.8
MEM     90.32  39 iPd   47 06.39    0.3
ENR     90.33  46 P     47 08.10    1.6
RSP     90.34  45 P     47 08.30    1.7
LOMF    90.36  43 eP    47 06.10   -0.5
BSF     90.41  42 eP    47 05.79   -1.0
DIX     90.58  44 ePd   47 08.40    0.6
IMI     90.62  46 P     47 08.10    0.3
MOF     90.64  42 eP    47 06.87   -1.0
ECH     90.71  42 eP    47 07.57   -0.5
CDF     90.81  42 eP    47 07.97   -0.6
BBS     90.84  43 eP    47 08.06   -0.6
WLS     90.86  42 eP    47 08.08   -0.7
FIN     90.88  46 P     47 08.30   -0.7
ORO     90.91  44 P     47 12.00    2.9
ORX     90.91  44 P     47 10.25    1.1
MMK     90.96  44 ePd   47 10.20    0.7
CKI     90.96  46 Pd    47 10.00    0.7
WTS     91.03  38 eP    47 09.50    0.2
        1.0s   212.00nm            6.4mb
WIT     91.06  37 eP    47 11.00    1.5
GWF     91.12  41 eP    47 09.70   -0.2
STR     91.16  41 eP    47 09.91   -0.1
PCP     91.17  46 P     47 11.07    0.8
FEL     91.23  42 eP    47 10.00   -0.6
ZLA     91.43  43 ePd   47 11.70    0.3
VAI     91.49  44 Pc    47 11.30   -0.3
BER     91.51  30 eP    47 12.70    1.3
SLE     91.54  42 ePd   47 12.00    0.1
TMA     91.59  44 ePd   47 12.20   -0.2
LLS     91.77  43 ePd   47 13.50    0.3
TNS     91.81  40 ePc   47 08.60   -4.5X
BOB     91.83  45 P     47 14.50    1.1
TUH     92.04 124 eP    47 13.00   -1.5
        0.9s    75.63nm            6.1mb
VDL     92.05  44 ePd   47 14.70    0.2
SAX     92.05  43 ePd   47 15.00    0.4
STU     92.12  41 iPd   47 14.00   -0.5
        1.1s   101.27nm            6.2mb
      Z  20s    19.86um            6.6Msz
MDI     92.13  44 P     47 13.40   -1.2
PII     92.49  46 P     47 16.40    0.1
OSS     92.53  44 ePd   47 16.80    0.1
BDI     92.58  46 Pc    47 16.30   -0.5
MME     92.66  46 P     47 21.60    4.2X
SAL     92.68  45 P     47 18.00    0.9
OGA     93.15  43 eP    47 19.80    0.2
POF     93.31 120 iPc   47 22.00    1.6
```

30d 02h

```
       1.5s   180.56nm            6.3mb
PGD    93.37  46 P      47 20.80   0.2
SFI    93.46  46 P      47 25.70   5.0X
CTI    93.51  44 P      47 20.70  -0.4
GRF    93.54  41 iPc    47 21.20   0.2
    Z  18s     14.00um            6.5Msz
                 e      47 25.60
                 e      47 37.20
MOX    93.87  40 ePc+   47 22.50   0.0
       1.6s    43.00nm            5.6mb
    Z  18s     15.80um            6.5Msz
    E  18s     14.70um
RDP    93.92  49 P      47 24.00   1.0
MNS    93.94  48 Pd     47 24.10   1.0
ASS    93.98  47 P      47 27.10   3.8X
ARV    94.22  47 Pd     47 29.80   5.5X
MCT    94.31  53 Pd     47 28.10   3.0X
FAI    94.32  53 P      47 30.00   5.1X
FVI    94.33  44 P      47 25.50   0.8
NB2    94.46  29 P      47 25.00  -0.1
       1.6s   110.40nm            6.0mb
AZI    94.47  48 P      47 21.00  -4.4X
BHG    94.48  43 eP     47 25.30  -0.1
WET    94.57  41 eP     47 26.40   0.6
GIB    94.65  52 P      47 30.00   3.5X
SDI    94.74  49 P      47 27.10   0.3
CLL    94.79  39 iPc    47 26.80   0.1
       2.1s   160.00nm            6.1mb
    Z  21s     18.50um            6.5Msz
                 eSKS   58 00.00
                 PKKP   04 26.00
                 P'P'   12 38.00
TRI    94.95  45 i(P)d  47 30.00   2.4
                 i      47 52.10
                 i(PP)  51 19.20
                 i(SKS)58 00.00
                 i(SP)  59 55.00
                 i      01 56.00
                 i(SS)  05 10.00
                 i(SSS)09 20.00
BRN    94.98  38 eP     47 30.00   2.5
KHC    95.03  41 P      47 28.50   0.5
       1.2s    25.00nm            5.5mb
    Z  20s      6.80um            6.1Msz
    N  18s      1.40um
    E  20s      5.90um
                 S      58 00.00
VOY    95.06  44 eP     47 28.00  -0.2
MNO    95.17  53 P      47 31.00   1.9
DUI    95.21  49 Pc     47 29.90   0.9
KMR    95.34  42 iP+    47 30.90   1.6
                 iPP    51 22.70
BRG    95.36  40 iP     47 29.40   0.0
       1.6s   100.00nm            6.0mb
    Z  18s     13.00um            6.4Msz
    N  18s      3.50um
    E  18s     11.00um
                 i      47 35.50
                 eSKS   58 07.00
                 ePKKP  04 18.00
                 eP'P'  12 26.00
CEY    95.42  45 eP     47 31.30   1.5
LJU    95.51  44 eP     47 31.50   1.3
                 eS     58 02.00
HFS    95.63  30 ePKP   47 30.50   0.1
       0.9s    22.30nm            5.6mb
KBS    95.70  11 ePc    47 32.00   1.6
PRU    95.70  40 eP     47 31.00   0.0
       1.2s    13.20nm            5.2mb
    Z  19s     13.90um            6.5Msz
    N  18s      2.90um
    E  19s     10.90um
                 e      47 32.60
                 S      58 08.00
ATN    95.79  52 P      47 22.00  -9.6X
SGO    95.80  50 P      47 32.50   0.9
MGR    95.96  50 P      47 33.60   1.2
VBY    95.99  45 eP     47 33.00   0.6
BSD    96.12  35 iPc    47 34.00   1.3
       0.7s    50.60nm            6.1mb
BCAO   96.18  86 iPc    47 35.20   1.3
       1.0s    10.00nm            5.2mb
ZAG    96.51  45 eP     47 35.60   0.9
TDS    96.54  51 Pd     47 36.30   1.3
ORI    96.64  50 P      47 31.00  -4.5X
HVAR   96.76  47 iP     47 38.40   2.5
VKA    96.81  42 eP     47 35.00  -1.0
```

```
       3.0s   515.00nm             6.5mb
    Z  19s      9.90um             6.3Msz
                  i      47 39.00
                  i      47 46.40
                  e      48 23.00
                  e      50 32.50
                  LR     31 00.00
KSP    96.85  40  iPd    47 37.00   0.9
       1.0s    30.00nm             5.8mb
                  i      51 34.00
SOP    96.96  43  iPd    47 37.90   1.2
ZST    97.33  42  eP     47 38.60   0.2
                  e      51 39.00
UPP    97.61  30  iP     47 38.80  -0.5
                  i      47 44.30
                  i      51 45.80
                  iSKS   58 12.00
                  iS     59 00.00
HVD    97.83 122  iPc    48 00.00  18.8X
       1.3s   173.08nm
FRS    97.85 121  eP     47 38.00  -3.1X
SRO    98.14  43  iP     47 41.60  -0.4
                  i      47 57.30
                  i      04 19.00
                  e      12 34.00
BUD    98.63  43  e(P)   47 42.00  -2.2
BLF    98.72 121  eP     47 44.20  -1.1
TTG    98.81  48  eP     47 48.00   2.9
                  e(S)   57 32.00
KRA    99.18  40  eP     47 47.90   1.3
       1.5s   130.00nm             6.2mb
    Z  18s     14.50um             6.5Msz
    E  18s     14.30um
                  e      47 53.40
                  e      48 00.40
                  e      51 57.00
                  eS     58 26.00
PSZ    99.21  43  eP     47 49.70   2.8X
SNZO   99.43 227  P+     47 56.00   8.0X
                  PP     52 02.00
                  SKS    58 38.00
                  PS     01 00.00
                  SS     05 48.00
                  e      13 44.00
BEO    99.66  46  eP     47 50.50   1.6
OHR    99.97  49  eP     47 51.00   0.4
       1.7s   176.00nm             6.3mb
                  ePP    51 34.00
                  e      51 58.00
KSR    99.99 117  eP     47 45.00  -6.2X
                  i      52 01.60
PRY   100.28 119  ePdiff47 51.20  -1.3
                  i      52 05.50
SKO   100.44  49  ePdiff47 47.50  -5.1X
    Z  20s     11.87um             6.4Msz
    N  20s     10.58um
    E  22s     10.51um
                  i      47 52.50
                  i      47 56.30
                  ePP    51 54.00
                  i      52 01.20
                  iS     58 02.50
                  iSP    01 02.50
                  iSS    06 32.00
                  iSSS   10 29.00
                  LR     31 22.50
BZS   100.46  45  ePdiff47 53.00   0.4
KEV   100.53  20  ePdiff47 53.00   0.7
                  i      48 03.40
                  e      52 10.00
                  e      58 30.00
                  e      01 04.00
ADK   100.54 322  Pdiff  48 03.00  10.2X
UZH   100.79  42  ePdiff47 55.00   1.0
SOD   100.85  22  iPdiff47 55.30   1.5
                  e      48 06.00
NUR   101.06  30  iPdiff47 55.00   0.1
    Z  22s     15.30um             6.5Msz
                  e      48 03.00
                  e      52 08.00
                  e      58 30.00
                  e      59 32.00
                  e      01 12.00
                  LR     31 14.00
SLR   101.24 118  iPdiff47 35.50 -21.3X
       1.3s    67.31nm
                  i      52 06.50
```

```
VAY   101.30  49  ePdiff47 36.50 -20.0X
                  i      47 57.40
MAW   101.32 165  ePdiff47 56.00   0.1
SUF   101.45  27  iPdiff47 56.50  -0.1
VTS   101.73  48  ePdiff48 02.00   3.5X
MMB   102.16  49  ePdiff48 00.00  -0.3
ATH   102.30  53  Pdiff  48 10.00   9.0X
                  e      52 20.00
                  e      58 38.00
PGB   102.44  48  ePdiff48 06.00   4.4X
BUL   102.68 112  iPdiff47 50.50 -12.8X
DRV   102.71 194  ePdiff48 12.00   9.9X
                  PP     48 52.00
                  PPP    48 54.00
                  SKS    48 58.00
                  SP     49 01.00
                  SPP    49 02.00
                  SS     49 06.00
                  SSS    49 10.00
RZN   102.89  49  iPdiff48 09.00   5.2X
APA   103.31  22  ePdiff48 05.30   0.5
                  eS     59 50.00
KDZ   103.42  49  ePdiff48 06.00   0.1
DIM   103.48  48  ePdiff48 04.00  -2.1X
MLR   103.50  45  ePdiff48 08.50   2.2
IZM   105.07  52  ePKP   52 32.40   4.3X
ITU   106.17  49  ePdiff48 20.00   1.9X
ELL   107.30  54  ePKP   52 13.00 -19.5X
OBN   108.43  34  ePdiff48 28.00   0.2
    Z  22s     18.30um             6.6Msz
                  iSKS   59 00.00
HLW   109.07  61  ePdiff48 38.00   6.7X
                  e      53 04.00
                  eS     59 12.50
BBTK  109.16  50  ePdiff48 40.00   8.4X
CRZF  111.01 145  ePdiff48 45.00   5.5X
                  ePP    53 20.00
                  eSKKS  00 10.00
                  eSP    03 05.00
                  eSS    08 55.00
TIK   112.45 351  e(Pdif48 51.00   5.7X
NAI   113.74  94  ePdiff49 02.00   9.3X
PET   114.84 327  ePdiff49 00.00   3.6X
BHD   119.58  55  ePKPc  53 01.50   5.7X
                  e      54 16.50
TAB   119.86  49  ePKP   53 04.00   7.6X
CNB   119.94 223  ePKP   52 57.30   0.7
       1.1s    71.00nm
CAN   120.18 223  ePKP   52 56.20  -0.8
ARO   120.61  80  ePKPd  53 00.00   1.6
BWA   121.07 224  ePKP   52 58.20  -0.5
TOO   121.16 219  ePKP   52 58.20  -0.6
       1.3s   111.00nm
                  e      54 27.30
BRS   121.38 233  e(PKP)53 01.50   2.0
                  e      54 30.00
                  eP'PKS03 15.00
                  e(SSS)04 36.00
BFD   123.22 218  ePKP   53 04.70   2.0X
                  e      54 39.50
TEH   124.44  50  ePKP   53 03.00  -2.3X
RMQ   124.97 232  iPKPc  53 06.20  -0.2
       1.0s   260.00nm
YSS   126.70 327  ePKP   53 10.00   0.9
ADE   127.01 217  ePKP   53 10.00  -0.2
       0.7s    84.93nm
KUSJ  127.79 322  ePKP   53 09.50  -1.8
QLP   128.39 229  ePKPd  53 13.00   0.0
ASAJ  128.46 324  ePKP   53 11.70  -0.9
RAB   129.64 260  e(PKP)53 16.00   0.3
CTA   129.99 238  iPKPc  53 15.20  -1.0
       1.2s   609.38nm
                  iPP    55 29.00
                  iSKP   56 38.00
                  iPS    05 42.00
                  iPSS   13 22.00
CTAO  129.99 238  ePKPc  53 15.69  -0.5
                  ec     53 17.01
                  ec     53 19.99
                  ePP    55 29.53
MAIO  130.26  47  ePKP   53 16.00  -0.4
       1.2s    48.61nm
                  i      56 42.00
MRRJ  130.38 323  ePKP   53 15.10  -1.1
OFUJ  131.90 319  ePKP   53 18.60  -0.6
PMG   133.19 251  ePKP   53 18.00  -4.4X
YAMJ  133.46 319  ePKP   53 26.30   4.0X
```

KAKJ	134.45	317	ePKP	53	26.60		2.5X
HIA	134.57	344	ePKPc	53	23.86	-0.2	
			ePP	55	55.15		
			e	56	48.39		
NIIJ	134.67	318	ePKP	53	26.80		2.2X
MDJ	134.97	333	PKP	53	25.00	0.1	
	Z 20s		15.00um			6.7Msz	
	N 20s		7.40um				
			epPKP	54	28.50		
			PP	56	00.00		
QIS	135.20	233	ePKP	53	10.00	-16.1X	
			i	53	27.00		
			e	56	57.00		
CHJJ	135.33	317	ePKP	53	26.80	0.9	
MAJO	135.59	318	ePKPc	53	24.44	-1.9	
			ec	53	29.07		
FRU	135.69	30	ePKP	53	28.00	1.6	
			eS	56	21.00		
IIDJ	136.38	317	ePKP	53	23.90	-4.1X	
CN2	137.41	336	PKPd	53	26.00	-3.6X	
	Z 19s		9.10um			6.5Msz	
	N 19s		4.60um				
	E 19s		3.80um				
			SKKS	03	04.00		
			SS	14	16.00		
TSRJ	137.64	318	ePKP	53	21.80	-8.5X	
GUA	137.86	283	e(PKP)	53	29.50	-1.7	
GUMO	137.89	284	e(PKP)	53	25.20	-6.1X	
	1.3s		928.10nm				
PJG	137.89	284	e(PKP)	53	24.50	-6.8X	
RKG	137.92	198	ePKP	53	20.00	-10.9X	
QUE	138.62	50	ePKP	53	19.00	-13.5X	
			e	56	18.00		
KSH	138.87	32	ePKP	53	30.00	-2.6X	
	E 17s		31.50um				
			SKS	00	41.00		
COOL	139.31	205	ePKP	53	23.80	-9.7X	
WRA	139.63	229	PKPd	53	25.00	-9.3X	
	0.4s		10.90nm				
WB5	139.65	230	ePKP	53	25.00	-9.4X	
SNY	139.82	336	ePKP	53	28.00	-6.0X	
	Z 24s		10.30um			6.5MszX	
	N 20s		3.80um				
	E 21s		6.70um				
KLB	139.96	200	ePKP	53	25.50	-9.1X	
WMQ	140.08	17	PKP	53	28.40	-6.2X	
	N 22s		14.20um				
			PP	56	32.00		
MUN	140.11	198	ePKP	53	27.00	-7.9X	
WARB	140.49	215	ePKP	53	30.00	-5.8X	
BAL	141.22	199	ePKP	53	29.00	-7.9X	
SHNJ	141.66	321	ePKP	53	32.50	-5.1X	
KUMJ	142.85	319	ePKP	53	34.00	-5.7X	
DL2	143.08	335	PKP	53	36.00	-3.9X	
	Z 24s		7.90um			6.4MszX	
	N 20s		8.10um				
			PP	56	51.00		
KAGJ	143.65	317	ePKP	53	36.90	-4.2X	
BJI	144.04	342	ePKPc	53	37.37	-4.1X	
			ec	53	42.00		
			epP	56	54.00		
MEKA	144.15	205	ePKP	53	39.00	-3.1X	
HHC	144.43	348	PKPd	53	40.50	-1.8	
	N 18s		8.60um				
	E 18s		3.90um				
			PP	56	57.50		
			PKS	57	08.00		
BTO	144.96	350	iPKPc	53	42.00	-1.2	
	E 20s		6.80um				
			PP	57	02.00		
			SKKS	03	50.00		
			SS	15	46.00		
MTN	146.16	236	iPKPc	53	45.60	-0.1	
			i	00	40.70		
GTA	146.65	4	PKP	53	46.50	0.4	
	Z 26s		22.30um			6.8MszX	
	N 18s		7.40um				
			e	53	51.50		
			PP	57	16.00		
NDI	146.94	44	iPKPc	53	46.60	-0.1	
			eS	04	02.00		
TIA	147.19	338	PKPd	53	46.50	-0.3	
	Z 23s		8.80um			6.5MszX	
	N 22s		7.90um				
	E 22s		5.50um				
			SS	16	10.00		
TIY	147.24	346	PKPd	53	46.80	-0.2	
	9.0s		2200.00nm				
	Z 27s		15.30um			6.7MszX	
	N 19s		9.80um				
			SKKS	04	07.00		
MBL	148.22	211	ePKP	53	48.00	-0.9	
	0.6s		186.00nm				
			i	53	51.10		
NANU	148.98	203	ePKP	53	52.00	1.9	
POO	149.19	64	iPKPc	53	50.60	0.0	
	1.5s		750.00nm				
			iS	04	18.00		
SSE	149.65	328	PKP	53	50.00	-0.8	
	E 19s		6.50um				
			e	53	56.00		
			pPKP	53	58.50		
			sPKP	54	02.00		
			PP	57	28.00		
NJ2	150.05	332	PKPc	53	51.50	0.1	
	Z 27s		5.10um			6.2MszX	
	N 17s		3.80um				
	E 19s		5.70um				
			PP	57	32.00		
			SKS	00	54.50		
			SKKS	04	16.00		
LZH	150.06	358	ePKPc	53	51.75	0.2	
			ec	53	53.41		
			ic	53	58.21		
			sPKP	54	00.00		
			e	54	04.50		
			PP	57	30.00		
			eSKP	57	32.14		
XAN	151.54	349	PKP	53	54.00	0.3	
	N 21s		14.70um				
	E 18s		3.40um				
			e	54	09.00		
			PP	57	37.00		
			SKKS	04	27.00		
WHN	153.28	337	ePKP	53	55.50	-0.7	
	Z 20s		810.00um			8.5MszX	
	N 18s		4.50um				
	E 20s		6.30um				
			e	54	13.00		
HYB	153.76	62	iPKPc	53	56.20	-1.0	
	1.0s		200.00nm				
GBA	153.94	71	PKPc	53	56.40	-1.1	
	1.1s		81.30nm				
LSA	154.02	24	PKPd	53	57.40	-0.5	
	N 19s		3.26um				
	E 19s		6.86um				
KOD	154.61	79	ePKP	54	00.00	1.2	
			ePP	57	09.00		
CD2	155.22	358	ePKP	53	59.00	0.1	
	Z 20s		8.00um			6.5Msz	
	N 19s		8.60um				
			PP	57	58.80		
QZH	155.83	323	ePKP	54	00.00	0.2	
	Z 20s		9.10um			6.6Msz	
	N 18s		5.60um				
DAV	157.32	274	ePKP+	54	02.00	0.0	
GYA	159.33	350	iPKPd	54	04.40	0.3	
	N 20s		6.10um				
	E 20s		8.20um				
			pPKP	54	15.00		
			PP	58	21.00		
BAG	159.73	302	ePKP+	54	04.00	-0.9	
QCP	160.07	297	ePKP	54	03.00	-2.0	
GZH	160.20	330	PKPc	54	07.00	2.0	
	Z 22s		9.50um				
			e	54	47.00		
HKC	160.42	327	iPKP	54	08.00		2.8X
			iPP	58	46.00		
KMI	161.00	0	ePKPc	54	06.17	0.1	
			ec	54	07.33		
			ec	54	10.64		
			ePKPpb	54	49.71		
			iPP	58	32.00		
TRT	163.19	216	ePKPc	54	06.60	-1.6	
TSM	164.66	264	ePKPc	54	10.00	0.4	
QIZ	165.34	333	PKPc	54	11.00	0.9	
	N 19s		3.50um				
	E 19s		8.90um				
			pPKP	54	22.00		
			e	55	06.50		
			PP	58	50.00		
			SKS	01	11.00		
			SKKS	05	34.00		
KKM	166.63	271	ePKPc	54	11.00	-0.4	
CHG	166.74	16	ePKP	54	10.90		-0.3
			e	59	12.00		
CHTO	166.74	16	ePKPc	54	10.34		-0.9
			ec	54	11.83		
			ec	54	14.81		
			e	54	17.29		
			e	54	19.94		
			ePKPpb	55	16.67		
BDT	168.25	18	ePKP	54	13.00		0.8
	1.1s		172.30nm				
LOE	168.63	5	ePKP	54	12.00		-0.5
NST	170.06	15	ePKP	54	14.00		0.7
BSI	172.54	94	ePKP	54	14.00		-0.5
NNT	172.81	24	ePKP	54	15.40		0.8
			e	59	35.80		
PPI	173.15	160	ePKP	54	14.00		-0.8
IPM	177.75	129	ePKPd	54	16.70		0.8
	1.4s		293.60nm				
			e	56	05.50		

S.D. = 1.0 on 461 of 562 obs.

% MAY 30, 1990 02h 34m 44.89± 0.65s
42.466 N ± 4.5km 12.622 E ± 9.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.09	152	Pc	34	46.80		-0.7
			eSg	34	47.90		
ASS	0.61	3	Pc	34	56.50		-0.7
			eSg	35	05.80		
RMP	0.66	175	P	34	58.00		0.8
			eSg	35	09.00		
RDP	0.71	174	P	34	59.00		0.1
			eSg	35	10.20		
AZI	0.77	128	P	35	00.00		0.1
			eSg	35	11.00		
ARV	1.06	13	Pc	35	04.90		0.8
			eSn	35	21.00		
SDI	1.17	130	P	35	07.50		0.7
			eSn	35	24.00		
CRE	1.26	337	P	35	09.00		0.6
DUI	1.59	120	P	35	13.00		-0.2
			eSn	35	33.00		

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

MAY 30, 1990 03h 52m 39.12± 0.84s
51.561 N ± 6.6km 16.008 E ± 5.1km
DEPTH = 18.6 ± 4.0 km
4.1mb (1 obs.)
POLAND (548)
ML 4.4 (GRF), 4.3 (VKA).

KSP	0.74	166	iP	52	52.00		-1.2
	0.3s		210.00nm				
			iS	53	01.50		
BRG	1.47	243	iPnd	53	05.50		0.8
			iPg	53	07.20		
			iSg	53	26.70		
PRU	1.83	211	iPnd	53	10.50		0.6
			Pg	53	13.00		
			Sg	53	36.50		
CLL	1.90	264	iPnd	53	11.50		0.6
	0.5s		120.00nm				
			iPg	53	15.20		
			iSg	53	41.00		
RAC	2.03	136	eP	53	16.00		3.2X
			e	53	17.00		
			eSg	53	42.00		
KHC	2.89	214	iPn	53	25.50		0.4
			Pg	53	32.00		
			Sn	54	01.20		
			Sg	54	11.50		
HOF	2.90	246	iPnc	53	25.90		0.7
KRA	2.91	120	eP	53	25.90		0.5
			i	53	33.00		
			i	53	36.20		
			iS	54	11.40		
MOX	2.92	253	iPn	53	26.00		0.6
			iPg	53	34.50		
			eSg	54	13.50		
			eSg	19	23.00		
WET	3.14	221	ePn	53	29.00		0.3
VKA	3.31	176	iPnd	53	32.10		1.1
			iPg	53	40.30		
			iSn	54	11.00		
			iSg	54	23.90		
ZST	3.44	168	ePn	53	33.20		0.3

30d 03h

1.0s 0.07nm

		i(Pb)	53	41.40	
		i(Sn)	54	18.80	
		i	54	29.00	
		e	18	07.70	
GRF	3.58 240	iPnd	53	35.40	0.5
		ePg	53	48.90	
		eSg	54	33.90	
KMR	3.71 200	iPn+	53	37.90	1.1
		iPg	53	50.20	
		iSg	54	37.80	
SOP	3.90 175	eP	53	41.00	1.6
SRO	4.04 157	ePn	53	38.10	-3.2X
		i	53	46.40	
		i(Sn)	54	27.90	
BHG	4.35 209	ePn	53	46.30	0.5
PSZ	4.43 144	eP	53	46.00	-1.0
BUD	4.53 153	e(P)	54	19.00	30.7X
FUR	4.57 224	iPnc	53	49.10	0.1
TNS	4.97 257	iPnc	53	54.00	-0.6
		eSn	55	12.40	
FVI	5.40 204	Pc	54	00.80	0.1
LJU	5.61 191	eP	54	04.00	0.4
		e(S)	55	26.00	
PTJ	5.67 180	eP	54	04.10	-0.4
VOY	5.71 195	eP	54	04.00	-1.1
		eS	55	41.70	
OGA	5.72 217	iPnc	54	06.00	0.6
WTS	5.73 278	iPc	54	05.50	0.3

0.5s 10.00nm 4.8mb X

		e	54	38.50	
		e	55	48.00	
VBY	6.08 185	eP	54	10.40	0.2
CTI	6.22 209	Pd	54	12.90	0.6
MEM	6.37 265	iPn	54	13.52	-0.8
ENN	6.39 267	eP	54	18.00	3.4X
		e	54	42.00	
CDF	6.45 244	Pn	54	13.50	-2.1
		Pg	54	44.80	
		Sg	55	59.30	
BSF	7.05 242	Pn	54	19.60	-4.3X
		Sg	56	17.60	
MDI	7.13 218	P	54	13.00	-11.9X
HAU	7.19 244	Pn	54	21.80	-4.1X
		Pg	54	54.20	
		Sg	56	23.40	
DOU	7.38 263	iPn	54	29.00	0.6
VAI	7.44 223	P	54	25.00	-4.3X
BOB	8.09 215	Pd	54	38.20	-0.2
LPG	8.63 229	Pn	54	48.20	2.0
BNI	9.00 227	P	55	31.00	39.9X
LOR	9.01 246	Pn	54	48.30	-2.8X
		Sg	57	24.20	
SSF	9.32 246	Pn	54	52.30	-3.2X
SBF	9.62 220	Pn	54	54.20	-5.4X
BGF	9.98 245	Pn	55	01.90	-2.6X
YKA	59.79 336	eP	02	44.70	-0.1

0.7s 1.00nm 4.1mb

NOZ	161.94 51	PKP	12	44.30	5.1X

S.D. = 0.9 on 32 of 46 obs.

& MAY 30, 1990 03h 56m 37.60s
37.653 N 121.663 W
DEPTH = 9.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

MHC	0.31 177	iPc	56	43.90	-0.2
		iS	56	49.70	
ARN	0.32 161	iPd	56	44.10	-0.1
BKS	0.51 296	iPc	56	47.30	-0.5
BRK	0.52 295	iPc	56	47.30	-0.8
ZSP	0.55 302	iPc	56	48.20	-0.6
PCC	0.59 255	iPd	56	48.80	-0.7
		iS	56	57.00	
GCC	0.68 203	eP	56	50.50	-0.6
SAO	0.90 169	iPc	56	54.20	-0.8
CMB	1.08 69	eP	56	56.70	-1.4
		eS	57	11.60	
LLA	1.18 151	e(P)	56	58.00	-1.8
PRS	1.34 170	eP	57	00.30	-2.1
FRI	1.69 112	e(P)	57	06.30	-1.1
		eS	57	28.60	
KVN	3.13 62	eP	57	31.50	3.3

13 obs. associated

MAY 30, 1990 04h 02m 31.00± 0.59s
24.149 S ± 3.9km 66.745 W ± 7.0km
DEPTH = 163.1 ± 5.8 km
4.8mb (11 obs.)
SALTA PROVINCE, ARGENTINA (129)

ANT	3.39 277	iPc	03	25.00	0.7
		iS	04	02.50	
CCH	6.76 5	P	04	13.40	4.3X
		i	05	38.90	
RTLL	7.31 192	iPc	04	15.80	-0.5
		eS	05	33.70	
CFA	7.55 190	eP	04	19.00	-0.4
		S	05	38.50	
ZON	7.56 193	eP	04	19.00	-0.6
LPB	7.68 350	Pc	04	21.00	-0.6
		S	05	46.00	
RTCV	7.84 191	eP	04	23.20	-0.1
ZOBO	7.95 350	iPc	04	28.00	2.8
		eS	05	55.00	
ARE	8.85 329	eP	04	35.00	-1.9
		eS	06	11.00	
PEL	9.61 200	eP	04	46.00	-0.6
FCH	9.66 198	eP	04	49.00	1.4
SIV	9.71 34	P	04	13.40	-34.6X
		i	05	38.90	
PCH	10.00 198	eP	04	52.50	0.7
TACH	10.16 200	eP	04	53.50	-0.3
LNV	10.59 202	eP	04	58.50	-0.9
BAO	19.55 68	eP	06	49.60	1.2
ITR	31.08 65	eP	08	36.30	0.4
JSC	59.72 346	P	12	19.80	-0.7
PRM	59.78 345	P	12	20.00	-1.0
LHS	59.82 347	P	12	20.30	-0.9
TKL	61.63 344	P	12	31.50	-1.9
GBTN	61.74 344	P	12	32.70	-1.5
PWLA	62.18 340	P	12	35.20	-1.9
FVM	65.69 340	P	12	58.70	-1.1
LNO	65.75 334	eP	12	59.50	-0.6
TUL	65.75 334	eP	12	59.30	-0.9

1.0s 17.30nm 4.9mb

SPA	65.99 180	iPc	13	02.10	0.3

0.9s 22.27nm 5.0mb

KIC	67.58 72	P	13	12.00	-0.2

0.7s 5.50nm 4.5mb

ALQ	69.80 326	ePd	13	25.70	0.0

1.0s 23.25nm 4.9mb

ANMO	69.80 326	P	13	25.70	0.0

1.1s 26.50nm 5.0mb

GLD	73.01 330	P	13	45.50	0.8

1.5s 39.06nm 4.9mb

GOL	73.04 330	P	13	44.90	-0.1

1.2s 25.61nm 4.8mb

GLA	73.04 319	eP	13	45.00	0.2
BAR	73.90 318	eP	13	50.00	0.2
PLM	74.48 318	eP	13	47.00	-6.3X
TPC	74.50 319	eP	13	54.00	0.7
PEC	75.02 318	P	13	56.80	0.5
RVR	75.22 318	eP	13	48.00	-9.4X
MSU	75.48 325	P	13	59.70	0.7
GSC	75.78 320	eP	14	01.00	0.4
MWC	75.80 318	eP	14	01.00	0.2
SBB	75.97 319	eP	14	01.00	-0.6
RSSD	76.04 333	P	14	01.70	-0.3
DAU	76.43 327	P	14	05.20	0.8
CLC	76.60 320	eP	14	05.00	-0.1
ABL	76.93 318	P	14	07.80	0.7
ISA	77.02 319	eP	14	08.00	0.6
DUG	77.06 326	P	14	08.60	0.9
BLP	77.46 317	P	14	10.00	0.2
BCH	77.68 318	P	14	11.70	0.6
TNP	77.94 322	P	14	13.30	0.7

0.9s 9.77nm 4.5mb

SCH	78.64 360	eP	14	16.00	0.2
FRI	78.65 319	e(P)	14	15.40	-0.8
PRI	78.66 318	eP	14	16.90	0.4
KVN	79.11 322	P	14	19.00	0.0
LLA	79.14 318	e(P)	14	20.50	1.5
PRS	79.22 318	e(P)	14	19.90	0.5
CMB	79.74 320	eP	14	22.40	0.2
HPI	79.80 328	P	14	23.70	1.0
HVD	79.90 119	eP	14	42.00	18.5X
ARN	79.98 319	P	14	24.30	0.8
MHC	80.04 319	ePd	14	25.50	1.6
GCC	80.05 318	eP	14	24.00	0.2
FRS	80.08 118	iPc	14	24.00	-0.2
MAW	81.22 163	iP	14	30.40	1.0
ORV	81.40 320	ePd	14	31.30	0.5
MIN	81.98 321	eP	14	33.20	-0.8
WDC	82.67 321	ePd	14	36.20	-1.1
KSR	82.86 115	iPc	14	39.00	0.0

0.9s 11.54nm 4.7mb

SES	83.92 333	eP	14	43.00	-0.5
FFC	84.18 340	eP	14	44.00	-0.6

1.0s 15.00nm 4.7mb

DPW	85.27 328	P	14	50.60	0.3
PNT	86.95 329	eP	14	59.00	0.6
YKA	94.34 340	eP	15	31.30	-1.2

0.9s 4.40nm 4.7mb

CTA	125.53 219	ePdiff	17	36.00	-16.7X
GBA	144.62 101	PKPd	21	49.00	-1.3

0.7s 12.60nm

S.D. = 0.9 on 70 of 76 obs.

% MAY 30, 1990 04h 03m 12.74± 0.83s
37.790 N ± 7.8km 15.280 E ± 6.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.40 21	P	03	21.00	0.1
		eSg	03	26.00	
MNO	0.48 287	P	03	22.50	-0.1
		eSg	03	30.00	
SOI	0.67 65	P	03	26.00	-0.1
		eSg	03	35.00	
MEU	0.74 202	Pc	03	27.40	0.1
		eSg	03	38.20	
GIB	1.01 282	P	03	32.00	0.1
		eSg	03	47.00	

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

? MAY 30, 1990 04h 09m 25.14± 0.96s
37.775 N ± 8.7km 15.287 E ± 8.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.41 20	P	09	33.00	-0.5
		eSg	09	40.00	
MNO	0.49 289	P	09	35.50	0.3
		eSg	09	42.50	
SOI	0.68 64	P	09	39.00	0.5
		eSg	09	50.00	
MEU	0.73 203	P	09	39.30	-0.3
		eSg	09	50.80	

S.D. = 0.8 on 4 of 4 obs.

MAY 30, 1990 04h 10m 41.37± 0.85s
37.044 N ±10.1km 26.222 E ± 7.1km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

SMG	0.82 36	iPnc	10	57.10	-0.2
IZM	1.58 31	iPn	11	09.40	-0.2
CIN	1.59 69	ePg	11	06.00	-3.5X
		iSg	11	20.00	
YER	1.65 86	iPn	11	09.40	-1.2
VAM	2.31 226	ePn	11	32.50	12.4X
VLI	2.65 264	ePn	11	25.00	0.0
EZN	2.78 2	iPn	11	30.00	3.3X
KSL	2.86 108	ePn	11	27.50	-0.3
KHL	2.91 63	ePn	11	30.00	1.3
ELL	2.97 95	iPn	11	30.20	0.7
BCK	3.51 82	ePn	11	37.40	0.3
EDC	3.54 21	ePn	11	48.10	10.6X
ALT	3.67 56	ePn	11	39.00	-0.4
YLV	4.29 34	ePn	11	55.00	6.7X
CTT	4.44 22	ePn	12	00.00	9.7X

S.D. = 0.8 on 9 of 15 obs.

? MAY 30, 1990 04h 12m 29.38± 4.47s
17.464 N ±36.0km 61.934 W ±12.7km
DEPTH = 27.3 ± 11.1 km
LEEWARD ISLANDS (92)
ML 2.9 (FDF).

BPA	0.42 170	eP	12	38.36	-0.1
		S	12	45.00	
NEV	0.69 242	eP	12	42.82	0.0
		S	12	52.30	
MGH	0.79 200	eP	12	44.26	-0.2
		SS	12	55.60	
SEG	1.13 159	eP	12	49.88	0.4
		S	13	03.70	
SFG	1.40 150	eP	12	52.70	-0.5
PAG	1.45 170	eP	12	54.36	0.4

			S	13 11.90	
BBL	1.98	167	eP	13 01.70	0.0
S.D. = 0.4			on	7 of 7 obs.	

MAY 30, 1990 04h 35m 10.17± 0.38s
31.683 S ± 8.1km 69.165 W ± 8.2km
DEPTH = 115.9 ± 5.2 km
4.4mb (2 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.44	72	iPc	35 26.40	-1.2
RTCV	0.56	109	iPc	35 28.00	-0.4
RTLL	0.69	60	iPc	35 29.30	-0.1
			eS	36 27.90	
MDZ	1.23	168	eP	35 35.60	1.0
			eS	35 52.40	
JACH	1.57	230	iPd	35 39.30	0.7
			iS	36 02.00	
FCH	1.90	210	iPd	35 44.00	1.1
			iS	36 09.50	
PEL	1.94	221	iPd	35 43.60	0.4
			i(S)	36 07.00	
ROCH	2.02	230	iPd	35 44.50	0.1
			iS	36 10.00	
SAN	2.17	215	iPd	35 46.50	0.4
			iS	36 13.70	
PCH	2.24	210	iPd	35 47.50	0.4
			iS	36 17.50	
TACH	2.47	217	iPd	35 49.90	-0.1
			iS	36 20.00	
IHA	2.49	237	eP	35 49.50	-0.7
			iS	36 20.80	
LCCH	2.70	228	iPc	35 52.70	-0.4
			iS	36 25.70	
LNV	2.95	219	iPd	35 55.00	-1.4
			iS	36 24.50	
CCH	14.50	12	Pc	38 38.40	7.1X
LPB	15.11	4	P	38 38.00	-1.2
ZOBO	15.37	4	P	38 44.80	2.2
	1.1s		14.50nm		4.2mb
BAO	25.05	55	eP	40 25.70	0.4
ITR	36.54	58	eP	42 06.00	-0.4
LIC	71.73	70	P	46 22.00	0.2
TIC	71.99	70	P	46 24.00	0.7
KIC	72.04	70	P	46 23.80	0.2
LKO	73.25	67	Pd	46 30.94	0.2
	0.8s		10.50nm		4.7mb
GBA	144.51	113	PKPd	54 33.00	-1.9
	0.6s		1.20nm		
S.D. = 1.0			on	23 of 24 obs.	

* MAY 30, 1990 05h 36m 21.35± 0.59s
6.041 S ± 6.1km 77.422 W ±16.8km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
NORTHERN PERU (111)

TUNG	4.70	347	P	37 33.00	0.8
			S	38 28.00	
VC1	5.45	350	P	37 42.80	-0.2
QTO	5.90	349	eP	37 50.60	1.3
QUR	5.93	349	eP	37 55.70	6.0X
NNA	5.94	175	eP	37 49.20	-0.2
	0.6s		76.67nm		5.5mb X
			i	37 49.50	
			eS	38 45.00	
GGP	5.94	349	eP	37 50.00	0.0
PT08	5.94	172	iP	37 50.40	0.6
PT10	6.01	176	eP	37 50.00	-0.4
			eS	39 58.00	
CAYA	6.11	355	eP	37 50.70	-1.5
COTA	6.40	352	eP	37 58.00	1.7
PSO	7.19	1	eP	38 41.00	33.8X
HOQC	9.48	5	eP	38 37.66	-1.3
ANCC	9.51	3	eP	38 38.47	-0.7
HOBC	10.41	7	eP	38 49.43	-2.2
BOG	11.11	18	eP	39 04.00	2.6
ARE	11.87	151	eP	39 11.00	-0.7
ZOBO	13.65	139	P	39 33.00	-2.6
			(S)	43 31.00	
LPB	13.86	140	P	39 31.90	-6.3X
			S	43 38.00	
CCH	15.77	137	eP	40 05.00	2.0
ITR	38.76	96	eP	43 47.20	2.4
ALQ	49.10	328	eP	45 08.00	0.0
FR8	69.92	4	eP	47 30.00	-0.8
KIC	73.57	82	P	47 52.10	-1.6
	0.8s		7.50nm		4.7mb
YKA	74.02	343	eP	47 54.20	-1.1
	0.5s		0.90nm		4.0mb
SPA	84.00	180	iPd	48 50.90	1.3
	0.6s		8.13nm		5.1mb
MBC	85.67	351	eP	48 51.00	-6.6X
	0.8s		3.00nm		4.6mb
MTN	145.99	236	ePKP	56 00.20	0.6
S.D. = 1.5			on	23 of 27 obs.	

MAY 30, 1990 06h 12m 41.42± 0.53s
62.796 N ±10.2km 25.495 W ± 7.9km
DEPTH = 10.0km (geophysicist)
4.2mb (21 obs.)
ICELAND REGION (637)

REY	2.10	49	iP	13 15.20	-1.8
AKU	4.34	45	eP	13 47.80	-1.0
	1.2s		231.25nm		
			i	13 52.30	
DAG	14.22	6	eP	16 14.00	9.5X
	1.1s		8.86nm		4.4mb
FRB	19.12	292	eP	17 07.00	0.4
FLN	19.70	124	eP	17 11.40	-2.1
	0.8s		8.05nm		4.1mb
GRR	19.86	125	eP	17 12.80	-2.3
	1.0s		8.00nm		4.0mb
LDF	19.97	124	eP	17 13.60	-2.7
	0.8s		5.35nm		3.9mb
ENN	20.75	111	eP	17 24.00	-0.4
	0.9s		7.00nm		4.0mb
			e	17 31.00	
			e	17 42.50	
MEM	20.90	111	Pc	17 25.80	-0.1
MFF	21.62	127	eP	17 32.50	-0.8
	1.1s		19.55nm		4.4mb
LSF	22.54	125	eP	17 42.30	-0.2
	1.0s		10.00nm		4.3mb
LOR	22.61	120	eP	17 42.70	-0.5
	0.9s		9.85nm		4.3mb
SSF	22.64	121	eP	17 43.00	-0.4
	1.2s		11.90nm		4.3mb
VITF	22.72	115	P	17 44.62	0.5
TCF	22.77	124	eP	17 44.60	-0.2
	1.0s		6.00nm		4.1mb
BGF	22.79	122	eP	17 44.60	-0.3
	1.0s		10.00nm		4.3mb
AVF	22.80	121	eP	17 44.40	-0.6
	1.0s		6.00nm		4.1mb
LBF	22.89	120	eP	17 45.70	-0.2
	0.9s		5.75nm		4.1mb
MAF	22.96	123	eP	17 46.60	0.0
	0.8s		4.05nm		4.0mb
HAU	23.04	115	eP	17 47.70	0.4
	0.8s		8.05nm		4.3mb
CDF	23.11	113	P	17 48.87	0.8
SMF	23.11	121	eP	17 48.60	0.5
	1.0s		10.00nm		4.3mb
WLS	23.14	113	P	17 49.12	0.7
ECH	23.21	114	P	17 50.04	1.0
MOX	23.33	104	eP	17 53.00	2.8
BSF	23.36	115	eP	17 51.40	0.8
	1.0s		8.00nm		4.2mb
CLL	23.49	101	eP	17 54.00	2.4
	1.9s		31.00nm		4.5mb
LOMF	23.75	115	P	17 53.67	-0.7
FEL	23.84	113	P	17 56.08	0.9
BRG	24.22	101	eP	18 00.20	1.5
			e	18 10.00	
KHC	25.31	104	P	18 11.00	1.7
	1.2s		10.00nm		4.4mb
YKA	37.82	311	eP	19 58.30	-0.8
	1.0s		2.80nm		4.0mb
FBA	45.69	330	eP	21 04.50	1.0
	1.0s		5.50nm		4.5mb
ALQ	55.55	280	eP	22 18.70	-0.4
KVN	57.25	292	eP	22 31.00	-0.2
S.D. = 1.3			on	34 of 35 obs.	

? MAY 30, 1990 06h 58m 48.86± 4.35s
15.534 N ±38.7km 98.188 W ±10.5km
DEPTH = 51.2 ± 22.0 km
3.6mb (1 obs.)
OFF COAST OF GUERRERO, MEXICO (65)
Felt at Pinotepo Nacional, Oaxoca.

ACX	2.08	310	iP	59 22.00	0.0
			iS	59 45.00	
OXX	2.08	42	iP	59 22.27	0.1
			iS	59 49.83	
III	3.08	337	iP	59 36.00	-0.4
			iS	00 11.00	
IIT	3.47	358	(P)	59 45.51	3.6X
			(S)	00 28.90	
PPM	3.54	353	iP	59 46.71	3.6X
			iS	00 26.10	
UNM	3.89	346	(P)	59 48.00	0.1
			(S)	00 32.00	
TAC	3.97	346	(P)	59 57.00	8.0X
			(S)	00 37.00	
CRX	4.11	340	(P)	59 52.00	1.1
			(S)	00 48.00	
IIC	4.33	347	(P)	00 03.52	9.4X
			iS	00 51.52	
IIJ	4.43	341	iP	59 55.00	-0.7
			iS	00 47.00	
LVVM	4.50	21	(P)	59 56.00	-0.1
			(S)	00 51.00	
MRX	5.04	326	iP	00 10.00	6.2X
			(S)	01 07.00	
SCX	5.47	77	(P)	00 44.50	34.6X
ALQ	20.70	340	eP	03 27.50	0.0
	1.0s		3.00nm		3.6mb
S.D. = 0.7			on	8 of 14 obs.	

* MAY 30, 1990 07h 03m 46.43± 0.68s
5.997 S ± 5.3km 76.941 W ±18.3km
DEPTH = 45.4 ± 10.3 km
4.4mb (4 obs.)
NORTHERN PERU (111)

TUNG	4.79	342	P	04 58.20	-0.1
			S	05 54.50	
VC1	5.52	345	P	05 08.80	0.0
PT08	5.94	176	eP	05 15.60	1.1
			iS	06 23.40	
NNA	5.95	179	eP	05 13.70	-0.7
	0.8s		13.43nm		4.5mb
			i	05 14.50	
			eS	05 27.00	
QTO	5.97	345	eP	04 16.60	-58.4X
GGP	6.02	344	eP	05 16.50	0.7
PT10	6.04	180	iPc	05 15.50	-0.1
			eS	06 24.50	
CAYA	6.13	350	eP	05 17.00	-0.3
PSO	7.15	357	eP	06 10.00	38.5X
CLMC	9.82	2	eP	06 08.13	-0.1
HOBC	10.31	4	eP	06 14.90	-0.1
BOG	10.93	15	eP	06 31.00	7.4X
ZOBO	13.37	140	P	06 56.00	-0.4
LP8	13.59	141	P	06 54.00	-5.1X
CCH	15.48	138	P	07 37.90	14.2X
ALQ	49.32	328	eP	12 32.00	-1.4
	1.0s		2.75nm		4.2mb
SES	63.42	336	eP	14 14.00	0.2
YKA	74.12	343	eP	15 19.00	-0.5
	0.5s		0.90nm		4.0mb
MBC	85.70	351	eP	16 23.00	1.7
	0.7s		3.00nm		4.6mb
S.D. = 0.9			on	14 of 19 obs.	

* MAY 30, 1990 07h 16m 29.55± 0.60s
21.972 N ± 6.1km 142.679 E ±24.7km
DEPTH = 289.9 ± 11.3 km
4.0mb (4 obs.)
MARIANA ISLANDS REGION (215)

GUMO	8.59	166	eP	18 31.20	0.0
	0.7s		94.03nm		4.9mb
PJG	8.59	166	eP	18 31.20	0.1
GUA	8.65	165	eP	18 31.70	-0.2
KAKJ	14.35	352	P	19 42.30	0.4
CHJJ	14.39	348	P	19 42.30	-0.1
TSRJ	14.73	338	P	19 46.70	0.3
MAT	15.03	346	eP	19 50.00	-0.1
	0.7s		10.27nm		4.3mb
NIIJ	15.55	349	P	19 55.10	-0.7
WB5	42.38	192	eP	23 57.80	0.2
WRA	42.45	192	Pc	23 58.00	-0.1
	0.3s		1.00nm		3.6mb
YKA	76.43	28	eP	27 48.70	0.1
	0.6s		1.00nm		3.7mb
S.D. = 0.4			on	11 of 11 obs.	

? MAY 30, 1990 08h 32m 35.00± 0.90s
37.793 N ± 8.5km 15.223 E ± 7.8km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.41	27	P	32 43.50	0.0	
			eSg	32 49.90		
MNO	0.44	288	P	32 44.00	0.0	
SOI	0.71	67	P	32 49.00	-0.1	
			eSg	33 02.00		
MEU	0.73	199	P	32 49.40	0.0	
			eSg	33 00.60		
MGR	2.36	6	P	33 11.30	-3.0X	
	S.D. = 0.1		on 4 of 5 obs.			

? MAY 30, 1990 08h 40m 17.47± 2.85s
6.036 S ±15.2km 130.452 E ±19.8km
DEPTH = 98.2 ± 33.2 km
4.4mb (2 obs.)
BANDA SEA (280)

MTN	6.80	174	iPd	41 57.50	1.1	
KNA	9.79	190	eP	42 37.00	-0.2	
			eS	44 21.00		
WB5	14.28	165	eP	43 33.00	-3.3X	
			i	43 37.10		
			eS	46 07.00		
WRA	14.33	165	Pc	43 35.80	-1.2	
	0.4s	10.00nm		4.4mb		
QIS	16.95	149	eP	44 10.00	0.0	
			eS	47 04.00		
MBL	18.22	213	eP	44 25.00	-0.5	
KKM	18.60	310	ePd	44 29.50	-0.6	
WARB	20.36	190	iPc	44 49.00	0.6	
BDT	38.74	307	eP	47 34.90	1.0	
CHTO	39.67	309	iP	47 41.50	-0.2	
	1.0s	5.00nm		4.3mb		
	S.D. = 1.0		on 9 of 10 obs.			

MAY 30, 1990 09h 22m 23.17± 1.21s
8.875 S ± 4.5km 122.561 E ± 5.6km
DEPTH = 93.9 ± 12.5 km
5.2mb (18 obs.)
FLORES ISLAND REGION (286)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Locotion:
Origin Time 09:22:25.3 2.0
Lat 9.13S 0.15 Lon 122.58E 0.13
Dep 136.3 3.8 Holf-durotion 2.0
Moment Tensor; Scale 10**17 Nm
Mrr=-0.17 0.09 Mtt=-0.41 0.10
Mff= 0.57 0.15 Mrt= 0.28 0.07
Mrf=-0.08 0.10 Mtf= 1.33 0.10
Principal Axes:

T	Val= 1.51	Plg= 3	Azm=305
N	-0.11	77	50
P	-1.40	13	215

Best Double Couple:Mo=1.5**17
NP1:Strike=351 Dip=79 Slip=-173
NP2: 259 83 -11

KUPT	1.63	141	iPc	23 10.50	19.3X	
			e(S)	23 39.00		
KNA	9.13	139	iPc	24 32.10	-1.9	
			eS	26 05.00		
MTN	9.29	116	iPc	24 35.50	-0.7	
BKB2	9.43	323	iPc	24 48.50	10.4X	
TRT	9.89	276	iPd	24 46.10	1.8	
			iS	25 34.70		
MBL	12.49	192	eP	25 19.20	0.3	
	0.3s	15.00nm		5.3mb		
			eS	27 28.00		
TSM	13.76	341	ePc	25 43.80	8.3X	
NANU	15.19	206	eP	25 52.50	-1.4	
WB5	15.81	135	iPc	25 58.30	-3.5X	
WRA	15.84	135	Pc	25 59.00	-3.1X	
	0.4s	72.60nm		5.2mb		
KKM	16.11	337	ePc	26 10.80	5.2X	
	0.8s	396.00nm		5.7mb		
WARB	17.65	168	iPc	26 24.80	0.3	
MEKA	18.05	192	iPd	26 30.70	1.3	
	0.4s	41.00nm		5.0mb		
			eS	29 38.00		
QIS	20.14	127	iPc	26 51.30	-0.9	
			eS	30 26.00		
MNDI	21.09	84	eP	27 07.00	4.9X	
MRWA	21.16	196	iPd	27 02.30	-0.2	
			eS	30 50.50		
COOL	21.94	183	iPd	27 09.40	-0.8	
			eS	31 08.00		
KGM	22.02	299	ePc	27 13.10	2.0	
BAL	22.30	193	iPd	27 14.00	0.2	
	0.3s	37.00nm		5.2mb		
			eS	31 18.00		
KLB	23.04	191	eP	27 21.20	0.2	
	0.3s	25.00nm		5.0mb		
			eS	31 31.00		
PPI	23.60	290	eP	27 25.00	-1.5	
MUN	23.73	194	eP	27 27.40	-0.3	
	1.1s	7.00nm		4.0mb X		
			eS	31 37.00		
PMG	24.29	93	eP	27 34.00	0.9	
LAT	24.31	87	eP	27 49.00	15.6X	
IPM	25.29	301	ePd	27 45.50	2.9X	
	0.5s	12.60nm		4.6mb		
RKG	25.59	191	eP	27 50.10	4.9X	
			eS	32 43.00		
TSI	26.90	296	eP	27 50.00	-7.4X	
QLP	27.06	133	ePc	27 59.00	0.3	
			i	28 24.60		
SNG	27.07	305	eP	27 59.60	0.7	
RMQ	30.38	129	eP	28 28.40	-0.1	
			e	29 00.10		
QIZ	30.43	336	eP	28 29.00	0.0	
CMS	31.21	139	iPc	28 35.20	-0.6	
	0.7s	14.00nm		4.8mb		
			e	29 13.00		
LOE	33.25	322	eP	28 54.00	0.3	
BFD	33.49	150	eP	28 55.00	-0.5	
			e	30 07.20		
			eS	35 53.00		
QZH	33.83	354	eP	28 58.50	0.0	
BRS	33.96	127	iPd	29 00.00	0.2	
			i	29 13.50		
			i	29 56.00		
BWA	34.78	141	iPc	29 08.70	2.0	
			e	29 46.20		
			ePP	30 14.30		
COO	34.86	132	eP	29 09.00	1.6	
BDT	34.87	318	eP	29 08.40	0.9	
	1.0s	69.00nm		5.5mb		
TOO	35.29	148	iPc	29 11.80	0.8	
	0.5s	8.00nm		4.9mb		
CAN	35.73	141	eP	29 14.90	0.2	
			e	29 51.80		
			ePP	30 21.90		
CNB	35.95	141	eP	29 17.10	0.5	
CHG	36.05	320	iPc	29 18.20	0.7	
	0.9s	20.17nm		5.1mb		
GYA	38.37	337	iPc	29 37.60	0.6	
			S	35 21.00		
KMI	38.92	331	Pc	29 43.50	1.7	
	1.4s	80.00nm		5.4mb		
SSE	39.76	358	P	29 52.40	4.1X	
	0.8s	20.00nm		5.0mb		
WHN	39.98	349	Pc	29 51.50	1.4	
	1.0s	400.00nm		6.2mb X		
NJ2	40.85	355	Pc	29 57.70	0.5	
CD2	43.48	336	iPc	30 15.80	-3.0X	
	1.2s	200.00nm		5.8mb		
DZM	44.12	113	iPd	30 24.00	-0.2	
TSRJ	45.95	15	eP	30 39.50	1.1	
IIDJ	46.43	17	eP	30 44.50	2.2	
CHJJ	47.29	18	P	30 49.70	0.7	
TIY	47.30	349	eP	30 48.00	-1.2	
Z	16s	0.50um		4.6MszX		
E	15s	0.50um				
MTMJ	47.43	17	P	30 49.70	-0.6	
MAT	47.51	17	(P)	30 51.00	0.2	
	1.4s	27.91nm		4.9mb		
			eS	37 30.00		
LZH	48.07	340	iPc	30 55.60	0.3	
	1.4s	120.00nm		5.6mb		
Z	20s	0.40um		4.4Msz		
			PP	32 53.50		
NIIJ	48.39	18	eP	30 55.10	-2.4X	
KOD	48.73	292	eP	30 59.00	-1.9	
LSA	48.84	323	P	31 01.10	-0.5	
BJI	49.02	354	eP	31 01.00	-1.3	
SNY	50.46	1	eP	31 11.00	-2.2	
HHC	50.50	349	eP	31 13.00	-0.8	
BTO	50.57	348	eP	31 14.50	0.2	
HYB	50.73	301	eP	31 13.50	-2.3	
	1.0s	40.00nm		5.4mb		
GTA	52.48	338	Pc	31 28.60	-0.1	
MDJ	53.62	6	eP	31 35.60	-1.2	
NDI	57.52	312	eP	32 02.00	-3.2X	
WMQ	61.24	332	P	32 29.80	-0.9	
			S	40 38.00		
			ScS	42 06.00		
QUE	66.01	309	eP	33 01.00	-1.3	
MAW	70.57	201	iP	33 29.80	0.1	
MAIO	74.26	312	eP	33 51.00	-1.1	
			eS	43 16.00		
SPA	81.18	180	iPd	34 29.90	0.2	
	0.7s	46.88nm		5.5mb		
YKA	112.61	25	ePKP	40 47.00	-2.8X	
	0.4s	0.20nm				
ALQ	128.30	52	e(PKP)	41 20.00	-1.1	
LKO	128.85	275	(PKP)	41 22.14	-0.3	
	0.8s	5.50nm				
ARE	151.24	151	ePKP	42 10.00	7.8X	
CCH	152.53	162	PKP	42 12.80	8.7X	
LPB	152.64	157	PKP	42 10.00	5.6X	
ZOBO	152.87	157	PKP	42 07.80	2.9X	
BAO	153.91	201	ePKP	42 07.80	2.0	
ITR	154.20	228	ePKP	42 16.00	9.9X	
			e	42 26.70		
			e	42 57.20		
	S.D. = 1.1		on 61 of 82 obs.			

& MAY 30, 1990 09h 25m 57.60s
40.248 N 124.627 W
DEPTH = 5.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 2.5 (BRK).

FHC	0.74	41	iPc	26 11.90	-0.5	
			i	26 22.40		
			e	26 25.10		
WDC	1.63	78	eP	26 24.80	-2.2	
MIN	2.31	87	eP	26 34.80	-2.3	
			eS	27 02.70		
PCC	3.26	147	e(P)	26 48.10	-2.2	
ARN	3.77	139	eP	26 56.00	-1.7	
GCC	3.82	147	eP	26 54.10	-4.2	
SAO	4.28	143	eP	27 02.10	-2.8	
	7 obs. associated					

MAY 30, 1990 09h 53m 15.16± 1.35s
6.019 S ± 4.1km 77.147 W ±10.1km
DEPTH = 30.8 ± 10.6 km
4.8mb (12 obs.)
NORTHERN PERU (111)

TUNG	4.75	344	P	54 27.50	0.7	
			eS	55 21.80		
VC1	5.49	347	eP	54 37.10	-0.4	
PT08	5.93	174	eP	54 45.70	2.1	
			eS	55 44.30		
NNA	5.94	177	iPc	54 44.00	0.6	
	1.0s	70.00nm		5.3mb		
			eS	55 49.00		
OTO	5.94	347	eP	54 46.80	3.0X	
GGP	5.98	346	eP	54 46.00	1.5	
PT10	6.02	178	iPd	54 45.00	0.5	
			eS	55 54.00		
CAYA	6.12	352	eP	54 45.50	-0.8	
COTA	6.42	349	eP	54 54.00	3.4X	
PT02	6.92	174	eP	54 56.20	-0.9	
			e(S)	56 17.40		
PSO	7.17	359	eP	55 14.00	13.1X	
PT03	8.03	171	eP	55 10.80	-1.9	
HOQC	9.44	3	eP	55 32.68	0.3	
ANCC	9.47	2	eP	55 33.13	0.4	
CLMC	9.85	3	eP	55 38.24	0.2	
HOBC	10.35	6	eP	55 45.80	0.9	
BOG	11.01	16	eP	56 00.00	6.0X	
ARE	11.76	152	eP	56 18.00	13.7X	
ZOBO	13.49	140	P	56 26.00	-1.5	
Z	20s	0.74um				
			S	59 55.00		
			LR	02 20.00		
BMG	13.62	17	eP	56 28.00	-0.8	
LPB	13.70	140	P	56 23.00	-7.2X	
Z	16s	1.35um				
			S	00 05.00		
			LR	02 18.00		

CCH	15.60	137	eP	57	01.00	6.1X
ITR	38.49	96	eP	00	35.30	-1.3
BLA	43.11	356	eP	01	14.00	-0.4
TUL	45.24	339	eP	01	32.50	1.0
	0.8s	10.20nm			4.8mb	
FVM	45.49	345	iP	01	32.50	-1.0
	1.0s	8.00nm			4.6mb	
ALQ	49.23	328	ePc	02	03.00	-0.1
	0.9s	8.61nm			4.8mb	
GOL	52.42	333	iP	02	26.90	-0.5
	0.8s	3.27nm			4.3mb	
RSSD	55.49	337	iP	02	50.10	0.3
TNP	57.55	323	eP	03	04.20	-0.4
	0.8s	1.18nm			4.0mb	
KVN	58.70	323	eP	03	12.00	-0.6
CMB	59.45	321	eP	03	25.20	7.5X
ORV	61.07	322	eP	03	28.60	0.0
SCH	61.23	7	eP	03	28.00	-1.4
MIN	61.61	323	eP	03	36.00	3.5X
SES	63.36	336	ePc	03	42.80	-1.0
FFC	63.98	344	iPc	03	46.00	-1.7
	0.9s	11.00nm			5.0mb	
NEW	64.42	332	iP	03	50.00	-0.7
	1.0s	10.25nm			4.9mb	
PNT	66.34	331	eP	04	03.00	0.0
	0.7s	6.00nm			4.8mb	
TIC	73.07	81	P	04	44.80	-0.1
KIC	73.30	82	P	04	46.00	-0.2
YKA	74.08	343	eP	04	48.00	-1.8
	0.6s	3.50nm			4.5mb	
ATEJ	80.27	51	iPc	05	27.00	2.0
APHE	80.53	51	iPc	05	28.20	1.8
ASMO	80.59	51	iPc	05	28.00	1.3
INK	83.80	342	eP	05	42.30	-0.1
SPA	84.02	180	iPd	05	45.20	1.3
	0.6s	11.79nm			5.2mb	
MBC	85.69	351	ePc	05	52.30	0.5
	0.8s	9.00nm			5.0mb	
WRA	139.69	229	PKP	12	46.00	3.3X
	0.6s	0.50nm				
BTO	144.98	350	ePKP	12	50.70	-0.8
MTN	146.22	236	iPKPd	12	54.70	0.6
	0.4s	17.00nm				
GTA	146.64	4	ePKP	12	55.30	1.0
TIY	147.27	346	ePKP	12	56.80	1.5
LZH	150.06	358	PKP	13	05.00	5.2X

S.D. = 1.1 on 43 of 54 obs.

MAY 30, 1990 10h 40m 06.14± 0.08s
45.841 N ± 1.3km 26.668 E ± 1.1km
DEPTH = 89.3km (geophysicist)
6.7mb (38 obs.)

ROMANIA (358)

mb 7.1 (PAS). Mo=7.0*10**19 Nm (PPT). Nine people killed, more than 700 injured and severe domage in the Buchorest-Broilo-Brasov areo. Four people killed, some injured and many buildings domoged in Moldovio, USSR. One person died of o heort ottock and extensive domoge in northern Buglorio. Felt (VI) ot Silistro and (V) ot Sofio, Bulgorio. Felt (VI) ot Kishinev; (IV) ot Kiev, Lvov, Moscow, Rostov, Sochi and Uzhgorod; (III) ot Stovropol and Leningrod, USSR. Also felt in Hungory, Greece, Polond, Turkey and Yugoslovio. Depth from broodband displocement seismogroms.

FAULT PLANE SOLUTION: P-Woves
NP1:Strike=218 Dip=62 Slip= 82
NP2: 55 29 105
Principol Axes:
T Plg=72 Azm=110
P 17 314
Comment: The focal mechonism is well controlled and corresponds to reverse foulting with o small strike-slip component. The preferred foult plone is NP2.

RADIATED ENERGY
No. of sto: 6 Focal mech. F
Energy 2.2±0.7*10**14 Nm

CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 14S, 36C M.W.: 10S, 25C
Centroid Location:
Origin Time 10:40:12.7 0.2
Lat 45.92N 0.02 Lon 26.81E 0.02
Dep 74.3 0.7 Holf-durotion 11.4
Moment Tensor; Scole 10**19 Nm
Mrr= 2.56 0.03 Mtt=-1.20 0.03
Mff=-1.35 0.03 Mrt=-1.63 0.04
Mrf=-0.70 0.04 Mtf=-1.03 0.02
Principol Axes:
T Vol= 3.19 Plg=70 Azm=168
N -0.36 9 51
P -2.82 17 318
Best Double Couple:Mo=3.0*10**19
NP1:Strike= 33 Dip=29 Slip= 70
NP2: 236 63 101

VRI	0.05	54	iPc	40	19.60	1.4
BRD	0.42	140	iPd	40	21.60	1.2
MLR	0.62	236	iPc	40	23.70	1.5
ISR	0.71	187	iPd	40	24.10	1.1
BAC	0.74	12	iPd	40	35.00	11.8X
PPE	0.76	60	iPd	40	22.00	-1.4
CLI	0.83	31	iP	40	21.70	-2.5
PTT	1.11	350	iPc	40	29.00	1.6
CMP	1.28	244	iPc	40	35.00	5.5X
IAS	1.49	24	iPc	40	32.00	-0.1
BUC1	1.56	197	iPd	40	34.10	1.1
TL8	1.58	142	iP	40	33.20	-0.1
TNR	1.69	264	iPc	40	36.00	1.3
PSN	2.41	153	iPd	40	46.00	1.6
DEV	2.63	272	iPd	40	49.00	1.6
PVL	2.79	200	iPc	40	52.00	2.4
JMB	3.37	181	iPc	40	58.00	0.4
CEI	3.43	304	iPd	41	02.00	3.6X
BZS	3.54	268	iPc	41	01.00	1.0
PGB	3.75	210	iPc	41	04.00	1.1
TIM	3.81	270	iPd	41	05.00	1.3
DIM	3.88	193	iP	41	05.00	0.4
SOF	3.96	218	P	41	08.00	2.2
PLD	4.00	201	P	41	06.00	-0.2
UZH	4.08	315	iP	41	07.00	-0.4
VTS	4.09	219	iPc	41	08.00	0.3
DMK	4.09	169	iPn	41	07.00	-0.6
KDZ	4.29	193	iPd	41	11.00	0.7
RZN	4.39	199	P	41	12.00	0.2
BEO	4.50	259	iPn	41	13.70	0.5
MMB	4.75	208	P	41	18.00	1.2
RDO	4.76	190	iPnd	41	16.00	-0.9
CTT	4.86	164	P	41	17.79	-0.5
ALN	4.96	185	P	41	19.60	-0.1
ITU	5.03	159	iPd	41	19.00	-1.6
ISK	5.08	159	iP	41	19.50	-1.8
PSZ	5.09	297	iPn	41	21.30	-0.2
SRS	5.22	206	ePn	41	23.50	0.2
SIM	5.32	97	iPd	41	20.60	-4.1X
			eS	41	25.00	
SKO	5.41	226	iPnd	41	26.00	0.2
			iPb	41	35.00	
			iPg	41	45.00	
			iSn	42	24.00	
			iSg	42	51.00	
			Lg	43	56.00	
KGT	5.41	175	eP	41	23.50	-2.4
VAY	5.41	215	iPnc	41	26.00	0.1
KNT	5.42	212	iPd	41	23.50	-2.6
GBZT	5.44	157	iPd	41	24.80	-1.5
HRT	5.47	155	iP	41	25.50	-1.3
BUD	5.51	290	iP	41	26.40	-0.9
EDC	5.56	171	iP	41	26.80	-1.2
SOH	5.57	207	iPc	41	26.10	-2.0
YLV	5.63	159	iP	41	27.50	-1.5
IVA	5.69	241	ePn	41	30.50	0.7
			eSn	42	31.00	
KCT	5.72	167	P	41	29.50	-0.8
KCT	5.72	167	iP	41	25.00	-5.3X
PLE	5.77	247	iPnd	41	31.00	0.0
			eSn	42	32.20	
GRG	5.79	214	iPc	41	30.90	-0.2
PVY	5.80	238	iPnd	41	32.20	0.8
			eSn	42	32.50	
OUR	5.84	201	iPc	41	31.30	-0.6
THE	5.87	209	iP	41	31.90	-0.3
IZI	5.87	159	iP	41	31.50	-0.9
KKS	5.88	232	iPn	41	33.00	0.7
BCI	5.89	236	iPnd	41	34.00	1.6
EZN	6.02	183	iP	41	32.00	-2.3
SRO	6.06	292	iP	41	35.30	0.4
PHP	6.13	230	iPnd	41	35.70	-0.1
GPA	6.16	153	iP	41	35.20	-1.0
KRA	6.18	315	iPd	41	36.40	-0.1
			i	42	54.00	
NKY	6.28	244	iPnd	41	38.00	0.0
			eSn	42	43.20	
PAIG	6.30	201	ePd	41	37.40	-0.8
TTG	6.33	240	iPnd	41	39.00	0.5
			eSn	42	45.80	
FNA	6.36	219	iPd	41	39.30	0.2
OHR	6.37	224	iPnc	41	39.60	0.4
SDA	6.43	236	iPnd	41	41.20	1.2
LIT	6.50	210	iPd	41	40.10	-0.9
BRY	6.52	246	iPnd	41	41.40	0.0
			eSn	42	50.50	
LACI	6.56	233	iPn	41	43.00	1.3
ULC	6.61	237	ePn	41	44.00	1.5
			eSn	42	54.00	
BDV	6.67	241	iPnd	41	44.50	1.2
			eSn	42	53.00	
TIR	6.67	230	iPn	41	44.50	1.2
			iSn	42	54.50	
KBN	6.74	221	iPnd	41	44.80	0.6
HCY	6.78	243	iPnd	41	46.00	1.1
			eSn	42	58.00	
KAS	6.82	128	iPd	41	43.30	-2.1
ZST	6.95	293	iPd	41	46.30	-0.8
NEO	7.01	202	iPnc	41	46.40	-1.6
RAC	7.10	310	iP	41	49.00	-0.1
BERA	7.10	226	iPn	41	50.40	1.3
SOP	7.18	288	iPn	41	51.90	1.6
LSK	7.22	220	iPn	41	51.30	0.4
ALT	7.24	158	iP	41	50.50	-0.8
TPE	7.38	224	iPnd	41	53.00	0.0
VIE	7.44	293	iP-	41	55.00	1.1
ZAG	7.47	274	iPd	41	54.70	0.5
			iS	43	20.00	
VKA	7.47	293	iPd	41	53.60	-0.7
PTJ	7.48	274	iPd	41	54.70	0.2
BBTK	7.48	141	iPd	41	52.00	-2.5
VLO	7.50	227	iPnc	41	56.70	2.0
AGG	7.53	207	ePd	41	40.00	-15.1X
SRN	7.71	222	iPnc	41	58.80	1.3
HVAR	7.78	254	iPd	41	59.30	0.8
KHL	7.81	163	iP	41	57.70	-1.3
IGT	7.84	219	ePc	42	00.90	1.5
KEK	7.94	222	iPnc	42	01.20	0.5
VBY	8.00	272	iPd	42	02.80	1.2
SMG	8.13	179	iPnd	42	01.00	-2.3
ATH	8.16	197	ePn	42	02.50	-1.3
			eSn	43	30.00	
KVT	8.31	122	iP	42	01.60	-4.3X
LCI	8.42	232	P	42	06.50	-0.8
LJU	8.46	276	iP	42	08.10	0.2
KSP	8.53	310	iPd	42	07.00	-1.8
BAI	8.54	240	Pd	42	08.00	-0.9
CEY	8.56	274	iPd	42	09.90	0.7
YER	8.78	172	iP	42	12.00	-0.3
KMR	8.86	289	iP-	42	13.50	0.2
BCK	8.87	159	iP	42	12.90	-0.6
VLS	8.89	213	iPnc	42	12.00	-1.7
VOY	8.91	276	iP	42	14.00	0.0
TRI	9.02	274	iPnd	42	17.00	1.5
			iSn	43	58.00	
			i	44	57.40	
			i	45	05.60	
PRU	9.14	301	iPnd	42	16.30	-0.8
	Z 15s	415.00um				
			eSn	44	08.00	
KBA	9.28	282	iPd	42	19.80	0.6
	2.0s	********	nm			7.8mb X
			i	42	21.50	
KBA	9.28	282	iPd	42	20.50	1.3
FG4	9.37	244	P	42	20.31	0.1
ELL	9.41	164	iP	42	21.20	0.4
KHC	9.45	295	iPnd	42	21.10	-0.3
			e	44	22.00	
VLI	9.54	198	ePn	42	21.00	-1.5
BHG	9.65	286	iPd	42	24.70	0.7
FVI	9.66	279	Pd	42	24.90	0.8
DUI	9.77	249	Pc	42	25.80	0.1
SGO	9.83	242	Pc	42	21.00	-5.4X
BRG	9.85	305	iPd	42	25.10	-1.6
WET	9.90	294	iPd	42	27.00	-0.4

30d 10h

MGR	9.93	239	Pd	42	09.70	-18.2X	BSF	13.75	285	P	43	17.47	-0.9	HLW	16.37	165	eP	43	50.00	-1.7
KSL	9.96	166	iPnd	42	27.50	-0.7	AUTN	13.76	269	P	43	18.75	0.1	KOT	16.39	164	eP	43	49.50	-2.5X
ARV	10.06	261	Pd	42	29.90	0.4	DOI	13.77	271	Pd	43	17.20	-1.5	NOH	16.45	154	iPd	43	52.70	-0.1
AQU	10.16	255	Pd	42	31.70	0.8	STV	13.77	270	Pd	43	18.08	-0.6	PYM	16.49	278	P	43	52.08	-1.2
SDI	10.17	251	Pd	42	30.70	-0.4	SBF	13.79	269	iPd	43	18.80	-0.1	BGF	16.50	281	iPd	43	52.10	-1.2
RSM	10.27	264	Pd	42	33.30	0.9	AURF	13.86	269	P	43	19.93	0.1	TAB	16.53	111	iPd-	43	55.00	1.1
AZI	10.29	253	P	42	33.08	0.4	REVF	13.87	268	P	43	19.90	0.0	MAF	16.73	280	iPd	43	55.30	-0.9
ASS	10.39	260	Pd	42	34.60	0.5	PZZ	13.87	271	Pd	43	18.18	-1.8	PRNI	16.79	154	iPd	43	56.70	-0.2
SCE	10.40	282	iPd	42	35.30	1.0	TOUF	13.88	269	P	43	20.70	0.5	SUF	16.92	359	iP	43	52.50	-5.8X
CTI	10.47	277	P	42	35.54	0.4	LPG	13.93	276	iPd	43	21.20	0.2	TCF	16.97	280	iPd	43	58.50	-0.6
WATA	10.50	284	iPd	42	36.40	0.8	LPL	13.94	276	iPd	43	21.60	0.5	KONO	17.18	330	ePd	43	55.81	-5.8X
	1.8s	*******	nm			7.9mb X	MVIF	13.98	269	P	43	21.85	0.4	CAF	17.30	276	iPd	44	03.70	0.5
CLL	10.57	306	iPd	42	34.90	-1.5	RRL	14.01	273	Pd	43	20.95	-1.0	LSF	17.44	280	iPd	44	04.70	-0.2
			iS	44	31.00		HAU	14.05	286	iPd	43	21.90	-0.4	ETER	17.46	267	iPd	44	06.50	1.4
VAM	10.59	191	iPbc	42	36.00	-0.7		2.0s	*******	nm			7.0mb	SLY	17.52	119	iPc	44	06.50	0.6
MNS	10.63	256	Pd	42	37.60	0.3	PUL	14.12	8	iPd	43	18.00	-5.0X				iS	47	21.50	
SFI	10.69	265	Pc	42	38.50	0.5				iS	45	41.00		RJF	17.60	277	iPd	44	07.80	0.9
CRE	10.70	263	Pd	42	39.50	1.2	PLH	14.14	299	ePd	43	22.50	-0.8	NB2	17.71	335	P	44	03.60	-4.5X
GRC1	10.74	293	iPd	42	39.10	0.4	CALN	14.20	269	P	43	24.95	0.7	HQL	17.81	155	iPc	44	10.10	0.6
			eS	44	48.00		PTS	14.23	236	P	43	25.20	0.7	LPO	17.96	275	iPd	44	12.90	1.7
SQTA	10.74	283	iPd	42	39.80	0.9	VITF	14.30	287	P	43	25.48	0.1	BLS1	18.04	326	iP	44	09.20	-3.0X
FUR	10.77	288	iPd	42	39.70	0.6	WLF	14.31	293	iPd	43	25.80	0.3	LFF	18.21	276	iPd	44	16.00	1.7
PGD	10.79	265	Pd	42	40.40	0.8				e	43	42.40		LDF	18.37	288	iPd	44	15.20	-1.1
HOF	10.86	300	iPd	42	39.50	-0.8	CGL	14.33	249	P	43	25.94	0.0	ESEL	18.44	259	iPd	44	17.00	-0.1
RMP	10.86	253	Pd	42	39.90	-0.4	ADI	14.34	150	iPd	43	25.40	-0.7	ODD1	18.46	327	iP	44	15.10	-2.1
OGA	10.86	281	iPd	42	41.70	1.1	HRI	14.36	148	iPd	43	25.90	-0.5	AYN	18.47	153	iPc	44	11.10	-6.4X
RDP	10.88	253	P	42	37.56	-3.0X	JCK	14.39	298	ePd	43	25.60	-0.8	BADA	18.50	156	iP	44	17.70	-0.1
BRN	11.00	312	iPd	42	41.00	-1.0	WTS	14.41	302	iPd	43	24.60	-2.2	BHD	18.50	127	iPd	44	19.00	1.2
SOI	11.07	229	Pc	42	41.00	-2.0				e	43	33.50					iPP	44	46.50	
GMB	11.10	230	iP	42	43.00	-0.6	FRF	14.42	268	iPd	43	27.10	0.1				iPPP	44	58.00	
MOX	11.12	301	iPd-	42	43.00	-0.8	MEM	14.56	297	iPd	43	28.67	0.0				iS	47	46.00	
OBN	11.21	31	iPc	42	39.70	-5.2X				e	43	40.80					iSS	48	24.50	
			eS	44	40.00		LMR	14.58	267	iPd	43	29.30	0.3				iPcP	48	33.00	
MSI	11.24	231	P	42	44.60	-0.7	ATZ	14.59	150	iPd	43	29.30	0.0				iSSS	48	36.00	
SAL	11.29	275	Pd	42	46.20	0.2	ENN	14.64	297	iPd	43	28.30	-1.5				iLQ	50	54.00	
ATN	11.32	231	Pd	42	45.00	-1.4				i	43	36.20					iLR	51	48.00	
MME	11.43	267	Pc	42	49.30	1.3	LRG	14.65	268	iPd	43	30.50	0.6	MFF	18.54	282	iPd	44	18.00	-0.3
OSS	11.47	280	iPd	42	49.50	0.9		2.0s	*******	nm			7.1mb	KMY	18.57	324	iPc	44	17.80	-0.6
8DI	11.53	267	Pd	42	49.30	0.1	NUR	14.74	356	iPd	43	25.40	-5.6X	FLN	18.61	289	iPd	44	17.90	-1.1
MAO	11.66	258	Pd	42	50.60	-0.4				e	44	06.00			1.0s	*******	nm			7.2mb
PII	11.67	265	Pd	42	50.90	-0.1				e	44	46.00		GRR	18.87	288	iPd	44	20.80	-1.0
LFK	11.76	151	iP	42	51.80	-0.6				e	45	58.00		EPF	18.98	271	iPd	44	22.40	-0.8
PPCY	11.76	156	ePd	42	51.00	-1.3	WIT	14.76	305	iPd	43	29.20	-2.1	LPF	19.01	287	iPd	44	22.40	-0.9
MDI	11.84	276	Pd	42	53.00	-0.2				e	43	38.50		BER	19.26	327	iP	44	24.30	-1.5
BSD	11.91	325	iPd	42	50.00	-4.1X	TAVF	14.82	269	P	43	33.16	1.0	ASK	19.37	327	iPd	44	26.80	-0.2
	0.5s	3360.00	nm			7.4mb	GANF	14.82	270	P	43	33.12	0.9	HYA	19.46	329	iPd	44	28.00	0.1
MNO	11.91	233	Pd	42	54.50	0.1	GLH	14.83	149	iPd	43	33.20	0.9	JAU	19.47	271	P	44	27.89	-0.6
CSS	11.99	153	ePd	42	53.50	-1.8	VILF	14.99	270	P	43	35.80	1.4	OGE	19.51	272	P	44	28.30	-0.4
SAX	12.01	283	iPd	42	55.40	-0.5	MML	14.99	150	iPd	43	35.20	0.8	RGS	19.53	338	ePd	44	28.00	-0.6
BOB	12.18	271	P	42	58.50	0.7	UPP	15.04	342	iPd	43	30.10	-4.7X	ESCF	19.61	272	P	44	29.00	-0.7
FAM	12.18	150	eP	42	56.30	-1.5				iS	46	06.00		EBR	19.65	265	iPd	44	30.00	-0.1
GIB	12.24	235	P	42	58.30	-0.4	MBZ	15.10	238	iPc	43	39.50	3.8X				iS	47	56.00	
USI	12.26	239	Pd	43	00.10	1.3	8ERF	15.16	268	P	43	37.76	1.2	LHE	19.69	271	P	44	31.17	0.5
MEU	12.39	229	iPc	42	59.00	-1.6	KCHT	15.24	241	iPc	43	39.30	1.7	ATE	19.69	272	P	44	29.93	-0.7
TMA	12.39	278	iPd	43	00.90	0.2	TREF	15.29	269	P	43	39.30	1.2	EROQ	19.71	265	iPd	44	30.60	-0.2
PZI	12.45	229	P	42	58.75	-2.6	GELF	15.32	268	P	43	39.82	1.3	MADF	19.76	272	P	44	30.60	-0.7
VAI	12.48	277	Pd	43	01.50	-0.2	DOU	15.37	294	iPd-	43	39.10	0.1	ISSF	19.78	272	P	44	31.56	0.0
SLE	12.60	285	iPd	43	02.60	-0.7	PRAF	15.39	270	P	43	40.50	1.1	ABA	19.86	251	P	44	32.00	-0.3
ZLA	12.67	284	iPd	43	03.30	-0.9	DBN	15.41	302	iP-	43	39.00	-0.5	ELYF	19.87	272	P	44	31.58	-0.9
MCT	12.72	234	P	43	07.00	2.0		4.0s	250.00	nm			4.8mb X	BOH	19.90	272	P	44	32.14	-0.8
PCP	12.85	271	Pd	43	06.90	0.3				iS	46	40.00		SUE	19.91	328	iPd	44	32.20	-0.4
FEL	12.93	286	P	43	06.87	-0.8	SSB	15.51	276	P	43	39.30	-1.6	NSS	20.42	342	iPd	44	36.60	-1.3
FAI	12.94	233	P	43	09.00	1.2	MSL	15.58	122	iPc	43	42.50	0.7	ESY	20.89	309	iPd	44	42.20	-0.5
TNS	12.95	296	iPd	43	07.20	-0.7				iPP	43	57.50		BST	21.01	288	P	44	42.76	-1.2
			eS	45	21.00					iPPP	44	04.00		EKA	21.04	308	P	44	43.00	-1.2
MMK	13.02	278	iPd	43	07.60	-1.4				eS	46	40.50			1.1s	2203.10	nm			6.4mb
ERC	13.05	238	P	43	10.50	1.2				eSSS	47	12.50		EBL	21.09	309	iPd	44	44.50	-0.2
ORX	13.06	276	Pd	43	07.62	-1.8				e	47	28.50		ECRI	21.11	272	iPd	44	45.40	0.3
ORO	13.06	276	P	43	07.90	-1.5				e	47	55.00		EDR	21.16	312	iPd	44	45.10	-0.3
CKI	13.06	270	Pd	43	09.00	-0.3				eLQ	48	58.00		WAJH	21.16	155	iPc	44	46.70	1.1
PGF	13.10	262	iPd	43	10.60	0.7				eLR	49	33.50		ECHE	21.18	263	iPd	44	46.30	0.4
STR	13.14	289	P	43	10.83	0.5	UCC	15.62	297	iPd-	43	43.00	0.8	TEH	21.19	110	ePc	44	48.00	2.0
FIN	13.16	269	Pd	43	09.98	-0.7	SNF	15.63	295	iPd	43	43.43	1.2	EDI	21.20	309	iPd	44	46.10	0.3
LVI	13.23	239	P	43	13.20	1.7				ic	44	01.35		EDU	21.29	311	iPd	44	46.30	-0.4
BBS	13.26	284	P	43	11.10	-0.9				e	46	54.90		ACU	21.30	260	iPd	44	47.60	0.6
GWF	13.27	291	P	43	11.66	-0.4	ZGN	15.63	239	iPc	43	44.00	1.5	EAU	21.33	309	iPd	44	47.20	0.1
WLS	13.40	288	P	43	14.10	0.3	LBF	15.69	282	iPd	43	41.80	-1.3	ETOR	21.43	267	iPd	44	48.30	0.0
DIX	13.40	278	iPd	43	13.90	-0.1	LOR	15.75	283	iPd	43	42.50	-1.4	YRH	21.44	300	iPd	44	48.70	0.5
CDF	13.45	288	P	43	14.49	0.0		1.6s	*******	nm			7.0mb	EBH	21.47	310	iPd	44	48.50	0.0
IMI	13.46	268	Pd	43	13.67	-0.9	SMF	15.81	281	iPd	43	43.20	-1.4	SOD	21.59	360	iPd	44	49.40	-0.1
ECH	13.52	287	P	43	15.04	-0.3	SSF	16.00	283	iPd	43	45.80	-1.2	ELO	21.64	310	iPd	44	49.00	-1.2
MOF	13.52	286	P	43	14.82	-0.6	PLDF	16.04	279	P	43	46.12	-1.5	EAB	21.90	309	iPd	44	53.00	0.3
RSP	13.64	274	Pd	43	14.90	-2.0	AVF	16.13	282	iPd	43	47.40	-1.2	APA	22.04	7	iPd	44	54.00	-0.1
LSD	13.66	275	Pd	43	16.54	-0.8	HFS	16.26	336	eP	43	46.00	-4.1X				iS	48	33.00	
ENR	13.71	270	Pd	43	17.15	-0.7		0.9s	1267.60	nm			6.1mb	ASW	22.29	165	iPd	44	58.05	1.2
LOMF	13.73	283	P	43	16.83	-1.2	MKT	16.27	153	iPd	43	51.40	0.8				eS	48	55.50	
EMS	13.74	278	iPd	43	17.70	-0.6	AGO	16.36	279	P	43	50.55	-1.1	EALH	22.31	259	iPd	44	58.10	1.2

```
ETA    22.38 300 iPd   44 58.40   0.9
ECP    22.44 298 iPd   44 58.60   0.5
DLE    22.63 301 iPd   45 01.00   1.1
AKRL   22.67 165 iPc   45 03.50   3.0X
EVIA   22.68 262 iPc   45 02.20   1.5
AKSR   22.74 165 eP    45 04.00   2.8X
AGMR   22.76 166 eP    45 05.00   3.7X
AWKL   22.85 166 eP    45 05.50   3.2X
AGAL   22.91 165 eP    45 06.00   3.1X
GUD    22.96 268 iPc   45 03.70   0.2
DCN    23.08 301 iPd   45 05.30   1.1
TOL    23.20 266 iPd   45 06.50   0.9
                 iS    49 59.00
KTK1   23.30 357 iPd   45 07.00   0.7
ENIJ   23.31 258 iPd   45 07.80   1.1
LOF    23.36 348 iPd   45 07.00   0.2
EBAN   23.79 262 iPc   45 11.80   0.4
QASM   23.88 140 iPc   45 14.50   2.1
KEV    23.98   0 iPd   45 13.77   0.9
                 e     45 50.00
                 iS    49 29.94
AFC    24.07 260 iPd   45 14.50   0.3
CRT    24.14 260 eP    45 15.45   0.6
ASMO   24.16 260 iPc   45 15.03   0.0
TRO    24.17 353 iPd   45 15.00   0.3
EMON   24.21 277 iPd   45 15.00  -0.4
APHE   24.32 259 iPc   45 16.71   0.0
ACHM   24.34 260 iPc   45 16.56  -0.2
ERUA   24.41 274 iPd   45 17.00  -0.3
AAPN   24.44 261 iPc   45 17.22  -0.5
ALOJ   24.53 260 iPc   45 17.80  -0.8
EPLA   24.54 268 iPd   45 17.90  -0.7
ATEJ   24.57 260 iPc   45 18.29  -0.7
VAL    24.83 298 iP    45 21.00  -0.1
                 S     49 36.00
MJMA   24.90 137 iPc   45 22.80   0.7
MAL    24.94 260 iPd   45 21.30  -1.0
                 iPP   49 32.00
EHOR   24.97 263 iPd   45 22.20  -0.4
STS    25.23 276 iPd   45 24.20  -0.8
EPRU   25.38 261 iPd   45 25.20  -1.3
AFIF   25.47 143 iPc   45 30.70   3.3X
EZAM   25.58 274 iPd   45 27.50  -0.7
ALJ    25.79 261 eP    45 30.00  -0.3
EJIF   25.81 260 iPd   45 28.70  -1.7
GIBL   25.95 261 eP    45 30.00  -1.7
OJEN   26.04 260 eP    45 32.00  -0.6
EVAL   26.12 264 iPd   45 32.20  -1.1
CNIL   26.25 261 eP    45 33.00  -1.4
NKM    26.30 258 iPd   45 33.00  -1.9
                 i     45 35.50
MAIO   26.36 100 iPc+  45 36.20   0.6
       1.5s   337.84nm          5.7mb X
                 eS    50 14.00
RYD    26.49 136 iP+   45 38.00   1.2
                 iS    50 00.00
TAIF   26.93 151 iPc   45 43.30   2.3
DHR    27.03 128 iPc   45 43.00   1.4
                 iS    50 15.00
IFR    27.21 254 iPc   45 42.00  -1.4
LIS    27.27 268 iPd   45 42.90  -0.8
RBA    28.08 257 iPc   45 50.50  -0.5
                 i     45 51.50
                 i     46 00.00
AVE    28.88 256 iPd   45 57.50  -0.8
                 i     46 22.50
TIO    30.22 252 iPc   46 09.60  -0.7
                 i     49 33.40
JNW    30.37 338 iPd   46 11.80   0.8
AKU    31.09 326 iPd   46 19.20   1.8
       2.3s  ********nm          7.3mb
                 i     46 42.00
DSH    31.74  88 iPc   46 25.00   1.5
                 eS    51 40.00
REY    32.28 322 iPd   46 29.70   1.9
                 i     46 52.50
KBS    33.66 355 iPd   46 40.20   0.5
FRU    34.02  77 iPc   46 44.40   1.1
                 iS    52 05.00
QUE    34.96 102 iPc+  46 52.30   0.7
                 eS    52 20.00
TLG    35.74  75 iPc   46 59.20   1.3
                 iS    52 33.20
DAG    36.02 344 iPd-  46 59.90   0.1
       1.4s  1511.63nm          6.7mb
KSH    36.35  82 iPd   47 05.00   1.9
     Z  12s   140.00um          7.0MszX

                 S     52 40.00
CFTV   36.39 256 iPd   47 03.70   0.2
OBO    36.58 152 iP+   47 07.46   2.4
TDD    36.63 153 iP+   47 07.79   2.3
HLD    36.68 154 iP+   47 07.84   2.0
DAF    36.70 153 iP+   47 07.99   1.9
KSU    36.75 154 iP+   47 08.44   1.9
MKL    36.79 152 iP+   47 09.06   2.2
ARO    36.87 153 iP+   47 09.72   2.1
SGH    36.89 153 iP+   47 10.06   2.3
ATA    37.05 152 iP+   47 11.59   2.6
GBR    37.10 154 iP+   47 12.23   2.7
GGC    37.63 257 iPd   47 13.90   0.0
CTFE   37.83 258 iPd   47 16.20   0.7
AAE    38.13 160 iP    47 20.50   2.1
TBT    38.84 260 iPd   47 24.20   0.2
PDA    39.24 277 iPd   47 28.00   0.9
CHIE   39.47 258 iPc   47 30.40   1.2
BCAO   41.85 192 iPd   47 49.00   0.2
       1.6s   325.00nm          5.9mb
WMQ    42.40  70 iPc   47 54.39   1.3
     N  10s   206.00um
                 esPd  48 26.01
                 PP    54 08.00
NDI    42.97  96 iPc   47 59.00   1.2
       0.5s   401.41nm          6.5mb
                 ePP   49 40.00
                 e     50 01.00
                 iS    54 14.00
                 SS    57 16.00
GDH    44.72 330 iPd   48 11.98   0.5
                 i     48 33.00
                 ipPd  48 33.33  89kmX
                 i     49 52.00
                 i     54 42.00
                 i     58 02.00
LKO    45.50 228 Pc    48 17.64  -0.6
KUK    45.92 219 iPd   48 20.00  -1.5
                 S     54 57.30
KOGH   45.96 219 eP    48 21.50  -0.4
                 S     54 58.00
SHGH   46.01 218 iPd   48 21.50  -0.7
                 S     55 00.00
LEGH   46.32 218 iPd   48 23.80  -0.9
                 e     55 01.80
WEGH   46.43 219 iPd   48 25.00  -0.6
                 S     55 10.00
BOM    46.47 110 iP    48 26.50   0.7
                 iS    55 07.00
TIC    47.69 225 Pc    48 34.60  -0.9
NAI    47.76 166 iPc   48 38.20   1.9
       1.0s   820.00nm          6.6mb
KIC    47.80 224 Pc    48 35.50  -0.8
       0.5s  1547.00nm          7.1mb
                 S     55 22.00
LIC    48.06 225 Pc    48 37.70  -0.6
MBO    48.17 244 iPc   48 40.00   0.9
                 iS    55 31.50
IRK    49.00  53 iPc   48 45.00  -0.2
                 eS    55 30.00
TIK    50.85  24 iPc   48 59.00   0.0
                 eS    56 05.00
HYB    51.34 106 iPc   49 02.50  -1.0
       1.0s   810.00nm          6.7mb
                 eS    56 13.00
LSA    52.08  84 P     49 09.50   0.0
FRB    52.25 326 iPd   49 08.60  -1.1
GTA    52.47  69 iPc   49 12.00   0.1
     Z  24s   145.00um          6.9MszX
     E  12s    79.80um
                 PP    51 16.00
                 iS    56 30.00
                 sS    57 04.00
                 SS    00 10.00
KOD    55.87 113 iP    49 36.50  -0.6
                 iS    57 16.00
SCH    56.03 316 iPd   49 35.90  -1.6
       2.0s  1415.00nm          6.7mb
                 pP    49 54.00  70kmX
MBC    56.25 351 ePc   49 39.00   0.2
LZH    56.98  70 iPc   49 45.14   0.5
       9.0s  ********nm          7.4mb X
                 ipPd  50 08.64  95kmX
                 esPd  50 17.42
                 PcP   50 39.00
                 PP    51 57.00
                 PcS   54 40.00

                 iS    57 30.00
                 sS    58 12.00
BTO    58.32  63 iPc   49 54.00   0.1
       6.0s  ********nm          7.4mb X
     N  11s    31.10um
     E  11s    38.30um
                 pP    50 15.00  83kmX
                 PP    52 07.00
                 iS    57 52.00
HIA    58.95  50 iPc   49 58.33   0.2
                 ipPd  50 20.51  88kmX
HHC    59.13  62 iPc   49 59.00  -0.6
       6.0s  ********nm          7.4mb X
     Z  34s   166.00um          6.9MszX
     N  12s    58.50um
     E  16s    89.00um
CD2    60.02  75 iPc   50 05.40  -0.3
       6.0s  ********nm          7.6mb X
                 PP    52 16.00
                 iS    58 05.50
CBM    61.27 309 iPc   50 12.60  -1.3
XAN    61.53  69 iPc   50 15.50  -0.4
       9.0s  ********nm          7.4mb X
     N  10s    37.50um
     E  10s    34.30um
                 PP    52 32.00
                 S     58 30.00
TIY    61.54  64 iPc   50 15.70  -0.3
       8.0s  ********nm          7.3mb X
     Z  28s    82.70um          6.7MszX
     N  12s    46.00um
     E  10s    32.70um
                 pP    50 35.50  77kmX
                 PP    52 34.00
                 S     58 30.00
                 sS    59 09.50
                 SS    02 34.00
EMM    62.26 307 P     50 19.50  -1.0
BJI    62.43  60 iPc   50 20.70  -1.0
       6.0s  ********nm          7.2mb X
     E  10s    35.10um
                 epPd  50 43.21  89kmX
                 esPd  50 53.97
                 ePP   52 37.42
                 eS    58 43.00
                 esS   59 19.00
KMI    62.97  81 iPc   50 25.23  -0.5
     Z  36s    47.50um          6.4MszX
                 ipPd  50 49.07  95kmX
                 PP    52 43.00
                 iS    58 48.00
                 SS    02 56.00
BNH    64.44 308 P     50 34.40  -0.5
CHG    64.48  89 iPc+  50 35.00  -0.5
                 eS    59 16.00
GYA    64.80  77 iPc   50 37.00  -0.6
       4.0s  ********nm          7.5mb X
     Z  24s    30.40um          6.4MszX
     N  18s    22.60um
     E  18s    32.30um
                 pP    51 04.00 109kmX
                 S     59 10.00
ILT    64.98  10 iPc   50 38.00   0.0
                 iS    59 14.00
INK    65.21 352 eP    50 39.00  -0.4
       1.0s   652.00nm          6.5mb
TIA    65.41  63 Pc    50 40.20  -1.0
       9.0s  ********nm          7.0mb X
     N  12s    26.70um
     E  12s    33.80um
                 PP    53 08.00
                 S     59 12.00
                 sS    59 58.00
                 SS    03 36.00
CN2    65.42  52 iPc   50 40.50  -0.7
       6.0s  ********nm          7.2mb X
     Z  18s    47.40um          6.7Msz
     N  17s    64.20um
     E  17s    81.50um
                 pP    51 03.20  89kmX
                 sP    51 12.00
                 iS    59 20.00
                 SS    03 37.00
HBVT   65.58 309 P     50 41.60  -0.5
BDT    65.58  90 iPc   50 32.90  -9.6X
SNY    65.66  55 iPc   50 42.00  -0.6
       9.0s  ********nm          7.1mb X
```

30d 10h

	Z	32s		80.60um			6.7MszX					iS	00	34.00			PPI		79.04	102	eP	52	00.00	-1.9
	N	14s		56.70um					YSS	71.86	40	iPc	51	22.00	1.2			1.7s	2358.50nm				6.8mb
	E	15s		86.60um								iS	00	36.00			CPD		79.04	285	iP	52	02.10	0.1
				PcP	51	08.00			QIZ	71.92	81	iPc	51	22.00	0.4		TUH		79.06	186	iPc	52	01.50	-0.1
				PP	53	10.00				E 18s		72.40um					SVB		79.17	278	eP	52	03.08	0.3
				iS	59	20.00						pP	51	45.00	88kmX		FVM		79.24	314	ePc	52	02.70	-0.1
BUL		65.69	178	iPd	50	30.00	-13.1X					PP	54	04.50			KGM		79.26	98	iPc	52	03.10	-0.1
				i	59	09.00						iS	00	36.00					1.0s	2816.10nm				7.1mb
				i	59	52.50						sS	01	17.00							e	52	29.30	
HRV		65.96	307	ePc	50	45.28	0.7		CBN	72.13	307	iPc	51	22.70	0.1		ITR		79.46	246	iPc	52	04.70	0.4
				ipPd	51	07.30	85kmX					i	51	39.00			PORP		79.52	285	iP	52	04.80	0.3
				esP	51	17.39			TOA	72.25	356	P	51	23.90	0.9		CCM		79.60	315	ePc	52	04.74	0.1
WNY		65.99	309	P	50	44.00	-0.8		MCO	72.37	76	iP	51	24.50	0.3						ipPd	52	27.75	87kmX
DL2		66.42	58	iPc	50	46.00	-1.6		HKC	72.66	76	iPc	51	26.80	0.9		MGP		79.86	285	iP	52	06.90	0.6
		6.0s	********	nm			7.1mb X					ipP	51	50.80	92kmX		RSSD		80.34	326	iPc+	52	08.50	-0.4
	Z	30s		53.00um			6.6MszX					iS	00	48.00							ipP	52	33.00	93kmX
	N	15s		58.20um					PMR	72.87	358	iPc	51	26.60	0.1		ADK		80.60	14	P	52	08.10	-1.6
	E	14s		73.30um						1.0s		673.00nm			6.5mb				1.2s	1636.36nm				6.8mb
				pP	51	10.00	94kmX					ipP	51	49.50	87kmX		PNT		80.78	338	iPc	52	12.00	1.2
				S	59	28.00						isP	51	59.50			HRY		80.88	332	ePc	52	11.70	0.2
				sS	00	09.00			HYT	72.91	352	Pc	51	28.10	1.1		BAG		81.08	76	iPc+	52	13.00	0.0
MDJ		67.12	49	iPc	50	51.00	-0.9		PET	73.30	28	iPc	51	28.00	-1.2						iS	02	13.00	
		6.0s	********	nm			7.3mb X					eS	00	50.00			TRN		81.12	276	eP	52	14.05	1.0
				pP	51	16.00	98kmX		SVW	73.39	1	P	51	31.20	1.6				0.7s	248.80nm				6.2mb
				PP	53	24.00			SNG	73.71	97	iPc+	51	32.00	-0.1		SXM		81.17	332	ePc	52	13.70	0.6
				iS	59	40.00				1.0s		1444.00nm			6.8mb		TPP		81.38	276	eP	52	15.91	1.5
				ScS	00	37.00						eS	00	51.60			OLY		81.70	313	iP	52	15.00	-0.8
WHN		67.30	69	iPc	50	53.00	-0.2		QZH	73.82	71	iPc	51	31.50	-1.1						ipP	52	40.00	95kmX
		8.0s	********	nm			7.1mb X			7.0s	********	nm			7.0mb X		BUT		81.73	333	eP	52	17.40	1.4
	Z	24s		46.20um			6.6MszX			Z 26s		29.30um			6.5MszX		LRM		81.86	332	ePc	52	17.20	0.4
	N	10s		9.20um						N 11s		15.80um					BGMT		82.25	332	ePc	52	19.80	1.0
	E	11s		21.30um						E 12s		13.50um					PGC		82.34	341	ePc	52	19.90	1.0
				pP	51	15.00	85kmX					pP	51	54.50	88kmX				0.6s	233.00nm				6.3mb
				iS	59	40.00						PP	54	13.00			MAN		82.66	77	P	52	27.00	6.0X
LOE		67.38	88	iPc	50	52.00	-1.9					iS	00	54.50			RMW		83.06	339	P	52	22.90	0.1
NST		67.44	91	iPc	50	54.70	0.4					sS	01	32.00			CUM		83.17	278	iP	52	24.00	0.4
YKA		67.66	342	eP	50	55.00	-0.1					SS	05	38.00							i	52	48.00	
		0.7s	339.30nm				6.4mb		BLA	74.54	308	iPc	51	37.00	0.3		GMW		83.22	340	P	52	24.50	1.0
TXNY		68.31	307	iP	51	00.10	0.7			1.0s		750.00nm			6.5mb		TUL		83.51	316	iPc+	52	24.60	-0.6
TBR		68.35	307	P	50	59.90	0.2					pP	51	59.90	87kmX				0.6s	30.00nm				5.4mb X
IMA		68.43	0	P	51	00.80	0.9		BLF	74.59	180	iPc	51	36.50	-0.5			Z 18s		62.68um				7.0Msz
PNJ		68.47	307	iP	51	00.50	0.1		TSI	74.92	101	ePd	51	38.00	-1.1						eSKS	02	41.00	
				pP	51	23.10	87kmX		POF	75.11	186	iPd	51	40.00	0.3						LR	14	40.00	
				PP	53	30.20			FRS	75.24	181	iPc	51	38.50	-2.0		LON		83.72	339	ePc	52	26.05	0.0
GMTN		68.51	307	iP	51	01.70	1.1			0.6s		40.00nm			5.5mb X						epP	52	48.90	85kmX
NJ2		69.21	65	iPc	51	04.00	-1.0		EDM	75.57	336	iPc	51	42.20	-0.1						ePP	55	58.66	
		6.0s	********	nm			7.0mb X		ANP	75.58	69	iP	51	44.20	1.3		UYO		84.26	314	iPd	52	28.30	-0.6
	Z	30s		30.20um			6.4MszX					eS	52	05.60			BMW		84.33	340	P	52	30.20	1.0
	N	11s		14.10um					IPM	75.84	98	ePd	51	45.50	1.1		GLD		84.52	325	iP	52	30.50	0.1
	E	13s		15.30um								e	52	24.00					1.0s	1840.00nm				7.0mb
				pP	51	27.00	89kmX		SHK	75.86	55	iPc	51	43.20	-1.0		GUAN		84.55	279	iPd	52	29.50	-1.3
				sP	51	41.00				1.0s		632.00nm			6.4mb		GOL		84.62	325	iPc	52	30.80	-0.2
				PP	53	39.00			HVD	76.09	181	iPc	52	02.50	17.0X		LLAV		84.98	280	iPc	52	33.50	0.6
				iS	00	02.00				1.5s		238.89nm					CAR		85.04	280	eP	52	33.50	0.3
				sS	00	43.50						i	52	27.50			OLLA		85.30	279	iPc	52	35.00	0.5
				ScS	00	52.00			SIT	76.37	350	P	51	47.90	1.3		KKM		85.39	86	iPc	52	35.00	0.0
FBA		69.52	357	P	51	07.00	0.6		CPB	76.53	281	eP	51	48.14	0.0				1.0s	1357.40nm				6.9mb
ANM		69.53	6	P	51	07.10	0.6		LHS	76.73	306	P	51	48.60	-0.5						e	52	48.00	
DWY		69.90	354	Pc	51	09.40	0.6					pP	52	08.80	75kmX		GUAC		85.50	280	iPd	52	37.00	1.4
SCP		70.60	309	ePc	51	13.93	0.5		KDC	76.78	360	P	51	50.10	1.3		MORO		85.74	281	iPd	52	37.50	0.8
				ipPd	51	36.45	86kmX		BPA	76.97	281	eP	51	50.22	-0.4		PLAV		85.89	280	iPc	52	38.40	0.8
				esPc	51	46.21			SFG	77.06	280	eP	51	50.54	-0.5		COR		86.11	339	ePc	52	39.75	1.8
ELF		70.74	313	P	51	13.80	-0.4		SEG	77.17	280	eP	51	52.18	0.5						epP	53	02.09	83kmX
FFC		70.78	331	iPc	51	13.70	-0.6		SKI	77.37	282	eP	51	53.23	0.4						e	55	37.10	
		1.0s	347.00nm				6.2mb		MGG	77.38	280	eP	51	51.07	-1.8						ePP	56	22.12	
LDN		70.78	312	P	51	13.90	-0.6		SES	77.38	334	ePc	51	52.00	-0.5		TSM		87.98	86	ePd	52	46.50	-0.9
DLA		71.11	312	P	51	15.30	-1.2			0.9s		1296.00nm			6.8mb				1.0s	2288.50nm				7.2mb
SLR		71.25	178	iPc	51	17.70	0.2					pP	52	15.00	87kmX		ANMO		89.13	323	ePc	52	53.27	0.3
	Z	17s		31.97um			6.6MszX		NEV	77.39	282	eP	51	53.63	0.7				1.5s	798.60nm				6.7mb
SSE		71.32	65	iPd	51	16.00	-1.9		MGH	77.44	281	eP	51	53.74	0.5						epP	53	15.95	83kmX
	Z	20s		31.70um			6.6Msz		MAJO	77.46	50	iPc	51	52.27	-0.8						iPP	56	44.42	
	N	12s		18.00um								epPd	52	15.78	89kmX		ALQ		89.13	323	iPc+	52	52.70	-0.3
	E	11s		5.70um					MAT	77.46	50	iPc	51	52.80	-0.3				1.5s	1215.28nm				6.9mb
				PcP	51	40.00				1.2s		1375.00nm			6.7mb			Z 22s		101.85um				7.2Msz
				pP	51	41.80	101kmX			Z 20s		24.11um			6.5Msz		MIN		89.62	336	iPc	52	55.20	0.1
				sP	51	54.00						eS	01	36.00							ipP	53	20.30	93kmX
				PP	53	55.00			PAG	77.55	280	eP	51	54.60	0.7		WDC		89.66	337	iPc	52	54.50	-0.6
				S	00	22.00			GBTN	77.75	309	P	51	54.20	-0.5						ipP	53	20.00	95kmX
				SKS	01	03.00			BBL	77.76	280	eP	51	54.91	-0.1						ePKKP	10	24.50	
				ScS	01	06.00			SMY	77.92	20	P	51	55.00	-0.2						e	10	52.20	
KSR		71.36	180	iPc	51	16.00	-2.2			1.3s		1257.86nm			6.6mb		KVN		89.77	333	iPc	52	55.90	0.0
GZH		71.57	76	iPc	51	20.00	0.5		MVM	78.03	279	eP	51	56.41	-0.1						ipP	53	18.30	82kmX
	Z	30s		60.40um			6.7MszX		FDF	78.08	279	eP	51	56.92	0.1		FHC		89.84	338	ePc	52	56.80	0.8
	N	17s		34.40um								S	01	47.50							epP	53	21.60	92kmX
	E	12s		8.50um					BIM	78.18	279	eP	51	57.86	0.5		ORV		90.32	336	iPc	52	58.10	-0.1
				pP	51	42.00	84kmX		SLB	78.64	278	eP	51	59.97	0.1						epP	53	23.60	95kmX
				sP	52	53.00			SDN	79.01	4	P	52	00.80	-0.3						ePKKP	10	23.20	

30d 10h

TNP	90.37	332	P	52	58.60	-0.1			ePP	56	29.00					e	59	08.50					
			pP	53	23.60	93kmX			ePP	57	23.15			LCCH	118.44	250	iPKPd	58	44.00	-0.5		
BAO	90.76	248	eP	52	56.80	-3.7X			eSPP	57	26.00			LNV	118.63	250	iPKPc	58	43.60	-1.2		
BKB2	91.06	91	iPd	53	06.00	4.2X			ePPP	58	57.00			QIS	120.33	89	iPKPc	58	47.40	-1.0		
DAV	91.13	79	iPc+	53	01.50	-0.7			epPPP	59	32.00						e	00	12.00			
	1.9s	1347.37nm			6.9mb				eS	03	41.00			HNR	126.11	63	ePKP	58	58.00	-1.8		
CMB	91.40	335	ePc	53	03.74	0.5			ePS	04	49.00						eS	11	52.00			
			epP	53	26.58	84kmX			e	05	47.00			QLP	127.44	91	ePKP	58	56.00	-6.0X		
			esPc	53	37.18				eSS	09	37.00						i	59	02.00			
			ePP	56	27.00				ePKKP	10	06.00						i	59	30.00			
			ePKKP	10	22.30				esSS	10	42.00			ADE	128.57	103	iPKPc+	59	03.00	-1.0		
			e	10	48.10				eSSS	14	03.00				0.8s	171.64nm						
BMG	91.72	282	iPd	53	03.00	-2.0			eLQ	17	41.00			RMQ	130.54	88	ePdiff	56	06.60	8.2X		
NWRM	91.74	337	P	53	05.30	0.7			eLR	22	30.00						e	57	20.20			
			pP	53	31.00	95kmX	SYP	94.51	333 eP	53	19.00	1.3		RMQ	130.54	88	iPKP	59	08.00	0.1		
ZSP	92.04	336	eP	53	06.90	0.9			e	53	44.00						i	59	36.80			
BKS	92.09	336	ePc	53	07.40	1.1	CRZF	94.52	163 iPc	53	17.00	0.1					ePP	01	24.80			
	0.9s	171.00nm			6.4mb				ePP	57	07.00						e	01	51.60			
			epP	53	32.00	91kmX			eS	05	15.00						iSKP	02	23.20			
			ePP	57	10.00				eSP	06	55.00			AIA	130.80	214	ePKP	59	06.00	-1.1		
			e	03	32.00				eSS	11	05.00			CMS	131.50	95	ePKP	58	54.80	-14.8X		
			e	03	34.00				eSSS	15	40.00						i	59	09.00			
			eS	04	10.00		PLM	94.54	330 iPc	53	18.00	0.1					i	59	37.80			
			eSS	10	00.00				ipP	53	43.00	92kmX		BFD	132.37	103	ePKP	58	56.30	-14.7X		
			e	17	00.00				isP	53	57.30						e	59	19.40			
BRK	92.10	336	ePc	53	07.30	0.9	UPA	94.69	288 iP+	53	19.60	1.1					e	59	37.00			
Z	20s	72.00um			7.1Msz		Z	20s	24.47um			6.7Msz					ePP	01	36.40			
			ipP	53	32.00	91kmX	BAR	95.09	330 eP	53	21.00	0.8		BRS	133.91	86	ePdiff	56	29.00	15.7X		
			ePP	56	50.00				e	53	44.00						e	57	19.00			
			eS	04	10.00		MEX	98.71	309 eP	53	38.13	1.0					iPP	58	58.70			
			ePS	05	16.00		PSO	98.87	281 eP	53	38.50	0.5					i	59	12.50			
			eSS	10	00.00		GUMO	98.87	60 ePDIFc	53	33.21	-4.3X					iPKS	59	39.00			
			ePKKP	10	19.00				epP	53	57.05	88kmX					PPP	01	32.00			
			e	17	00.00		PJG	98.87	60 eP	53	33.50	-4.1X					i	01	47.50			
			e	24	00.00				pP	53	56.50	84kmX					i	02	02.00			
FRI	92.16	334	iPc	53	07.30	0.7	GUA	98.94	60 e(P)	53	35.00	-2.9X					e	02	30.00			
			ipP	53	32.70	94kmX	MRX	99.47	311 (P)	53	41.50	1.3					iSKS	03	14.00			
			ePKKP	10	20.50		ACX	101.08	308 (Pdiff	54	07.00	19.6X					eSKS	03	23.00			
			e	10	47.70		CCH	104.18	260 ePdiff	53	56.00	-5.6X					eSKKS	14	00.00			
ARN	92.38	335	P	53	08.50	0.8	ZOBO	104.78	262 ePdiff	54	02.84	-1.8					e	19	30.00			
MHC	92.42	335	iPc	53	09.00	1.0			e	54	20.23						e	22	10.00			
			epP	53	34.00	92kmX			iPP	58	24.15			TOO	134.58	102	ePKP	58	56.30	-19.0X		
			ePKKP	10	20.60		ARE	107.25	264 ePKP	58	23.00	-1.0					i	59	14.60			
			e	10	47.20		PT08	107.68	271 ePKP	58	18.00	-7.0X					e	59	37.20			
PCC	92.49	336	ePc	53	08.70	0.6	NNA	107.90	271 ePdiff	54	17.68	-0.2					e	01	48.40			
			epP	53	33.70	92kmX			ipP	54	40.20			BWA	134.95	97	ePKP	59	02.00	-14.1X		
			ePKKP	10	18.90		PT10	108.05	271 e(Pdif	54	29.00	10.5X					i	59	16.80			
CLC	92.56	332	eP	53	09.00	0.4	MTN	109.16	89 iPdiff	54	22.30	-1.1					i	59	40.70			
			e	53	34.00			0.9s	36.00nm								ePP	01	48.30			
TRT	92.67	98	ePd	53	05.90	-3.2X			i	58	25.80			COO	135.21	90	ePKP	59	05.00	-11.7X		
	0.8s	99.00nm			6.2mb		MEKA	109.82	108 iPKPd	58	27.00	-1.3					e	59	17.00			
GSC	92.76	331	eP	53	10.00	0.4		0.9s	129.00nm								e	01	53.00			
			e	53	32.00		LPA	110.69	241 ePdiff	54	31.00	1.2		SPA	135.65	180	iPKPc	59	12.10	-4.4X		
GCC	92.81	335	iPc	53	10.30	0.7			eS	59	04.00				1.0s	285.00nm						
			epP	53	35.40	93kmX	BAL	111.26	112 ePKP	58	29.40	-1.5		Z	19s	10.97um				6.6Msz		
			ePKKP	10	18.90		MUN	111.84	114 ePKP	58	30.30	-1.6					i	02	17.00			
			e	10	45.60			0.9s	176.00nm					CAN	135.83	97	ePKP	59	03.90	-13.9X		
LLA	92.88	334	iPc	53	11.40	1.4	KLB	112.59	112 iPKPc	58	31.70	-1.6					i	59	17.10			
			epP	53	36.30	92kmX		0.5s	54.00nm								i	59	40.90			
			ePKKP	10	19.30		MNDI	113.06	74 ePKP	58	36.00	1.0					ePP	01	51.20			
SAO	92.90	335	ePc	53	10.50	0.4	RKG	113.72	115 iPKPc	58	34.80	-0.7		CNB	136.08	97	ePKP	59	06.30	-12.0X		
			ePKKP	10	14.80			0.5s	119.00nm								e	59	17.60			
ISA	92.98	332	eP	53	11.00	0.4	COOL	114.34	110 ePKP	58	34.50	-2.3X					e	59	46.50			
			e	53	33.00		WARB	115.00	102 iPKPc	58	37.50	-0.7					ePP	01	49.00			
PRI	93.24	334	iPc	53	13.20	1.4	ZON	115.33	250 e(PKP)	58	37.00	-1.7		RIV	136.53	94	ePKP	59	19.50	0.5		
			ePKKP	10	18.70		WB5	116.21	92 ePdiff	54	53.00	-1.7					ePP	02	05.00			
			e	10	45.70				i	58	39.00						ePKS	02	54.00			
PRS	93.28	335	ePc	53	12.70	0.9			i	59	05.00						eSS	21	22.00			
			ePKKP	10	18.00				ePP	59	40.80			TAU	138.33	108	ePKPc	59	21.00	-1.1		
			e	10	45.00		WRA	116.24	92 Pdiffc	54	53.60	-1.2					epP*DF	59	46.00			
TPC	93.58	330	eP	53	14.00	0.7		1.0s	10.60nm								ePP	02	07.24			
			e	53	36.00		MDZ	116.29	249 i(PKP)	58	41.90	1.4					eSKP	02	47.80			
SBB	93.66	331	eP	53	15.00	1.3			i	59	47.10						i	03	34.70			
			e	53	31.00		MAW	116.38	165 ePdiff	55	00.00	5.7X		DZM	139.66	68	iPKPc	59	17.00	-8.3X		
BCH	93.94	333	iPc	53	15.50	0.5	RAB	117.18	66 e(Pdif	55	00.00	0.8		DRV	140.01	145	PKP	59	14.00	-10.4X		
			ipP	53	41.00	94kmX			eS	59	56.00						PP	00	02.00			
GLA	94.09	328	eP	53	16.00	0.3	JACH	117.31	250 iPKPd	58	42.00	-0.5					PPP	00	05.00			
			e	53	38.00		FCH	117.51	250 iPKPd	58	43.20	0.0					SP	00	12.00			
RVR	94.14	331	eP	53	16.00	0.2	PEL	117.66	250 iPKPc	58	42.00	-1.1					SPP	00	14.00			
			e	53	37.00			1.0s	95.00nm								SS	00	20.00			
BOG	94.16	281	iPc	53	17.00	0.4	ROCH	117.76	250 ePKP	58	42.50	-1.0					SSS	00	26.00			
PEC	94.16	331	Pc	53	16.30	0.3	PMG	117.78	74 iPKPc+	58	43.00	-0.7		SBA	144.33	167	ePKP	59	29.00	-2.7X		
			ipP	53	41.30	92kmX		0.9s	319.33nm					MCO	148.78	124	iPKPc	59	43.70	4.2X		
MWC	94.16	331	eP	53	17.00	0.8	SAN	117.83	250 iPKPc	58	42.50	-0.9					iS	00	11.20			
			e	53	42.00		PCH	117.84	249 ePKP	58	42.50	-1.0		TPT	148.87	349	PKP	59	42.40	1.6		
PAS	94.27	331	ePc	53	16.93	0.5	TACH	118.14	250 iPKPc	58	42.70	-1.2			1.2s	175.00nm						
			epP	53	39.78	83kmX	IHA	118.21	251 ePKP	58	43.00	-1.0		PMO	148.92	350	PKP	59	42.30	1.4		

30d 10h

	1.2s	145.00nm				
RUV	149.04	349	PKP	59	42.50	1.4
	1.2s	135.00nm				
VAH	149.12	349	PKP	59	42.60	1.4
	1.2s	105.00nm				
PPN	151.59	352	PKP	59	46.60	1.7
	1.2s	95.00nm				
AFR	151.62	353	PKP	59	46.80	1.9
	1.2s	135.00nm				
PPT	151.64	352	PKP	59	46.70	1.7
	1.2s	305.00nm				
PAE	151.73	352	PKP	59	46.90	1.8
	1.2s	115.00nm				
TVO	151.82	352	PKP	59	47.40	2.1X
MSZ	152.87	102	ePKP	59	44.70	-1.2
			e	59	53.30	
RKT	152.87	321	PKP	59	47.20	0.6
	1.2s	145.00nm				
MMCZ	153.79	102	ePKP	59	46.40	-1.0
			e	59	55.80	
TLC	153.80	102	PKP	59	46.60	-0.9
			e	59	55.90	
MHZ	153.91	102	ePKP	59	46.60	-1.0
			e	59	56.00	
RAR	154.87	14	PKP	59	48.00	-1.3
			S	03	52.00	
KHZ	156.07	94	PKP	59	48.70	-1.7
			e	59	59.50	
			e	00	16.60	
			e	00	41.40	
			e	01	55.00	
WEL	156.53	90	PKP+	59	50.00	-1.0
			sPKP	00	16.00	
			e	00	38.00	
			pPKP	00	45.00	
			PP	04	00.00	
			PPP	07	28.00	
			eSKKS	10	30.00	
			e	12	46.00	
			e	19	34.00	
			SS	23	40.00	
TBI	157.34	351	PKP	59	54.00	1.4
	1.2s	215.00nm				
	S.D. = 1.0	on 648 of 709 obs.				

? MAY 30, 1990 11h 02m 00.43±17.60s
46.675 N ±152.km 26.992 E ±20.8km
DEPTH = 90.0km (geophysicist)
ROMANIA (358)

PSN	3.11	164	iPd	02	50.00	1.7
PVL	3.65	199	eP	02	57.00	1.2
DMK	4.88	173	iPn	03	12.50	-0.4
VTS	4.89	215	iP	03	13.00	-0.1
MMB	5.60	206	iPc	03	25.00	2.1
HRT	6.16	161	eP	03	31.00	0.4
GPA	6.82	158	eP	03	41.00	1.3
	S.D. = 1.2	on 7 of 7 obs.				

* MAY 30, 1990 11h 31m 10.88± 1.09s
45.982 N ± 8.6km 26.738 E ± 9.9km
DEPTH = 84.4 ± 25.5 km
4.0mb (2 obs.)
ROMANIA (358)

PSN	2.52	155	iPd	31	53.00	2.5
PVL	2.94	200	iPd	31	58.00	1.7
CEI	3.40	302	eP	32	46.00	43.4X
PGB	3.90	209	iP	32	08.00	-1.6
DIM	4.03	193	iP	32	13.00	1.6
PLD	4.14	201	iPd	32	14.00	0.9
DMK	4.22	170	iPn	32	14.50	0.3
VTS	4.23	218	iPd	32	14.00	-0.4
KDZ	4.44	193	eP	32	17.00	-0.2
RZN	4.54	200	iPc	32	19.00	0.3
MMB	4.90	207	iPc	32	24.00	0.4
PSZ	5.07	295	e(P)	32	36.00	10.0X
ISK	5.20	160	ePn	32	19.00	-8.7X
SKO	5.54	226	ePn	32	31.00	-1.5
			i	33	29.00	
			iSn	33	30.50	
			i	33	41.50	
GBZT	5.55	158	eP	32	32.00	-0.7
HRT	5.58	156	ePn	32	31.40	-1.7
EDC	5.69	171	ePn	32	33.80	-0.8
YLV	5.74	160	iPn	32	34.40	-1.0
EZN	6.16	183	iPn	32	41.00	-0.1
GPA	6.26	154	eP	32	43.00	0.5
NEO	7.16	202	ePn	32	54.40	-0.4
ALT	7.36	159	ePg	32	57.30	-0.3
			eSg	33	07.80	
NUR	14.61	356	eP	34	32.00	-2.2
UPP	14.92	342	eP	34	37.90	-0.4
SUF	16.78	359	eP	35	02.00	0.4
NB2	17.61	334	P	35	13.50	1.6
	0.7s	6.00nm			3.9mb	
SOD	21.44	360	iP	35	46.80	-6.5X
			e	35	51.00	
YKA	67.54	342	eP	42	00.80	1.2
	0.7s	1.80nm			4.1mb	
	S.D. = 1.3	on 24 of 28 obs.				

? MAY 30, 1990 11h 38m 46.31± 1.01s
59.891 N ± 7.6km 6.043 E ± 9.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.0 (BER).

ODD1	0.30	86	iPd	38	52.73	0.2
			iSg	38	56.43	
BLS1	0.64	141	iP	38	58.96	-0.3
			iSg	39	07.02	
KMY	0.79	211	iP	39	01.83	0.1
			iSg	39	15.16	
HYA	1.28	3	iP	39	09.94	-0.1
			eSg	39	27.13	
	S.D. = 0.4	on 4 of 4 obs.				

MAY 30, 1990 12h 38m 04.99± 0.35s
24.210 N ± 6.1km 126.512 E ± 5.9km
DEPTH = 33.0km (normol)
4.9mb (19 obs.)
RYUKYU ISLANDS (238)

TWC	4.27	276	ePc	39	07.90	-1.4
			eS	39	20.30	
TWD	4.49	269	ePc	39	10.00	-2.5
ANP	4.65	283	eP	39	15.40	0.6
			eS	39	23.60	
QZH	7.25	277	eP	39	47.00	-4.3
Z	10s	4.10um				
SSE	8.33	327	eP	40	04.50	-1.8
Z	12s	7.20um				
NJ2	10.33	321	eP	40	34.80	0.9
WHN	12.51	303	Pd	41	04.00	0.5
TIA	14.44	328	eP	41	30.70	1.8
DL2	15.23	345	eP	41	42.00	2.9
Z	12s	3.80um				
N	10s	3.40um				
MAT	15.89	37	(P)	41	51.00	3.3X
	1.3s	61.54nm			4.6mb	
			eS	45	06.00	
QIZ	16.33	255	eP	41	56.00	2.5
E	16s	2.70um				
SNY	17.74	353	Pc	42	10.00	-1.0
	1.0s	20.00nm			4.2mb	
BJI	18.03	334	eP	42	14.50	0.0
	5.0s	400.00nm			4.8mb X	
N	11s	5.30um				
TIY	18.05	321	Pc	42	15.00	0.0
Z	12s	6.00um				
			S	45	33.50	
GYA	18.08	281	P	42	17.80	2.3
N	12s	3.50um				
E	12s	1.70um				
			pP	42	26.20	
XAN	18.20	307	P	42	16.00	-0.8
N	10s	1.10um				
E	10s	4.90um				
CN2	19.56	358	Pc	42	29.80	-3.2X
GUMO	20.30	118	eP	42	41.20	0.3
	1.2s	361.11nm			5.6mb	
PJG	20.30	118	eP	42	41.30	0.4
GUA	20.37	118	eP	42	41.70	0.1
	1.3s	461.54nm			5.7mb	
MDJ	20.51	6	eP	42	40.50	-2.4
KKM	20.59	210	eP	42	39.00	-5.1X
HHC	20.78	327	Pc	42	45.80	-0.1
N	11s	3.30um				
E	10s	0.70um				
			eS	46	36.90	
CD2	21.23	293	eP	42	48.80	-1.6
Z	10s	5.60um			5.3MszX	
N	10s	5.50um				
BTO	21.41	324	P	42	50.00	-2.2
N	11s	6.00um				
E	11s	4.10um				
			pP	42	57.00	25kmX
TSM	21.47	204	ePd	42	52.50	-0.4
KMI	21.62	277	Pc	42	55.00	0.4
	2.0s	220.00nm			5.2mb	
LZH	22.84	306	Pd	43	06.20	-0.3
	2.0s	76.00nm			4.8mb	
Z	12s	4.50um			5.1MszX	
N	10s	2.00um				
E	11s	3.10um				
LOE	24.11	258	eP	43	20.00	1.2
CHG	26.18	264	ePd	43	39.90	1.5
	0.9s	15.97nm			4.6mb	
GTA	27.15	310	eP	43	46.80	-0.5
Z	12s	2.50um			5.0MszX	
E	10s	2.90um				
IPM	31.35	236	ePc	44	26.20	1.2
	0.6s	14.30nm			5.0mb	
MTN	37.10	173	iPc	45	12.30	-2.0
	0.4s	33.00nm			5.5mb	
WMQ	37.22	311	P	45	15.00	-0.2
E	11s	1.40um				
			PP	46	43.50	
WB5	44.49	169	iPd	46	13.90	-1.2
WRA	44.54	169	Pd	46	14.50	-1.1
	0.4s	11.60nm			5.1mb	
KSH	44.97	302	P	46	21.00	1.9
QIS	46.29	163	iPd	46	28.50	-0.9
KOD	48.62	262	eP	46	50.00	1.8
WARB	50.10	180	iPc	46	59.20	0.2
QUE	52.80	290	eP	47	17.30	-2.5
RMQ	54.79	155	eP	47	34.20	0.1
MAIO	58.11	299	eP	48	03.00	5.2X
TOO	63.99	163	eP	48	37.80	0.4
IMA	64.01	27	P	48	36.50	-0.9
	1.0s	7.50nm			4.7mb	
PMR	66.36	31	eP	48	50.80	-1.5
	1.2s	15.53nm			5.0mb	
FBA	66.54	28	eP	49	01.80	8.3X
KEV	70.74	339	eP	49	20.00	0.5
INK	71.35	23	eP	49	21.00	-2.1
SOD	71.62	336	iP	49	25.00	0.2
			e	49	31.00	
MBC	72.15	13	eP	49	27.00	-0.8
SUF	73.37	332	eP	49	34.50	-0.6
	0.6s	5.00nm			4.7mb	
NUR	74.84	330	eP	49	44.00	0.3
			e	49	50.00	
DAG	77.06	352	iPd	49	55.00	-1.0
	1.0s	13.00nm			4.9mb	
UPP	78.29	331	iP	50	00.70	-2.3
			i	50	02.60	
			i	50	08.50	
HFS	79.87	332	eP	50	12.00	0.4
	0.8s	8.40nm			4.8mb	
NB2	80.43	333	P	50	14.10	-0.5
	0.8s	10.70nm			4.9mb	
YKA	81.00	24	eP	50	16.70	-0.8
	1.2s	3.60nm			4.2mb	
KRA	81.73	321	eP	50	22.80	1.3
			e	50	28.20	
KSP	83.38	323	eP	50	31.50	1.4
ZST	84.26	321	eP	50	35.00	0.4
			e	50	42.10	
SKO	84.57	314	iP	50	34.00	-2.3
BRG	84.64	324	iPd	50	38.40	2.0
	1.4s	21.00nm			5.1mb	
			e	50	43.70	
PRU	84.78	323	P	50	39.20	2.0
CLL	84.90	325	iP	50	39.60	1.8
	1.6s	26.00nm			5.2mb	
KHC	85.77	323	iPd	50	44.00	1.8
			e	50	56.80	
MOX	86.00	325	eP	50	45.00	1.7
WDC	89.11	45	e(P)	51	04.90	6.4X
SES	90.01	33	eP	51	03.00	0.4
CMB	91.87	47	eP	51	12.30	0.9
LRM	92.16	37	eP	51	13.90	1.0
KVN	92.81	45	eP	51	16.90	1.0
FRI	92.89	47	eP	51	16.80	0.8
TNP	93.93	45	eP	51	21.40	0.3
ZOBO	164.17	63	PKP	58	10.00	2.7X
SIV	169.16	42	PKP	58	11.20	0.9
	S.D. = 1.5	on 69 of 76 obs.				

& MAY 30, 1990 12h 52m 38.65s
61.457 N 149.933 W
DEPTH = 46.0km
SOUTHERN ALASKA (2)
<AGS-P>.

PWA	0.20	8	iP	52	46.34	-0.2
PMS	0.28	140	iP	52	47.41	0.1
SUA	0.39	271	iP	52	48.23	-0.3
			eS	52	56.67	
PLRM	0.41	70	iP	52	48.05	-0.5
			eS	52	55.78	
GHO	0.58	56	iP	52	50.26	-0.5
			iS	52	59.92	
SML	0.84	65	iP	52	53.47	-0.9
			eS	53	06.09	
SKT	0.92	305	iP	52	54.40	-1.1
			iS	53	07.30	
NKA	0.96	222	eP	52	57.15	1.3
SLKM	0.96	189	eP	52	54.87	-1.1
			eS	53	08.39	
CUT	0.96	351	iP	52	55.04	-0.9
			eS	53	08.49	
CGLM	1.01	262	iP	52	56.11	-0.6
			eS	53	09.69	
SPU	1.06	256	iP	52	56.60	-0.8
			iS	53	11.29	
NCG	1.07	268	iP	52	56.97	-0.6
			eS	53	11.70	
CRP	1.09	261	iP	52	57.18	-0.7
			eS	53	12.06	
SEW	1.38	170	eP	53	00.17	-1.6
			eS	53	18.21	
GLI	1.49	112	iP	53	01.82	-1.6
			iS	53	21.09	
RDT	1.50	235	eP	53	02.24	-1.3
HUR	1.53	5	eP	53	03.13	-0.9
NCA	1.58	69	eP	53	04.19	-0.4
VZW	1.68	102	eP	53	04.77	-1.4
			eS	53	26.67	
RED	1.73	234	eP	53	05.68	-1.2
VLZ	1.77	99	eP	53	05.70	-1.6
TOA	1.90	68	eP	53	09.06	-0.2
KLU	1.93	87	eP	53	07.83	-1.8
RND	2.02	14	eP	53	09.59	-1.4
CNPM	2.04	199	eP	53	09.66	-1.6
KTH	2.15	348	eP	53	11.32	-1.5

27 obs. associated

---

* MAY 30, 1990 13h 04m 11.74± 2.72s
2.540 S ± 7.6km 79.994 W ±41.6km
DEPTH = 33.0km (normal)
NEAR COAST OF ECUADOR (105)
Felt (IV) at Guayaquil.

TUNG	1.91	54	P	04	41.20	-1.7
			iS	05	06.80	
VC1	2.47	40	iPd	04	52.20	1.1
			iS	05	22.50	
GGP	2.73	31	iPd	04	55.00	0.2
			iS	05	26.30	
OTO	2.75	32	iP+	04	55.00	0.2
			S	05	25.00	
OUR	2.77	32	iPd	04	55.20	0.0
			S	05	26.40	
CAYA	3.29	38	eP	05	02.80	0.1
COTA	3.30	30	P	05	02.60	-0.2
NNA	9.89	162	eP	06	34.20	-0.6
	0.6s		12.00nm			5.3mb
PT08	9.96	160	iPc	06	37.00	0.9
PT02	10.92	161	e(P)	06	47.50	-1.4
			e(S)	08	43.20	
ZOBO	17.96	140	P	08	23.70	2.4
SIV	22.93	127	P	09	13.20	-1.0
			i	09	19.00	

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

? MAY 30, 1990 13h 11m 30.82±16.67s
58.556 N ±128.km 6.302 E ±23.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.3 (BER).

KMY	0.86	321	eP	11	46.94	-0.3
			iSg	12	04.61	
BLS1	0.88	18	iPc	11	47.69	-0.1
			eSg	12	05.37	
ODD1	1.37	7	iP	11	56.54	0.6
			eSg	12	18.63	
ASK	2.01	344	iP	12	05.48	0.3
			eSg	12	37.34	
HYA	2.62	359	iP	12	14.04	0.2
			iSg	12	57.05	
MOL	4.07	8	iP	12	33.80	-0.6
			eSg	13	38.58	

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

? MAY 30, 1990 13h 57m 45.38± 5.49s
31.219 S ±43.3km 69.511 W ±16.3km
DEPTH = 149.0 ± 39.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.44	174	iPd	58	06.20	-0.3
RTCB	0.66	114	iPc	58	08.10	0.2
ZON	0.78	115	eP	58	09.00	0.3
			eS	58	22.00	
RTCV	1.05	128	ePd	58	10.20	-0.6
CFA	1.15	110	iPd	58	11.90	0.1
			S	58	27.70	
JACH	1.72	212	iPd	58	18.00	0.2
			iS	58	51.00	
PEL	2.16	207	iPc	58	23.00	0.2
			iS	59	09.50	
ROCH	2.16	216	iPd	58	23.00	0.0
			iS	58	49.00	
FCH	2.20	197	eP	58	24.20	0.6
			iS	58	50.00	
PCH	2.54	199	eP	58	27.50	0.0
			iS	58	57.50	
TACH	2.71	206	eP	58	29.00	-0.6
			iS	58	59.50	
LCCH	2.85	217	iPd	58	31.10	-0.2
LNV	3.16	210	iP	59	34.00	58.7X
			iS	00	08.00	

S.D. = 0.4 on 12 of 13 obs.

---

* MAY 30, 1990 14h 15m 53.01± 1.00s
45.685 N ± 9.0km 26.580 E ±15.1km
DEPTH = 90.0km (geophysicist)
3.8mb (1 obs.)
ROMANIA (358)

PSN	2.31	150	iPd	16	31.00	1.1
PVL	2.62	200	iPc	16	35.00	0.8
VTS	3.93	219	eP	16	52.00	-0.4
DMK	3.95	167	iPn	16	52.00	-0.6
KDZ	4.12	192	eP	16	49.00	-5.9X
YLV	5.51	157	iPn	17	13.20	-1.0
SUF	17.07	359	eP	19	47.00	0.0
	0.4s		2.50nm			3.8mb

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

MAY 30, 1990 16h 45m 57.97± 0.30s
5.058 S ± 5.7km 152.099 E ± 8.2km
DEPTH = 80.7km (5 depth phases)
5.1mb (10 obs.)
NEW BRITAIN REGION (192)

RAB	0.86	5	iPd	46	13.00	-2.7
LAT	5.31	252	eP	47	21.00	4.5X
			eS	48	34.00	
PMG	6.54	228	eP	47	33.50	0.0
			eS	48	48.00	
HNR	8.92	120	eP	48	24.00	17.8X
QIS	19.62	217	iPd	50	22.70	0.0
GUA	19.80	339	eP	50	26.40	1.7
	1.1s		202.53nm			5.4mb
GUMO	19.87	339	eP	50	26.50	1.2
	1.2s		200.00nm			5.3mb
PJG	19.87	339	eP	50	26.40	1.1
RMO	21.55	188	eP	50	41.70	-0.7
DZM	21.89	142	iPc	50	45.10	-0.7
MTN	22.10	248	eP	50	48.00	0.2
BRS	22.22	178	iPc	50	48.50	-0.5
	1.0s		3.50nm			3.7mb X
WB5	22.69	228	eP	50	45.10	-8.6X
			eS	54	59.00	
WRA	22.75	228	Pc	50	54.60	0.3
	0.4s		15.90nm			4.8mb
CMS	26.94	192	eP	51	35.00	1.3
MBL	35.15	240	eP	52	45.70	-0.4
COOL	38.81	225	eP	53	16.00	-0.8
KLB	41.62	226	iPd	53	39.10	-0.7
MAT	43.37	344	(P)	53	52.00	-2.1
PMR	80.21	25	P	58	00.00	-0.7
	0.7s		18.17nm			5.1mb
IMA	80.93	20	P	58	05.20	0.5
	0.8s		6.90nm			4.6mb
FBA	82.38	22	P	58	11.30	-0.8
	0.7s		24.71nm			5.2mb
MAW	85.06	203	iP	58	27.00	1.4
INK	88.94	21	eP	58	44.00	-0.4
BMW	89.96	43	P	58	48.30	-1.5
PRS	90.17	54	e(P)	59	07.20	16.3X
			epP	59	29.60	82km
			eP'P'	29	11.20	
GMW	90.40	42	P	58	52.50	0.8
LLA	90.54	53	e(P)	59	06.90	14.3X
			epP	59	28.40	78km
PRI	90.72	54	e(P)	59	03.10	9.6X
			epP	59	25.50	82km
LON	90.97	43	P	58	54.20	-0.2
CMB	91.13	52	eP	59	09.40	14.1X
			epP	59	31.80	82km
			esP	59	40.00	
			eP'P'	29	08.80	
FRI	91.57	53	eP	59	01.10	3.9X
			epP	59	23.10	80km
			eP'P'	29	11.80	
ISA	92.45	55	eP	59	12.00	10.6X
PAS	92.58	56	eP	59	06.00	4.0X
MWC	92.68	56	eP	59	04.00	1.3
SBB	92.91	56	eP	59	04.00	0.4
KVN	93.00	51	P	59	04.60	0.6
CLC	93.17	54	eP	59	06.00	1.3
RVR	93.23	56	eP	59	01.00	-4.0X
PLM	93.61	57	eP	58	55.00	-12.0X
TNP	93.62	52	P	59	07.70	0.7
	0.8s		5.39nm			5.0mb
BAR	93.73	58	eP	58	52.00	-15.4X
GSC	93.78	55	eP	59	03.00	-4.6X
NEW	94.26	42	P	59	09.50	0.1
	0.8s		10.42nm			5.3mb
TPC	94.34	56	eP	58	55.00	-15.1X
YKA	95.98	28	eP	59	16.50	-0.5
	0.8s		2.90nm			4.9mb
LRM	97.40	45	eP	59	24.60	0.5
			e	59	35.60	
SES	98.25	40	eP	59	28.00	0.5
ALO	102.26	55	ePdiff	59	36.00	-10.2X
FFC	103.29	35	ePdiff	59	52.50	2.5X
	0.7s		5.00nm			5.4mb
FRB	114.49	19	ePdiff	00	36.00	-3.6X
	1.2s		100.00nm			
HFS	116.66	338	ePKP	04	33.50	-0.6
	0.8s		2.30nm			
NB2	116.91	340	PKP	04	34.10	-0.6
	0.7s		1.40nm			
YRH	128.67	342	ePdiff	02	00.80	17.8X
	0.6s		75.00nm			
YRH	128.67	342	ePdiff	02	08.10	25.1X
	0.7s		84.00nm			
DCN	128.98	344	ePdiff	01	53.70	9.4X
	0.6s		56.00nm			
ETA	129.26	343	ePdiff	01	55.80	10.2X
	0.6s		30.00nm			
ETA	129.26	343	ePdiff	02	03.20	17.6X
	0.7s		62.00nm			

S.D. = 1.0 on 35 of 58 obs.

MAY 30, 1990 16h 49m 26.88± 0.18s
6.018 S ± 2.6km 77.127 W ± 4.8km
DEPTH = 21.5km (9 depth phases)
5.4mb (58 obs.) 5.1Msz (3 obs.)
NORTHERN PERU (111)
Felt strongly in northern Peru.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 16:49:31.4 0.8
Lat 6.16S 0.09 Lon 76.43W 0.12
Dep 23.1 5.8 Half-duration 2.4
Moment Tensor; Scale 10**17 Nm
Mrr= 2.44 0.22 Mtt=-0.56 0.23
Mff=-1.87 0.35 Mrt=-2.35 0.78
Mrf= 0.73 0.47 Mtf= 0.89 0.22
Principal Axes:

T	Val= 3.73	Plg=62	Azm=185
N	-0.73	18	312
P	-3.00	21	49

30d 16h

Best Double Couple:Mo=3.4*10**17
NP1:Strike=169 Dip=29 Slip= 130
NP2: 305 68 70

TUNG	4.76	344	P	50	39.60	0.1
			iS	51	39.00	
VC1	5.49	347	iPd	50	50.00	-0.1
PT08	5.93	175	P	50	55.20	-0.9
NNA	5.94	177	iPc	50	54.50	-1.4
	0.7s	321.92nm				6.2mb X
			eS	52	00.00	
QTO	5.95	346	iPd	50	57.80	1.5
GGP	5.99	346	eP	50	57.30	0.2
PT10	6.02	179	iPd	50	56.60	-0.4
			eS	52	04.00	
CAYA	6.12	352	eP	50	57.50	-1.3
COTA	6.43	349	eP	51	07.00	3.8X
PT02	6.91	174	iPd	51	08.30	-1.3
			e(S)	52	16.20	
PSO	7.16	358	eP	51	12.00	-1.5
PT06	7.80	174	iP	51	22.20	0.2
PT03	8.03	171	iPc	51	22.50	-2.8X
PURC	8.32	5	P	51	30.00	0.3
SILC	8.68	5	eP	51	35.33	0.6
SALC	8.94	3	P	51	38.00	0.0
DIAC	9.29	6	P	51	43.60	0.7
HOQC	9.44	3	P	51	44.80	-0.1
ANCC	9.47	2	P	51	45.00	-0.3
BUGC	9.88	5	eP	51	51.00	0.0
BOG	11.00	16	eP	52	06.00	-0.5
			eS	54	30.00	
ARE	11.76	152	eP	52	20.00	3.3X
FUQ	11.90	17	eP	52	18.00	-0.8
ZOBO	13.48	140	P	52	38.00	-2.0
			i	53	40.00	
			LR	57	12.00	
BMG	13.62	17	eP	52	39.00	-2.4
UPA	15.09	351	eP	53	02.00	1.4
CCH	15.58	137	eP	53	07.00	-0.3
SDV	16.16	24	eP	53	13.80	-0.8
TOV	17.32	25	eP	53	28.00	-1.1
PLAV	18.47	31	eP	53	44.00	0.4
SIV	18.60	123	P	53	41.40	-3.6X
GUAC	18.86	31	iPd	53	50.00	1.7
MORO	18.93	28	eP	53	49.00	-0.2
OLLA	18.96	33	iPc	53	49.50	0.0
CAR	19.30	32	eP	53	54.00	0.3
			iS	57	28.00	
LLAV	19.34	32	eP	53	54.00	-0.1
GUAN	19.56	36	iPd	53	56.00	-0.6
CUM	20.85	38	eP	54	09.00	-0.9
			e	59	43.00	
TPP	22.52	44	eP	54	32.08	5.4X
TRN	22.79	43	eP	54	30.42	1.1
	1.0s	40.00nm				4.9mb
SVB	24.82	39	eP	54	49.12	0.0
SVV	24.87	39	eP	54	50.16	0.5
SLB	25.37	39	eP	54	53.81	-0.6
SLW	25.58	39	eP	54	54.74	-1.6
BBL	26.43	36	eP	55	03.00	-1.2
RTLL	26.46	163	eP	55	03.00	-1.4
			e	55	04.20	4kmX
RTCB	26.51	164	e(P)d	55	05.90	1.0
PAG	26.71	35	eP	55	05.00	-1.9
CFA	26.78	163	iPd	55	06.50	-0.9
MGG	26.83	36	eP	55	07.00	-0.8
MGH	26.98	33	eP	55	09.50	0.3
NEV	27.13	32	eP	55	16.00	5.4X
ROCH	27.42	169	eP	55	12.50	-0.8
FCH	27.91	168	eP	55	17.70	-0.2
SAN	27.95	168	eP	55	18.00	0.0
PCH	28.14	168	eP	55	21.00	1.2
ITR	38.47	96	eP	56	48.60	-0.8
			e	56	52.10	12km
			e	56	55.50	
HBF	38.86	356	P	56	54.00	1.6
SGS	39.13	355	P	56	55.50	0.9
PRM	40.19	353	P	57	03.30	-0.1
JSC	40.27	355	P	57	04.00	0.0
LHS	40.43	355	P	57	05.00	-0.3
TKL	41.92	352	P	57	16.50	-1.1
GBTN	41.99	351	P	57	17.00	-1.2
PWLA	42.06	347	P	57	17.00	-1.8
BLA	43.11	356	P	57	27.00	-0.4
	1.0s	30.00nm				5.0mb
UYO	43.20	339	iPd	57	28.30	0.2
NAV	43.24	356	P	57	28.00	-0.5
OLY	43.45	343	P	57	27.70	-2.4
NA2	43.92	359	P	57	33.00	-0.8
TUL	45.24	339	eP	57	44.20	-0.4
	1.2s	70.40nm				5.5mb
LNO	45.24	339	eP	57	44.80	0.3
FVM	45.49	345	P	57	45.00	-1.5
ALQ	49.24	328	eP	58	15.00	-1.1
	0.9s	53.57nm				5.6mb
Z	18s	0.60um				4.6Msz
			e	58	27.00	43kmX
ANMO	49.24	328	P	58	15.70	-0.4
GOL	52.43	333	P	58	41.00	0.5
	0.9s	37.88nm				5.3mb
GLA	52.82	320	eP	58	45.00	1.8
SYP	57.10	318	eP	59	16.00	1.6
TNP	57.56	323	P	59	19.00	1.3
	0.8s	12.25nm				5.0mb
KVN	58.71	323	iP	59	26.80	1.1
			epP	59	35.00	27km
ORV	61.08	322	e(P)	59	21.50	-20.2X
			epP	59	43.60	87kmX
SCH	61.23	7	eP	59	41.00	-1.5
MBO	63.02	71	iP	59	56.00	1.0
SES	63.37	336	eP	59	56.00	-0.9
	0.9s	101.00nm				6.0mb
			pP	00	03.00	23km
FFC	63.98	344	iPd	59	59.00	-1.8
	1.0s	33.00nm				5.4mb
NEW	64.43	332	eP	00	04.40	0.6
	0.8s	48.96nm				5.7mb
			epP	00	10.50	20km
PNT	66.35	331	eP	00	15.00	-1.1
	0.8s	46.00nm				5.7mb
EDM	66.47	337	ePd	00	15.00	-1.9
PGC	67.82	329	eP	00	25.00	-0.4
TPT	69.65	256	iP	00	36.70	-0.6
	1.2s	150.00nm				6.0mb
VAH	69.66	256	iP	00	36.70	-0.7
	1.2s	125.00nm				5.9mb
PMO	69.92	256	iP	00	38.40	-0.6
	1.2s	180.00nm				6.1mb
LKO	72.93	78	P	00	55.68	-1.5
	0.5s	25.00nm				5.5mb
LIC	72.98	82	P	00	56.70	-0.7
TIC	73.05	81	P	00	57.10	-0.7
KIC	73.28	82	P	00	58.40	-0.8
	0.7s	29.00nm				5.4mb
YKA	74.08	343	eP	01	00.00	-2.9X
	0.8s	14.60nm				5.1mb
TIO	76.06	56	iP	01	17.50	2.4
			i	01	56.50	158kmX
AVE	76.59	54	iPd	01	22.00	4.2X
			i	01	34.00	40kmX
WEGH	77.53	83	eP	01	23.00	-0.4
KUK	77.56	82	eP	01	23.30	-0.3
LEGH	77.68	83	eP	01	24.00	-0.2
MAL	79.90	51	iPd	01	40.00	4.1X
ALOJ	80.24	51	iPc	01	39.50	1.6
ATEJ	80.25	51	iPc	01	39.00	1.0
AAPN	80.27	51	iPc	01	40.50	2.4
APHE	80.52	51	iPc	01	40.60	1.2
ASMO	80.58	51	iPc	01	41.00	1.3
VAL	80.80	35	eP	01	42.00	1.7
TOL	81.01	48	eP	01	43.00	1.2
			eS	11	47.00	
			eSS	17	12.00	
REY	81.07	21	iP	01	51.30	9.8X
ECP	83.12	36	eP	01	54.40	2.0
	0.6s	50.00nm				5.8mb
AKU	83.27	21	iP	01	56.20	3.3X
	1.1s	35.44nm				5.4mb
			i	22	55.00	
INK	83.80	342	eP	01	54.00	-1.6
	1.0s	60.00nm				5.8mb
SPA	84.02	180	iPc	01	50.30	-6.7X
	1.0s	56.00nm				5.7mb
EBR	84.61	48	eP	02	04.00	3.9X
			eS	12	24.00	
EPF	84.98	46	eP	02	02.60	0.5
	1.0s	38.00nm				5.6mb
LPF	85.22	41	eP	02	03.10	0.0
	0.8s	21.50nm				5.4mb
GRR	85.43	41	eP	02	04.20	0.1
	0.6s	11.70nm				5.3mb
MFF	85.47	42	eP	02	04.60	0.3
	0.8s	16.10nm				5.3mb
LFF	85.69	44	eP	02	05.70	0.2
	0.8s	30.90nm				5.6mb
MBC	85.69	351	eP	02	04.50	-0.4
	0.9s	75.00nm				5.9mb
FLN	85.76	40	eP	02	06.00	0.2
	0.8s	18.80nm				5.4mb
EKA	85.90	33	Pd	02	06.00	-0.3
	0.7s	10.50nm				5.2mb
LPO	85.94	44	eP	02	07.00	0.2
	0.9s	22.95nm				5.4mb
LDF	85.95	40	eP	02	06.70	0.0
	0.8s	13.45nm				5.2mb
RJF	86.31	44	eP	02	08.70	0.1
	0.8s	8.05nm				5.0mb
LSF	86.52	43	eP	02	09.10	-0.5
	0.8s	8.75nm				5.0mb
CAF	86.61	44	eP	02	10.20	0.1
	0.8s	8.75nm				5.0mb
TCF	86.99	43	eP	02	11.30	-0.6
	0.8s	4.05nm				4.7mb
MAF	87.21	43	eP	02	12.50	-0.5
	0.8s	10.05nm				5.1mb
FBA	87.35	336	P	02	12.00	-1.2
BGF	87.47	43	eP	02	13.70	-0.5
	0.6s	10.80nm				5.3mb
AVF	87.86	43	eP	02	15.00	-1.0
	0.8s	13.45nm				5.3mb
SSF	88.01	42	eP	02	15.80	-1.0
	0.8s	9.40nm				5.2mb
SMF	88.16	43	eP	02	16.70	-0.8
	0.8s	14.80nm				5.4mb
LOR	88.29	42	eP	02	17.20	-0.9
	0.6s	8.55nm				5.2mb
LBF	88.32	43	eP	02	17.30	-1.0
	0.7s	2.20nm				4.6mb
DAG	88.92	11	iPd	02	19.80	-0.8
	1.0s	78.00nm				6.0mb
DOU	89.28	40	P	02	24.80	2.1
			e	02	34.00	29km
			SKS	12	51.00	
			S	13	16.00	
LRG	89.38	46	eP	02	23.40	0.1
	0.9s	13.10nm				5.2mb
LMR	89.47	46	eP	02	23.50	-0.3
	1.0s	20.00nm				5.3mb
FRF	89.60	46	eP	02	24.30	-0.1
	0.7s	22.05nm				5.5mb
LPL	89.96	44	eP	02	26.50	0.2
	0.6s	6.30nm				5.0mb
LPG	89.97	44	eP	02	26.60	0.1
	0.7s	8.80nm				5.1mb
IMA	90.04	337	P	02	24.50	-1.7
HAU	90.07	42	eP	02	25.80	-0.7
	0.6s	4.50nm				4.9mb
SBF	90.21	46	eP	02	27.10	-0.2
	0.8s	18.80nm				5.4mb
ENN	90.23	39	eP	02	19.50	-7.6X
	1.0s	30.00nm				5.5mb
MEM	90.26	39	P	02	28.20	1.0
BSF	90.34	42	eP	02	27.00	-0.9
	0.7s	6.60nm				5.0mb
CDF	90.75	42	eP	02	29.10	-0.6
	0.8s	14.80nm				5.3mb
WTS	90.97	38	eP	02	30.50	0.0
	0.7s	21.00nm				5.6mb
			e	02	33.00	8kmX
WIT	91.00	37	eP	02	34.00	3.4X
			e	02	41.50	23km
SQTA	93.24	43	e(P)	02	37.00	-4.3X
	1.1s	25.60nm				5.6mb
			e	02	41.00	13km
			i	02	43.50	
			i	03	04.40	
GRF	93.47	41	e(P)	02	42.10	0.0
			e	02	44.70	8kmX
			e	02	52.40	
MOX	93.81	40	eP	02	46.00	2.4X
N82	94.41	29	P	02	48.40	2.1
	1.4s	13.90nm				5.2mb
SDI	94.66	49	P	02	50.00	2.2
CLL	94.73	39	eP	02	56.00	8.2X
			e	06	49.00	
KHC	94.97	41	P	02	51.00	1.9
Z	18s	0.70um				5.2Msz
DUI	95.14	49	P	02	46.00	-4.1X
BRG	95.30	40	eP	02	52.80	2.3X
	1.3s	14.00nm				5.2mb
			e	03	00.80	25km

HFS	95.58	30	eP	02	53.40	1.8
	0.8s		9.60nm			5.3mb
PRU	95.64	40	P	02	54.50	2.4X
Z	19s		0.80um			5.2Msz
BCAO	96.07	86	iPd	02	58.00	3.1X
	1.2s		14.00nm			5.3mb
KSP	96.79	40	eP	03	05.00	7.7X
ZST	97.27	42	e(P)	03	01.70	2.2X
UPP	97.56	30	iP	03	01.40	1.0
SRO	98.08	43	eP	03	10.50	7.4X
KRA	99.12	40	eP	03	10.70	2.9X
			e	03	18.20	23km
NUR	101.01	30	ePdiff	03	26.00	9.9X
SUF	101.40	27	ePdiff	03	19.00	1.2
BUL	102.58	112	ePdiff	03	13.50	-10.7X
TOO	121.22	219	ePKP	08	21.40	1.1
RMQ	125.05	232	ePKP	08	27.10	-0.9
MAIO	130.19	47	iPKPd	08	39.70	2.0
OFUJ	131.97	319	PKP	08	41.70	0.9
MDJ	135.02	333	ePKP	08	45.70	-0.7
MAT	135.66	318	ePKP	08	42.00	-5.9X
	1.1s		6.33nm			
MTMJ	135.90	319	ePKP	08	48.10	-0.4
IIDJ	136.45	317	ePKP	08	57.90	8.4X
CN2	137.46	336	ePKP	08	50.40	-0.7
TSRJ	137.71	319	ePKP	08	53.60	1.8
GUMO	137.99	284	ePKP	08	53.20	0.3
	1.2s		138.89nm			
QUE	138.54	50	ePKP	08	54.20	0.4
WRA	139.71	229	PKPd	08	45.90	-10.0X
	0.2s		3.60nm			
SNY	139.86	336	PKPc	08	50.80	-4.7X
WMQ	140.05	17	ePKP	08	50.20	-5.7X
WARB	140.55	215	ePKP	08	50.00	-7.3X
DL2	143.12	335	ePKP	08	57.80	-3.5X
BJI	144.08	342	ePKP	08	59.50	-3.4X
Z	16s		0.58um			5.4MszX
			ePP	12	12.00	
HHC	144.46	349	ePKP	09	02.00	-1.7
BTO	144.98	351	ePKP	09	02.00	-2.6
MTN	146.24	236	iPKPc	09	06.60	-0.7
KNA	146.46	230	ePKP	09	07.10	-0.5
	0.7s		145.00nm			
GTA	146.64	4	PKP	09	07.70	0.2
Z	24s		1.10um			5.6MszX
			PP	12	37.00	
NDI	146.87	44	ePKP	09	09.50	1.5
TIA	147.23	338	ePKP	09	08.30	0.0
TIY	147.27	346	PKPd	09	09.40	1.0
Z	24s		1.00um			5.5MszX
N	16s		0.50um			
MBL	148.27	211	ePKP	09	11.60	1.2
POO	149.10	64	iPKPd	09	12.50	0.7
LZH	150.06	358	PKPc	09	14.50	1.5
Z	28s		0.70um			5.3MszX
			pPKP	09	20.00	
			e	09	25.00	
			PP	12	52.00	
NJ2	150.10	332	PKPc	09	12.00	-0.9
XAN	151.56	349	PKP	09	16.00	0.9
WHN	153.32	338	ePKP	09	18.50	0.9
HYB	153.67	62	ePKPc	09	20.00	1.5
	1.0s		40.00nm			
CD2	155.22	358	ePKP	09	22.50	2.2
GYA	159.35	350	iPKPd	09	27.40	1.8
KMI	161.00	0	PKPc	09	28.50	1.0
CHG	166.72	16	ePKPc	09	34.20	1.6
	1.1s		15.51nm			
CHTO	166.72	16	iPKP	09	34.10	1.5
	1.5s		30.97nm			
			i	10	36.00	
LOE	168.63	6	ePKP	09	35.00	1.1
S.D. = 1.1 on 176 of 213 obs.						

MAY 30, 1990 17h 08m 30.76± 0.58s
15.144 N ± 7.5km 147.518 E ±10.4km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)
MARIANA ISLANDS REGION (215)

GUA	2.99	238	eP	09	17.20	0.2
			eS	09	53.20	
GUMO	3.00	239	iPd	09	17.10	0.0
PJG	3.00	239	iPd	09	17.10	0.0
KAKJ	21.98	344	eP	13	23.40	-0.2
IIDJ	22.01	339	iP	13	27.00	3.0X
CHJJ	22.17	341	P	13	24.30	-1.2
MAT	22.87	340	eP	13	31.00	-1.5
	0.8s		7.46nm			4.2mb
MTMJ	23.04	340	P	13	33.50	-0.7
NIIJ	23.27	343	P	13	35.90	-0.4
YAMJ	23.87	345	P	13	44.30	2.1
OFUJ	24.39	349	P	13	49.00	1.8
PMG	24.40	181	eP	13	47.00	-0.4
CHTO	46.49	282	eP	16	57.00	0.0
	1.0s		2.75nm			4.2mb
MBC	76.14	14	eP	20	13.00	-3.7X
	1.0s		8.00nm			4.7mb
YKA	80.30	28	eP	20	39.50	-0.2
	1.1s		2.50nm			4.1mb
SES	85.59	39	eP	21	07.00	-0.2
LRM	86.10	44	eP	21	10.10	0.0
KIC	145.18	306	PKP	28	07.70	0.1
TIC	145.22	307	PKP	28	07.80	0.1
LIC	145.49	306	PKP	28	08.60	0.5
S.D. = 0.9 on 18 of 20 obs.						

% MAY 30, 1990 17h 31m 22.02± 1.69s
46.218 N ±19.1km 2.639 E ±10.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

MAF	0.05	274	Pg	31	24.20	0.0
			Sg	31	25.00	
BGF	0.37	23	Pg	31	29.50	-0.1
			Sg	31	34.30	
AVF	0.76	40	Pg	31	36.80	0.0
			Sg	31	46.40	
SMF	0.93	62	Pg	31	39.80	-0.1
			Sg	31	52.40	
SSF	1.03	35	Pg	31	41.70	0.2
			Sg	31	54.80	
S.D. = 0.1 on 5 of 5 obs.						

? MAY 30, 1990 17h 56m 48.98± 9.46s
21.899 S ±66.5km 178.033 W ±87.9km
DEPTH = 541.0 ± 56.3 km
4.8mb (6 obs.)
FIJI ISLANDS REGION (181)

DZM	14.40	266	iPc	59	52.40	-0.1
THZ	21.22	199	eP	00	59.00	1.3
KHZ	21.64	197	eP	00	59.40	-2.0
LTZ	22.35	199	eP	01	08.70	0.8
RMO	30.59	255	iPc	02	20.60	0.2
	0.8s		19.00nm			4.8mb
CMS	33.54	246	iPc	02	45.10	-0.2
	0.2s		11.00nm			5.1mb
TOO	35.06	235	iPc	02	58.30	0.3
	0.5s		21.00nm			5.0mb
WB5	44.38	264	eP	04	02.90	-10.2X
WRA	44.39	263	Pc	04	12.70	-0.5
	0.2s		4.40nm			4.6mb
MTN	49.16	272	iPc	04	50.30	0.7
	0.5s		9.00nm			4.5mb
WARB	50.39	254	iPc	04	58.00	-0.5
	0.5s		14.00nm			4.7mb
TEH	135.00	299	iPKPc	15	32.80	24.3X
NB2	140.36	353	PKP	15	22.00	4.5X
	0.5s		0.90nm			
HFS	140.91	351	ePKP	15	22.70	4.3X
	0.4s		4.90nm			
EKA	146.39	5	PKPc	15	42.30	14.5X
	1.0s		6.70nm			
KSP	149.01	342	iPKP	15	47.50	15.4X
CLL	149.41	346	iPKPc	15	49.00	16.4X
	0.9s		19.00nm			
BRG	149.60	345	iPKPc	15	49.20	16.3X
	0.8s		15.00nm			
PRU	150.26	344	PKPc	15	50.60	16.6X
S.D. = 1.1 on 10 of 19 obs.						

? MAY 30, 1990 17h 57m 13.76± 4.83s
31.729 S ±24.8km 72.153 W ±36.0km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

ROCH	1.57	142	iP	57	41.70	-0.3
			iS	58	01.00	
JACH	1.63	126	iPd	57	43.00	0.3
			iS	58	03.00	
LCCH	1.81	164	iPc	57	45.90	0.7
			iS	58	07.90	
TACH	2.18	152	iP	57	51.00	0.5
			iS	58	17.50	
FCH	2.24	136	eP	57	51.30	-0.5
			iS	58	19.20	
LNV	2.31	164	iP	57	51.50	-0.9
			iS	58	18.20	
PCH	2.34	144	iPc	57	53.00	0.0
			iS	58	20.00	
RTCB	2.87	86	iPc	58	00.60	0.1
CFA	3.34	89	eP	58	07.00	-0.1
S.D. = 0.6 on 9 of 9 obs.						

• MAY 30, 1990 18h 34m 53.26± 0.49s
28.305 N ± 7.2km 141.753 E ±13.1km
DEPTH = 33.0km (normal)
4.7mb (11 obs.)
BONIN ISLANDS REGION (212)

IIDJ	7.86	336	P	36	52.50	4.3X
KAKJ	7.99	351	P	36	48.80	-1.1
CHJJ	8.07	344	P	36	51.80	0.8
MAT	8.74	341	(P)	37	01.00	0.6
	0.8s		5.97nm			4.8mb
			(S)	38	38.00	
MTMJ	8.90	339	P	37	04.20	1.5
NIIJ	9.21	346	P	37	05.70	-1.0
YAMJ	9.95	352	eP	37	14.40	-2.6
OFUJ	10.75	360	P	37	25.10	-2.8
			S	39	19.00	
WB5	48.43	189	eP	43	33.00	-1.4
WRA	48.50	189	Pd	43	33.50	-1.5
	0.4s		9.70nm			5.2mb
QIS	48.62	183	iPd	43	34.70	-1.2
PMR	55.63	33	P	44	27.00	-0.9
	0.7s		9.88nm			4.9mb
FBA	56.46	29	eP	44	35.00	1.1
	1.0s		5.00nm			4.5mb
INK	62.10	25	eP	45	11.00	-1.8
MBC	64.83	15	eP	45	31.50	0.9
YKA	71.26	28	eP	46	10.60	-0.3
	0.7s		1.90nm			4.3mb
KEV	71.72	341	eP	46	14.00	0.5
SOD	73.14	339	eP	46	23.00	1.0
			e	46	29.00	
SUF	75.93	335	eP	46	39.00	0.9
NEW	76.28	42	P	46	40.30	-0.1
	1.0s		10.75nm			4.8mb
ORV	77.35	52	e(P)	46	46.50	0.1
NUR	77.81	333	iP	46	50.00	1.5
	0.6s		11.70nm			5.1mb
MHC	78.23	54	e(P)	46	58.00	6.5X
			e	47	04.30	
SES	78.73	39	eP	46	54.00	0.1
CMB	78.80	53	eP	46	55.10	0.5
			e	47	01.60	
FRI	79.76	54	eP	47	00.20	0.5
			e	47	06.60	
KVN	79.92	51	P	47	01.20	0.4
LRM	80.25	43	eP	47	03.50	1.0
FFC	80.92	32	iPc	47	06.20	0.7
	0.8s		8.00nm			4.8mb
TNP	80.99	52	P	47	06.50	0.0
	1.0s		6.75nm			4.6mb
HFS	82.17	337	eP	47	11.00	-0.9
	0.8s		6.90nm			4.7mb
NB2	82.35	338	P	47	13.50	0.6
	0.7s		4.20nm			4.6mb
RSSD	86.17	41	P	47	30.00	-2.8X
PV09	86.22	48	P	47	33.50	0.2
KHC	90.13	329	P	47	53.00	1.6
TIC	132.73	312	PKP	54	15.30	8.1X
KIC	132.76	312	PKP	54	15.40	8.2X
ZOBO	149.96	73	ePKP	54	39.00	0.9
			i	54	40.00	
S.D. = 1.2 on 33 of 38 obs.						

MAY 30, 1990 19h 19m 01.21± 0.38s
45.833 N ± 3.4km 14.616 E ± 3.7km
DEPTH = 10.7 ± 2.9 km
YUGOSLAVIA (383)
MD 4.0 (LJU), 3.6 (TRI). ML 3.6 (VKA). Slight damage (VI) at Dobro Polje. Felt (V) at Velike Losce and (IV) at Ljubljana.

CEY	0.16	235	iPgd	19	04.90	-0.1
			iSg	19	07.90	

30d 19h

LJU	0.22	345	iPgd	19	05.20	-0.8				eSn	21	03.00							
			iSg	19	08.80		HOF	4.84	339	ePn	20	15.60	-0.2						
VOY	0.54	292	iPgc	19	11.50	-0.7	FEL	4.97	297	P	20	16.56	-1.1						
			eSg	19	21.20		DIX	5.03	275	eP	20	19.90	1.3						
VBY	0.56	126	iPgc	19	11.20	-1.3	BRG	5.06	355	(Pn)	20	20.00	1.2						
			i(Sg)	19	16.70					ePg	20	37.00							
TRI	0.61	259	iPgc	19	12.25	-1.2				eSn	21	14.00							
			iSg	19	22.40					eSg	21	44.00							
PTJ	0.94	85	iPgc	19	18.00	-1.1	KSP	5.14	12	eP	20	18.50	-1.4						
			eSg	19	33.70					iS	21	48.00							
ZAG	0.96	91	iPgc	19	18.80	-0.5	PGF	5.20	233	Pn	20	20.60	-0.4						
			i	19	20.70					Sn	21	17.90							
			iSg	19	35.00		MOX	5.22	339	ePn	20	21.00	0.0						
FVI	1.48	301	P	19	28.70	0.9				eSn	21	18.00							
KBA	1.52	325	iPgc	19	29.00	0.4				eSg	21	50.00							
			i	19	30.80		EMS	5.36	275	eP	20	25.50	2.2						
			iSg	19	49.50		DOI	5.38	258	P	20	22.00	-1.4						
			i	19	51.90					eSn	21	19.00							
CTI	2.08	277	P	19	36.40	-0.2	SBF	5.47	251	Pn	20	23.40	-1.3						
BHG	2.23	328	iPnc	19	40.90	2.2				Sn	21	23.40							
SOP	2.28	35	iPn	19	39.90	0.5	MOF	5.52	294	P	20	24.18	-1.2						
RSM	2.45	220	P	19	42.50	0.8				S	21	27.61							
WATA	2.58	307	iPgc	19	45.80	2.0	LPG	5.52	269	Pn	20	26.00	0.3						
			i	19	48.00					Sn	21	28.20							
			iSg	20	20.60		LPL	5.53	270	Pn	20	26.00	0.2						
ARV	2.62	208	P	19	44.90	0.6				Sn	21	29.00							
OGA	2.69	294	iPnc	19	47.30	1.8	KRA	5.54	38	eP	20	48.90	23.4X						
VKA	2.70	25	iPgd	19	45.60	0.3	LOMF	5.58	289	P	20	25.62	-0.6						
			i	19	52.10					S	21	31.31							
			iSg	20	17.00		CLL	5.58	350	ePg	20	46.00	19.8X						
			i	20	30.60					e	21	41.00							
SQTA	2.73	302	iPgc	19	48.40	2.5				iSg	21	58.30							
			i	19	52.00		ECH	5.63	298	P	20	25.73	-1.2						
			i	19	55.90					S	21	28.76							
			i	20	03.40		CDF	5.63	300	P	20	25.68	-1.3						
			iSg	20	26.40		BNI	5.64	265	P	20	26.70	-0.5						
SFI	2.74	227	P	19	47.00	1.1	BSF	5.73	293	Pn	20	27.40	-1.0						
			eSn	20	16.00					Sn	21	31.30							
PGD	2.84	227	P	19	47.60	0.1	TNS	6.03	319	ePnc	20	33.40	0.9						
SAL	2.87	267	P	19	50.20	2.4				eSn	21	35.40							
CRE	2.91	222	Pc	19	49.40	1.0	HAU	6.07	294	Pn	20	32.00	-1.0						
ZST	2.91	35	iPnd	19	47.80	-0.5				Sn	21	40.20							
	0.8s		0.08nm				FRF	6.12	251	Pn	20	32.20	-1.5						
			i	19	57.60					Sn	21	38.40							
			i	20	02.70		SKO	6.26	126	ePn	20	42.00	6.3X						
			i	20	18.60		LMR	6.31	250	Pn	20	34.50	-1.9						
			i	20	23.90					Sn	21	42.60							
HVAR	2.96	153	iPn	19	49.80	0.8	LRG	6.35	251	Pn	20	35.80	-1.2						
			iSn	20	27.90		OHR	6.52	134	ePn	20	27.50	-12.0X						
ASS	3.10	208	P	19	50.70	-0.3	LBF	7.44	283	Pn	20	50.80	-1.6						
OSS	3.22	287	eP	19	55.00	2.2				Sn	22	12.00							
SRO	3.22	51	e(Pn)	19	57.80	5.1X	MEM	7.47	313	P	20	58.30	5.6X						
			i	20	16.80		SMF	7.52	280	Pn	20	52.00	-1.4						
			e	20	53.40		LOR	7.55	285	Pn	20	52.20	-1.7						
SRO	3.22	51	eP	20	42.30	49.6X				Sn	22	16.20							
MME	3.22	241	P	19	53.60	0.6	AVF	7.86	281	Pn	20	57.00	-1.1						
FUR	3.27	317	eP	20	01.80	8.4X	DOU	7.96	306	P	21	04.60	5.0X						
BDI	3.36	240	P	19	55.10	0.4				S	22	37.50							
			eSn	20	30.10		BGF	8.20	279	Pn	21	01.40	-1.5						
KHC	3.37	348	iPn	19	55.00	0.1	MAF	8.40	277	Pn	21	03.60	-2.1						
			iPg	20	03.30		TCF	8.64	277	Pn	21	07.80	-1.3						
			Sn	20	37.50		CAF	8.88	269	Pn	21	11.00	-1.4						
			Sg	20	48.00		S.D. = 1.2 on 77 of 88 obs.												
MDI	3.43	271	P	19	56.00	0.4													
			eSn	20	33.20		% MAY 30, 1990 19h 43m 44.29± 0.88s												
PII	3.60	236	P	19	58.10	0.1	30.364 S ± 8.1km 116.890 E ±11.2km												
VDL	3.64	282	eP	20	01.80	3.0X	DEPTH = 10.0km (geophysicist)												
MNS	3.72	203	P	19	59.80	-0.1	WESTERN AUSTRALIA (590)												
GRC1	3.80	328	ePn	20	00.20	-0.7													
			e	20	08.40		BAL	0.29	213	iPd	43	49.10	-1.2						
BOB	3.80	256	P	20	02.30	1.3	MRWA	1.38	326	iPc	44	13.30	3.7X						
SAX	3.90	293	eP	20	03.90	1.2	KLB	1.43	149	iPc	44	11.20	0.9						
TMA	4.01	276	eP	20	05.50	1.4				eS	44	28.00							
LLS	4.03	287	eP	20	05.90	1.6	MUN	1.71	200	eP	44	14.90	0.6						
VAI	4.08	273	P	20	05.10	0.2				iS	44	34.00							
PRU	4.16	359	Pn	20	05.00	-1.0	RKG	3.70	178	eP	44	47.00	4.3X						
			e	20	18.00					eS	45	31.00							
			Sg	21	19.00		COOL	3.70	99	eP	44	43.30	0.5						
SDI	4.17	188	P	20	07.80	1.6				iS	45	26.10							
			eSn	20	53.00		MEKA	4.01	22	eP	44	52.30	5.3X						
DUI	4.17	182	P	20	07.00	0.7				eS	45	39.00							
BEO	4.24	102	ePn	20	24.50	17.3X	NANU	7.87	351	eP	45	43.20	1.8						
ZLA	4.59	293	eP	20	13.10	0.8				eS	46	07.00							
SLE	4.63	297	eP	20	12.50	-0.2	MBL	9.54	17	eP	46	03.30	-1.4						
MMK	4.64	275	eP	20	15.60	2.4		0.3s		2.00nm			5.0mb X						
ORO	4.65	270	P	20	12.30	-0.9				eS	47	46.00							
CKI	4.70	255	P	20	15.20	1.5	WARB	9.55	67	iPd	46	03.80	-1.1						

0.5s 12.00nm 5.6mb X
eS 47 48.00
S.D. = 1.5 on 7 of 10 obs.

---

* MAY 30, 1990 20h 19m 37.40± 1.08s
46.523 N ± 9.1km 26.775 E ±26.2km
DEPTH = 90.0km (geophysicist)
ROMANIA (358)

PSN	3.01	160	iPd	20	25.00	1.1
PVL	3.46	198	iPd	20	31.00	0.9
DMK	4.75	171	iPn	20	46.50	-1.5
KDZ	4.97	192	eP	20	51.00	0.0
RZN	5.06	198	iP	20	52.00	-0.4
SUF	16.24	359	eP	23	21.00	0.0

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

? MAY 30, 1990 22h 27m 41.66± 1.34s
38.356 N ±10.4km 22.017 E ±16.2km
DEPTH = 33.0km (normal)
GREECE (364)
ML 3.2 (ATH).

NEO	1.34	44	eP	28	04.60	0.4
			eS	28	25.00	
ATH	1.39	105	eP	28	04.50	-0.5
VLI	1.79	156	eP	28	11.00	0.3
OHR	2.91	342	ePn	28	26.50	-0.2

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

% MAY 30, 1990 23h 00m 15.26± 0.78s
40.671 N ± 7.3km 15.738 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.35	251	Pc	00	22.00	-0.4
			eSg	00	29.00	
MGR	0.55	195	P	00	26.00	-0.5
			eSg	00	30.00	
ORI	0.81	138	P	00	31.50	0.4
			eSg	00	41.00	
BAI	0.97	62	P	00	33.00	-0.6
			eSg	00	46.50	
TDS	1.11	155	P	00	36.50	0.4
			eSg	00	47.50	
SDI	1.78	306	P	00	47.00	0.7

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

MAY 31, 1990 00h 06m 12.94± 0.37s
46.245 N ± 3.5km 2.630 E ± 3.3km
DEPTH = 9.4 ± 4.4 km
FRANCE (538)
ML 2.6 (LDG).

MAF	0.05	242	Pg	06	14.70	-0.4
			Sg	06	15.80	
TCF	0.29	279	Pg	06	19.00	-0.1
			Sg	06	22.90	
BGF	0.35	25	Pg	06	20.00	-0.1
			Sg	06	24.70	
AGO	0.40	119	Pg	06	20.89	-0.2
			Sg	06	26.62	
PYM	0.56	152	Pg	06	24.06	-0.2
			Sg	06	32.01	
AVF	0.74	42	Pg	06	27.00	-0.5
			Sg	06	36.60	
			Sn	06	40.00	
PLDF	0.74	111	Pg	06	27.87	0.3
			Sg	06	38.39	
LSF	0.76	271	Pg	06	27.70	-0.2
			Sg	06	37.50	
SMF	0.93	64	Pg	06	30.30	-0.4
			Sg	06	42.60	
			Sn	06	44.90	
SSF	1.02	36	Pg	06	32.10	-0.1
			Sg	06	45.30	
LBF	1.19	51	Pg	06	35.40	0.2
			Sg	06	50.60	
RJF	1.22	220	Pg	06	36.40	0.7
			Sg	06	53.00	
LOR	1.33	39	Pg	06	38.00	0.5
			Sg	06	54.60	
CAF	1.38	197	Pn	06	38.20	-0.1
			Pg	06	39.40	
			Sg	06	57.30	
LFF	1.86	226	Pg	06	48.60	3.4X
			Sg	07	13.10	

LPO	1.86	214	Pg	06	48.50	3.3X
			Sg	07	12.30	
MFF	1.95	282	Pg	06	49.90	3.4X
			Sg	07	14.40	

S.D. = 0.4 on 14 of 17 obs.

MAY 31, 1990 00h 15m 33.13± 0.73s
43.280 N ± 6.1km 19.825 E ± 6.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (TTG).

PLE	0.32	279	iPgc	15	39.40	-0.4
			eSg	15	44.20	
IVA	0.41	173	iPgd	15	40.30	-1.3
			eSg	15	46.50	
PVY	0.69	171	ePg	15	45.40	-1.5
			eSg	15	56.50	
NKY	0.77	233	ePg	15	47.60	-0.6
			eSg	15	59.00	
TTG	0.95	206	ePg	15	50.50	-0.6
			eSg	16	05.00	
BRY	1.01	248	ePg	15	52.00	-0.4
			eSg	16	07.00	
BDV	1.24	217	ePg	15	57.20	1.1
			eSg	16	17.00	
HCY	1.28	230	ePg	15	58.50	1.6
			eSg	16	18.00	
BEO	1.61	16	ePn	16	02.50	0.9
			eSg	16	24.00	
SKO	1.77	137	ePn	16	05.00	1.0
OHR	2.28	161	ePn	16	13.00	1.5
HVAR	2.47	269	i(Pn)	16	18.70	4.6X
			iSn	16	50.70	
BZS	2.67	28	ePc	16	15.50	-1.3

S.D. = 1.3 on 12 of 13 obs.

MAY 31, 1990 00h 17m 47.85± 0.09s
45.811 N ± 1.4km 26.769 E ± 1.2km
DEPTH = 88.2km (geophysicist)
6.1mb (73 obs.)
ROMANIA (358)
mb 6.5 (PAS), 6.2 (BRK).
Additional domage in Romanio.
Felt (V) in northern Bulgorio and ot Kishinev, USSR. Felt throughout Bulgorio and in ports of Yugoslovio. Also felt ot Lvov, USSR and Istanbul, Turkey. Two events obout 2.3 seconds oport. Depth from broodband displocement seismogroms, bosed on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=310 Dip=70 Slip= 90
NP2: 130 20 90
Principol Axes:
T Plg=65 Azm=220
P 25 40
Comment: The focol mechonism is well controlled and corresponds to reverse faulting. The preferred foult plone is NP2.
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 15S, 41C M.W.: 13S, 24C
Centroid Locotion:
Origin Time 00:17:44.7 0.3
Lot 45.67N 0.03 Lon 26.00E 0.02
Dep 87.3 1.3 Half-durotion 5.5
Moment Tensor; Scole 10**18 Nm
Mrr= 2.02 0.04 Mtt=-2.09 0.07
Mff= 0.07 0.06 Mrt=-1.63 0.04
Mrf= 1.65 0.04 Mtf= 0.93 0.05
Principol Axes:
T Vol= 3.16 Plg=63 Azm=244
N 0.15 15 123
P -3.31 22 27
Best Double Couple:Mo=3.2*10**18
NP1:Strike= 90 Dip=26 Slip= 54
NP2: 309 69 106

VRI	0.07	332	iPc	18	00.90	1.1
MLR	0.66	241	iPc	18	05.20	1.0
ISR	0.69	193	iPc	18	06.00	1.6
PPE	0.72	55	iPc	18	06.00	1.4
BAC	0.76	7	iPd	18	00.00	-5.0X
CLI	0.82	26	iPd	18	05.50	-0.2
CMP	1.33	247	iPc	18	16.00	4.2X
IAS	1.49	21	iPd	18	10.50	-3.2X
TLB	1.51	143	iPd	18	14.00	-0.1
BUC1	1.55	200	iPc	18	15.50	0.9
PSN	2.35	154	iPd	18	26.00	0.7
DEV	2.70	273	iPd	18	32.00	1.9
PVL	2.79	202	iPd	18	32.00	0.7
GZR	2.83	263	iPc	18	34.50	2.5
JMB	3.35	182	iPc	18	39.00	0.0
CEI	3.51	304	iPc	18	44.00	2.9
PGB	3.76	211	iPd	18	45.00	0.3
TIM	3.88	271	iPd	18	47.50	1.2
DMK	4.05	169	iPn	18	48.00	-0.7
VTS	4.11	220	iP	18	49.00	-0.7
UZH	4.15	314	iP	18	51.00	0.9
KDZ	4.27	194	iPd	18	52.00	0.2
			iS	19	28.00	
BEO	4.56	260	iPn	18	55.40	-0.4
			iSn	19	33.50	
RDO	4.75	191	iPnd	18	57.40	-1.0
CTT	4.82	165	iP	18	57.30	-2.0
ITU	4.98	160	iPc	19	58.00	56.4X
ISK	5.03	160	iP	19	00.70	-1.6
SRS	5.23	207	ePn	19	04.10	-1.0
SIM	5.25	97	iP	19	04.00	-1.3
			iS	20	00.00	
KGT	5.37	176	P	19	05.61	-1.5
GBZT	5.39	158	iPd	19	05.50	-1.8
HRT	5.42	156	iP	19	07.20	-0.6
VAY	5.43	216	iPn	19	07.30	-0.5
KNT	5.43	213	ePn	19	06.80	-1.1
SKO	5.44	227	iPnd	19	07.00	-1.0
			iPb	19	17.50	
			iPg	19	25.50	
			iSn	20	05.00	
			iSb	20	20.00	
			iSg	20	31.00	
EDC	5.52	171	iP	19	08.30	-0.9
YLV	5.58	159	P	19	08.29	-1.7
KCT	5.68	168	iP	19	09.70	-1.7
IVA	5.74	242	ePn	19	13.00	0.8
			eSn	20	06.50	
IZI	5.82	159	iP	19	11.70	-1.7
PLE	5.82	247	ePn	19	12.50	-0.9
			eSn	20	07.50	
PVY	5.85	239	ePn	19	14.00	0.2
			eSn	20	10.50	
THE	5.87	210	ePn	19	13.00	-1.0
KKS	5.92	233	ePn	19	15.00	0.4
EZN	5.99	183	iP	19	15.00	-0.6
GPA	6.10	154	iP	19	15.90	-1.3
SRO	6.14	292	eP	19	16.40	-1.3
	2.0s		14.00nm			3.9mb X
			e	19	34.00	
PHP	6.16	230	iPnd	19	16.30	-1.7
KRA	6.25	315	iPd	19	18.10	-1.1
	1.4s	7208.	00nm			6.8mb
			i	19	20.60	
			i	20	06.00	
			iS	20	28.00	
NKY	6.33	244	iPnd	19	20.30	-0.1
			eSn	20	20.00	
TTG	6.37	241	iPnd	19	20.70	-0.2
			eSn	20	23.00	
OHR	6.40	225	iPnd	19	21.00	-0.3
SDA	6.48	237	ePn	19	23.80	1.5
LIT	6.51	210	ePn	19	21.00	-1.9
BRY	6.57	247	ePn	19	24.00	0.2
			eSn	20	26.00	
LACI	6.60	233	iPnd	19	25.30	1.3
ULC	6.66	237	ePn	19	26.40	1.6
			eSn	20	30.50	
TIR	6.71	231	ePn	19	26.00	0.5
			iSn	20	36.00	
BDV	6.72	241	ePn	19	27.30	1.6
			eSn	20	32.00	
KAS	6.74	129	iPd	19	23.90	-2.2
KBN	6.77	222	iPnc	19	26.50	0.2
HCY	6.83	243	ePn	19	28.20	0.9
			eSn	20	33.00	
NEO	7.01	203	iPnc	19	28.90	-0.8
ZST	7.03	293	eP	19	28.50	-1.4
			i	19	41.80	
			i	19	48.70	
			e	20	47.00	
			e	21	01.00	
			e	21	58.00	
RAC	7.17	318	eP	19	31.00	-0.9
			e	19	34.00	
			e	19	41.00	
			iS	20	54.00	
ALT	7.19	159	iP	19	31.00	-1.2
TPE	7.41	224	ePn	19	36.00	0.9
IZM	7.42	177	iP	19	33.60	-1.8
ZAG	7.54	274	eP	19	37.00	0.1
			i	19	38.50	
			iS	21	04.00	
PTJ	7.55	275	eP	19	37.30	0.1
			e(S)	20	59.00	
VKA	7.55	293	eP	19	37.00	-0.1
			ic	19	38.20	
			i	20	02.00	
			i	20	08.00	
			i	20	42.70	
			i	22	17.30	
KHL	7.76	164	iP	19	39.00	-1.0
HVAR	7.83	254	iP	19	41.70	0.7
			iS	21	03.70	
KEK	7.96	223	ePn	19	44.30	1.6
VBY	8.07	272	iPnc	19	45.50	1.2
SMG	8.10	180	iPnd	19	43.10	-1.5
ATH	8.16	197	iPnd	19	44.00	-1.4
KVT	8.24	122	iP	19	42.70	-3.9X
CIN	8.26	173	eP	19	45.00	-1.9
LCI	8.46	233	P	19	49.60	0.1
BRT	8.54	238	P	19	51.00	0.4
LJU	8.54	276	ePc	19	52.00	1.4
			e(S)	21	35.10	
BAI	8.59	240	P	19	51.00	-0.3
KSP	8.60	310	eP	19	48.50	-3.0
			i	19	52.50	
CEY	8.63	274	ePc	19	52.40	0.5
YER	8.74	172	iP	19	55.00	1.5
BCK	8.82	160	iP	19	53.70	-0.8
VLS	8.90	213	iPnc	19	55.50	-0.1
KMR	8.94	289	iP+	19	55.90	-0.2
			iS	21	33.80	
VOY	8.98	276	iPc	19	58.00	1.2
TRI	9.10	274	iPnd	20	00.20	2.0
			iSn	21	46.50	
			i	22	47.00	
RBL	9.19	279	P	20	17.60	18.0X
PRU	9.21	301	ePnd	20	00.00	0.2
Z	13s		54.00um			
E	13s		57.00um			
			e	20	07.00	
			Sn	21	44.00	
ELL	9.36	164	iP	20	03.30	1.4
KBA	9.36	283	eP	20	03.00	1.0
	1.7s	1930.	00nm			6.7mb
			i	20	16.70	
ORI	9.50	236	P	20	04.40	0.7
VLI	9.53	199	ePn	20	03.50	-0.6
KHC	9.53	295	P	20	04.00	-0.2
	1.2s	740.	00nm			6.5mb
Z	10s		66.50um			
E	11s		55.00um			
			e	20	27.00	
BHG	9.72	286	iPc	20	08.60	1.8
	2.2s	1658.	00nm			6.6mb
FVI	9.73	280	P	20	08.80	1.9
DUI	9.83	249	Pc	20	08.90	0.7
TDS	9.83	235	P	20	08.00	-0.2
SGO	9.88	242	P	20	09.00	0.2
KSL	9.91	167	ePn	20	19.50	10.2X
BRG	9.92	305	iPc	20	07.80	-1.6
	1.8s	520.	00nm			6.2mb
N	17s		35.00um			
E	17s		62.00um			
			i	20	10.40	
			i	20	16.00	
			eS	22	00.00	
WET	9.98	295	iPc	20	11.20	1.0
ARV	10.12	262	P	20	12.50	0.3
AQU	10.22	255	P	20	14.00	0.5
SDI	10.23	251	Pc	20	13.40	-0.2
RFI	10.31	249	P	20	16.02	1.3
RSM	10.34	265	P	20	15.77	0.8
AZI	10.35	253	Pd	20	16.40	1.2
GRI	10.37	231	P	20	14.90	-0.5
ASS	10.46	260	Pc	20	17.50	0.8
CTI	10.54	277	P	20	18.20	0.3

31d 00h

VAM	10.57	192	ePn	20	17.50	-0.7	RSP	13.71	274	P	20	58.68	-1.0	MDSJ	15.96	149	Pc	21	29.30	0.9
WATA	10.57	284	iPc	20	18.40	0.0	LSD	13.73	276	P	21	00.11	0.0	SSF	16.08	283	iPc	21	28.50	-1.3
	1.4s	2693.00nm			7.0mb		ENR	13.78	270	P	21	00.52	0.0		1.7s	3446.35nm			6.3mb	
			ic	20	19.80		LOMF	13.80	284	P	21	00.35	-0.5	PLDF	16.11	279	P	21	29.62	-0.7
			i	20	32.60		EMS	13.81	278	ePc	21	00.90	-0.1	AVF	16.20	282	iPc	21	30.00	-1.3
CLL	10.65	306	ePd	20	17.00	-2.2	BSF	13.83	286	P	21	01.20	0.0		1.5s	2897.20nm			6.2mb	
	2.0s	710.00nm			6.2mb		AUTN	13.83	269	P	21	02.31	1.0	MKT	16.21	153	eP	21	33.40	1.8
			i	20	24.70		DOI	13.84	272	P	21	00.10	-1.2	RUWJ	16.25	141	Pc	21	31.90	-0.1
			iS	22	16.00		STV	13.84	270	Pc	21	01.55	0.2	HFS	16.32	336	eP	21	28.30	-4.3X
MNS	10.70	256	Pc	20	20.10	0.2	SBF	13.86	269	iPc	21	01.20	-0.3		0.8s	790.60nm			6.0mb	
SFI	10.76	265	Pc	20	21.50	0.9	AURF	13.93	269	P	21	04.54	2.1		Z 16s	15.01um			5.7Msz	
CRE	10.77	264	P	20	22.70	1.8	REVF	13.94	268	P	21	05.06	2.5				LR	24	53.00	
SOTA	10.82	283	iPc	20	21.80	0.2	PZZ	13.94	272	P	21	03.08	0.4	HLW	16.32	166	eP	21	32.00	-0.9
	1.2s	1545.00nm			6.8mb		TOUF	13.95	270	P	21	05.71	2.8X				eS	24	36.00	
			ic	20	22.80		LPG	14.01	276	iPc	21	04.90	1.2	KOT	16.34	164	ePc	21	32.00	-1.1
			i	20	36.20		LPL	14.02	276	iPc	21	04.70	0.9	AGO	16.44	279	P	21	35.55	1.2
			i	22	24.10		MVIF	14.05	269	P	21	06.73	2.6X	TAB	16.45	111	iPd-	21	37.00	2.3
FUR	10.84	288	eP	20	22.80	0.9	RRL	14.08	274	Pc	21	04.42	-0.2	PYM	16.57	278	P	21	35.54	-0.4
PGD	10.86	265	Pc	20	23.50	1.3	HAU	14.13	286	iPc	21	04.50	-0.5	BGF	16.57	281	iPc	21	34.80	-1.2
RMP	10.92	254	Pd	20	22.90	0.0		1.1s	1221.00nm			6.1mb		PRNI	16.73	155	eP	21	38.50	0.5
HOF	10.93	300	eP	20	23.50	0.5	BNI	14.13	274	P	21	05.20	0.0	MAF	16.81	280	iPc	21	38.10	-0.8
RDP	10.94	253	P	20	23.00	-0.1	PUL	14.14	7	ePd	20	58.00	-7.0X		1.5s	2448.35nm			6.2mb	
OGA	10.94	281	iPc	20	24.90	1.6				eS	23	23.00		SUF	16.95	359	iP	21	33.80	-6.6X
BRN	11.07	312	eP	20	24.00	-0.8	PLH	14.22	299	ePd	21	07.30	1.3	TCF	17.04	280	iPc	21	41.10	-0.7
SOI	11.10	230	P	20	24.00	-1.2	CALN	14.27	269	P	21	08.18	1.2	KONO	17.25	330	eP	21	37.49	-6.6X
GRF	11.16	296	iPc	20	25.40	-0.7	PTS	14.27	236	P	21	08.10	1.2	CAF	17.37	276	iPc	21	46.40	0.6
			eS	22	36.00		HRI	14.30	148	eP	21	07.70	0.4	SLY	17.44	119	iPc	21	48.50	1.8
MOX	11.20	301	eP	20	28.00	1.4	VITF	14.38	287	P	21	09.04	0.9				iPP	21	59.00	
			i	20	30.00		WLF	14.39	293	iPd	21	14.86	6.6X				iPPP	22	12.00	
OBN	11.20	30	iPd	20	21.00	-5.5X	JCK	14.46	299	ePd	21	10.30	1.1				i	22	52.50	
			iS	22	14.00		WTS	14.49	302	eP	21	09.50	-0.1				iS	25	00.00	
MSI	11.28	232	P	20	27.30	-0.3		1.0s	577.00nm			5.8mb					iS	25	17.50	
ATN	11.36	232	Pc	20	27.00	-1.7				e	21	16.10					i	25	30.50	
SAL	11.36	275	P	20	29.80	1.1	FRF	14.49	268	iPc	21	09.70	0.0				iPcP	26	29.50	
MME	11.49	268	Pd	20	32.10	1.4	ATZ	14.53	150	eP	21	12.70	2.4				iLR	28	21.50	
OSS	11.55	280	ePc	20	32.70	1.3	MEM	14.64	297	iPc	21	12.41	1.0	LSF	17.52	281	iPc	21	47.20	-0.4
BDI	11.60	267	P	20	32.10	0.2				i	21	27.21		ETER	17.53	267	iPc	21	49.00	1.3
LFK	11.70	152	eP	20	33.60	0.3	LMR	14.65	268	iPc	21	11.80	0.1	RJF	17.68	277	iPc	21	50.40	0.8
MAO	11.73	259	Pc	20	33.40	-0.1	LRG	14.72	268	iPc	21	13.20	0.6	HOL	17.75	156	ePc	21	51.70	1.2
PII	11.74	266	Pc	20	33.70	0.1		1.4s	********nm			6.9mb		NB2	17.77	335	P	21	46.20	-4.4X
MDI	11.91	276	P	20	36.40	0.5	ENN	14.72	297	ePc	21	13.00	0.5	LPO	18.03	276	iPc	21	54.50	0.6
MNO	11.95	233	Pc	20	36.50	-0.2		1.6s	1146.00nm			5.9mb		BLS1	18.11	326	eP	21	52.06	-2.7
BSD	11.97	325	iPd	20	31.00	-5.7X				e	21	19.50		LFF	18.29	277	iPc	21	57.20	0.2
	0.5s	2880.00nm			7.4mb X		NUR	14.78	356	iPd	21	06.80	-6.4X	AYN	18.41	154	ePc	21	58.70	0.1
VDL	12.02	279	ePd	20	38.90	1.3				e	23	32.00		BHD	18.42	127	iPd	22	00.80	2.1
SAX	12.09	283	ePc	20	38.50	-0.1	SHMJ	14.79	149	Pc	21	16.00	2.4				iPP	22	18.00	
BOB	12.25	271	P	20	41.30	0.8	WIT	14.84	305	eP	21	14.00	0.0				iS	25	26.50	
GIB	12.29	235	P	20	40.60	-0.4				e	21	20.00		BADA	18.44	157	eP	21	59.00	0.0
STU	12.29	290	iPc+	20	40.50	-0.5	ZNT	14.98	152	eP	21	16.90	0.9	LDF	18.45	288	iPc	21	57.00	-1.9
	1.0s	520.00nm			6.3mb		UPP	15.09	342	iPd	21	11.30	-5.9X	ESEL	18.50	259	iPc	21	59.50	-0.1
			iS	23	00.00					i	21	12.90		ODD1	18.52	327	eP	21	59.08	-0.6
USI	12.31	240	P	20	41.80	0.6	BERF	15.23	268	P	21	20.63	1.5	MFF	18.62	282	iPc	21	59.00	-1.9
LLS	12.33	281	ePc	20	41.70	0.0	DHLJ	15.23	168	Pc	21	35.00	15.8X	KMY	18.63	324	iPd	21	59.50	-1.4
MEU	12.42	230	P	20	41.20	-1.6	BURJ	15.24	150	P	21	21.90	2.5	FLN	18.68	289	iPc	21	59.40	-2.2
TMA	12.46	278	ePc	20	44.00	0.6	TREF	15.36	269	P	21	21.91	1.2		0.9s	2303.35nm			6.4mb	
VAI	12.56	277	P	20	44.40	0.0	GELF	15.39	269	P	21	22.51	1.3	GRR	18.95	288	iPc	22	02.00	-2.4
SLE	12.68	285	ePc	20	45.80	-0.3	SALJ	15.41	150	Pd	21	22.80	1.3	EPF	19.05	271	iPc	22	03.80	-1.9
ZLA	12.74	284	ePd	20	46.50	-0.4	DOU	15.45	294	iPc-	21	22.70	0.9	LPF	19.09	287	iPc	22	03.40	-2.6
MCT	12.76	235	P	20	49.60	2.3				i	21	39.00		BER	19.32	327	iPd	22	06.80	-1.5
BKR	12.77	103	iPd	20	46.00	-1.4				i	23	46.50		ASK	19.44	327	eP	22	09.22	-0.3
			iS	23	02.00					S	24	16.00		HYA	19.52	329	iPd	22	09.24	-1.1
PCP	12.92	271	Pc	20	49.45	0.1	PRAF	15.46	270	P	21	23.49	1.4	JAU	19.55	272	P	22	10.38	-0.7
FAI	12.98	234	P	20	51.60	1.6	DBN	15.49	302	iP+	21	21.00	-1.3	OGE	19.58	272	P	22	10.84	-0.4
TNS	13.03	296	ePc	20	50.30	-0.4				i	21	26.00		RGS	19.58	337	eP	22	09.50	-1.5
			eS	23	44.10					i	21	49.00		ESCF	19.68	272	P	22	11.77	-0.5
ERC	13.10	239	P	20	52.50	0.9				iS	24	18.00		EBR	19.72	265	iPc	22	12.00	-0.6
MMK	13.10	278	ePc	20	52.40	0.6	MSL	15.50	122	ePc	21	24.50	1.9				iS	25	49.00	
ORX	13.13	276	P	20	51.29	-0.8				ePP	21	38.50		LHE	19.76	271	P	22	13.59	0.4
CKI	13.13	271	P	20	54.00	2.0				ePP	21	48.00		ATE	19.77	272	P	22	12.38	-0.8
ORO	13.13	276	P	20	51.30	-0.8				eS	24	22.50		EROQ	19.78	265	eP	22	12.00	-1.3
PGF	13.16	262	P	20	53.66	1.1				eSS	24	41.00		MADF	19.83	272	P	22	13.03	-0.8
CVT	13.21	237	P	20	54.90	1.9				eSSS	25	04.00		ISSF	19.85	272	P	22	13.66	-0.5
STR	13.22	289	P	20	54.00	1.0				eLR	27	13.00		ELYF	19.94	272	P	22	14.15	-0.9
FIN	13.23	270	Pc	20	52.63	-0.7				e	28	55.50		SUE	19.97	328	ePd	22	14.00	-1.0
LVI	13.28	239	P	20	55.40	1.5	KFNJ	15.55	151	Pc	21	24.00	0.9	BOH	19.98	272	P	22	14.76	-0.7
BBS	13.34	284	P	20	54.49	-0.2	UCC	15.70	297	P	21	27.60	2.6	MOL	20.07	334	ePd	22	15.22	-0.8
GWF	13.35	291	P	20	56.34	1.5				iS	24	28.00		FOO	20.22	329	iPc	22	16.37	-1.2
COP	13.39	323	iPd-	20	51.00	-4.2X	SNF	15.70	296	iPc	21	26.39	1.4	FRO	20.38	329	eP	22	18.31	-0.9
	0.4s	2440.68nm			7.1mb					e	21	35.40		NSS	20.47	342	iPd	22	18.66	-1.5
			i	21	15.00		LBF	15.76	282	iPc	21	24.30	-1.6	BST	21.08	288	P	22	25.23	-1.3
			i	23	25.00			1.5s	2448.35nm			6.2mb		WAJH	21.10	155	ePc	22	27.70	0.8
WLS	13.48	288	P	20	57.12	0.6	MKRJ	15.82	151	Pc	21	18.30	-8.3X	TEH	21.11	110	ePc	22	30.00	3.0X
DIX	13.48	278	ePc	20	57.50	0.7	LOR	15.82	284	iPc	21	25.30	-1.3	EKA	21.11	308	Pc	22	25.60	-1.1
CDF	13.53	288	P	20	58.29	1.0		1.7s	3791.00nm			6.3mb			0.9s	312.50nm			5.6mb	
IMI	13.53	269	Pc	20	56.52	-0.7	SHBJ	15.86	144	Pc	21	33.50	6.2X	ESK	21.13	308	ePd	22	26.28	-0.6
ECH	13.59	287	P	20	58.42	0.4	SMF	15.88	281	iPc	21	25.70	-1.6				ed	22	28.60	9kmX
MOF	13.60	286	P	20	58.27	0.1		1.3s	1720.50nm			6.1mb		ECRI	21.18	272	iPc	22	27.20	-0.4

EDR	21.23	312	eP	22	27.00	-1.0				i	24	34.80	102kmX		0.9s	72.00nm		5.7mb				
ECHE	21.25	263	iPc	22	28.60	0.3	FRU	33.96	77	iPd	24	25.60	1.1			pP	27	43.00	102kmX				
EDI	21.28	309	eP	22	27.80	-0.6				iS	29	44.00		MBC	56.30	351 ePd	27	20.70	-0.2				
ACU	21.36	260	iPc	22	30.00	0.6	QUE	34.89	102	iPd-	24	34.50	1.7		0.8s	244.00nm		6.3mb				
EDU	21.37	311	iPc	22	28.70	-0.6				eS	30	02.20				pP	27	45.00	99kmX				
	1.1s	1026.00nm			6.1mb		TLG	35.68	75	iPc	24	40.20	1.0	LZH	56.92	70 iPd	27	26.83	0.7				
EAU	21.40	309	eP	22	29.50	-0.1				eS	30	08.20				ipPd	27	49.18	89kmX				
ETOR	21.50	267	iPc	22	29.80	-1.0	DAG	36.07	344	iPd-	24	41.40	-0.6	BTO	58.27	63 iPd	27	35.00	-0.4				
YRH	21.51	300	iPc	22	31.20	0.4		1.0s	384.00nm			6.3mb			4.0s	2400.00nm		6.6mb X					
EBH	21.54	310	ePc	22	30.30	-0.7	KSH	36.28	82	iPc	24	46.00	1.6			pP	27	58.00	92kmX				
	1.2s	1781.00nm			6.3mb		Z	15s	20.20um			6.0MszX				PP	29	48.00					
SOD	21.62	360	iP	22	30.90	-0.8	E	10s	20.00um							iS	35	30.00					
ELO	21.71	310	eP	22	32.30	-0.4				pP	25	03.00	68kmX	HIA	58.92	50 iPd	27	40.35	0.6				
	1.1s	999.00nm			6.1mb					PP	26	09.00				epPd	28	01.05	81kmX				
EAB	21.97	309	ePc	22	35.30	0.0				S	30	20.00				esPd	28	11.64					
APA	22.07	7	iPd	22	36.30	0.2				sS	30	47.00		HHC	59.08	62 iPd	27	41.00	-0.1				
			iS	26	21.30		OBO	36.52	152	iP+	24	46.01	-0.4		5.0s	4400.00nm		6.8mb X					
ASW	22.24	165	iPc	22	40.00	1.8	TDD	36.57	153	iP+	24	46.74	-0.1		Z 21s	20.30um		6.2Msz					
			eS	46	40.00		KSU	36.70	154	iP+	24	47.18	-0.7		N 10s	9.70um							
EALH	22.37	259	iPc	22	40.70	1.3	MKL	36.73	152	iP+	24	47.74	-0.4		E 10s	8.20um							
ETA	22.45	300	iPc	22	41.20	1.2	ARO	36.81	153	ePd	24	50.60	1.7			pP	28	04.00	92kmX				
ECP	22.52	298	iPc	22	41.30	0.7	SGH	36.83	153	iP+	24	48.91	-0.2			S	35	44.00					
AKRL	22.62	166	eP	22	45.00	3.2X	ATA	36.99	153	iP+	24	50.30	0.0	CD2	59.96	75 P	27	47.10	0.0				
AKSR	22.70	165	eP	22	47.00	4.4X	GBR	37.05	154	ePd	24	50.57	-0.3		0.7s	400.00nm		6.7mb					
DLE	22.71	301	eP	22	43.70	1.2	CTFE	37.90	258	iP	24	58.00	0.1		N 10s	4.00um							
EVIA	22.75	262	iPc	22	43.60	0.5	AAE	38.07	161	eP	25	01.50	1.7			pP	28	08.80	86kmX				
AWKL	22.80	166	iPc	22	46.50	2.9X	PDA	39.31	277	iPd	25	10.00	0.4			sP	28	20.10					
GUD	23.03	268	iPc	22	45.20	-0.7	BCAO	41.84	192	iPd	25	31.00	0.5			iS	35	53.20					
DCN	23.15	301	iPc	22	47.80	1.0		1.0s	190.00nm			5.9mb				sS	36	29.00					
TOL	23.27	266	iPc	22	47.97	-0.1				ic	27	20.00		CBM	61.34	309 P	27	54.30	-1.9				
			ic	22	50.62	10kmX				id	30	05.00		XAN	61.48	69 iPd	27	58.00	0.6				
			iPP	23	19.00					id	34	40.00			5.0s	1800.00nm		6.4mb X					
			iS	27	04.00					id	38	08.00			N 10s	5.70um							
KTK1	23.33	357	ePd	22	48.08	-0.4	WMO	42.34	70	iPd	25	36.25	1.8			pP	28	21.00	91kmX				
ENIJ	23.37	258	iPc	22	49.40	0.3				id	25	39.06				S	36	14.00					
LOF	23.40	348	iPd	22	49.35	0.3				ipPd	25	57.60	89kmX	TIY	61.49	64 Pc	27	57.20	-0.3				
UQSK	23.56	143	ePc	22	52.70	1.6				esPd	26	07.37			1.0s	100.00nm		5.8mb					
EBAN	23.86	262	eP	22	53.20	-0.6				ePP	27	13.97			Z 20s	16.50um		6.2Msz					
KEV	24.01	0	iPd	22	55.58	0.6				iS	31	45.00			N 13s	11.80um							
			ed	22	58.06	9kmX	NDI	42.90	96	iPd	25	40.00	0.9			pP	28	19.50	88kmX				
			eS	27	12.25			0.6s	246.67nm			6.2mb				PP	30	16.50					
AFC	24.13	260	iPc	22	55.90	-0.8				ePP	27	20.00				S	36	13.00					
TRO	24.21	353	eP	22	56.53	-0.3				iS	31	58.00				SS	40	17.00					
EMON	24.28	277	iPc	22	56.50	-1.4	GDH	44.79	330	ePd	25	54.00	0.2	EMM	62.33	307 P	28	01.80	-1.0				
ERUA	24.48	274	iPc	22	59.40	-0.4		1.0s	166.00nm			5.8mb		BJI	62.39	60 iPd	28	03.19	0.0				
EPLA	24.61	268	iPc	22	59.50	-1.6				i	26	16.00	92kmX		3.0s	1460.00nm		6.5mb					
EMEL	24.77	255	eP	23	02.80	0.2				i	27	34.00			Z 23s	15.30um		6.1MszX					
MJMA	24.83	137	ePc	23	04.00	0.8				i	33	02.00				ed	28	05.84					
VAL	24.90	298	iP	23	03.40	-0.2				i	36	04.00				ipPd	28	25.21	86kmX				
MAL	25.00	260	iPc	23	03.20	-1.5	LKO	45.53	228	Pc	25	58.78	-1.6			esPc	28	33.32					
			iS	27	35.00		KUK	45.94	219	eP	26	02.00	-1.5			PP	30	20.00					
EHOR	25.03	263	eP	23	03.60	-1.4	KOGH	45.98	219	eP	26	02.50	-1.3			eS	36	23.00					
STS	25.30	276	eP	23	06.40	-1.1				S	26	22.50				SS	40	27.00					
AFIF	25.40	143	ePc	23	11.40	2.8X	SHGH	46.03	219	eP	26	03.80	-0.4	KMI	62.91	81 Pd	28	06.50	-0.7				
EPRU	25.44	261	iPc	23	07.20	-1.7				S	33	23.00			Z 32s	14.70um		5.9MszX					
EZAM	25.65	275	iPc	23	10.00	-0.7	TEGH	46.27	218	eP	26	05.00	-1.1			pP	28	30.00	93kmX				
ALJ	25.85	261	eP	23	12.00	-0.7				S	33	26.00				PP	30	24.50					
EJIF	25.87	260	iPc	23	10.70	-2.1	LEGH	46.34	219	eP	26	05.50	-1.2			S	36	28.00					
OJEN	26.10	260	eP	23	14.50	-0.5	WEGH	46.45	219	eP	26	07.00	-0.6	CHG	64.41	89 ePc	28	16.00	-0.9				
MOMI	26.11	260	eP	23	11.50	-3.5X	POO	47.34	109	iPd	26	15.20	0.6		1.0s	207.50nm		6.0mb					
EVAL	26.19	264	iPc	23	14.60	-1.1				iS	33	03.00				eS	36	48.00					
PLAT	26.24	260	eP	23	15.50	-0.7	NAI	47.72	166	iPc	26	21.00	3.3X	CHTO	64.41	89 eP	28	16.00	-0.8				
MAIO	26.29	100	iPd-	23	18.50	1.8		1.1s	113.92nm			5.7mb				ipPd	28	39.18	91kmX				
	1.2s	208.33nm			5.5mb		TIC	47.72	225	P	26	15.90	-1.7	BNH	64.52	308 P	28	16.20	-1.0				
			eS	27	48.00		KIC	47.83	224	Pc	26	16.70	-1.7	GYA	64.74	77 iPd	28	19.00	0.0				
CNIL	26.32	261	eP	23	15.00	-1.8		0.7s	1720.00nm			7.0mb			3.0s	1900.00nm		6.5mb					
NKM	26.36	258	iPc	23	16.00	-1.3	LIC	48.09	225	Pc	26	18.80	-1.6			pP	28	42.40	92kmX				
RYD	26.42	136	ePc	23	18.80	0.8				S	33	32.00				PcP	28	52.00					
DHR	26.96	128	ePc	23	23.00	0.2	MBO	48.22	244	iPc	26	22.00	0.7			S	36	52.00					
IFR	27.27	254	iPc	23	24.50	-1.2	TIK	50.85	24	iPd	26	41.00	0.1			sS	37	32.00					
			i	23	25.50	4kmX				eS	34	24.00				ScS	38	04.00					
LIS	27.34	268	iPc	23	25.40	-0.7	HYB	51.27	106	eP	26	44.00	-0.7	ILT	65.00	10 iPd	28	20.00	0.1				
BRF	27.39	128	eP	23	28.00	1.4		1.4s	400.00nm			6.3mb		INK	65.25	352 iP	28	20.30	-1.2				
	1.5s	1422.00nm			6.3mb					e	27	02.00	71kmX		1.0s	135.00nm		5.8mb					
RBA	28.14	257	iP	23	31.50	-1.9				eS	33	54.00				pP	28	42.00	84kmX				
			i	23	33.00	5kmX	LSA	52.02	84	P	26	51.00	0.2	TIA	65.36	63 P	28	22.10	-0.6				
AVE	28.94	256	iPc	23	39.50	-1.1				iS	34	08.00			1.0s	130.00nm		5.8mb					
			i	23	55.50	67kmX	FRB	52.32	326	eP	26	51.00	-1.0		Z 32s	15.90um		6.0MszX					
			i	24	13.00			0.9s	123.00nm			5.9mb			N 11s	3.80um							
			i	24	44.00		GTA	52.42	69	Pd	26	53.20	-0.1		E 11s	5.70um							
			i	25	00.00			Z 30s	43.60um			6.3MszX				pP	28	44.20	86kmX				
TIO	30.28	253	iPc	23	52.50	-0.2		E 16s	19.80um							S	36	56.00					
			i	24	10.50	77kmX				pP	27	15.00	88kmX			ScS	38	09.40					
			i	24	36.50					S	34	13.00				SS	41	13.00					
DSH	31.67	88	eP	24	03.00	-1.7	KOD	55.79	113	eP	27	17.10	-1.3	CN2	65.39	52 iPc	28	22.50	-0.2				
			eS	29	06.00					eS	34	56.00			4.0s	4800.00nm		6.8mb X					
REY	32.34	322	iPc	24	11.70	1.5	SCH	56.10	316	eP	27	18.00	-1.8		Z 14s	8.10um		6.1MszX					

31d 00h

```
                     pP     28 43.50   81kmX
                     PP     30 46.00
                     iS     37 00.00
                     sS     37 36.00
                     SS     41 16.00
SNY       65.62  55 iPd     28 23.50   -0.7
          7.0s  5300.00nm              6.6mb X
      Z   32s     15.00um              6.0MszX
      N   10s      4.40um
                     pP     28 45.00   83kmX
HBVT      65.65 309 P       28 23.40   -1.1
DL2       66.37  58 iPd     28 29.00   -0.1
          4.0s  1400.00nm              6.2mb X
      Z   30s      9.60um              5.8MszX
                     S      37 10.00
MDJ       67.08  49 iPd     28 33.50   -0.1
          1.2s   100.00nm              5.6mb
      Z   25s     16.50um              6.2MszX
                     pP     28 56.00   87kmX
                     iS     37 20.00
WHN       67.24  69 P       28 34.50   -0.2
      N   14s      2.70um
      E   12s      3.90um
                     pP     28 56.00   83kmX
LOE       67.31  88 eP      28 33.50   -1.8
NST       67.37  91 eP      28 36.00    0.3
                     e      29 02.00  103kmX
YKA       67.71 342 eP      28 37.20    0.0
          0.8s   307.40nm              6.3mb
TBR       68.43 307 P       28 41.20   -0.8
                     pP     29 06.40   99kmX
IMA       68.46   0 iPc     28 42.20    0.3
PNJ       68.55 307 iP      28 43.00    0.3
GMTN      68.58 307 iP      28 43.60    0.7
NJ2       69.16  65 iPd     28 47.00    0.4
          4.0s  1200.00nm              6.1mb X
      Z   22s      2.40um              5.4Msz
      N   12s      4.30um
      E   12s      2.40um
                     pP     29 08.00   80kmX
                     sP     29 22.00
                     S      37 46.00
                     sS     38 25.00
NNT       69.22  93 eP      28 47.80    0.7
FBA       69.55 358 iPd     28 49.10    0.7
ANM       69.55   6 P       28 49.00    0.5
SCP       70.67 309 iPc     28 54.47   -1.2
                     ic     28 56.45    6kmX
ELF       70.81 313 P       28 56.10   -0.4
FFC       70.84 331 iPc     28 55.80   -0.7
          1.1s   250.00nm              6.0mb
LDN       70.86 312 P       28 56.20   -0.6
DLA       71.19 312 P       28 57.60   -1.1
SSE       71.27  65 Pd      28 59.00   -0.4
          4.0s  1200.00nm              6.1mb X
      N   11s      2.80um
      E   11s      0.90um
                     ipP    29 18.00   71kmX
                     PP     31 38.00
                     eS     38 04.00
                     ScS    38 50.00
                     SS     42 50.00
KSR       71.33 180 iPc     28 57.00   -2.9X
          1.0s   910.00nm              6.6mb
GZH       71.51  76 P       29 02.00    1.1
      Z   30s      9.70um              5.9MszX
      N   11s      1.90um
      E   10s      5.50um
                     pP     29 24.00   84kmX
                     sP     29 33.00
                     S      38 16.00
TTA       71.59   1 iPd     29 01.50    0.6
YSS       71.83  40 iPd     29 04.00    1.5
                     iS     38 18.00
QIZ       71.86  81 P       29 03.20    0.1
      E   14s      5.50um
                     pP     29 27.00   92kmX
                     eS     38 19.00
CBN       72.21 307 iPd     29 04.80   -0.1
                     i      29 29.80   97kmX
TOA       72.29 357 iPc     29 06.20    1.1
NA2       72.47 307 P       29 06.00   -0.4
                     pP     29 30.00   92kmX
HKC       72.60  76 iP      29 08.90    1.5
                     iS     38 28.00
PMR       72.90 358 iPd     29 08.40   -0.1
          1.0s   200.00nm              5.9mb
```

```
      Z   20s      2.50um              5.5Msz
PET       73.30  28 eP      29 10.00   -1.0
                     eS     38 32.00
SVW       73.42   1 P       29 12.10    0.5
SNG       73.63  97 iPc     29 13.80    0.3
          1.6s   833.33nm              6.4mb
                     eS     38 34.00
QZH       73.77  71 eP      29 13.60   -0.5
          0.7s   100.00nm              5.8mb
      Z   27s      4.80um              5.7MszX
      E   11s      2.70um
                     pP     29 36.00   85kmX
                     S      38 37.50
                     sS     39 12.50
BLA       74.61 308 eP      29 17.50   -1.5
          1.2s   109.38nm              5.6mb
                     epP    29 43.00   98kmX
NAV       74.74 308 P       29 18.40   -1.3
                     pP     29 44.00   99kmX
MID       74.97 356 ePc     29 22.60    2.1
POF       75.09 186 iPc     29 21.50    0.0
FRS       75.21 181 iPc     29 21.00   -1.1
          0.7s   126.71nm              5.9mb
EDM       75.62 337 eP      29 23.50   -1.0
PSI       75.67 101 ePd     29 25.00   -0.2
          0.9s   181.20nm              6.0mb
IPM       75.77  98 ePd     29 26.20    0.4
          1.3s   611.60nm              6.3mb
                     e      29 51.80   99kmX
SHK       75.82  55 iP      29 25.80    0.0
          0.9s    87.39nm              5.6mb
HVD       76.06 181 iPc     29 44.50   17.3X
          1.7s  1115.39nm
SIT       76.41 350 ePc     29 29.90    1.2
LHS       76.81 306 P       29 30.80   -0.5
                     pP     29 56.00   97kmX
BPA       77.04 281 eP      29 32.43   -0.4
SFG       77.14 280 eP      29 33.30    0.0
JSC       77.21 306 P       29 33.00   -0.5
                     pP     29 58.00   96kmX
SEG       77.24 280 eP      29 34.06    0.1
MAJO      77.42  50 ePd     29 34.26   -0.4
                     ipPd   29 56.28   83kmX
MAT       77.42  50 eP      29 34.00   -0.7
          1.3s   165.38nm              5.8mb
      Z   20s      2.84um              5.6Msz
                     eS     39 17.00
SES       77.44 334 ePc     29 33.80   -0.8
          0.7s   333.00nm              6.3mb
                     pP     30 00.00  101kmX
MGG       77.45 280 eP      29 34.71   -0.4
NEV       77.47 282 eP      29 35.44    0.3
MGH       77.51 281 eP      29 37.87    2.4X
SGS       77.57 305 P       29 35.00   -0.5
                     pP     30 00.00   96kmX
TKL       77.59 309 P       29 35.00   -0.6
                     pP     30 00.00   96kmX
PAG       77.62 280 eP      29 36.33    0.2
HBF       77.69 305 P       29 35.60   -0.6
GBTN      77.82 309 P       29 36.60   -0.3
BBL       77.84 280 eP      29 37.15   -0.1
SMY       77.92  20 P       29 37.90    0.8
          1.3s   628.93nm              6.3mb
                     pP     30 01.00   87kmX
PRM       77.97 307 P       29 37.00   -0.8
                     pP     30 02.00   96kmX
CRM       77.98 279 eP      29 38.15    0.1
MVM       78.11 279 eP      29 39.12    0.4
FDF       78.16 279 eP      29 39.32    0.3
BIM       78.26 279 eP      29 40.24    0.7
SLW       78.51 278 eP      29 36.75   -4.2X
SLB       78.72 278 eP      29 42.14    0.0
PPI       78.96 102 ePd     29 44.00    0.6
          1.0s    83.20nm              5.6mb
SDN       79.03   4 ePc     29 41.80   -1.3
TUH       79.04 186 iPc     29 43.00   -0.3
          1.0s   500.00nm              6.3mb
SVB       79.25 278 eP      29 44.62   -0.4
FVM       79.31 314 P       29 43.50   -1.5
          0.8s   204.55nm              6.1mb
ITR       79.52 246 eP      29 45.40   -1.0
                     i      29 47.10    5kmX
                     i      30 13.00
                     i      30 22.70
                     i      30 39.20
                     e      31 15.90
                     e      32 02.30
```

```
                     i      32 45.20
                     e      33 04.40
PORP      79.59 285 iP      29 46.00   -0.8
CCM       79.67 315 iPc     29 46.08   -0.8
                     ec     29 48.23
                     ipPd   30 10.91   94kmX
PWLA      80.41 311 P       29 49.20   -1.7
RSSD      80.41 326 iPc     29 50.70   -0.3
                     e      38 46.50
                     e      39 56.80
                     e      40 24.00
                     ePPP   56 30.50
PNT       80.84 338 eP      29 53.00    0.1
          0.8s   192.00nm              6.0mb
HRY       80.94 333 eP      29 53.10   -0.5
BAG       81.02  76 eP      29 54.00   -0.6
NEW       81.13 337 P       29 54.40   -0.1
          0.8s   104.17nm              5.8mb
                     pP     30 20.00   97kmX
TRN       81.19 276 eP      29 56.26    1.0
          0.8s    68.90nm              5.6mb
TPP       81.46 276 eP      29 58.48    1.8
OLY       81.77 313 P       29 57.50   -0.5
DPW       81.79 337 P       29 58.00    0.0
MCW       82.22 340 P       30 00.50    0.3
PGC       82.40 341 eP      30 02.00    1.0
          0.7s   225.00nm              6.2mb
QCP       82.61  77 eP      29 56.00   -6.6X
RMW       83.11 339 P       30 05.00    0.1
IMW       83.12 331 P       30 06.00    0.8
CUM       83.24 278 iP      30 06.00    0.1
                     i      33 08.00
GMW       83.27 340 P       30 06.20    0.6
LNO       83.58 316 iPc     30 07.30    0.1
TUL       83.59 316 iP      30 07.40    0.0
          1.5s    18.30nm              4.8mb X
BW06      83.62 329 P       30 07.00   -0.7
LON       83.77 339 P       30 08.50    0.3
HPI       84.01 332 P       30 11.00    1.2
UYO       84.33 315 iPd     30 11.00   -0.1
BMW       84.38 340 P       30 12.00    0.7
SHW       84.40 339 P       30 12.00    0.5
GLD       84.58 325 ePc     30 13.00    0.5
          1.8s   615.38nm              6.3mb
                     epP    30 39.30  100kmX
GUAN      84.62 279 eP      30 12.00   -1.0
GOL       84.68 325 P       30 13.20    0.0
      Z   18s      4.77um              5.9Msz
                     pP     30 39.00   97kmX
LLAV      85.06 280 iPd     30 15.50    0.4
CAR       85.12 280 eP      30 16.00    0.6
                     iS     41 36.00
KKM       85.33  86 ePc     30 16.50    0.0
          1.3s   296.40nm              6.1mb
                     e      30 42.00   96kmX
OLLA      85.38 280 iPc     30 17.00    0.3
MORO      85.81 281 eP      30 19.20    0.3
MEO       85.83 318 iPc     30 18.40   -0.2
PLAV      85.96 280 eP      30 20.00    0.2
DAU       86.30 329 P       30 21.70    0.4
TSM       87.91  86 ePc     30 29.00    0.1
MSU       88.31 329 P       30 31.00    0.1
SDV       88.82 281 iPc     30 33.00   -0.5
ANMO      89.20 323 ePc     30 35.11    0.0
          1.0s    47.50nm              5.6mb
                     ec     30 37.26
                     ipPd   30 58.28   85kmX
ALQ       89.20 323 iPc+    30 35.10    0.0
          1.2s    85.16nm              5.8mb
      Z   20s      4.96um              5.9Msz
                     epP    31 00.00   92kmX
MIN       89.68 336 e(P)    30 37.70    0.5
WDC       89.71 337 ePc     30 36.60   -0.6
                     epP    31 01.80   94kmX
                     ePKKP  48 06.90
KVN       89.83 333 iPc     30 37.50   -0.5
                     epP    31 03.00   95kmX
                     ePKKP  48 08.50
FHC       89.89 338 ePc     30 38.90    0.8
ORV       90.38 336 ePc     30 40.40    0.1
                     epP    31 05.40   93kmX
TNP       90.43 332 P       30 41.00    0.2
          1.0s    30.83nm              5.5mb
                     pP     31 05.00   88kmX
BAO       90.82 248 eP      30 42.50   -0.1
CMB       91.46 335 ePc     30 45.92    0.6
                     ec     30 47.91
```

			ipPd	31	09.76	88kmX
			ePKKP	48	04.50	
BKS	92.15	336	ePd	30	50.20	1.8
	1.0s	100.00nm				6.1mb
			ePP	34	32.00	
			eSKS	41	46.00	
			eSS	48	00.00	
			eLQ	55	04.00	
			eLR	02	16.00	
BRK	92.16	336	ePc	30	49.60	1.1
			ePKKP	48	03.60	
FRI	92.22	334	ePc	30	49.50	0.8
			epP	31	14.40	92kmX
			ePKKP	48	02.60	
ARN	92.44	335	P	30	50.50	0.7
			pP	31	16.00	94kmX
MHC	92.48	335	ePc	30	50.90	0.8
PCC	92.54	336	ePc	30	51.00	0.8
CLC	92.62	332	eP	30	51.00	0.3
GSC	92.82	331	eP	30	53.00	1.3
			e	31	18.00	92kmX
GCC	92.87	335	ePc	30	52.60	0.9
LLA	92.94	335	ePc	30	53.50	1.4
			epP	31	19.20	95kmX
SAO	92.95	335	ePc	30	53.00	0.8
ISA	93.04	332	eP	30	54.00	1.3
			e	31	16.00	80kmX
PRI	93.30	334	ePc	30	55.60	1.7
			epP	31	20.30	91kmX
PRS	93.33	335	ePc	30	55.10	1.2
			ePKKP	48	00.30	
TPC	93.64	330	iP+	30	56.00	0.6
			e	31	22.00	97kmX
SBB	93.72	331	eP	30	57.00	1.2
			e	31	22.00	92kmX
ABL	94.03	333	P	30	58.50	1.1
			pP	31	24.00	94kmX
GLA	94.15	328	iP+	30	59.00	1.2
			e	31	14.00	51kmX
RVR	94.20	331	eP	30	58.00	0.1
			e	31	21.00	84kmX
MWC	94.22	331	eP	31	00.00	1.7
			e	31	20.00	72kmX
PAS	94.33	331	iPc	30	58.78	0.2
			ec	31	01.26	
			ipPd	31	23.77	92kmX
			ePP	34	41.00	
			epPP	35	09.00	
			eSKS	41	27.00	
			eS	42	05.00	
			ePS	42	49.00	
			epPS	43	23.00	
			eSS	48	25.00	
			eSSS	51	53.00	
			eLR	59	05.00	
CRZF	94.47	163	iPc	31	02.00	3.5X
			ePP	34	55.00	
			eS	42	10.00	
			eSP	44	00.00	
			eSS	49	35.00	
SYP	94.57	333	eP	31	03.00	3.2X
PLM	94.61	330	eP	31	01.00	0.9
			e	31	27.00	96kmX
BAR	95.15	330	eP	31	03.00	0.6
PSO	98.95	281	eP	31	21.00	0.8
SIV	99.81	257	Pc	31	23.40	-0.1
ZOBO	104.85	262	Pdiff	31	43.00	-3.8X
			LR	05	04.00	
LPB	105.01	262	Pdiff	31	38.00	-9.3X
	Z 22s	2.96um				5.8Msz
			PP	36	04.20	
			LR	05	26.00	
ARE	107.32	264	ePKP	36	05.00	-1.0
MTN	109.09	89	ePKP	36	08.30	-0.7
WARB	114.92	103	ePKP	36	19.00	-0.9
RTLL	115.11	250	ePKPc	36	19.60	-0.6
WB5	116.14	92	ePKP	36	21.20	-1.2
MAW	116.33	165	iPdiff	32	39.80	3.9X
MAW	116.33	165	iPKP	36	21.00	-0.2
			eS	46	57.00	
MDZ	116.35	249	ePKP	36	23.80	1.3
			i	37	25.20	
JACH	117.36	250	ePKP	36	24.50	0.0
FCH	117.57	250	iPKPd	36	25.00	-0.1
PEL	117.71	250	iPKPd	36	24.60	-0.4
	0.6s	23.33nm				
PMG	117.72	74	ePKP	36	25.00	-0.5
ROCH	117.82	250	iPKPd	36	25.10	-0.4
SAN	117.89	250	ePKP	36	24.50	-0.8
PCH	117.90	249	ePKPd	36	25.30	-0.1
TACH	118.19	250	iPKPd	36	25.00	-0.9
LCCH	118.50	250	ePKPd	36	25.30	-1.1
LNV	118.69	250	iPKPd	36	27.00	0.2
QIS	120.26	89	ePKP	36	29.80	-0.4
			e	36	54.00	
CTA	124.58	84	iPKPc	36	38.30	-0.2
	0.8s	122.39nm				
			i	37	02.00	
			iPP	38	48.00	
			i	41	44.00	
			e	45	13.00	
			iPS	48	21.00	
			iSSP	55	24.00	
ADE	128.49	103	ePKP	36	45.00	-0.7
RMQ	130.47	88	ePKP	36	50.30	0.7
	0.8s	60.00nm				
			e	40	06.00	
BFD	132.29	103	ePKP	36	52.10	-0.6
			e	40	11.60	
TOO	134.51	102	ePKP	36	46.00	-11.0X
			e	36	57.40	
BWA	134.88	97	ePKP	36	57.90	0.1
			e	37	26.00	
			ePP	39	46.10	
			iSKP	40	21.00	
COO	135.14	90	ePKP	36	59.00	0.6
			e	40	23.00	
SPA	135.62	180	ePKP	36	51.00	-7.3X
	0.9s	17.73nm				
	Z 18s	3.41um				6.1Msz
			i	39	38.20	
CAN	135.76	97	ePKP	36	51.50	-8.0X
			e	36	59.70	
			e	37	27.20	
			ePP	39	43.20	
			iSKP	40	22.80	
DZM	139.61	68	iPKPc	36	59.70	-7.3X
			iS	40	35.20	
DRV	139.95	145	PKP	36	58.60	-7.5X
SBA	144.29	167	PKP	37	11.30	-2.2X
TPT	148.91	349	iPKP	37	28.80	6.1X
	1.6s	1215.00nm				
			ipP	37	55.00	
PMO	148.96	350	iPKP	37	29.00	6.2X
	1.6s	810.00nm				
			ipP	37	55.00	
RUV	149.08	349	iPKP	37	29.20	6.2X
	1.6s	810.00nm				
			ipP	37	55.30	
VAH	149.16	349	iPKP	37	29.40	6.3X
	1.6s	810.00nm				
			ipP	37	55.30	
MSZ	152.80	102	PKP	37	35.50	7.8X
			e	38	01.00	
RKT	152.94	321	iPKP	37	37.40	8.9X
	S.D. = 1.0	on 572 of 624 obs.				

% MAY 31, 1990 01h 39m 58.87± 0.69s
43.454 N ± 5.8km 12.398 E ± 7.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.40	83	P	40	06.50	-0.5
			eSg	40	12.90	
ASS	0.43	153	P	40	07.70	0.1
			eSg	40	14.40	
RSM	0.47	5	P	40	09.30	0.8
			eSg	40	17.50	
SFI	0.61	320	P	40	10.90	-0.3
			eSg	40	20.70	
PGD	0.65	311	P	40	11.60	-0.3
			eSg	40	22.80	
MNS	1.09	169	P	40	19.70	0.3
			eSg	40	35.20	
	S.D. = 0.6	on 6 of 6 obs.				

MAY 31, 1990 02h 29m 21.07± 0.87s
34.599 N ± 7.9km 25.317 E ± 4.4km
DEPTH = 9.0 ± 4.4 km
4.0mb (9 obs.)
CRETE (370)
MD 4.2 (ATH), 4.3 (HLW).

VAM	1.22	312	ePb	29	43.80	-0.1
VLI	2.87	318	ePn	30	07.60	-0.2
SMG	3.34	21	ePn	30	12.50	-1.9
YER	3.49	43	iPn	30	16.00	-0.7
ATH	3.61	339	ePb	30	20.00	1.8
KSL	3.80	65	ePn	30	22.10	1.0
IZM	4.10	22	ePn	30	24.60	-0.7
ELL	4.31	59	iP	30	29.80	1.4
NEO	4.99	341	ePn	30	38.50	0.6
KHL	5.03	41	eP	30	39.00	0.5
BCK	5.14	55	eP	30	40.60	0.5
ALT	5.88	39	eP	30	50.00	-0.5
LFK	6.78	82	ePn	31	04.00	0.7
KOT	7.22	128	ePn	31	10.50	1.2
			eSn	32	33.00	
OHR	7.42	333	ePn	31	08.20	-3.9X
SKO	7.97	339	ePn	31	20.90	1.1
HRI	8.76	96	eP	31	30.00	-1.0
DSI	8.97	107	eP	31	31.00	-2.7
MBH	9.42	118	eP	31	41.00	1.0
KHC	16.92	333	P	33	22.80	3.3X
LPG	17.86	313	eP	33	34.50	2.9X
LPL	17.88	313	eP	33	34.30	2.6X
CLL	18.93	336	eP	33	49.00	4.6X
BSF	19.14	319	eP	33	47.20	0.1
CDF	19.25	321	eP	33	47.00	-1.3
HAU	19.49	319	eP	33	51.40	0.2
SMF	20.19	313	eP	33	57.20	-1.5
	0.7s	3.30nm				3.8mb
LBF	20.27	314	eP	33	57.90	-1.7
	0.9s	4.90nm				3.8mb
LOR	20.49	315	eP	34	00.70	-1.1
	0.9s	5.75nm				3.9mb
AVF	20.55	313	eP	34	01.80	-0.6
SSF	20.59	314	eP	34	01.20	-1.6
	0.7s	3.30nm				3.8mb
BGF	20.75	312	eP	34	05.20	0.7
	0.7s	3.85nm				3.9mb
MEM	21.30	325	P	34	10.30	0.3
LSF	21.44	310	eP	34	12.20	0.7
ENN	21.45	325	eP	34	13.00	1.5
DOU	21.67	322	Pc	34	12.80	-1.0
MFF	22.64	310	eP	34	25.50	2.0
LDF	23.47	314	eP	34	31.80	0.2
	0.7s	4.40nm				4.1mb
FLN	23.76	314	eP	34	34.70	0.3
LPF	23.78	312	eP	34	35.40	0.9
GRR	23.82	313	eP	34	35.40	0.5
EKA	28.57	325	Pc	35	19.30	0.2
	1.0s	3.70nm				4.1mb
MBC	67.19	351	eP	40	16.00	-1.0
YKA	78.02	342	eP	41	20.10	-1.0
	0.6s	1.30nm				4.2mb
FFC	80.19	332	eP	41	33.50	0.5
	0.8s	8.00nm				4.7mb
	S.D. = 1.1	on 40 of 45 obs.				

• MAY 31, 1990 02h 46m 12.76± 2.61s
33.812 S ±13.6km 179.401 W ±20.1km
DEPTH = 75.0 ± 19.4 km
4.8mb (3 obs.)
SOUTH OF KERMADEC ISLANDS (179)

PUZ	4.66	203	eP	47	21.80	-0.4
			eS	48	26.20	
NOZ	5.22	203	eP	47	30.00	0.0
DZM	17.10	310	iPd	50	08.70	0.3
COO	24.47	270	iPc	51	34.40	8.3X
	1.0s	11.00nm				4.2mb
WRA	43.17	277	Pc	54	07.70	-0.1
	0.9s	15.00nm				4.8mb
WB5	43.17	277	eP	54	08.00	0.1
WARB	46.90	264	eP	54	37.50	0.0
SPA	56.37	180	eP	55	49.10	0.8
	1.5s	31.82nm				5.2mb
BCAO	146.34	214	iPKPc	05	46.00	0.2
	1.2s	14.00nm				
SUF	146.90	339	ePKP	05	42.30	-2.8X
	0.7s	12.50nm				
NUR	149.04	337	iPKP	05	47.40	-1.2
	0.9s	25.30nm				
MBH	150.67	272	ePKP	05	55.00	3.0X
DSI	150.72	275	e(PKP)	05	56.00	4.0X
PRNI	150.73	273	ePKP	05	56.00	3.8X
HRI	150.79	279	ePKP	05	57.00	4.7X
APO	151.88	346	ePKP	05	53.30	0.4
	0.4s	1.50nm				
NB2	151.90	349	PKP	05	52.90	-0.1

31d 03h

1.0s 11.30nm
KIC 152.24 169 PKP 06 08.50 13.7X
S.D. = 0.6 on 11 of 18 obs.

---

* MAY 31, 1990 03h 03m 12.21± 0.99s
6.159 S ±13.5km 133.654 E ±11.3km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
AROE ISLANDS REGION (204)

MTN	7.10	200	iPc	04 56.30	-0.1
			eS	06 10.50	
KNA	10.67	206	eP	05 43.00	-2.9X
			eS	07 38.00	
WB5	13.66	177	eP	06 21.80	-4.2X
			eS	08 45.30	
WRA	13.72	177	Pc	06 22.50	-4.3X
	0.2s	3.70nm		4.9mb	
PMG	13.76	104	eP	06 26.50	-0.8
QIS	15.43	159	eP	06 47.00	-2.3
			i	06 54.60	
			eS	09 23.00	
			e	11 30.00	
MBL	20.04	221	eP	07 45.00	-0.5
WARB	21.01	198	iPc	07 56.00	0.5
	0.6s	6.00nm		4.2mb	
KKM	21.21	305	ePc	07 57.00	-0.7
	0.8s	69.80nm		5.1mb	
RMQ	24.82	146	iPc	08 44.30	11.4X
	0.7s	36.00nm			
BWA	31.27	156	eP	09 33.40	2.0
CAN	32.28	156	eP	09 41.20	1.0
DZM	35.40	120	iPc	10 07.70	0.3
LPB	148.83	137	PKP	22 56.00	0.5
ZOBO	149.00	136	PKP	23 02.00	6.0X
CCH	149.51	140	ePKP	23 04.00	7.6X
S.D. = 1.3		on	10 of	16 obs.	

MAY 31, 1990 03h 45m 13.61± 0.58s
39.269 N ± 5.3km 27.766 E ± 6.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.95	205	iPg	45 30.60	-1.2
			iSg	45 44.60	
EDC	1.08	4	iPn	45 34.20	0.3
KCT	1.08	25	iPn	45 34.00	0.1
EZN	1.25	297	iPn	45 37.50	0.8
KHL	1.67	124	ePn	45 44.50	1.4
SMG	1.72	205	ePn	45 44.30	0.6
YLV	1.79	43	iPn	45 44.00	-0.8
ALT	1.83	96	ePn	45 45.30	-0.2
GBZT	1.99	40	eP	45 50.00	2.3
ISK	2.05	28	ePn	45 51.50	3.0X
HRT	2.13	43	ePn	45 48.00	-1.7
YER	2.17	169	ePn	45 56.00	5.7X
GPA	2.21	62	ePn	45 51.00	0.1
RDO	2.54	318	ePn	45 55.50	0.1
			eSn	46 33.50	
DMK	2.55	360	iPn	45 54.50	-1.2
BCK	2.86	128	ePn	45 59.70	-0.5
ELL	3.03	145	eP	46 08.00	5.4X
S.D. = 1.2		on	14 of	17 obs.	

MAY 31, 1990 03h 49m 06.32± 0.77s
39.271 N ± 7.1km 27.802 E ± 7.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.97	206	iPg	49 23.60	-1.2
			eSg	49 37.60	
KCT	1.07	23	iPn	49 27.00	0.6
EDC	1.08	3	iPn	49 27.20	0.6
EZN	1.27	296	iPn	49 30.50	0.6
KHL	1.64	125	ePn	49 37.00	1.6
YLV	1.77	43	iPn	49 36.50	-0.8
ALT	1.81	96	ePn	49 38.30	0.5
HRT	2.11	42	ePn	49 40.00	-2.1
GPA	2.18	61	ePn	49 46.00	2.8X
RDO	2.55	318	ePn	49 48.50	0.1
			eSn	50 27.30	
S.D. = 1.3		on	9 of	10 obs.	

% MAY 31, 1990 03h 58m 16.45± 0.76s
39.242 N ± 6.9km 27.734 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.92	204	iPg	58 33.60	-0.5
			eSg	58 46.60	
EDC	1.11	5	iPn	58 37.20	0.0
EZN	1.24	299	iPn	58 40.00	0.6
CIN	1.66	170	eP	58 45.00	-0.7
KHL	1.67	123	ePn	58 48.00	2.0
YLV	1.83	43	ePn	58 47.50	-0.7
ALT	1.86	95	ePn	58 48.00	-0.7
S.D. = 1.2		on	7 of	7 obs.	

? MAY 31, 1990 04h 46m 35.57± 9.09s
31.233 S ±51.4km 68.262 W ±38.1km
DEPTH = 75.0 ± 52.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.20	242	iPc	46 47.00	0.0
CFA	0.37	177	iPd	46 48.00	0.0
			iS	47 00.00	
ZON	0.47	229	iPd	46 48.80	0.0
			eS	47 01.00	
RTCB	0.52	241	iPd	46 49.50	0.1
			S	47 01.50	
RTCV	0.67	201	ePd	46 50.70	-0.1
RTBS	1.10	247	ePd	46 55.80	-0.1
			S	47 13.80	
MDZ	1.72	197	eP	47 04.20	0.1
			i(S)	47 27.20	
S.D. = 0.1		on	7 of	7 obs.	

MAY 31, 1990 04h 48m 40.67± 0.80s
45.975 N ± 6.5km 26.858 E ± 8.2km
DEPTH = 85.7 ± 13.6 km
3.9mb (5 obs.)
ROMANIA (358)

MLR	0.80	233	iPc	49 00.00	1.8
PSN	2.48	157	iPd	49 22.00	2.2
PVL	2.97	202	iPd	49 28.00	1.6
JMB	3.51	183	iPd	49 34.00	-0.1
PGB	3.93	210	iPd	49 40.00	0.1
DIM	4.04	194	iP	49 42.00	0.6
PLD	4.17	203	iPd	49 42.00	-1.2
DMK	4.20	171	iPn	49 44.00	0.3
VTS	4.28	219	iP	49 44.00	-0.9
KDZ	4.45	194	iPd	49 48.00	0.9
RZN	4.56	201	iPd	49 48.00	-0.8
BEO	4.66	258	ePn	49 49.50	-0.4
MMB	4.94	208	iPc	49 55.00	1.1
CTT	4.96	166	ePn	49 52.00	-2.2X
ISK	5.16	161	ePn	49 56.40	-0.6
HRT	5.54	157	ePn	50 00.00	-2.4
SKO	5.59	226	ePn	50 02.50	-0.5
			eSn	50 59.00	
VAY	5.60	215	iPn	50 02.50	-0.5
EDC	5.67	172	iPn	50 04.10	0.0
YLV	5.71	160	iPn	50 03.90	-0.8
SRO	6.14	291	eP	50 04.60	-5.9X
			e	50 38.50	
OHR	6.56	224	ePn	50 16.00	-0.4
ALT	7.32	160	eP	50 26.80	-0.1
KHL	7.90	165	eP	50 34.00	-0.8
KSP	8.55	309	eP	50 21.00	-22.6X
KHC	9.52	294	eP	51 22.40	25.5X
NUR	14.62	356	eP	52 01.00	-3.1X
			e	52 05.00	
UPP	14.96	342	iP	52 07.70	-0.7
			i	54 45.20	
HFS	16.19	336	eP	52 23.60	-0.4
	0.3s	3.50nm		4.0mb	
SUF	16.78	359	eP	52 30.00	-1.4
NB2	17.65	334	P	52 41.80	-0.3
	0.5s	2.10nm		3.6mb	
EKA	21.06	307	Pd	53 21.70	2.5X
	0.6s	1.80nm		3.6mb	
MBC	56.14	351	eP	58 15.00	2.1
	0.6s	2.00nm		4.3mb	
CHG	64.35	89	eP	59 10.50	1.0
YKA	67.58	342	eP	59 30.20	0.7
	0.7s	1.60nm		4.1mb	
S.D. = 1.1		on	29 of	35 obs.	

MAY 31, 1990 05h 10m 30.54± 0.58s
42.723 N ± 4.9km 12.880 E ±10.5km
DEPTH = 13.4 ± 5.7 km
4.3mb (1 obs.)
CENTRAL ITALY (381)

MNS	0.37	204	Pd	10 38.00	-0.3
			eSg	10 43.90	
ASS	0.38	335	P	10 37.10	-1.5
			eSg	10 43.20	
AQU	0.53	134	Pc	10 39.80	-1.5
			eSg	10 48.10	
ARV	0.78	3	Pc	10 43.60	-1.8
			eSg	10 56.30	
AZI	0.84	151	P	10 47.00	0.6
			eSg	10 58.40	
RMP	0.92	188	P	10 47.50	-0.3
			eSn	11 04.50	
RDP	0.97	187	P	10 49.80	1.1
			eSg	11 04.90	
SDI	1.23	145	P	10 53.20	0.0
			eSn	11 10.20	
RSM	1.24	346	P	10 53.70	0.4
			eSn	11 09.00	
SFI	1.41	328	P	10 55.50	-0.3
			eSn	11 14.50	
PGD	1.43	324	P	10 55.80	-0.4
DUI	1.58	132	P	10 59.00	0.7
TRI	3.05	12	iP	12 02.70	43.5X
			i	12 14.70	
CEY	3.21	20	eP	11 29.00	7.4X
			e(Sn)	12 03.50	
VBY	3.26	31	eP	11 33.50	11.2X
			e(Sn)	12 04.30	
VOY	3.39	12	e(Pn)	11 24.70	0.6
			eSn	12 23.10	
SOTA	4.65	346	iPnd	11 44.70	2.6
			iPg	12 06.90	
			eSn	12 39.50	
			i	12 45.00	
KHC	6.43	4	eP	12 05.50	-1.6
			e	13 19.90	
BCAO	38.46	171	ePd	17 51.00	-2.7
	0.9s	5.00nm		4.3mb	
S.D. = 1.5		on	16 of	19 obs.	

---

* MAY 31, 1990 05h 28m 51.86± 1.27s
21.989 S ±12.4km 68.315 W ±14.8km
DEPTH = 123.7 ± 11.0 km
4.4mb (2 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	2.58	228	iPc	29 33.50	0.1
			i(S)	30 00.30	
CCH	5.02	24	P	30 08.30	1.8
LPB	5.43	2	P	30 10.00	-2.2
ZOBO	5.69	2	P	30 17.00	1.1
ARE	6.26	331	eP	30 23.00	-0.5
			eS	31 26.00	
SIV	9.08	50	P	30 57.80	-3.6X
BAO	20.24	75	e(P)	33 18.50	-1.0
ALO	67.21	327	eP	39 34.00	-1.0
	1.0s	4.25nm		4.3mb	
PRI	76.10	319	e(P)	40 28.10	0.4
ORV	78.82	321	e(P)	40 43.60	1.1
WDC	80.09	321	e(P)	40 49.20	-0.1
YKA	91.83	340	eP	41 46.90	0.5
	0.6s	2.00nm		4.5mb	
S.D. = 1.4		on	11 of	12 obs.	

? MAY 31, 1990 05h 29m 40.69± 7.07s
16.894 N ±31.0km 61.553 W ±30.5km
DEPTH = 121.0 ± 57.4 km
LEEWARD ISLANDS (92)

BPA	0.33	298	ePd	29 58.97	-0.1
			S	30 09.70	
SEG	0.49	175	eP	29 59.32	0.4
			S	30 10.30	
MGH	0.66	255	ePd	29 59.65	-0.4
			S	30 10.80	
SFG	0.72	152	eP	30 00.30	-0.2
			S	30 13.40	
PAG	0.87	188	eP	30 02.10	0.2
			S	30 15.40	
NEV	1.00	284	eP	30 03.39	0.3
			S	30 18.20	
BBL	1.37	177	eP	30 06.90	-0.1
			S	30 24.10	
S.D. = 0.4		on	7 of	7 obs.	

MAY 31, 1990 06h 15m 28.21± 0.26s
44.495 N ± 1.8km 7.092 E ± 2.9km

DEPTH = 9.3 ± 3.0 km
NORTHERN ITALY (545)
ML 2.8 (GEN), 2.9 (LDG).

PZZ	0.01	34	P	15	30.10	0.0
			S	15	32.27	
DOI	0.11	85	Pc	15	31.60	0.5
			eSg	15	33.70	
STV	0.30	146	P	15	34.41	-0.1
			S	15	39.22	
ENR	0.36	139	P	15	35.50	-0.1
			S	15	40.57	
RRL	0.48	333	P	15	37.58	-0.4
			S	15	43.80	
TOUF	0.49	167	Pg	15	38.11	-0.2
			Sg	15	45.45	
AUTN	0.55	154	Pg	15	39.54	0.1
			Sg	15	47.51	
MVIF	0.60	176	Pg	15	40.10	-0.2
AURF	0.63	164	Pg	15	40.64	-0.2
BNI	0.63	332	Pc	15	40.30	-0.6
			eSg	15	48.60	
RSP	0.67	10	P	15	41.48	-0.1
			S	15	50.71	
SBF	0.68	159	Pg	15	41.30	-0.5
			Sg	15	50.60	
CALN	0.76	191	Pg	15	43.05	-0.1
IMI	0.82	135	P	15	44.25	0.1
			S	15	54.88	
FIN	0.85	109	P	15	44.86	0.2
			S	15	55.92	
CKI	0.85	94	P	15	45.00	0.3
			eSg	15	57.00	
LSD	0.96	3	P	15	46.71	-0.1
			S	15	58.69	
FRF	0.99	199	Pg	15	46.70	-0.3
			Sg	15	59.10	
LPG	1.03	347	Pg	15	48.10	0.1
			Sg	16	02.90	
PCP	1.04	87	P	15	48.66	0.7
			S	16	01.34	
LPL	1.05	346	Pg	15	48.30	0.0
			Sg	16	03.30	
LRG	1.17	207	Pg	15	50.90	0.9
			Sg	16	05.80	
LMR	1.23	200	Pn	15	51.10	-0.1
			Pg	15	51.90	
			Sg	16	07.00	
ORX	1.30	29	P	15	51.53	-0.9
			S	16	06.07	
PGF	2.39	144	Pn	16	07.80	-0.4
			Sn	16	36.80	
BGF	3.63	306	Pn	16	27.00	1.3

S.D. = 0.5 on 26 of 26 obs.

? MAY 31, 1990 07h 30m 12.47± 3.46s
1.240 S ±16.6km 78.636 W ±39.9km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

TUNG	0.26	133	iP	30	18.00	-0.1
			S	30	21.60	
VC1	0.64	22	P	30	25.30	-0.4
			S	30	34.20	
GGP	1.06	2	iP+	30	32.90	0.1
			eS	30	45.00	
OUR	1.07	6	eP	30	32.30	-0.5
			S	30	46.60	
CAYA	1.46	26	P	30	40.00	0.6
COTA	1.59	11	eP	30	41.60	0.4

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

MAY 31, 1990 07h 35m 27.01± 0.18s
17.260 N ± 3.4km 100.707 W ± 2.8km
DEPTH = 22.6km (geophysicist)
5.8mb (67 obs.) 5.9Msz (26 obs.)
GUERRERO, MEXICO (59)
Ms 6.0 (BRK), 5.3 (PAS). Felt (IV) ot Mexico City. Also felt ot Acopulco. Oepth from broodbond displocement seismogroms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=135 Dip=40 Slip= 90
NP2: 315 50 90
Principol Axes:
T Plg=85 Azm=225
P 5 45
Comment: The focol mechonism is poorly controlled ond corresponds to reverse foulting. The preferred foult plone is not determined.
MOMENT TENSOR SOLUTION
Dep 18 No. of sto: 13
Moment Tensor; Scole 10**18 Nm
Mrr= 0.86 Mtt=-0.85
Mff=-0.01 Mrt= 0.13
Mrf= 0.55 Mtf= 0.61
Principol axes:
T Vol= 1.20 Plg=58 Azm=292
N -0.02 31 122
P -1.18 4 29
Best Double Couple:Mo=1.2*10**18
NP1:Strike= 90 Dip=49 Slip= 47
NP2: 325 57 128
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 07:35:23.7 0.9
Lat 16.77N 0.08 Lon 100.12W 0.05
Dep 26.0 FIX Half-duration 3.0
Moment Tensor; Scale 10**17 Nm
Mrr= 5.05 0.30 Mtt=-8.47 0.39
Mff= 3.42 0.44 Mrt= 2.78 1.08
Mrf=-0.80 0.71 Mtf= 1.68 0.35
Principol Axes:
T Vol= 5.70 Plg=74 Azm= 53
N 3.58 11 280
P -9.28 11 188
Best Double Couple:Mo=7.5*10**17
NP1:Strike=265 Dip=35 Slip= 71
NP2: 108 57 103

ACX	0.90	115	iP	35	44.91	1.1
			iS	35	56.58	
III	1.62	47	iP	35	57.55	2.9X
			iS	36	20.00	
CRX	2.35	24	iP	36	08.96	3.7X
MRX	2.47	349	iP	36	09.05	2.3
			iS	36	36.34	
UNM	2.52	35	(P)	36	10.00	2.3
			(S)	36	50.00	
IIJ	2.63	20	iP	36	11.53	2.1
IIC	2.85	29	iP	36	11.13	-1.2
IIT	2.88	52	iP	36	12.60	-0.1
SRP	3.23	59	(P)	36	11.50	-5.9X
			(S)	36	43.00	
OXX	3.81	92	iP	36	28.50	2.5
			(S)	37	08.00	
LVVM	4.73	58	eP	36	39.48	0.6
			iS	37	36.00	
AGX	4.83	342	(P)	36	46.00	5.8X
			(S)	37	43.95	
PSM	5.45	95	iP	36	50.25	1.2
			iS	37	52.00	
CR6	7.16	91	iP	37	12.50	-0.8
CR5	7.27	92	iP	37	16.20	1.4
CR3	7.43	92	iP	37	17.90	0.9
SCX	7.74	93	eP	37	23.00	1.8
			iS	38	48.70	
TPX	8.45	105	eP	37	31.33	0.2
			(S)	38	06.44	
MEO	17.55	6	iPd	39	33.30	1.4
UYO	17.74	17	iPd	39	32.40	-1.9
ALQ	18.34	345	iPc+	39	43.00	1.1
	1.7s	2884.61nm			6.2mb	
			iS	43	08.00	
ANMO	18.35	345	iPc	39	43.42	1.5
			eS	43	13.87	
TUL	19.08	12	iPc	39	49.40	-1.3
	1.5s	357.10nm			5.4mb	
LNO	19.09	12	iPc	39	49.40	-1.2
OLY	19.94	23	iP	39	58.60	-1.8
			epP	40	06.00	28kmX
GLA	20.23	324	iP+	40	04.00	0.6
IKP	20.69	321	eP	40	10.40	2.1
PWLA	20.95	30	P	40	08.40	-2.4
BAR	21.06	320	eP	40	12.00	0.0
HAY	21.17	324	eP	40	17.40	4.3X
CPE	21.46	320	eP	40	19.10	3.1X
PLM	21.63	321	iP+	40	18.00	0.0
TPC	21.69	324	iP+	40	19.00	0.6
UPA	22.18	109	iPc+	40	24.00	0.6
	1.2s	281.25nm			5.6mb	
Z	20s	11.35um			5.3Msz	
			i	44	50.80	
PEC	22.19	321	ePc	40	24.00	0.7
			epP	40	32.00	29kmX
			eScP	47	51.50	
CCM	22.32	20	ePc	40	23.74	-0.8
			eS	44	28.11	
RVR	22.38	321	iP+	40	26.00	0.8
FVM	22.53	22	P	40	25.40	-1.3
	1.0s	470.00nm			5.9mb	
GOL	22.72	351	P	40	28.60	-0.3
GLD	22.75	351	ePc	40	28.80	-0.2
	1.8s	974.36nm			6.0mb	
Z	20s	98.00um			6.2Msz	
			epP	40	36.00	26kmX
			e	41	40.70	
MWC	22.95	321	eP	40	31.00	-0.1
PAS	22.97	320	iPc	40	32.09	1.1
			eLg	44	12.00	
			ePcP	44	46.00	
			eS	44	51.52	
			eLR	44	57.00	
			ePcS	48	21.00	
GSC	22.99	325	iP+	40	32.00	0.7
SBB	23.13	322	iP+	40	33.00	0.3
PRM	23.47	41	P	40	35.00	-0.9
TKL	23.72	36	P	40	37.00	-1.2
CLC	23.81	324	eP	40	40.00	0.8
ABL	24.08	320	P	40	43.00	0.9
SGS	24.13	45	P	40	42.60	0.4
ISA	24.19	323	iP+	40	45.00	2.0
JSC	24.30	42	P	40	43.60	-0.3
SYP	24.34	319	eP	40	45.00	0.5
BLP	24.63	318	P	40	47.00	-0.1
BCH	24.84	320	P	40	50.00	0.8
TNP	25.30	328	P	40	54.80	1.1
	1.0s	135.00nm			5.5mb	
PHAM	25.46	320	P	40	55.50	0.5
PRI	25.82	321	ePc	40	59.40	0.9
FRI	25.84	323	iPc	40	58.50	0.0
LLA	26.30	321	iPc	41	03.10	0.2
PRS	26.38	320	ePc	41	04.00	0.5
KVN	26.49	329	P	41	05.40	0.7
NAV	26.59	37	P	41	05.00	-0.5
SAO	26.70	321	eP	41	06.40	-0.1
BLA	26.73	38	P	41	06.00	-0.8
	1.0s	510.00nm			6.1mb	
CMB	26.95	324	iPc	41	08.91	0.1
ARN	27.14	322	P	41	11.00	0.4
MHC	27.20	321	ePc	41	11.90	0.7
GCC	27.21	321	ePc	41	11.50	0.4
BKS	27.91	322	ePc	41	16.00	-1.5
	0.8s	94.00nm			5.6mb	
Z	20s	36.00um			6.0Msz	
N	20s	25.00um				
E	20s	25.00um				
			eS	46	28.00	
			eLR	49	28.00	
BRK	27.92	322	ePc	41	18.00	0.4
Z	20s	33.00um			5.9Msz	
			e	44	30.00	
			eS	46	20.00	
			eLR	49	50.00	
PSO	28.00	122	eP	41	21.00	2.1
ORV	28.64	325	ePc	41	25.00	1.0
BMG	28.81	107	iPd	41	24.50	-1.4
FUO	28.87	111	eP	41	29.00	2.3
BOG	28.96	113	iPc	41	31.00	3.4X
			iS	46	26.00	
CBN	29.21	48	iPd	41	29.00	-0.2
MIN	29.26	326	ePc	41	30.00	0.2
WDC	29.93	325	iPc	41	33.90	-1.7
DLA	30.27	29	P	41	36.40	-2.2
SDV	30.42	102	eP	41	41.00	0.6
LDN	30.59	29	P	41	38.30	-3.1X
SCP	30.63	35	iPc	41	40.23	-1.6
			ipPd	41	47.68	26kmX
ELF	30.65	28	P	41	39.10	-2.8
HRY	30.78	345	ePc	41	42.80	-0.4
FHC	30.87	324	ePc	41	44.80	0.8
WVLY	31.43	32	P	41	46.80	-2.1
LVNJ	32.41	38	P	41	56.80	-0.6
GMTN	32.80	39	iP	41	59.70	-1.1
PNJ	32.84	39	iP	42	00.60	-0.5
TBR	32.94	38	P	42	01.20	-0.8

31d 07h

```
TXNY    32.98  38 iP     42 02.30  -0.1
COR     33.21 330 iPc    42 04.59   0.3
                  e      42 12.54  27kmX
CAR     33.44  97 iP     42 06.00  -0.7
                  eS     48 30.00
LLAV    33.56  97 eP     42 08.00   0.2
OLLA    33.68  98 eP     42 08.50  -0.4
NEW     33.71 340 P      42 07.40  -1.3
SES     34.08 348 ePc    42 11.30  -0.6
        1.2s   131.00nm          5.7mb
                  pP     42 19.00  26kmX
LON     34.20 334 iPc    42 12.38  -0.6
                  epPd   42 20.65  28kmX
GUAN    34.80  97 iPd    42 18.50   0.0
WNY     35.24  34 P      42 20.40  -1.4
GMW     35.24 334 P      42 21.20  -0.6
HRV     35.35  38 iPc    42 22.43  -0.3
                  epPc   42 28.72  21kmX
PNT     35.46 339 eP     42 23.00  -0.7
        1.5s   458.00nm          6.2mb
HBVT    35.65  35 P      42 24.00  -1.3
CUM     36.07  96 iP     42 29.40   0.3
PGC     36.38 334 eP     42 31.00  -0.3
        0.9s   113.00nm          5.8mb
NEV     36.39  84 eP     42 31.00  -0.9
MGH     36.78  85 eP     42 33.00  -2.1
BNH     36.79  36 P      42 34.50  -0.4
BPA     37.08  84 eP     42 34.00  -3.7X
EDM     37.23 347 iPc    42 37.70  -0.8
PAG     37.37  86 eP     42 39.00  -1.2
FFC     37.40 359 iPc    42 38.60  -1.3
        0.7s    51.00nm          5.5mb
NNA     37.42 139 eP     42 42.00   1.5
        1.2s    32.81nm          5.0mb
     Z  20s     2.48um           5.0Msz
BBL     37.63  87 eP     42 40.00  -2.3
SVB     38.22  90 eP     42 45.08  -2.2
TRN     38.65  94 eP     42 51.71   0.8
        1.1s    37.00nm          5.1mb
TPP     38.69  95 eP     42 48.57  -2.6
CBM     39.96  35 ePd    43 00.40  -1.0
                  epP    43 10.00  32kmX
ARE     44.18 138 eP     43 38.00   1.5
SCH     45.62  27 ePc    43 46.90  -0.4
        0.8s   135.00nm          5.9mb
YKA     46.22 351 eP     43 51.00  -0.9
        0.8s   164.00nm          6.0mb
ZOBO    46.27 134 ePc    43 53.07  -0.5
                  epPd   43 58.37  18kmX
                  ePP    45 43.23
SIT     47.42 335 iPc    44 02.30   0.9
CCH     48.41 134 P      44 09.30  -0.7
SIV     51.17 128 iPc    44 28.80  -2.1
HON     53.99 284 P      45 00.00   8.2X
     Z  20s     4.26um           5.5Msz
TOA     54.87 336 iPc    44 58.50   0.6
INK     55.09 346 eP     44 58.30  -1.0
        0.9s   183.00nm          6.1mb
PMR     55.79 334 iPc    45 04.10  -0.3
        1.2s  1171.90nm          6.8mb X
     Z  20s     3.00um           5.4Msz
FBA     57.03 338 iPc    45 12.00  -1.3
RTLL    57.38 147 ePc    45 15.50  -0.7
PEL     57.75 150 eP     45 13.50  -5.2X
LNV     58.08 151 eP     45 20.00  -0.9
FCH     58.09 150 eP     45 21.50   0.1
MDZ     58.43 149 eP     45 22.90  -0.6
TTA     59.27 334 iPc    45 27.60  -1.4
GDH     59.53  18 ePd    45 32.00   1.3
        0.9s   117.65nm          6.0mb
                  i      53 51.00
IMA     59.74 338 iPc    45 30.60  -1.7
        1.2s    31.30nm          5.3mb
MBC     59.80 355 iPc    45 32.50   0.1
        1.0s   346.00nm          6.4mb
BAO     61.40 119 eP     45 43.10  -1.2
ITR     66.75 108 eP     46 19.10  -0.1
                  e      46 25.00  19kmX
                  e      46 39.90
ADK     67.98 320 P      46 25.00  -1.4
        0.9s   125.00nm          6.1mb
ILT     69.62 337 iPc    46 37.00   0.8
                  iS     55 48.00
REY     69.73  27 iP     46 38.00   1.1
DAG     71.47  14 iPc+   46 46.20  -1.1
        1.0s   140.00nm          6.0mb
     Z  18s    16.22um           6.3Msz
```

```
     N  18s     3.71um
     E  18s    13.06um
SMY     73.57 321 P      46 58.00  -2.1
        0.8s    64.37nm          5.7mb
JNW     74.56  20 iP     47 07.00   1.5
VAL     76.89  39 iP     47 19.50   0.5
                  S      52 20.00
KBS     77.40  11 iPc    47 23.00   1.6
DCN     78.36  38 eP     47 27.50   0.4
        0.9s   115.00nm          5.9mb
ETA     79.14  38 eP     47 29.90  -1.5
ECP     79.17  39 eP     47 31.40  -0.1
EAB     79.32  34 iPc    47 32.60   0.3
        1.0s   104.00nm          5.8mb
ELO     79.59  34 iPc    47 34.10   0.3
EBH     79.76  34 iPc    47 35.10   0.4
EAU     79.89  35 ePc    47 35.70   0.3
EDU     79.94  34 iPc    47 36.30   0.7
        1.0s   114.00nm          5.8mb
MBO     80.00  78 iPc    47 39.00   2.3
EDI     80.02  35 eP     47 36.50   0.5
YRH     80.04  38 eP     47 36.00  -0.2
EDR     80.09  33 ePc    47 37.00   0.6
        0.9s   116.00nm          5.9mb
ESK     80.17  35 ePd    47 38.11   1.2
EKA     80.20  35 P      47 37.00   0.0
        1.1s    88.20nm          5.7mb
PET     82.62 323 iPc    47 50.00   0.3
                  eS     58 08.00
BER     82.83  29 iPc    47 52.20   1.5
AVE     83.39  57 iP     47 40.00 -14.2X
                  i      47 54.50  50kmX
LPF     83.63  42 iPc    47 55.90   0.8
        1.0s    96.00nm          5.9mb
GRR     83.63  41 iPc    47 56.10   1.0
        1.0s    70.00nm          5.8mb
TRO     83.64  18 iPd    47 56.50   1.8
FLN     83.75  41 iPc    47 56.70   1.0
        1.3s   126.35nm          6.0mb
RGS     83.96  25 eP     48 01.00   4.6X
LDF     84.03  41 iPc    47 58.20   1.1
        1.1s    97.70nm          5.9mb
TOL     84.08  50 iP+    47 58.50   0.9
                  iPP    51 26.00
                  iS     58 33.00
                  iPS    59 27.00
TIO     84.18  60 iP     47 58.50   0.1
                  i      48 15.90  62kmX
MFF     84.67  43 iPc    48 01.20   0.9
        1.1s    78.15nm          5.9mb
MAL     84.76  53 iPc    48 02.60   1.7
                  iPP    51 36.00
                  iS     58 36.00
AAPN    84.80  53 iPc    48 02.50   1.1
ALOJ    84.88  53 iPc    48 03.00   1.2
ATEJ    85.00  53 iPc    48 03.50   1.1
ASMO    85.07  53 iPc    48 03.50   0.8
ACHM    85.09  53 iPc    48 04.60   1.9
KONO    85.09  29 iPc    48 02.28   0.2
                  ePP    51 17.84
IFR     85.16  57 iP     48 04.00   0.7
NB2     85.18  27 P      48 03.20   0.5
        0.9s    43.00nm          5.7mb
TIK     85.22 346 eP     48 02.00  -0.6
APHE    85.24  53 iPc    48 04.80   1.2
KEV     85.81  16 iP     48 04.80  -0.8
        0.8s    26.40nm          5.5mb
     Z  18s     5.80um           6.0Msz
                  e      51 24.00
                  e      58 48.00
                  e      59 44.00
                  LR     28 32.00
LFF     85.82  44 iPc    48 07.00   0.9
LSF     85.88  43 iPc    48 06.60   0.2
DBN     85.94  36 iP+    48 08.00   1.5
     Z  18s     3.00um           5.7Msz
                  ePP    51 28.00
                  eS     58 56.00
                  eSS    04 08.00
UCC     85.97  38 iP+    48 07.00   0.3
                  e      48 40.00 128kmX
SNF     86.03  38 P      48 07.30   0.3
EPF     86.20  46 iPc    48 08.80   0.7
        1.0s    93.75nm          6.0mb
LPO     86.21  44 iPc    48 08.80   0.8
        1.1s    78.15nm          5.8mb
RJF     86.21  44 iPc    48 08.60   0.5
```

```
        1.0s   106.00nm          6.0mb
TCF     86.31  43 iPc    48 08.80   0.2
        1.1s    94.00nm          5.9mb
DOU     86.38  38 iPc+   48 10.00   1.2
                  e      51 30.00
                  SKS    58 33.00
WIT     86.49  35 eP     48 10.50   1.3
                  e      48 42.00 122kmX
MAF     86.57  43 iPc    48 10.10   0.3
BGF     86.62  42 iPc    48 10.20   0.1
HFS     86.69  27 eP     48 09.70  -0.4
        1.0s    17.70nm          5.2mb
CAF     86.70  44 iPc    48 11.00   0.5
        1.0s    31.00nm          5.5mb
SSF     86.86  42 iPc    48 11.10  -0.1
AVF     86.86  42 iPc    48 10.80  -0.4
        0.9s    41.75nm          5.7mb
ENN     86.90  38 ePc    48 11.50   0.2
        0.9s   120.00nm          6.1mb
                  e      51 33.00
WTS     86.91  36 ePc    48 11.50   0.2
        0.9s    52.00nm          5.8mb
LOR     87.00  41 iPc    48 12.00   0.1
        0.9s   102.35nm          6.1mb
MEM     87.01  38 P      48 12.20   0.4
                  e      51 33.60
LBF     87.19  42 iPc    48 12.70  -0.1
        0.9s    55.70nm          5.8mb
SMF     87.23  42 iPc    48 12.60  -0.4
        1.0s    34.00nm          5.6mb
SOD     87.27  18 iP     48 12.00  -0.8
COP     88.26  31 iP+    48 19.00   1.3
     Z  19s     4.17um           5.9Msz
                  iS     51 30.00
HAU     88.26  40 iPc    48 17.80  -0.2
        0.9s    32.75nm          5.7mb
UPP     88.53  26 iP     48 17.00  -1.9
                  iPP    51 46.10
                  iSKS   58 50.00
                  iS     59 00.00
TNS     88.59  37 ePc    48 19.60   0.1
BSF     88.61  40 iPc    48 19.30  -0.4
        1.0s    22.00nm          5.4mb
CDF     88.66  39 iPc    48 19.50  -0.5
        1.0s    16.00nm          5.3mb
EMS     89.42  42 ePc    48 24.10   0.4
LPL     89.52  42 iPc    48 24.80   0.5
LPG     89.54  42 iPc    48 25.00   0.5
        1.3s    28.90nm          5.4mb
BNI     89.68  43 P      48 25.00   0.1
SLE     89.68  40 ePc    48 24.50  -0.2
DIX     89.72  41 ePc    48 25.50   0.3
ZLA     89.73  40 ePc    48 24.90  -0.1
MMK     90.08  41 ePc    48 27.80   0.9
LRG     90.12  44 eP     48 26.80   0.0
        1.0s    20.00nm          5.3mb
SUF     90.14  22 iP     48 26.00  -0.5
        0.8s    34.00nm          5.6mb
MOX     90.21  36 eP+    48 27.00  -0.1
        2.4s   160.00nm          5.8mb
     Z  17s     4.70um           6.0MszX
BRN     90.23  34 eP     48 28.00   0.9
FRF     90.27  44 eP     48 27.40  -0.1
LMR     90.27  44 iPc    48 27.40  -0.1
        0.9s    18.00nm          5.3mb
DOI     90.27  43 P      48 27.50  -0.1
LLS     90.37  40 ePc    48 28.50   0.3
SAX     90.42  40 ePc    48 28.70   0.2
GRF     90.43  37 iPc    48 28.90   0.8
        0.9s    39.00nm          5.7mb
     Z  21s     3.20um           5.7Msz
                  e      48 36.40  23kmX
HOF     90.51  36 iPc    48 28.80   0.3
TMA     90.63  41 ePc    48 29.50   0.2
SBF     90.66  43 eP     48 28.90  -0.5
        1.0s    24.00nm          5.4mb
CLL     90.67  35 iPc    48 29.00  -0.1
        2.2s    89.00nm          5.7mb
     Z  18s     4.50um           5.9Msz
                  ePP    52 03.00
VAI     90.67  41 P      48 29.20   0.0
VDL     90.83  40 ePc    48 31.00   0.7
CKI     90.98  43 P      48 30.50  -0.2
NUR     90.99  24 iP     48 30.00  -0.5
        0.9s    60.80nm          5.9mb
     Z  18s     3.80um           5.9Msz
                  e      52 06.00
```

			e	59	04.00		
			e	00	44.00		
			LR	28	02.00		
OSS		91.16	40 eP	48	32.20	0.4	
FUR		91.17	38 eP	48	32.00	0.4	
	Z	20s	3.00um			5.7Msz	
MDI		91.30	41 P	48	31.00	-1.1	
BRG		91.40	35 iPc	48	32.70	0.2	
		2.0s	85.00nm			5.8mb	
	Z	18s	5.00um			6.0Msz	
	N	18s	2.00um				
	E	18s	3.50um				
			i	48	41.30	27kmX	
			eS	59	17.00		
SQTA		91.57	39 iPc	48	33.50	-0.1	
		1.4s	54.20nm			5.7mb	
BOB		91.58	42 P	48	38.00	4.4X	
OGA		91.62	40 iPc	48	34.50	0.6	
WET		91.64	37 iPc	48	34.20	0.5	
	Z	17s	4.00um			5.9MszX	
LKO		92.03	79 Pc	48	35.58	-0.5	
		1.1s	37.00nm			5.7mb	
KHC		92.05	37 iP	48	36.00	0.4	
	Z	17s	4.10um			5.9MszX	
	N	17s	1.50um				
	E	17s	1.30um				
			e	49	07.30	120kmX	
			i	52	15.90		
			S	59	14.00		
PRU		92.17	36 Pc	48	36.00	-0.1	
		2.2s	97.10nm			5.8mb	
	Z	18s	4.00um			5.9Msz	
	N	18s	0.80um				
	E	18s	2.90um				
			e	48	42.00	19kmX	
			PP	52	17.50		
			S	59	13.00		
PGF		92.26	44 eP	48	36.30	-0.5	
		1.0s	14.00nm			5.3mb	
CTI		92.38	40 P	48	37.00	-0.3	
BDI		92.63	42 P	48	37.00	-1.5	
KSP		92.69	34 ePc	48	37.50	-1.0	
			e	52	19.50		
FVI		92.81	39 P	48	39.00	-0.1	
KMR		92.90	38 iP+	48	39.40	-0.1	
			iPP	52	21.00		
TIC		93.45	82 Pd	48	43.00	0.4	
SFI		93.50	42 P	48	43.00	0.7	
LIC		93.57	82 Pd	48	43.60	0.5	
CRE		93.70	42 P	48	43.00	-0.4	
VOY		93.76	39 eP	48	43.40	-0.2	
			ePP	51	26.50		
KIC		93.80	82 Pd	48	44.60	0.4	
		1.0s	41.00nm			5.8mb	
TRI		93.84	40 iPc	48	44.00	0.2	
			iPP	52	29.00		
			iSKKS	59	35.00		
			iSP	00	58.00		
RSM		93.88	42 P	48	45.30	1.3	
VKA		94.06	37 iPc	48	44.90	0.1	
		3.5s	705.00nm			6.5mb X	
	Z	18s	2.00um			5.6Msz	
			e	49	18.00	127kmX	
			i	52	31.50		
			LR	33	00.00		
LJU		94.14	39 eP	48	45.00	-0.3	
			ePP	52	31.00		
CEY		94.23	39 ePc	48	45.90	0.2	
			ePP	52	32.50		
ARV		94.40	42 P	48	42.00	-4.5X	
ASS		94.42	42 P	48	41.50	-5.2X	
ZST		94.54	36 iP	48	48.00	1.0	
			i	52	33.00		
MNS		94.76	43 P	48	47.50	-0.7	
PTJ		95.07	39 eP	48	45.40	-4.3X	
KRA		95.08	34 eP	48	49.10	-0.4	
		1.0s	74.00nm			6.1mb	
	E	20s	4.00um				
			e	48	57.10	25kmX	
			e	52	37.90		
ZAG		95.13	39 iPc	48	50.00	0.2	
			i	52	39.00		
SRO		95.43	36 eP	48	52.70	1.6	
			ePP	52	37.60		
AZI		95.44	43 P	48	52.00	0.7	
SDI		95.83	43 P	48	43.00	-10.2X	
UZH		97.16	34 iP	49	00.00	1.0	
OBN		99.34	23 iPc	49	08.00	-0.7	
	Z	22s	7.70um			6.2Msz	
			eSKS	59	56.00		
CMP		100.68	36 ePdiff	49	14.00	-0.9	
MAT		102.86	315 ePdiff	49	23.00	-1.8	
		1.0s	9.00nm			5.4mb	
	Z	20s	1.42um			5.5Msz	
			eS	01	14.00		
MDJ		103.27	326 Pdiffc	49	25.00	-1.4	
	N	14s	6.00um				
			ePP	53	40.00		
			SKS	00	02.00		
			S	01	04.00		
CN2		106.01	327 Pdiff	49	36.00	-2.6X	
	Z	18s	8.10um			6.3Msz	
	N	17s	4.30um				
	E	17s	1.10um				
			PP	53	58.00		
			SS	09	06.00		
SNY		108.38	327 Pdiffc	49	51.00	1.8	
	Z	17s	8.00um			6.4MszX	
	N	16s	4.00um				
	E	14s	2.10um				
			PP	54	17.00		
DL2		111.51	326 ePKP	54	00.00	-1.4	
	Z	16s	2.60um			5.9MszX	
	N	15s	2.70um				
	E	14s	2.70um				
BJI		113.44	330 Pdiff	50	12.00	0.3	
	Z	15s	6.10um			6.3MszX	
	N	16s	3.62um				
			PP	54	56.00		
HHC		114.88	333 ePKP	54	05.80	-2.3X	
BTO		115.74	334 ePKP	54	11.00	1.3	
	N	15s	4.00um				
	E	15s	2.50um				
TIA		115.91	327 ePKP	54	10.00	0.0	
	Z	12s	4.60um			6.3MszX	
	N	15s	2.50um				
	E	15s	1.70um				
BCAO		116.28	76 iPKPc	54	10.50	-0.9	
		1.0s	8.00nm				
TIY		117.06	331 ePKP	54	11.80	-0.4	
	Z	16s	12.90um			6.6MszX	
	N	16s	7.70um				
			PP	55	21.00		
WMQ		118.73	353 PKP	54	14.30	-0.9	
	Z	22s	16.40um			6.6Msz	
			PP	55	30.50		
			SS	11	48.00		
GTA		120.45	342 PKP	54	18.00	-0.7	
	Z	18s	7.70um			6.4Msz	
	N	15s	3.70um				
			PP	55	44.00		
			SS	12	08.00		
TEH		121.03	26 iPKPc	54	34.10	14.2X	
XAN		121.70	331 PKP	54	18.00	-3.1X	
	N	14s	5.50um				
	E	15s	2.40um				
WHN		121.72	324 PKP	54	19.00	-2.2X	
	Z	20s	2.50um			5.9Msz	
	N	16s	3.78um				
	E	14s	1.58um				
LZH		122.08	337 PKPc	54	21.50	-0.5	
			PP	55	58.00		
KSH		123.50	3 ePKP	54	22.00	-2.5X	
	Z	18s	6.80um			6.3Msz	
	E	15s	5.60um				
			eSKS	01	24.00		
MAIO		123.54	19 ePKP	54	24.00	-0.7	
			i	56	04.00		
POF		124.69	114 iPKPd	54	27.00	0.1	
		0.7s	10.27nm				
CD2		126.64	334 ePKP	54	30.30	-0.5	
	Z	17s	2.80um			6.0MszX	
	N	15s	3.20um				
			PP	56	24.60		
WB5		127.92	258 ePKP	54	32.00	-1.5	
WRA		127.95	258 PKPc	54	32.20	-1.3	
		0.7s	19.80nm				
MAW		128.58	172 iPdiff	51	33.00	14.6X	
GYA		129.05	328 PKP	54	36.00	0.4	
	N	18s	4.80um				
	E	18s	2.50um				
FRS		129.37	115 iPKPc	54	35.00	-0.9	
		0.4s	13.56nm				
MTN		129.86	268 ePKP	54	36.20	-1.1	
		0.6s	16.00nm				
			e	56	05.40		
BLF		130.14	114 ePKP	54	38.00	0.3	
KSR		130.79	109 ePKP	54	37.00	-2.0	
QUE		131.35	14 ePKP	54	40.00	0.0	
			eS	58	08.60		
KMI		132.08	331 PKPc	54	40.50	-1.0	
	Z	18s	4.90um			6.3Msz	
			PP	57	02.00		
			PKS	58	08.00		
QIZ		133.07	319 PKP	54	43.00	-0.3	
	N	17s	3.00um				
	E	16s	2.90um				
			PP	57	04.00		
NDI		134.28	3 ePKP	54	44.00	-1.3	
			ePP	57	16.00		
			ePKS	58	16.00		
			ePPP	00	12.00		
			ePPS	09	18.00		
NAI		135.31	74 iPKPd	54	50.00	2.0X	
		1.0s	15.00nm				
LOE		139.08	326 ePKP	54	54.00	-0.6	
CHG		139.28	331 ePKP	54	50.30	-4.7X	
CHTO		139.28	331 ePKP	54	50.10	-4.8X	
		1.2s	12.15nm				
CRZF		143.09	148 ePKP	54	50.00	-10.9X	
			ePP	58	10.00		
			ePP	00	20.00		
			eSKS	05	30.00		
			eSP	10	05.00		
			eSSS	21	44.00		
POO		144.03	9 iPKPd	54	59.00	-4.3X	
NNT		144.12	324 iPKPd	55	01.20	-2.3X	
HYB		145.53	1 iPKPc	55	04.00	-1.9	
		1.0s	390.00nm				
TRT		146.14	282 ePKPc	55	03.70	-3.3X	
		0.7s	67.30nm				
SNG		147.85	317 ePKP	55	09.70	0.0	
IPM		149.48	313 ePKPd	55	17.90	5.6X	
		1.0s	45.00nm				
KGM		149.53	307 ePKPc	55	17.20	4.8X	
PSI		152.28	314 ePKPd	55	16.00	-0.5	
BSI		152.41	324 ePKPc	55	22.00	5.3X	
KOD		152.62	4 ePKP	55	23.50	6.2X	
		S.D. = 1.0	on 297 of 333 obs.				

? MAY 31, 1990 09h 46m 38.44± 6.21s
43.991 N ±35.6km 6.454 E ±33.1km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.3 (LDG).

FRF		0.45	162 Pg	46	47.60	0.0	
			Sg	46	56.50		
LRG		0.54	187 Pg	46	49.00	-0.4	
			Sg	46	58.10		
LMR		0.66	176 Pg	46	52.00	0.5	
			Sg	47	03.00		
SBF		0.72	100 Pg	46	52.60	-0.1	
			Sg	47	03.40		
		S.D. = 0.6	on 4 of 4 obs.				

% MAY 31, 1990 10h 43m 36.28± 0.84s
42.734 N ± 6.4km 13.137 E ± 9.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU		0.43	153 P	43	44.60	-0.4	
			eSg	43	50.50		
ASS		0.49	314 P	43	45.70	-0.4	
			eSg	43	53.80		
MNS		0.49	224 Pc	43	46.40	0.2	
			eSg	43	53.00		
ARV		0.78	349 P	43	51.80	0.4	
			eSg	44	04.00		
SDI		1.14	154 P	43	58.00	0.3	
			eSg	44	12.00		
		S.D. = 0.6	on 5 of 5 obs.				

% MAY 31, 1990 12h 45m 45.45± 0.83s
40.029 N ±11.7km 27.468 E ± 9.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC		0.44	44 iPg	45	54.80	0.4	
			eSg	46	01.80		
KCT		0.72	72 iPg	45	58.90	-0.7	

31d 12h

EZN	0.90	257	ePg	46 02.50	-0.2
YLV	1.55	69	iPn	46 13.40	0.2
IZM	1.64	186	ePn	46 14.70	0.3
S.D. = 0.6 on 5 of 5 obs.					

MAY 31, 1990 15h 29m 26.83± 0.67s
44.456 N ± 6.4km 20.868 E ± 7.0km
DEPTH = 10.6 ± 5.0 km
YUGOSLAVIA (383)
ML 3.0 (TTG).

BEO	0.47	321	iPg	29 36.80	0.4
			iSg	29 43.50	
BZS	1.28	24	ePc	29 51.00	0.6
PLE	1.55	224	ePg	29 53.40	-1.1
			eSg	30 12.00	
GZR	1.65	55	ePd	30 02.00	6.1X
IVA	1.73	204	ePg	29 58.00	0.8
			eSg	30 20.00	
PVY	1.97	200	ePn	30 03.00	2.4
			eSn	30 27.00	
NKY	2.13	220	ePn	30 03.80	0.9
			eSn	30 30.00	
BRY	2.29	228	ePn	30 05.00	-0.3
			eSn	30 32.00	
TTG	2.34	211	ePn	30 06.40	0.6
			eSn	30 34.50	
DRA	2.43	84	eP	30 22.00	14.9X
SKO	2.52	170	ePn	30 12.00	3.6X
			i	30 15.50	
			i	30 46.00	
VTS	2.52	137	iP	30 08.00	-0.6
PGB	3.06	127	iPd	30 17.00	0.9
CMP	3.07	73	ePc	30 10.00	-6.3X
OHR	3.34	181	iPn	30 19.00	-1.2
VAY	3.37	158	ePn	30 28.70	8.2X
PVL	3.46	109	eP	30 30.00	8.3X
PLD	3.66	129	eP	30 37.00	12.5X
PTJ	3.76	294	eP	30 24.80	-1.3
RZN	3.95	133	eP	30 28.00	-0.9
KDZ	4.36	129	eP	30 49.00	14.5X
S.D. = 1.2 on 13 of 21 obs.					

* MAY 31, 1990 15h 54m 26.79± 1.86s
46.258 N ± 8.4km 16.041 E ±16.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (LJU).

PTJ	0.36	189	ePg	54 34.20	-0.1
			eSg	54 39.60	
LJU	1.07	259	ePg	54 46.40	-0.5
			eSg	55 02.00	
CEY	1.24	246	ePg	54 50.40	0.5
			eSg	55 07.00	
VOY	1.51	262	ePn	54 54.00	0.0
			eSn	55 17.50	
KHC	3.32	331	eP	55 19.90	0.0
			e	56 04.80	
S.D. = 0.5 on 5 of 5 obs.					

& MAY 31, 1990 17h 34m 41.46s
63.349 N 151.342 W
DEPTH = 8.4km
CENTRAL ALASKA (1)
<AGS-P>.

KTH	0.28	42	iP	34 46.95	-0.3
			eS	34 51.83	
CUT	1.07	152	iP	35 01.69	0.0
RND	1.12	86	eP	35 02.11	-0.6
			eS	35 17.52	
MCK	1.14	69	eP	35 02.59	-0.5
SKT	1.38	184	iP	35 06.76	-0.1
WRH	1.83	50	eP	35 14.24	0.9
NCG	1.99	191	eP	35 15.19	-0.6
FBA	2.20	43	eP	35 21.81	3.0
HDA	2.21	59	eP	35 21.71	2.8
9 obs. associated					

& MAY 31, 1990 17h 39m 19.60s
34.430 N 116.970 W
DEPTH = 4.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.4 (PAS).

RVR	0.55	218	iPc	39 30.10	-0.5
PEC	0.56	196	iPc	39 30.40	-0.4
SBB	0.75	290	iPd	39 33.80	-0.8
PCF	0.78	241	iP	39 34.33	-0.8
			S	39 45.41	
PEM	0.79	251	iPc	39 34.54	-0.8
TPC	0.83	113	iPd	39 35.30	-0.8
GSC	0.88	9	iPc	39 36.40	-0.7
VPD	0.90	227	iP	39 36.69	-0.7
			S	39 49.46	
MWC	0.92	257	iPc	39 37.10	-0.8
PAS	1.03	255	iPc	39 38.90	-0.8
PLM	1.08	175	iPd	39 39.70	-0.9
SCY	1.27	256	eP	39 42.86	-0.9
			S	40 00.33	
PVPS	1.35	242	eP	39 44.28	-0.8
			S	40 02.46	
CLC	1.48	340	iPd	39 46.00	-1.0
CIS	1.57	230	eP	39 47.75	-0.6
ABL	1.90	283	eP	39 51.60	-1.7
GLA	2.25	127	eP	39 56.40	-1.9
BCH	2.67	287	eP	40 02.90	-1.4
TNP	3.65	357	e(P)	40 20.00	1.7
CMB	4.53	323	eP	40 30.00	-0.6
KVN	4.70	349	eP	40 33.00	-0.2
MSU	5.62	42	eP	40 45.20	-1.0
22 obs. associated					

& MAY 31, 1990 22h 00m 26.11s
60.395 N 152.391 W
DEPTH = 100.3km
SOUTHERN ALASKA (2)
<AGS-P>.

RED	0.19	277	iP	00 39.83	0.8
NNL	0.65	122	iP	00 43.97	0.6
NKA	0.67	58	iP	00 44.74	1.3
SPU	0.81	12	iP	00 43.91	-1.0
			eS	00 58.27	
CRP	0.88	7	iP	00 44.92	-0.9
			eS	01 00.68	
CGLM	0.94	11	iP	00 45.27	-1.0
			eS	01 01.26	
NCG	1.02	6	iP	00 46.11	-1.1
SLKM	1.08	83	iP	00 47.07	-0.7
AUL	1.14	208	eP	00 47.65	-0.8
AUE	1.15	206	iP	00 47.52	-1.0
SUA	1.34	36	iP	00 50.33	-0.6
			eS	01 09.87	
SEW	1.50	100	eP	00 51.25	-1.4
			eS	01 11.84	
CDD	1.60	204	eP	00 52.71	-1.4
PMS	1.63	57	iP	00 53.67	-0.8
			eS	01 15.12	
SKT	1.64	14	iP	00 53.10	-1.5
PWA	1.76	43	eP	00 55.65	-0.3
GHO	2.18	49	iP	00 59.84	-1.8
CUT	2.26	26	eP	01 01.11	-1.5
SML	2.43	53	iP	01 02.79	-2.1
GLI	2.65	77	eP	01 06.05	-1.9
VZW	2.94	74	eP	01 08.73	-3.2
KLU	3.34	68	eP	01 14.67	-2.7
22 obs. associated					

? MAY 31, 1990 22h 04m 24.07± 2.36s
24.182 N ±28.1km 125.913 E ±20.2km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	3.73	277	eP	05 20.60	-0.1
			eS	06 05.30	
TWD	3.95	269	eP	05 23.80	0.0
TWZ	4.05	284	eP	05 25.40	0.1
TWF1	4.31	260	ePc	05 29.00	0.0
TWG	4.65	254	iPc	05 33.80	0.0
NB2	80.21	333	P	16 32.50	0.0
	0.7s		1.00nm	3.9mb	
S.D. = 0.1 on 6 of 6 obs.					

* MAY 31, 1990 23h 02m 54.64± 0.63s
33.517 S ±11.5km 178.254 W ±11.7km
DEPTH = 33.0km (normal)
5.0mb (4 obs.)
SOUTH OF KERMADEC ISLANDS (179)

PUZ	5.36	211	eP	04 13.50	-0.9
			eS	05 18.60	
NOZ	5.91	209	P	04 23.20	1.0
DZM	17.68	306	iPc	07 00.60	0.6
RMO	29.33	275	iPc	08 58.00	1.4
	1.0s		47.00nm	5.2mb	
CTA	34.21	284	iPc	09 39.00	-0.4
	0.8s		20.15nm	5.1mb	
WRA	44.09	275	Pc	11 00.60	-0.9
	0.3s		5.30nm	4.8mb	
WB5	44.09	276	eP	11 00.20	-1.4
WARB	47.88	263	eP	11 42.50	10.9X
FRI	88.87	43	e(P)	15 47.50	0.9
CMB	89.22	42	eP	15 49.20	0.8
WDC	89.87	39	e(P)	15 48.90	-2.4
TNP	91.05	44	eP	15 58.00	0.9
	0.9s		2.93nm	4.6mb	
KVN	91.21	42	eP	15 57.00	-0.8
AKU	145.65	14	ePKP	22 30.00	-0.2
	0.9s		13.45nm		
SUF	146.96	340	iPKP	22 33.60	1.1
	0.5s		11.80nm		
NUR	149.13	338	iPKP	22 39.00	3.0X
	1.0s		34.00nm		
UPP	151.64	343	iPKP	22 52.30	12.6X
DSI	151.65	275	ePKP	22 49.00	8.3X
PRNI	151.67	273	ePKP	22 48.00	7.2X
HRI	151.69	279	e(PKP)	22 50.00	9.1X
NB2	151.78	350	PKP	22 45.80	5.8X
	1.0s		13.00nm		
HFS	152.24	347	ePKP	22 45.70	5.1X
	0.6s		4.20nm		
S.D. = 1.2 on 14 of 22 obs.					

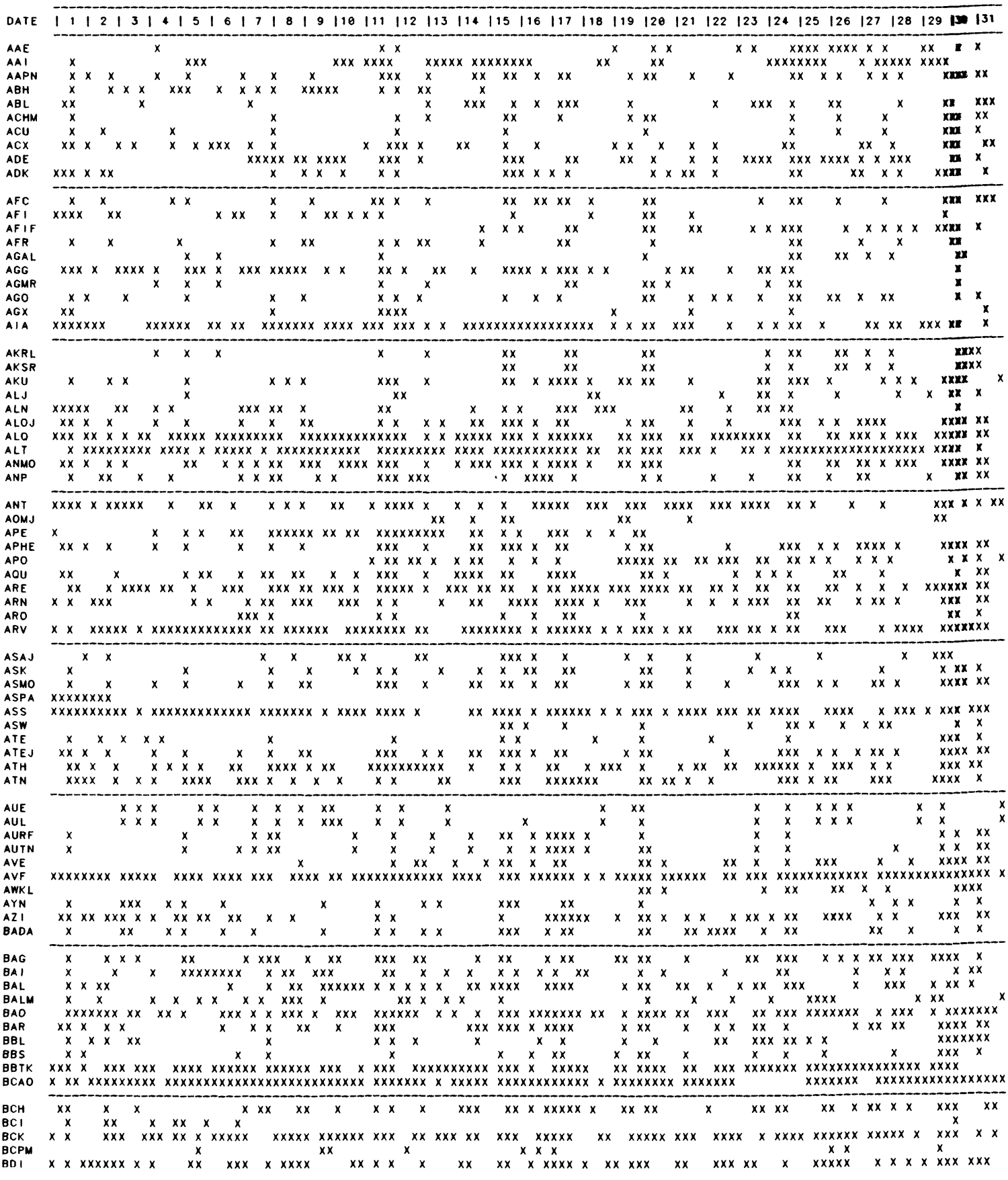
& MAY 31, 1990 23h 07m 36.55s
60.969 N 146.619 W
DEPTH = 18.9km
SOUTHERN ALASKA (2)
<AGS-P>.

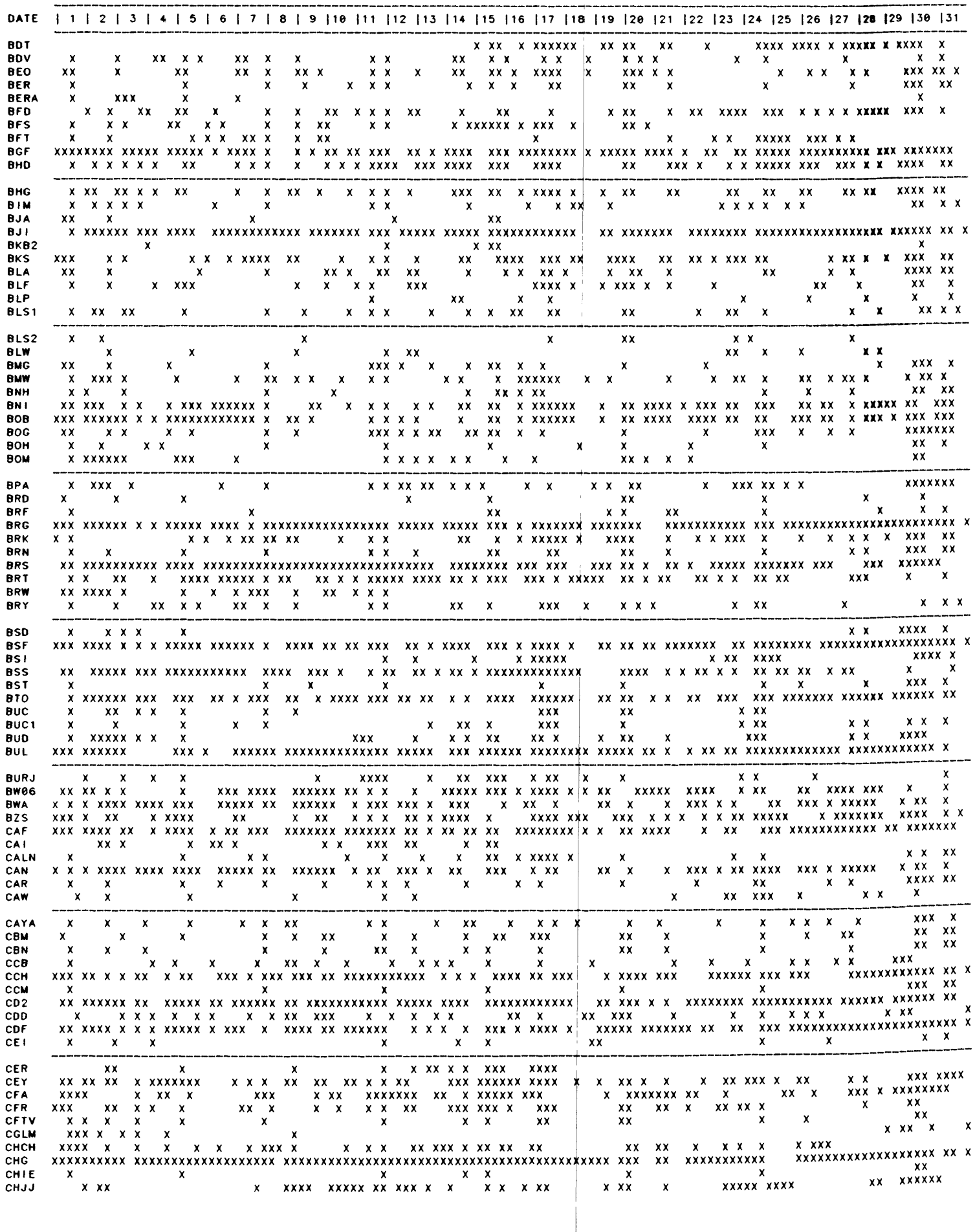
KLU	0.63	32	iP	07 47.95	-0.8
			iS	07 56.63	
NCA	1.03	355	eP	07 54.15	-1.5
TOA	1.16	10	eP	07 56.00	-1.8
SML	1.18	316	iP	07 56.06	-2.0
			iS	08 11.85	
PLRM	1.36	298	eP	07 59.58	-1.0
			eS	08 15.28	
GHO	1.37	307	eP	07 58.99	-1.8
PMS	1.46	282	eP	08 00.44	-1.5
			eS	08 19.67	
SEW	1.65	239	iP	08 02.64	-2.0
			eS	08 22.70	
PWA	1.72	295	eP	08 04.68	-1.0
SLKM	1.83	257	eP	08 05.66	-1.7
			eS	08 28.71	
TGL	1.87	95	eP	08 07.72	-0.3
			eS	08 32.36	
SUA	2.06	286	eP	08 09.30	-1.5
BALM	2.08	86	eP	08 10.20	-0.9
			eS	08 37.74	
CUT	2.26	311	eP	08 12.04	-1.5
NNL	2.49	250	eP	08 15.44	-1.4
SKT	2.57	295	eP	08 16.05	-1.9
SPU	2.65	277	eP	08 17.27	-1.9
NCG	2.72	282	eP	08 18.28	-1.9
RDT	2.87	265	eP	08 19.74	-2.5
RED	3.08	262	eP	08 22.47	-2.7
20 obs. associated					

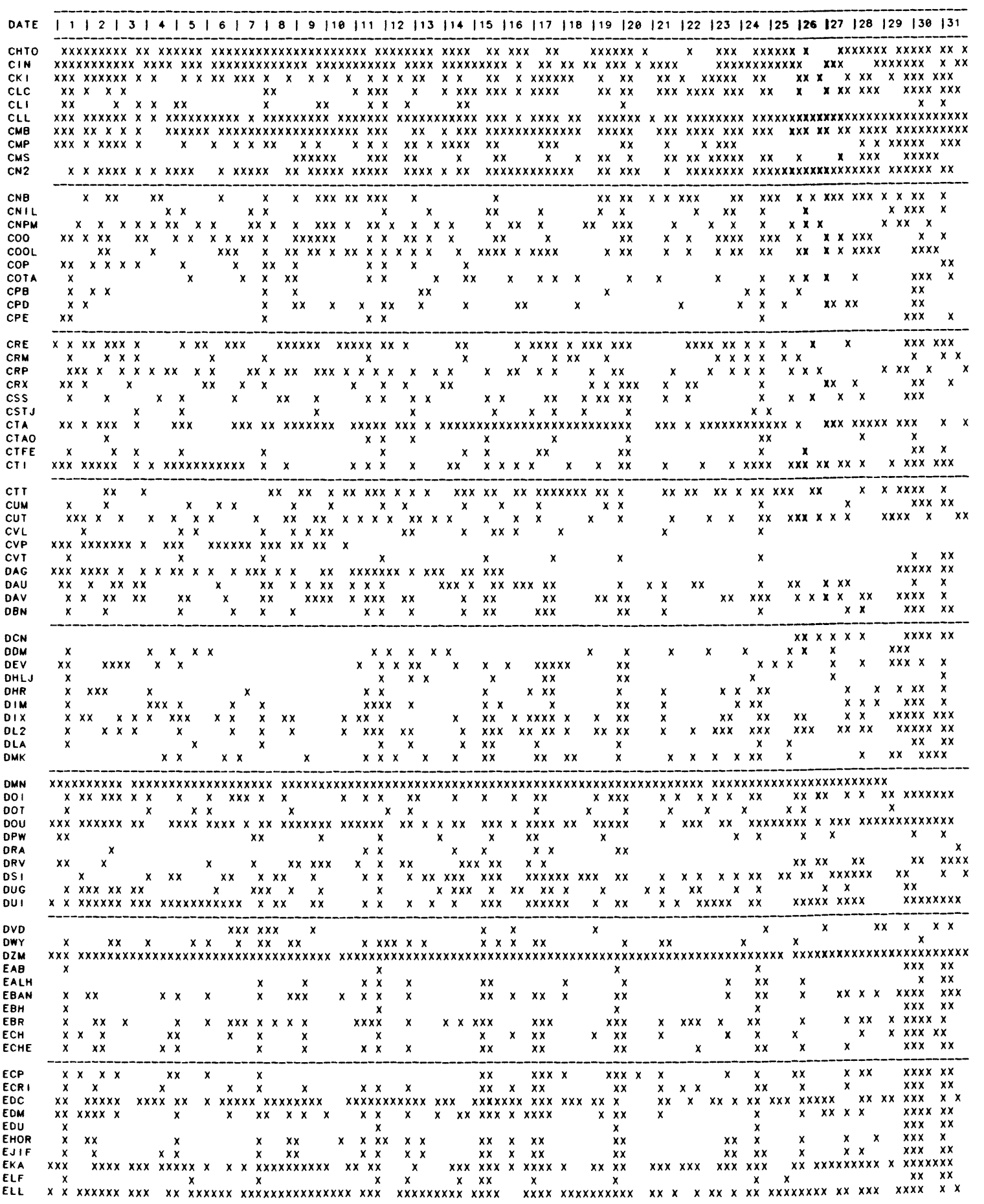
STATION DATA REPORT FOR MAY, 1990

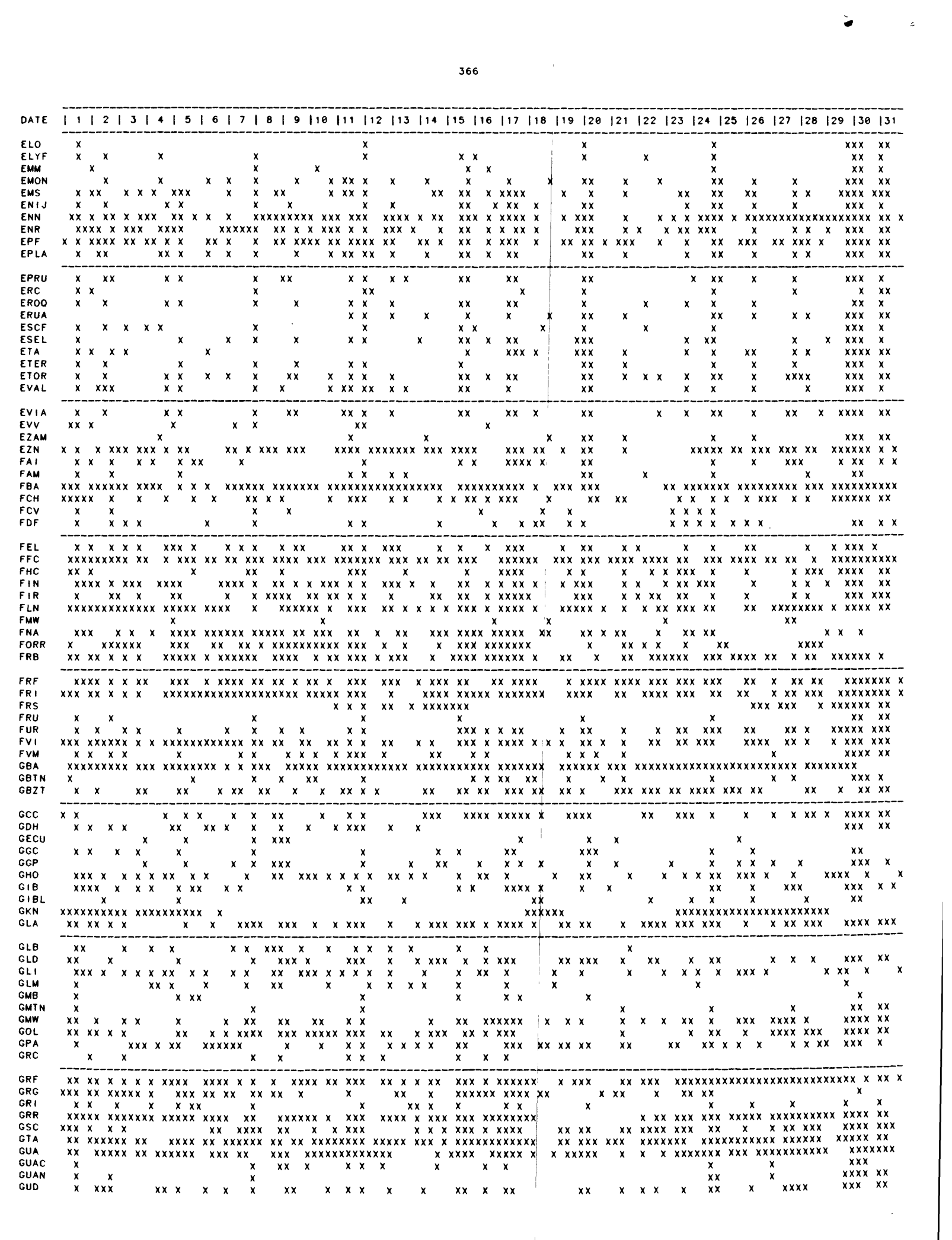
1380 stations reported 74033 reading arrival groups

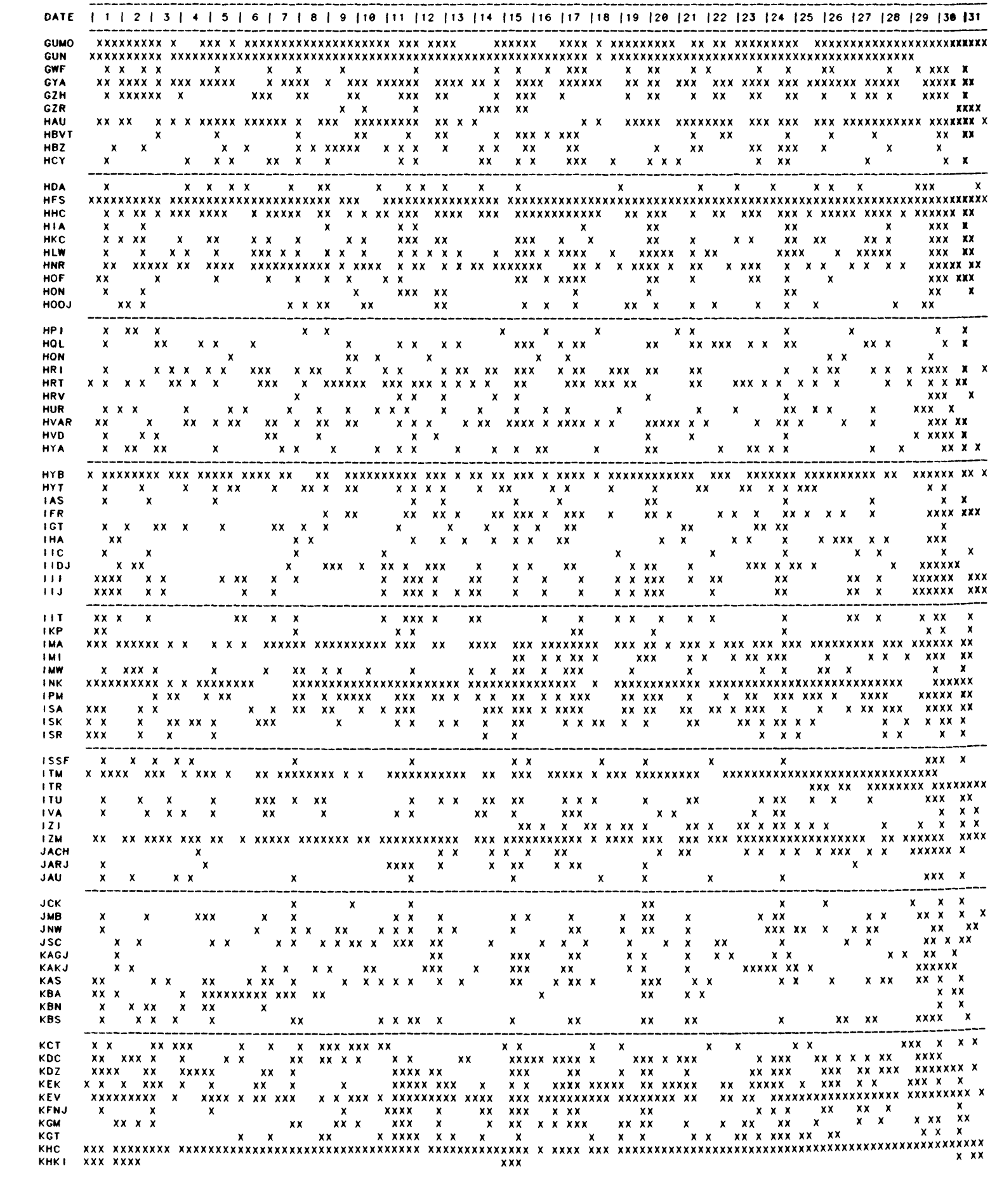
X = data received for this 6-hour time period

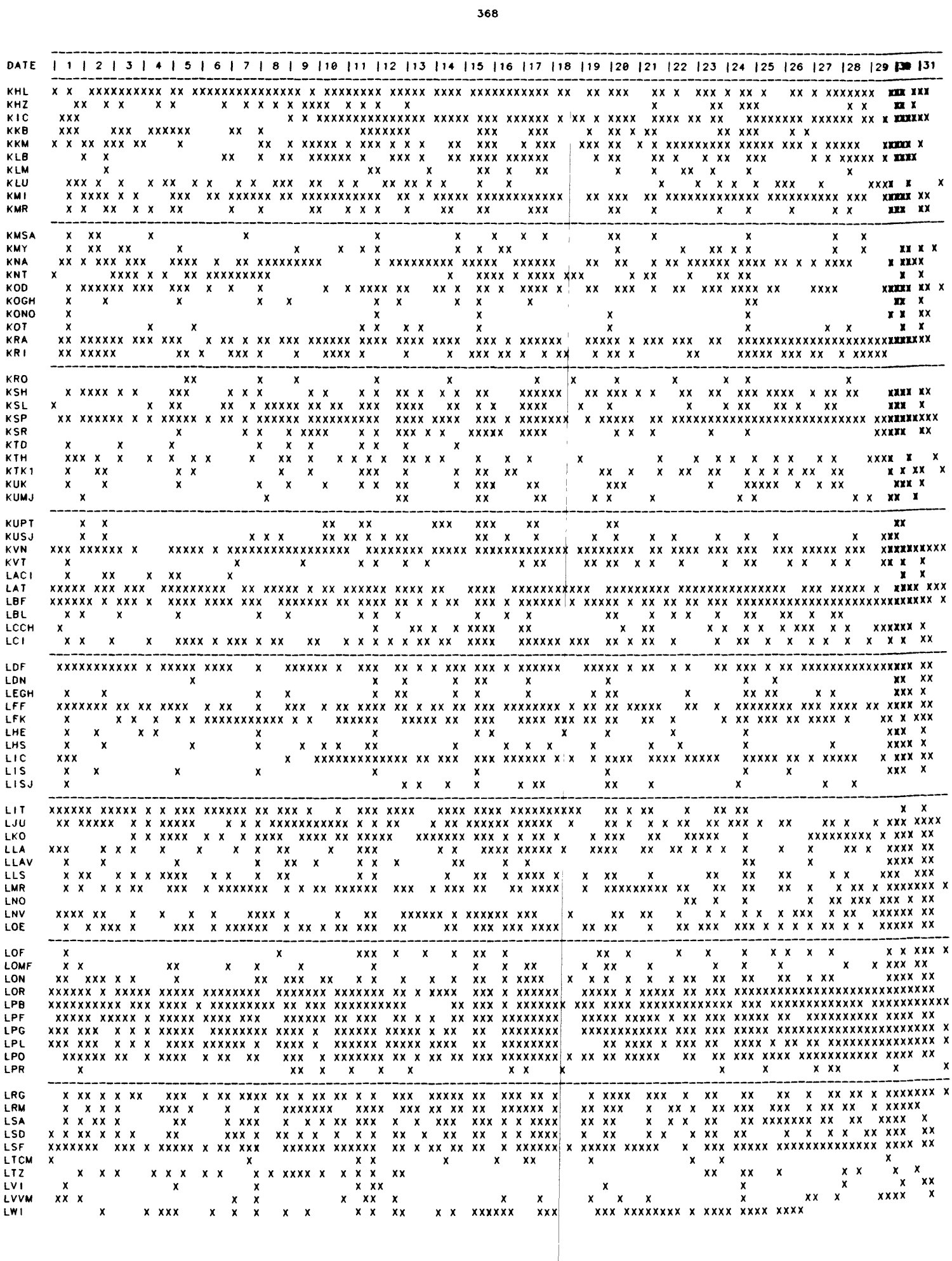


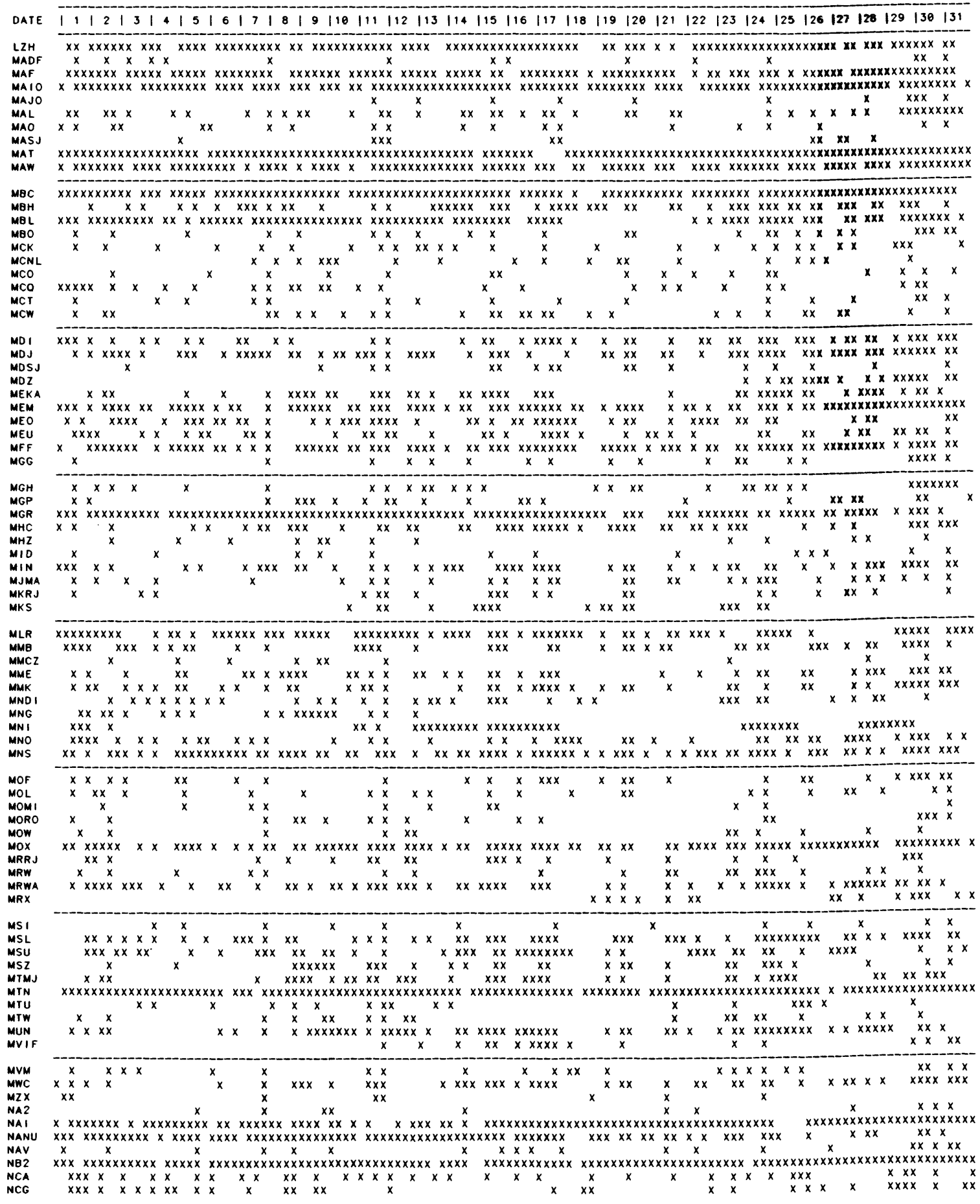

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
BDT
BDV
BEO
BER
BERA
BFD
BFS
BFT
BGF
BHD
BHG
BIM
BJA
BJI
BKB2
BKS
BLA
BLF
BLP
BLS1
BLS2
BLW
BMG
BMW
BNH
BNI
BOB
BOG
BOH
BOM
BPA
BRD
BRF
BRG
BRK
BRN
BRS
BRT
BRW
BRY
BSD
BSF
BSI
BSS
BST
BTO
BUC
BUC1
BUD
BUL
BURJ
BW06
BWA
BZS
CAF
CAI
CALN
CAN
CAR
CAW
CAYA
CBM
CBN
CCB
CCH
CCM
CD2
CDD
CDF
CEI
CER
CEY
CFA
CFR
CFTV
CGLM
CHCH
CHG
CHIE
CHJJ

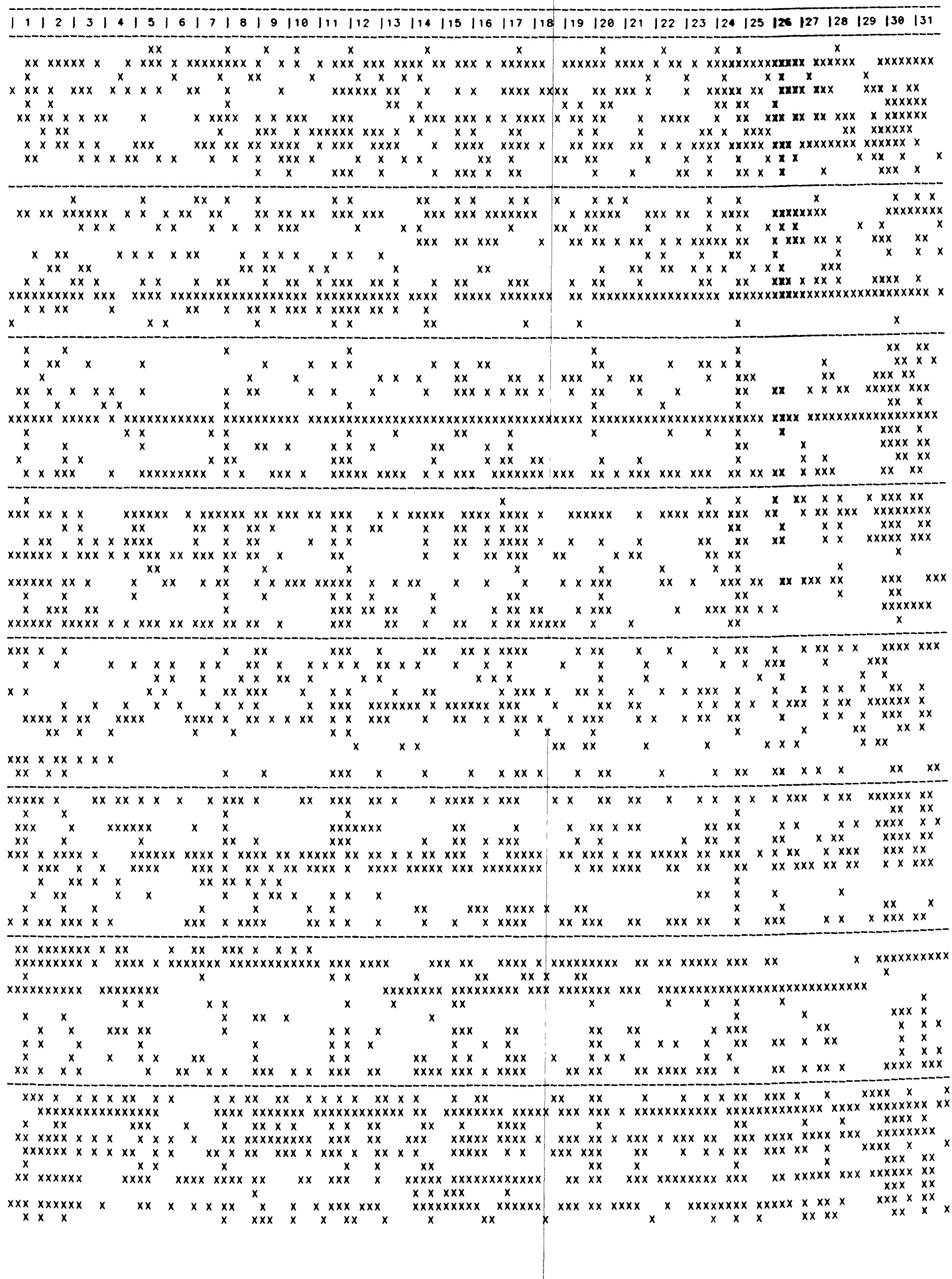

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
CHTO
CIN
CKI
CLC
CLI
CLL
CMB
CMP
CMS
CN2
CNB
CNIL
CNPM
COO
COOL
COP
COTA
CPB
CPD
CPE
CRE
CRM
CRP
CRX
CSS
CSTJ
CTA
CTAO
CTFE
CTI
CTT
CUM
CUT
CVL
CVP
CVT
DAG
DAU
DAV
DBN
DCN
DDM
DEV
DHLJ
DHR
DIM
DIX
DL2
DLA
DMK
DMN
DOI
DOT
DOU
DPW
DRA
DRV
DSI
DUG
DUI
DVD
DWY
DZM
EAB
EALH
EBAN
EBH
EBR
ECH
ECHE
ECP
ECRI
EDC
EDM
EDU
EHOR
EJIF
EKA
ELF
ELL

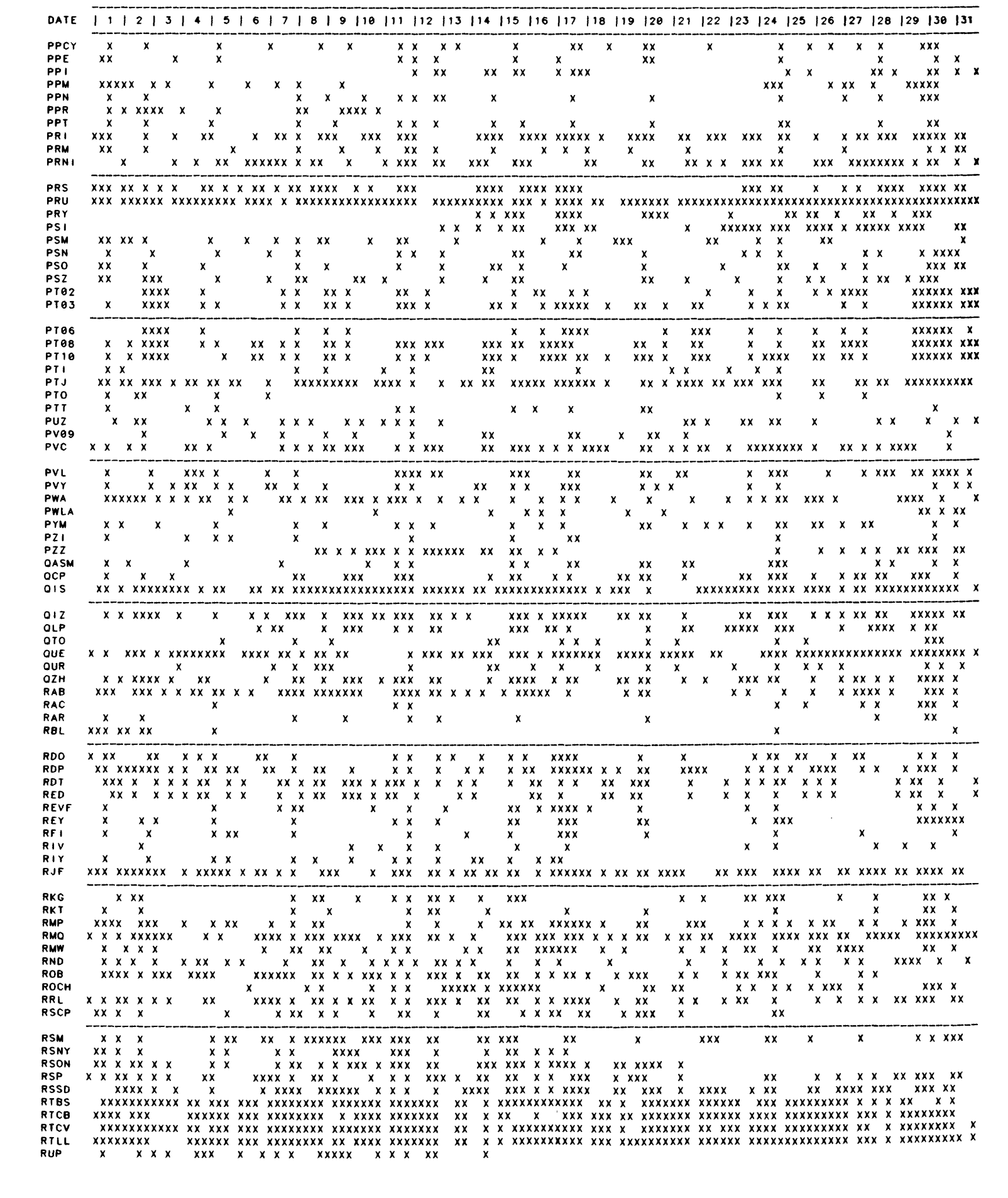

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
ELO
ELYF
EMM
EMON
EMS
ENIJ
ENN
ENR
EPF
EPLA
EPRU
ERC
EROQ
ERUA
ESCF
ESEL
ETA
ETER
ETOR
EVAL
EVIA
EVV
EZAM
EZN
FAI
FAM
FBA
FCH
FCV
FDF
FEL
FFC
FHC
FIN
FIR
FLN
FMW
FNA
FORR
FRB
FRF
FRI
FRS
FRU
FUR
FVI
FVM
GBA
GBTN
GBZT
GCC
GDH
GECU
GGC
GGP
GHO
GIB
GIBL
GKN
GLA
GLB
GLD
GLI
GLM
GMB
GMTN
GMW
GOL
GPA
GRC
GRF
GRG
GRI
GRR
GSC
GTA
GUA
GUAC
GUAN
GUD

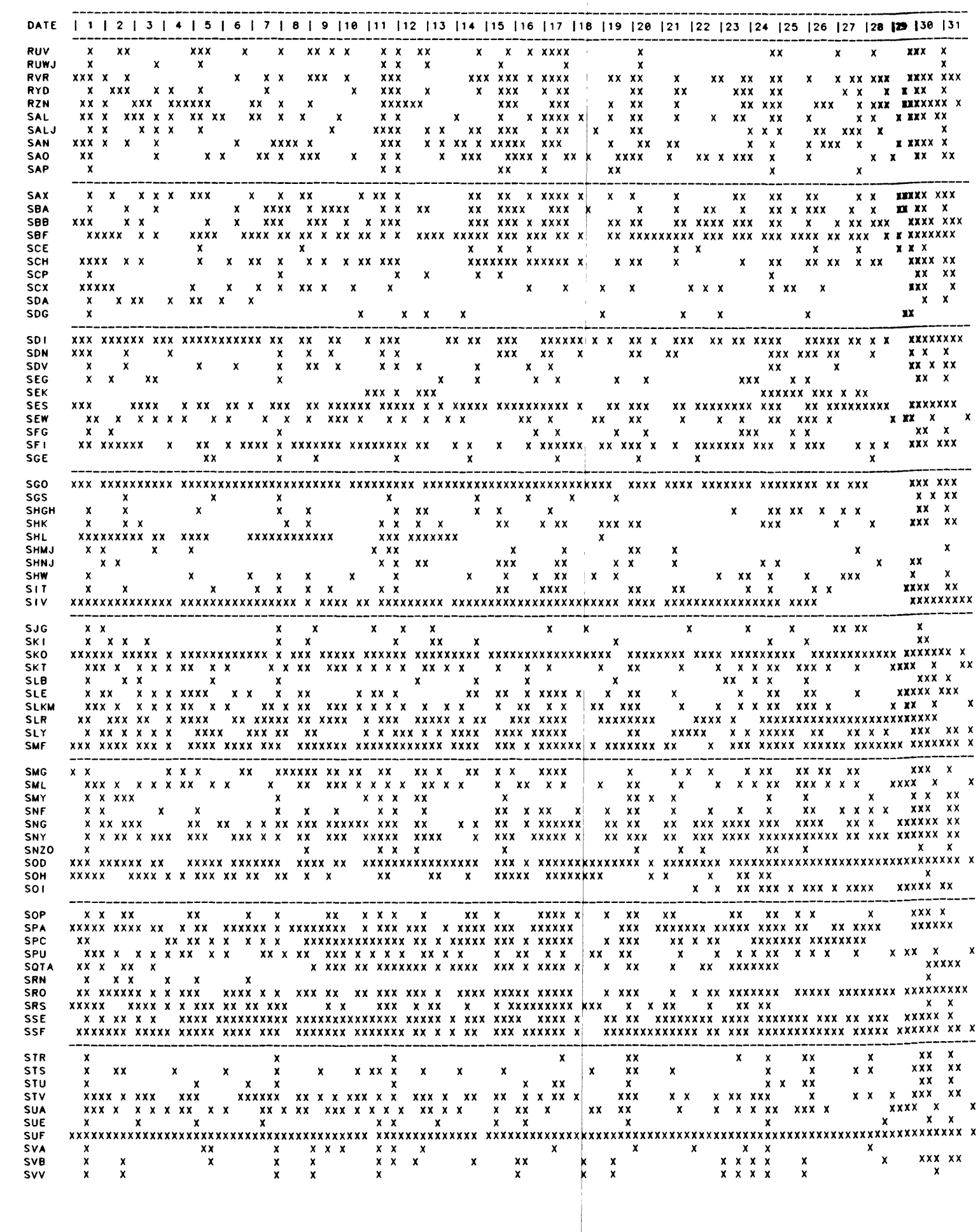

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
GUMO
GUN
GWF
GYA
GZH
GZR
HAU
HBVT
HBZ
HCY
HDA
HFS
HHC
HIA
HKC
HLW
HNR
HOF
HON
HOOJ
HPI
HQL
HON
HRI
HRT
HRV
HUR
HVAR
HVD
HYA
HYB
HYT
IAS
IFR
IGT
IHA
IIC
IIDJ
III
IIJ
IIT
IKP
IMA
IMI
IMW
INK
IPM
ISA
ISK
ISR
ISSF
ITM
ITR
ITU
IVA
IZI
IZM
JACH
JARJ
JAU
JCK
JMB
JNW
JSC
KAGJ
KAKJ
KAS
KBA
KBN
KBS
KCT
KDC
KDZ
KEK
KEV
KFNJ
KGM
KGT
KHC
KHKI

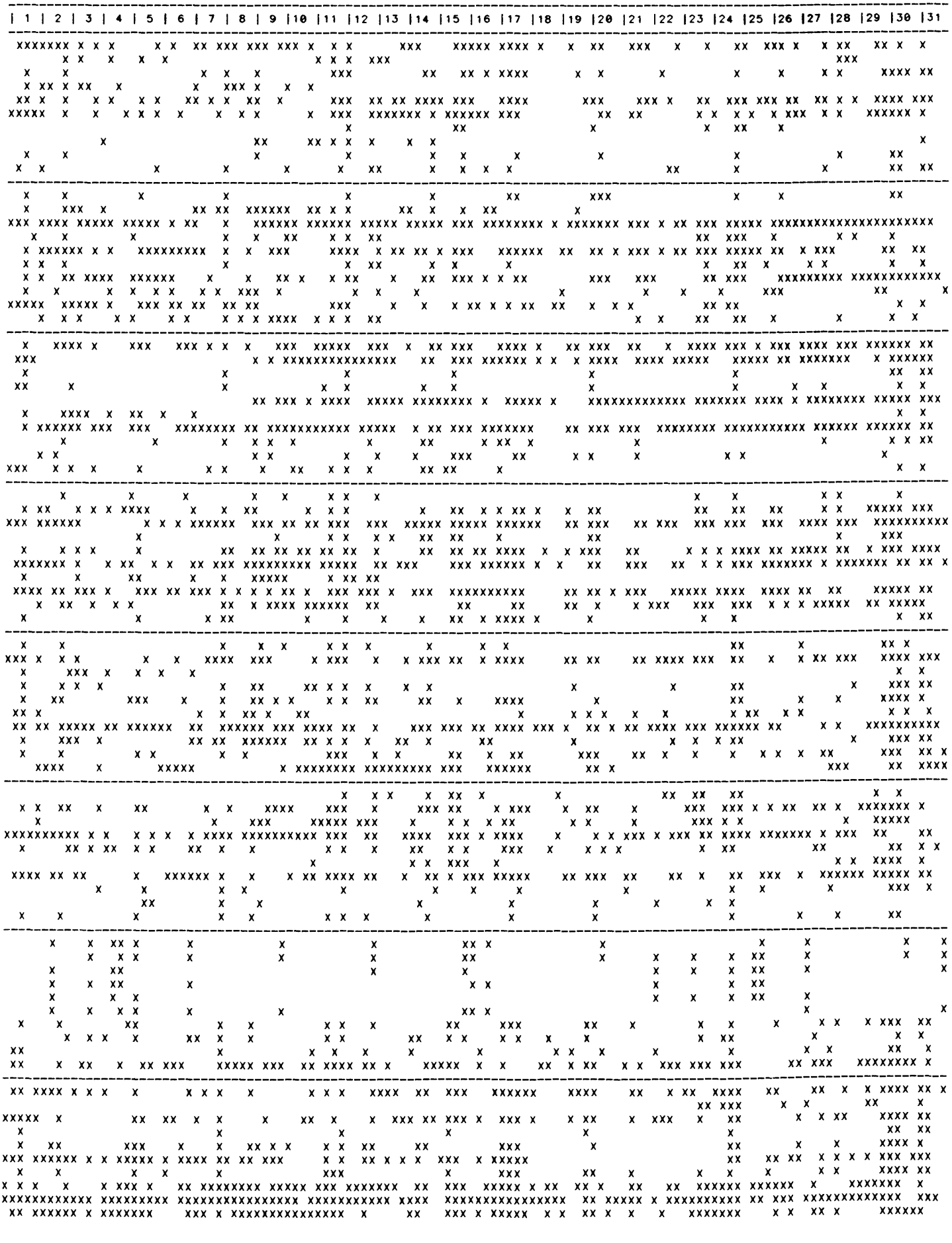

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
KHL
KHZ
KIC
KKB
KKM
KLB
KLM
KLU
KMI
KMR
KMSA
KMY
KNA
KNT
KOD
KOGH
KONO
KOT
KRA
KRI
KRO
KSH
KSL
KSP
KSR
KTD
KTH
KTK1
KUK
KUMJ
KUPT
KUSJ
KVN
KVT
LACI
LAT
LBF
LBL
LCCH
LCI
LDF
LDN
LEGH
LFF
LFK
LHE
LHS
LIC
LIS
LISJ
LIT
LJU
LKO
LLA
LLAV
LLS
LMR
LNO
LNV
LOE
LOF
LOMF
LON
LOR
LPB
LPF
LPG
LPL
LPO
LPR
LRG
LRM
LSA
LSD
LSF
LTCM
LTZ
LVI
LVVM
LWI

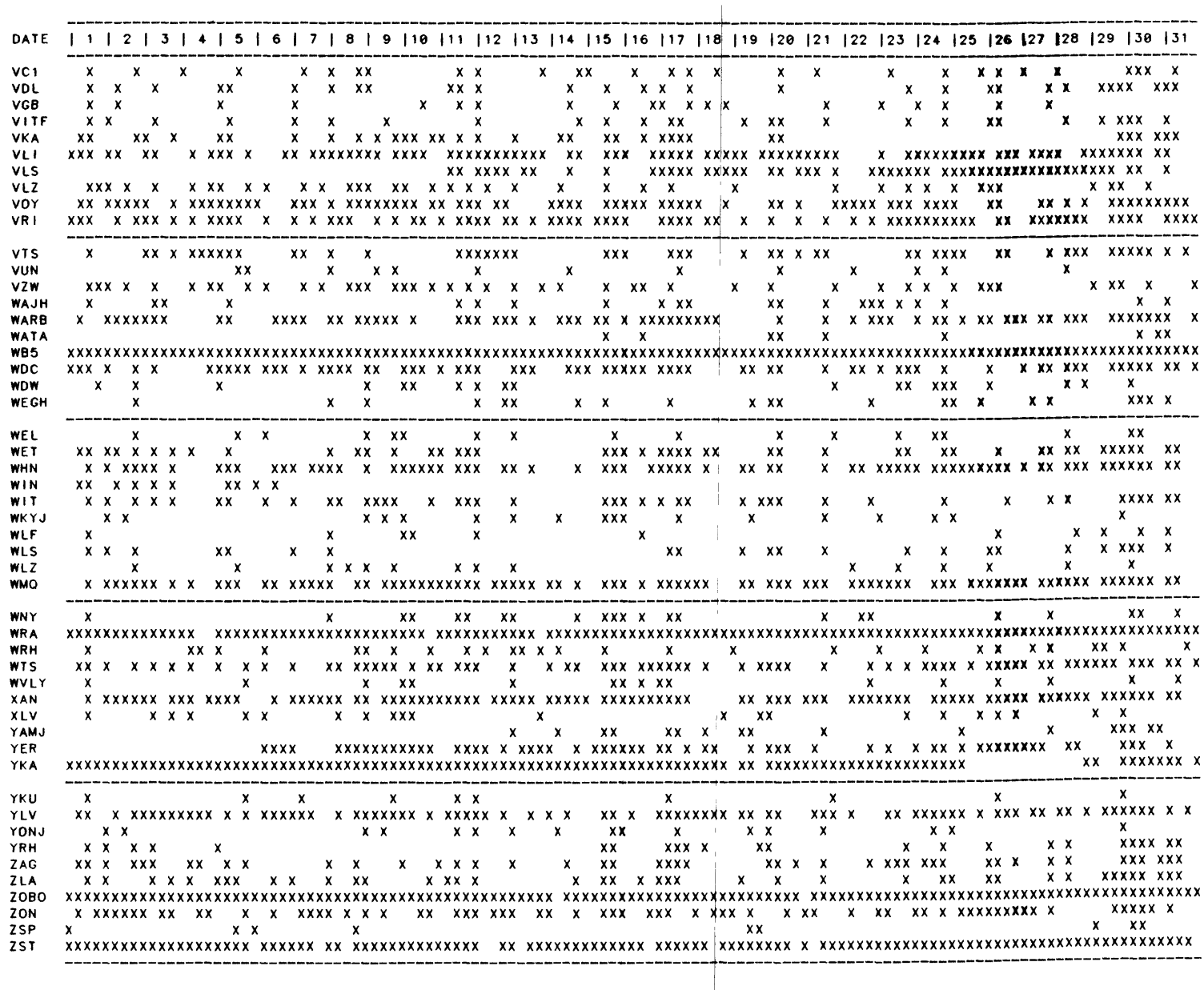

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
LZH
MADF
MAF
MAIO
MAJO
MAL
MAO
MASJ
MAT
MAW
MBC
MBH
MBL
MBO
MCK
MCNL
MCO
MCQ
MCT
MCW
MDI
MDJ
MDSJ
MDZ
MEKA
MEM
MEO
MEU
MFF
MGG
MGH
MGP
MGR
MHC
MHZ
MID
MIN
MJMA
MKRJ
MKS
MLR
MMB
MMCZ
MME
MMK
MNDI
MNG
MNI
MNO
MNS
MOF
MOL
MOMI
MORO
MOW
MOX
MRRJ
MRW
MRWA
MRX
MSI
MSL
MSU
MSZ
MTMJ
MTN
MTU
MTW
MUN
MVIF
MVM
MWC
MZX
NA2
NAI
NANU
NAV
NB2
NCA
NCG


DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
NDE
NDI
NEA
NEO
NEV
NEW
NIIJ
NJ2
NKA
NKM
NKY
NNA
NNL
NNT
NOZ
NRA0
NST
NUR
NWAO
NWRM
OBN
ODD1
OFUJ
OGA
OGE
OHR
OJEN
OLLA
OLY
ORI
ORO
ORV
ORX
OSS
OUR
OVA
OXX
PAE
PAG
PAIG
PAS
PAX
PCA
PCC
PCH
PCP
PDA
PDB
PDCR
PEC
PEL
PET
PGB
PGC
PGD
PGF
PGP
PGZ
PHAM
PII
PIP
PJG
PKEM
PKI
PLAT
PLAV
PLD
PLDF
PLE
PLM
PLRM
PMG
PMO
PMR
PMS
PNJ
PNT
POF
POO
PORP


DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31
PPCY
PPE
PPI
PPM
PPN
PPR
PPT
PRI
PRM
PRNI
PRS
PRU
PRY
PSI
PSM
PSN
PSO
PSZ
PT02
PT03
PT06
PT08
PT10
PTI
PTJ
PTO
PTT
PUZ
PV09
PVC
PVL
PVY
PWA
PWLA
PYM
PZI
PZZ
QASM
QCP
QIS
QIZ
QLP
QTO
QUE
QUR
QZH
RAB
RAC
RAR
RBL
RDO
RDP
RDT
RED
REVF
REY
RFI
RIV
RIY
RJF
RKG
RKT
RMP
RMQ
RMW
RND
ROB
ROCH
RRL
RSCP
RSM
RSNY
RSON
RSP
RSSD
RTBS
RTCB
RTCV
RTLL
RUP


DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
RUV
RUWJ
RVR
RYD
RZN
SAL
SALJ
SAN
SAO
SAP
SAX
SBA
SBB
SBF
SCE
SCH
SCP
SCX
SDA
SDG
SDI
SDN
SDV
SEG
SEK
SES
SEW
SFG
SFI
SGE
SGO
SGS
SHGH
SHK
SHL
SHMJ
SHNJ
SHW
SIT
SIV
SJG
SKI
SKO
SKT
SLB
SLE
SLKM
SLR
SLY
SMF
SMG
SML
SMY
SNF
SNG
SNY
SNZO
SOD
SOH
SOI
SOP
SPA
SPC
SPU
SQTA
SRN
SRO
SRS
SSE
SSF
STR
STS
STU
STV
SUA
SUE
SUF
SVA
SVB
SVV


DATE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
SVW
SWZ
SYP
SZP
TAB
TACH
TAF
TBH
TBI
TBR
TBT
TCE
TCF
TCW
TDS
TEGH
TEH
TGL
THE
THZ
TIA
TIC
TIK
TIM
TIO
TIR
TIY
TKL
TKSJ
TLB
TLC
TMA
TNP
TNR
TNS
TOA
TOD
TOL
TOO
TOUF
TOV
TPC
TPE
TPP
TPT
TPX
TRI
TRN
TRO
TRT
TSI
TSM
TSRJ
TTA
TTG
TUH
TUL
TUNG
TVI
TVQ
TWC
TWD
TWG
TWK
TWQ
TWZ
UCC
ULC
UNM
UPA
UPP
UQSK
UYO
UZH
VAH
VAI
VAL
VAM
VAY
VBY



The following stations each reported less than 10 readings:

AAHD	ABA	ACO	ADH	ADI	AGRW	AHA	AIN	AKUR	ALB	ALP	AMAN	ANAL	ANCC	ANM	ANMR	ANTO	APA
APM	APW	ASKD	ASR	ATA	ATZ	AWAL	BAC	BBB	BBU	BCS	BEE	BEM	BERF	BGMT	BHW	BIB	BIR
BKR	BLH	BLN	BMNM	BMR	BNM	BNS	BOT	BRLK	BRVW	BTB	BUGC	BUT	BVD	BVW	BWD	CALA	CAO
CBB	CCW	CDFW	CDM	CFS	CGL	CIS	CJM	CLE	CLMC	CMW	CNV	CNZ	COI	COL	COLM	COR	COY
CPK	CPW	CR3	CR5	CR6	CRF	CRNM	CROR	CRT	CRZF	CTCR	CUSS	CVA	CXM	CYK	CZM	DAF	DAH
DBCT	DES	DHH	DHW2	DIAC	DLE	DMW	DOG	DPMT	DRC	DRE	DRZ	DSH	DWU	EAU	EBG	EBI	EBL
EDB	EDI	EDR	EMEL	EPA	EPH	ERK	ESD	ESK	ESR	ESY	ETB	ETW	FAR	FG4	FIG	FISA	FKO
FL2	FOO	FRO	FRV	FUQ	FYU	GANF	GAZ	GBL	GBR	GDR	GELF	GHV	GHW	GL2	GLH	GLK	GMO
GRB5	GRC1	GROR	GRW	GSM	GT2	GULW	HAY	HBF	HBH	HDC2	HDW	HIN	HITZ	HLBJ	HLD	HLP	HMH
HMT	HNB	HOBC	HOJ	HOQC	HOR	HPU	HRY	HSR	HTW	HUA	HUH	HUL	HVO	HWD	HWV	ILT	IRK
IRZ2	JBO	JCW	JLK	JMI	JNE	JOZ	JTS	JUD	JVI	KAE	KBR	KCHT	KDB	KETZ	KFH	KHU	KIP
KIW	KKN	KKS	KKU	KMA	KMOR	KNH	KNK	KOSW	KPO	KRW	KSU	KTK2	KUH	LAH	LAZ	LBFM	LCCM
LFU	LIJA	LMW	LNOR	LPA	LPD	LPI	LPM	LSK	LVNJ	LVP	MAN	MBU	MBW	MBZ	MDN	MDW	MEMT
MEW	MEX	MGB	MGS	MHI	MIM	MKA	MKL	MKT	MLH	MLS	MLX	MML	MNZ	MOE	MOH	MQZ	MSG
MSJ	MTE	MTH	MTMW	MTT	MTUR	MVH	MWH	MXC	NA12	NAB	NAC	NAH	NDF	NED	NGH	NGZ	NLO
NLW	NOH	NPH	NSS	OBC	OBH	OBO	OCO	OFK	OHW	ONR	OOW	OPA	OPT	OSD	OSG	OSP	OTR
OUT	OZB	PATW	PBC	PCF	PCJ	PCM	PEM	PFB	PFH	PFO	PGO	PGW	PHC	PHP	PICO	PIG	PKL
PLG	PLH	PLL	PML	POH	POW	PPL	PRAF	PRW	PTCR	PTS	PUH	PUK	PUL	PURC	PVPS	PWH	OPS
QTFJ	QZA	RAGM	RAO	RATZ	RBA	REMW	RGRS	RGS	RIM	RIN3	RMN	RPW	RRO	RSW	RTRS	RVC	RVW
SAI	SALC	SAW	SBM	SBS	SCI	SCY	SGAM	SGH	SHB	SHBJ	SHN	SHU	SILC	SIM	SJAS	SLL	SLM
SLW	SMNM	SMW	SNB	SNH	SOA	SOF	SOSW	SPJ	SPW	SRP	SSB	SSS	STB	STD	STH	STK	STW
SUR	SVN	SVS	SXM	TAC	TAG	TAIF	TATO	TAU	TAVF	TAZ	TBM	TCO	TDD	TDH	TDL	TIG	TLG
TME	TMP	TMW	TPM	TPR	TREF	TRH	TTH	TUTZ	TWB	TWF1	TWM1	TWW	TXNY	UAV	UDU	USI	UTU
VBEM	VDB	VFP	VGZ	VIE	VILF	VIPM	VLL	VLMM	VLO	VNDA	VNM	VPD	VSS	VTG	VTHM	WAH2	WAX
WHA	WHB	WHC	WHH	WIW	WKH	WOB	WOH	WPB	WPW	WRD	WSS	WTV	WTX	WTZ	YAH	YEL	YHJ
YPE	YSA	YSS	ZGN	ZNT													