

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

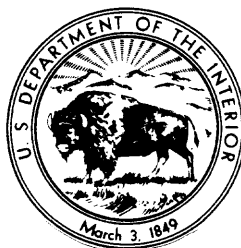
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by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER¹

Open-File Report 93-602



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¹USGS, Denver, Colorado

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

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

References

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

FEB 01, 1993 00h 26m 01.16±2.92s
42.869 N ± 9.8km 18.311 E ±19.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.4 (TTG).

BRY	0.17	79	iPg	26 05.42	0.2
			iSg	26 08.39	
HCY	0.44	162	iPg	26 10.18	0.0
			iSg	26 17.58	
NKY	0.51	96	iPg	26 11.27	-0.2
			iSg	26 19.24	
BDV	0.70	147	iPg	26 14.87	-0.1
			iSg	26 26.31	
TTG	0.83	122	iPg	26 16.90	-0.2
			iSg	26 30.32	
PLE	0.92	59	iPg	26 18.66	-0.1
			iSg	26 32.35	
ULC	1.14	142	iPg	26 22.74	0.2
			iSg	26 40.82	
IVA	1.17	89	iPg	26 22.90	-0.1
			iSg	26 41.08	
PVY	1.25	102	iPg	26 24.92	0.3
			iSg	26 44.10	

S.D. = 0.2 on 9 of 9 obs.

FEB 01, 1993 00h 27m 51.07±1.54s
22.912 S ± 8.7km 71.285 W ±15.6km
DEPTH = 10.0km (geophysicist)
4.1mb (1 obs.)
OFF COAST OF NORTHERN CHILE (121)

ANT	1.12	135	iPd	28 12.20	0.1
			iS	28 23.00	
YJA	5.40	83	ePd	29 13.50	-0.5
HJA	5.42	94	eP	29 14.00	0.1
			S	29 34.00	
SLA	5.60	110	ePc	29 17.60	0.9
FSA	5.75	124	e(P)	29 18.50	0.0
CNCB	6.82	28	P	29 35.00	0.9
LPB	7.02	26	P	29 38.00	1.2
	1.0s	116.00nm		6.0mb X	
Z	24s	4.65um			
		S	31 16.20		
		LR	32 20.00		
ZOBO	7.23	25	P	29 39.80	-0.1
	1.0s	44.75nm		5.6mb X	
Z	18s	1.23um			
		LR	32 12.00		
RTPR	8.51	151	eP	30 02.80	5.6X
RTLL	8.75	164	eP	30 09.00	8.4X
RTCB	8.82	166	eP	30 12.80	11.1X
CFA	9.07	163	e(P)	30 13.30	8.2X
MDZ	10.16	168	eP	30 34.30	14.2X
		e	32 39.60		
PEL	10.21	177	eP	30 47.00	26.3X
TCA	10.29	146	eP	30 18.00	-3.9X
SIV	11.84	56	P	30 41.20	-1.8
BAO	23.13	76	eP	32 54.00	-4.6X
		e	32 58.00		
		e	33 42.40		
KIC	71.20	74	P	39 09.60	-3.1X
YKA	91.80	341	eP	40 59.20	-0.7
	0.8s	0.70nm		4.1mb	
GBA	148.94	102	PKP	47 42.00	4.6X
GUN	158.79	72	PKP	48 00.00	8.9X

S.D. = 1.0 on 10 of 21 obs.

FEB 01, 1993 01h 22m 35.05±1.12s
35.622 S ±11.0km 178.099 E ±16.9km
DEPTH = 287.5 ± 10.5 km
4.4mb (2 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ	1.98	175	P	23 19.40	-1.4
KUZ	2.23	239	P	23 22.70	-0.2
PUZ	2.45	177	P	23 24.20	-0.8
		S	24 03.90		
URZ	2.75	196	P	23 28.00	0.2
		S	24 12.00		
TAZ	2.90	206	eP	23 31.30	2.0X
NOZ	2.99	181	P	23 30.40	0.2
WLZ	3.01	221	eP	23 32.60	2.2X
PAHZ	3.34	194	eP	23 34.50	0.7
MAHZ	3.56	183	eP	23 36.90	0.7
TTH	4.04	194	eP	23 42.70	1.2

NGZ	4.07	209	eP	23 44.00	2.0X
CNZ	4.11	209	P	23 44.50	2.1X
WAHZ	4.30	198	P	23 45.10	0.6
TEHZ	4.48	193	P	23 47.10	0.6
BSZ	4.87	210	P	23 52.70	1.7
MNG	5.40	202	P	23 57.20	-0.1

KIW	5.80	205	P	24 02.10	-0.1
CAW	5.97	203	P	24 03.80	-0.5
BLW	6.10	199	eP	24 05.90	0.2
DIW	6.13	211	eP	24 06.60	0.4
MRW	6.20	204	P	24 06.60	-0.4
		eS	25 22.90		
TCW	6.34	207	eP	24 08.30	-0.4
QRZ	6.80	218	eP	24 14.00	-0.3
THZ	7.35	212	eP	24 21.90	0.7
		eS	25 50.20		
KHZ	7.66	206	P	24 24.60	-0.3
DSZ	7.85	217	P	24 26.20	-1.2
LTZ	8.46	211	eP	24 34.40	-0.5
MOZ	9.10	206	eP	24 41.50	-1.3
		eS	26 25.90		
ASPA	39.91	275	iPc	29 43.70	0.6
	0.5s	29.90nm		4.9mb	
WB2	41.38	280	iPc	29 55.00	-0.1
	0.3s	40.10nm		5.2mb X	
WRA	41.39	280	P	29 55.30	0.1
	0.4s	2.80nm		3.9mb	

S.D. = 0.8 on 27 of 31 obs.

FEB 01, 1993 02h 47m 48.54±2.15s
4.137 S ±12.4km 136.391 E ±18.9km
DEPTH = 63.8 ± 18.1 km
4.7mb (2 obs.)
IRIAN JAYA REGION, INDONESIA (196)

SWI	6.07	302	ePd	49 18.00	0.2
		eS	50 25.00		
MTN	10.10	211	eP	50 13.00	-0.3
	0.3s	89.00nm		6.3mb X	
CTA	18.54	150	iPc	52 02.50	-0.1
ASPA	19.56	187	iPd	52 14.70	0.5
	1.1s	30.80nm		4.5mb	
Z	18s	0.20um			
		eS	55 42.10		
LZH	50.28	325	eP	56 48.00	7.2X
	1.2s	18.00nm		5.0mb	
		sP	56 55.00		
GUN	58.13	306	P	57 38.32	-0.3
PKI	58.37	306	P	57 40.52	0.2
KKN	58.56	306	P	57 41.02	-0.5
DMN	58.63	306	P	57 42.66	0.6
GKN	59.17	306	P	57 45.36	-0.3
CNCB	148.17	131	PKP	07 37.00	10.0X
LPB	148.25	131	ePKP	07 32.00	5.0X
ZOBO	148.38	131	PKP	07 36.00	8.5X

S.D. = 0.5 on 9 of 13 obs.

FEB 01, 1993 02h 58m 15.54±0.32s
44.102 N ± 2.5km 6.937 E ± 2.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (STR).

TOUF	0.24	111	Pg	58 20.41	-0.4
CALN	0.35	186	Pg	58 23.15	0.3
		Sg	58 28.82		
AURF	0.35	127	Pg	58 22.99	0.1
		Sg	58 28.22		
AURF	0.35	127	Pg	58 23.32	0.4
		Sg	58 29.57		
AUTN	0.37	107	Pg	58 23.45	0.2
		Sg	58 28.63		
SBF	0.43	123	Pg	58 24.71	0.3
		Sg	58 30.64		
DOI	0.46	29	P	58 24.50	-0.4
		eSg	58 28.20		
SAOF	0.46	104	Pg	58 25.03	0.1
		Sg	58 30.95		
REVF	0.48	139	Pg	58 25.42	0.2
FRF	0.58	201	Pg	58 27.10	-0.2
		Sg	58 35.10		
LRG	0.77	213	Pg	58 30.40	-0.2
		Sg	58 41.70		
LMR	0.83	202	Pg	58 31.50	-0.1
		Sg	58 42.60		
CDR	0.95	244	e(Pg)	58 33.70	0.1

BNI	0.97	349	P	e(Sg) 58 46.90	0.0
			eSg	58 44.30	
CKI	1.02	71	P	58 34.70	-0.1
			eSg	58 45.50	
LPG	1.40	355	Pg	58 41.60	0.2
			Sg	59 00.70	
LPL	1.42	354	Pg	58 42.00	0.4
PGF	2.16	135	Pn	58 51.10	-1.1
			Sn	59 16.50	

S.D. = 0.4 on 18 of 18 obs.

FEB 01, 1993 03h 09m 42.03±0.32s
52.116 N ± 7.4km 172.561 E ± 3.3km
DEPTH = 33.0km (normol)
4.9mb (72 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	1.13	56	eP	10 01.40	0.0
ADK	6.65	88	(P)	11 20.54	0.7
PET	8.53	282	eP	11 42.50	-3.5X
	0.5s	30.00nm		5.7mb	
Z	16s	1.20um			
		eS	13 11.00		
SKR	10.39	268	eP	12 06.00	-4.8X
	0.9s	200.00nm		6.6mb X	
Z	12s	1.90um			
N	12s	2.90um			
E	12s	2.10um			
		eS	13 55.50		
MGD	14.48	312	eP	14 05.00	-1.2
	1.0s	70.00nm		1.1mb	
Z	12s	0.60um			
E	12s	0.50um			
ILT	16.40	12	iPc	13 20.00	-1.3
	1.4s	80.00nm		6.7mb	
Z	16s	0.80um			
N	15s	0.40um			
SVW	19.50	50	eP	14 00.00	-1.0
	0.7s	17.88nm		6.3mb	
TTA	19.82	45	eP	14 10.00	-1.6
KDC	20.69	60	(P)	14 20.00	-0.3
	0.9s	15.60nm		6.6mb	
KUSJ	20.72	255	eP	14 20.00	-1.0
BGL	21.07	51	(P)	14 20.00	3.2
CP2	21.14	51	eP	14 20.00	1.0
CRP	21.18	51	eP	14 25.00	-0.7
ASAJ	21.40	260	eP	14 30.00	3.7
IMA	21.89	37	eP	14 32.17	-1.5
	0.7s	10.33nm		6.6mb	
HOOJ	21.99	255	eP	14 31.70	-3.0
PMR	22.66	50	(P)	14 40.00	-0.7
	0.6s	4.86nm		6.2mb	
BRW	23.62	24	eP	14 50.50	0.1
FBA	23.86	42	eP	14 52.54	-0.2
	0.9s	15.13nm		4.5mb	
TOA	24.11	49	eP	14 57.00	1.6
KLU	24.18	51	(P)	14 53.94	-2.1
YAK	24.85	310	eP	15 00.00	-2.3
	1.0s	270.00nm		5.8mb	
		e	19 24.00		
TIK	27.38	332	iPc	15 25.00	-0.7
	1.2s	40.00nm		4.9mb	
Z	14s	0.40um		4.1mszX	
		i	15 33.00		
		ePPP	16 06.00		
		eS	19 50.00		
CN2	32.13	274	eP	16 08.00	-0.2
	0.5s	4.70nm		4.6mb	
Z	14s	0.29um		4.1mszX	
		eP	16 15.00	24kmX	
BOD	33.06	303	iPc	16 15.60	-0.5
	1.0s	30.00nm		5.1mb	
CIT	35.38	294	eP	16 31.50	-4.8X
YKA	38.58	45	eP	17 02.10	-0.9
	0.9s	6.70nm		4.4mb	
NRI	40.77	327	ePc	17 20.00	-1.0
	1.1s	29.00nm		4.9mb	
		e	17 26.00		
		e	17 34.00		
BMW	41.03	71	(P)	17 21.49	-2.0
RES	41.26	24	eP	17 26.00	1.0
	1.0s	3.00nm		4.0mb	
TIA	41.76	270	eP	17 30.70	1.2
HHC	42.29	280	eP	17 35.00	1.0
	1.2s	20.00nm		4.7mb	
MOY	42.49	299	eP	17 35.20	-0.1

EPF	0.8s	13.05nm	5.1mb
	84.99 354 eP	22 15.50	0.5
	0.7s	5.20nm	4.8mb
	S.D. = 1.1 on 128 of 136 obs.		
FEB 01, 1993 03h 11m 32.64± 0.47s			
49.149 N ± 3.7km 6.917 E ± 5.5km			
DEPTH = 10.0km (geophysicist)			
GERMANY (543)			
ML 2.7 (STR). MD 2.4 (UCC).			
RUP	0.56 10 ePg	11 43.37	-0.7
LANF	0.61 106 Pg	11 44.78	-0.2
WLF	0.72 316 iPd	11 45.99	-0.7
	iS	11 55.42	
HOFF	0.72 106 Pg	11 47.07	0.3
	Sg	11 58.13	
CDF	0.78 162 Pg	11 47.16	-0.7
	Sg	11 58.64	
WLS	0.79 158 Pg	11 47.32	-0.8
ABH	0.84 29 ePg	11 48.61	-0.3
ECH	0.95 170 Pg	11 50.72	0.0
	Sg	12 04.51	
VITF	1.12 214 Pg	11 52.77	-0.9
	Sg	12 09.28	
MOF	1.31 174 Pg	11 57.28	0.4
	Sg	12 15.40	
TOD	1.32 69 ePg	11 55.96	-1.0
BSF	1.32 184 Pg	11 57.28	0.2
TNS	1.47 42 ePnd	12 00.60	1.4
	eSn	12 18.30	
FEL	1.47 150 ePg	11 58.73	-0.5
ENN	1.74 339 iPn	12 04.90	1.8
	0.4s 14.00nm		
	eSn	12 27.50	
DOU	1.78 303 P	12 02.90	-0.8
	i	12 05.20	
	iS	12 24.80	
LOMF	1.80 182 Pg	12 06.39	2.3
SNF	2.18 310 iP	12 16.40	6.9X
GRF	2.86 77 e(Pg)	12 28.00	8.8X
	e(Sg)	13 05.00	
KHC	4.37 88 eP	13 02.00	21.4X
	eSg	13 30.50	
PRU	5.03 78 eP	13 02.00	12.1X
	eSg	13 30.50	
S.D. = 1.1 on 17 of 21 obs.			
FEB 01, 1993 03h 18m 42.58± 0.39s			
52.058 N ± 9.0km 172.602 E ± 3.9km			
DEPTH = 33.0km (normal)			
4.8mb (45 obs.)			
NEAR ISLANDS, ALEUTIAN ISLANDS (5)			
SMY	1.14 53 eP	19 02.13	-0.1
ADK	6.62 87 eP	20 24.32	4.3X
SVW	19.52 50 eP	23 09.50	-0.3
TTA	19.85 45 eP	23 14.30	1.0
KDC	20.69 60 (P)	23 23.19	1.2
	1.5s 53.58nm		4.7mb
BGL	21.08 50 eP	23 21.18	-4.9X
CRP	21.19 50 eP	23 27.58	0.3
IMA	21.92 37 eP	23 32.71	-1.8
	0.9s 9.43nm		4.2mb
PMS	22.43 51 eP	23 40.10	0.6
	0.3s 7.40nm		4.6mb
PMR	22.68 50 (P)	23 41.28	-0.6
BRW	23.67 24 ePc	23 50.86	-0.5
FBA	23.88 42 eP	23 54.70	1.1
	0.7s 26.00nm		4.9mb
TOA	24.13 49 eP	23 57.20	1.1
KLU	24.20 51 eP	23 55.81	-1.0
YAK	24.91 310 iPd	24 02.80	-0.6
	1.0s 130.00nm		5.5mb
YKA	38.60 45 eP	26 02.70	-1.0
	1.0s 5.30nm		4.3mb
RES	41.31 24 eP	26 26.50	0.6
	1.0s 2.00nm		3.8mb
TIA	41.78 270 eP	26 31.10	0.8
BTO	43.42 280 eP	26 44.30	0.6
NEW	43.58 66 eP	26 44.82	0.0
TIY	43.72 275 eP	26 47.50	1.4
BONR	49.01 78 (P)	27 29.11	0.9
FCC	49.25 43 ePc	27 31.80	2.4
LZH	50.02 280 eP	27 36.20	0.4
	1.4s 24.00nm		5.0mb
Z	14s 0.44um		4.6MsZ

01d 04h

TOV 6.56 81 eP 24 00.20 1.1
 YKA 60.28 341 eP 25 23.70 -0.2
 0.7s 0.30nm 3.5mb
 S.D. = 1.2 on 5 of 8 obs.

FEB 01, 1993 05h 12m 03.26 ± 0.96s
 44.830 N ± 5.9km 15.130 E ± 7.5km
 DEPTH = 17.1 ± 5.8 km
 NORTHWESTERN BALKAN REGION (383)
 ML 3.5 (ZAG), 3.4 (LDG), MD 3.6
 (LJU), 3.3 (TRI). Felt in the
 Otocac area, Croatia.

VBY 0.68 7 iPg 12 14.80 -1.5
 CEY 1.04 332 ePn 12 25.00 -0.4
 ZAG 1.16 31 e(Pn) 12 24.50 0.1
 PTJ 1.22 28 iPnc 12 25.20 -0.3
 LJU 1.28 341 ePn 12 27.50 1.1
 TRI 1.30 313 ePg 12 27.10 0.5
 VOY 1.48 324 ePg 12 30.30 1.0
 RBL 1.95 326 P 12 37.80 1.8
 ARV 2.06 231 P 12 39.20 1.6
 RSM 2.12 246 P 12 40.80 2.4
 VVI 2.23 302 P 12 41.50 1.5
 FVI 2.41 318 P 12 44.00 1.5
 ASS 2.50 226 P 12 45.20 1.3
 SFI 2.52 250 P 12 45.40 1.3
 KBA 2.57 332 iPnc 12 47.20 2.2
 CRE 2.58 243 P 12 46.50 1.4
 PGD 2.63 250 P 12 47.30 1.5
 CTI 2.74 298 P 12 48.00 0.7
 UZD 2.99 53 eP 13 39.00 48.3X
 SDI 3.27 198 P 12 54.50 -0.3
 BDI 3.34 258 P 12 56.60 0.8
 WTTA 3.44 316 iPnd 12 59.40 2.1
 OGA 3.52 307 ePn 13 00.40 1.9
 WATA 3.52 317 iPnc 13 00.40 2.0
 SOTA 3.63 313 iPnd 13 01.90 1.9
 ZST 3.63 21 i(P) 13 01.00 1.1
 SRO 3.71 35 e(P) 13 12.40 11.4X
 MOTA 3.76 313 iPnc 13 03.50 1.6
 MDI 3.94 286 P 13 04.10 -0.1
 GEC2 4.13 347 Pn 13 07.40 0.3
 KHC 4.43 347 Pn 13 11.50 0.3
 VAI 4.60 285 P 13 13.70 0.1
 PGF 5.00 245 Pn 13 20.20 0.9
 PRU 5.18 356 ePn 13 20.80 -0.9
 LPG 5.96 279 Pn 13 32.00 -1.1
 LPL 5.98 280 Pn 13 33.00 -0.3

FRF 6.23 261 Pn 14 39.00 -1.4
 LMR 6.39 259 Pn 13 37.30 -1.6
 LRG 6.46 261 Pn 13 40.90 1.0
 CDF 6.49 306 Pn 13 39.50 -0.9
 BSF 6.51 300 Pn 13 39.00 -1.7
 HAU 6.85 301 Pn 13 43.50 -1.9
 LBF 8.07 289 Pn 14 01.40 -1.1
 SMF 8.10 287 Pn 14 01.50 -1.4
 LOR 8.21 291 Pn 14 02.70 -1.7
 AVF 8.46 288 Pn 14 06.00 -1.9
 S.D. = 1.4 on 44 of 46 obs.

& FEB 01, 1993 06h 01m 39.73s
 34.237 N 116.804 W
 DEPTH = 2.1km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.2 (PAS), 3.0 (GS).
 Felt.

PEC 0.45 221 iPd 01 48.56 -0.2
 PLM 0.88 183 iPd 01 56.47 -1.0
 GSC 1.06 360 eP 01 59.63 -0.9
 ISA 1.98 317 ePn 02 13.00 -1.6
 GLA 2.03 125 ePn 02 13.92 -1.4
 BCH 2.86 290 ePn 02 26.17 -1.2
 PHAM 3.35 299 (P) 02 32.10 -2.2
 MTUM 3.42 336 ePn 02 34.30 -1.1
 MRCM 3.70 339 ePg 02 44.10 10.1
 MPM 3.82 332 (Pn) 02 41.23 0.0
 MEMM 3.84 334 (Pn) 02 40.90 -0.2
 TNP 3.85 355 ePn 02 39.57 -1.9
 BONR 3.90 342 ePn 02 41.36 -1.0
 CM8 4.77 324 P 03 08.84 14.4
 14 obs. associated

& FEB 01, 1993 06h 29m 19.52s
 37.908 N 122.282 W
 DEPTH = 5.6km
 CENTRAL CALIFORNIA (39)
 <GM-P>. MD 2.1 (GM), ML 2.4
 (BRK). Felt by many people in
 the epicentral area. Felt at
 Berkeley and Kensington.

ZSP 0.04 28 iPd 29 20.89 -0.1
 BKS 0.05 130 iPd 29 20.95 -0.1
 PCC 0.41 191 iPd 29 27.97 0.1
 JEGM 0.42 200 eP 29 27.79 -0.1
 HMR 0.45 57 eP 29 29.91 1.3
 STAN 0.51 170 eP 29 29.88 0.1
 NTYM 0.57 328 ePc 29 30.71 -0.2
 MHC 0.76 138 ePc 29 34.65 -0.2
 COE 0.81 143 eP 29 35.77 0.1
 ARN 0.82 133 eP 29 35.57 -0.2
 GCC 0.91 165 eP 29 36.47 -0.8
 SAO 1.32 149 eP 29 42.41 -2.0
 CMB 1.50 85 eP 29 45.36 -1.8
 13 obs. associated

& FEB 01, 1993 07h 17m 39.70s

34.988 N 116.948 W
 DEPTH = 4.8km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.1 (PAS), 2.8 (GS).

GSC 0.33 21 iPd 17 46.10 -0.4
 PEC 1.11 189 eP 17 59.93 -1.1
 ISA 1.42 299 eP 18 04.67 -1.6
 PLM 1.63 177 eP 18 08.25 -1.1
 BCH 2.58 275 ePn 18 21.04 -1.9
 GLA 2.61 137 ePn 18 23.99 0.6
 MTUM 2.70 331 (Pn) 18 24.26 -0.5
 PHAM 2.94 288 ePn 18 27.36 -0.7
 TNP 3.10 356 ePn 18 30.44 0.1
 MPM 3.11 328 ePn 18 31.02 0.4
 MEMM 3.12 330 (Pn) 18 30.41 0.0
 BONR 3.16 340 ePn 18 31.43 0.1
 CMB 4.11 319 ePn 18 44.03 -0.6
 MSU 5.20 46 ePg 19 14.32 14.0
 14 obs. associated

? FEB 01, 1993 08h 00m 11.58 ± 6.97s
 18.842 N ± 27.9km 67.548 W ± 45.5km
 DEPTH = 10.0km (geophysicist)
 MONA PASSAGE (89)

LRS 0.86 129 P 00 28.00 -0.2
 APR 0.87 116 P 00 29.00 0.7
 MGP 0.94 152 P 00 29.80 0.4
 PORP 1.17 132 P 00 32.70 -0.7
 SJG 1.51 118 iP 00 38.80 0.0
 LPR 1.68 108 P 00 41.00 -0.2
 CPD 1.74 117 P 00 42.00 -0.1
 S.D. = 0.6 on 7 of 7 obs.

FEB 01, 1993 08h 38m 10.34 ± 0.13s
 54.570 N ± 3.0km 161.426 E ± 2.1km
 DEPTH = 34.0km (35 depth phases)
 5.3mb (115 obs.) 4.6Msz (23 obs.)
 NEAR EAST COAST OF KAMCHATKA (218)

PET 2.27 228 iPnd 38 49.00 2.8
 SKR 5.08 222 ePn 39 26.80 0.7
 SMY 7.76 99 eP 39 59.52 -4.1X
 MGD 7.98 318 ePn+ 40 10.00 3.2X
 SEY 9.57 334 ePn 40 33.00 4.3X
 OKH 10.92 272 ePn 40 53.00 5.9X
 ADK 13.38 93 eP 41 15.96 -4.1X
 YSS 14.01 245 ePc- 41 32.10 3.7X
 SHO 14.32 228 eP 41 27.00 -5.5X
 KUSJ 15.85 230 eP 41 46.30 -6.1X
 ASAJ 16.05 237 eP 41 56.30 1.4
 ILT 16.31 27 iPc 41 59.20 1.2
 HOJ 17.06 232 eP 42 01.60 -6.0X
 MRRJ 18.07 236 eP 42 20.90 0.7
 YAK 18.10 307 iPc 42 20.20 -0.2
 Z 16s 1.20um
 E 14s 0.90um

AOMJ	19.85	234	eP	42	44.20	3.2X		1.6s	39.00nm	4.9mb				epP	47	51.73	32km	
OFUJ	20.45	229	eP	42	46.90	-0.4		Z 16s	1.00um	4.8MsZ	HVU	55.14	65	eP	47	40.97	-0.6	
SDN	21.70	72	eP	43	00.10	0.2	NVS	42.94	304 eP	46 05.00	-2.1			epP	47	51.47	35km	
	0.7s	50.00nm			5.0mb			1.1s	30.00nm	4.9mb	PHAM	55.19	76	eP	47	41.96	0.1	
YAMJ	21.92	230	eP	43	03.30	1.0	LZH	43.15	269 Pd	46 08.00	-1.3			epP	47	52.14	33km	
TIK	22.08	333	iPc	43	03.50	-0.1		1.2s	25.00nm	4.8mb	TNP	55.36	71	eP	47	43.21	-0.1	
	1.0s	63.00nm			5.0mb		Z 18s	0.84um	4.7MsZ		0.8s	40.74nm				5.5mb		
Z 16s	2.00um				4.6MsZ		N 12s	0.50um				iPp	47	53.29	33km			
	i			43	39.00			pP	46 14.00	20kmX		esP	47	58.63				
MDJ	22.73	257	eP	43	09.10	-1.0	GTA	43.24	276 P	46 08.50	-1.4	BCH	55.84	76	eP	47	46.58	0.0
Z 21s	1.25um				4.3MsZ			1.4s	16.00nm	4.6mb		epP	47	56.54	33km			
NIJ	23.15	231	P	43	16.10	1.7	Z 14s	1.74um	5.1MsZ	BW06	56.12	62	eP	47	47.75	-1.0		
TTA	23.20	52	ePc	43	15.61	0.9	E 12s	0.52um		0.8s	16.02nm				5.1mb			
	0.9s	80.82nm			5.2mb			pP	46 15.50	23kmX		e	47	58.32	35km			
SVW	23.42	56	eP	43	17.10	0.3		sP	46 19.50		DUG	56.25	67	eP	47	49.57	0.0	
	0.8s	51.50nm			5.1mb		PGC	44.96	65 eP	46 24.00	0.5	0.8s	15.03nm	5.1mb				
	ePcP			47	02.50		HON	45.07	121 P	46 30.00	5.4X	ISA	56.40	74	iPc	47	49.59	-1.0
KAKJ	23.50	227	P	43	18.60	0.9		45.07	121 P	46 30.00	5.4X	0.8s	15.82nm	5.1mb				
MAT	24.09	231	eP	43	24.00	0.5	Z 21s	0.74um	4.6MsZ	Z 21s	0.58um		iPp	47	59.59	33km		
	0.8s	99.25nm			5.4mb		45.27	65 eP	46 26.39	0.4		epP	47	59.59	33km			
	eS			47	47.00			e	46 37.22	38km	DAU	56.92	66	eP	47	54.73	0.1	
CHJJ	24.15	229	P	43	23.90	-0.1	GMW	45.98	66 eP	46 32.04	0.3	epP	48	04.86	33km			
MTMJ	24.24	232	P	43	25.80	0.8	JCW	46.04	65 P	46 32.32	0.2	EMUT	57.59	66	eP	47	59.04	-0.2
IMA	24.42	44	iPc	43	26.78	0.2	BMW	46.42	67 eP	46 35.49	0.3	epP	48	09.30	34km			
	1.0s	78.64nm			5.2mb		RMW	46.56	65 eP	46 36.25	-0.1	GSC	57.60	74	eP	47	58.90	-0.2
	iPcP			47	04.85		CD2	46.90	264 Pc	46 36.80	-2.4	e	48	08.57	32km			
BRW	24.57	31	iPd	43	28.38	0.6		0.9s	13.00nm	4.9mb	MSU	57.80	68	iPc	48	00.79	0.1	
	iPcP			47	05.65			eS	53 26.00		epP	48	11.05	34km				
BGL	24.96	56	eP	43	32.22	0.4	FMW	46.96	66 P	46 39.88	0.2	RSSD	57.94	58	iPd	48	00.87	-0.7
CP2	25.04	56	eP	43	33.00	0.4	LON	47.00	66 eP	46 39.15	-0.7	0.7s	37.71nm	5.6mb				
IJDJ	25.10	230	eP	43	36.80	3.5X	SHW	47.13	67 eP	46 41.57	0.7	Z 22s	0.47um	4.6MsZ				
KDC	25.47	64	eP	43	34.74	-1.7	WTV	47.39	64 P	46 42.56	-0.3	epP	48	11.22	34km			
	0.7s	19.21nm			4.8mb		CVP	47.67	235 eP	46 45.60	0.3	SRU	58.25	66	iPc	48	03.64	-0.1
CN2	25.59	260	eP	43	37.00	-0.7		1.0s	90.00nm	5.7mb	PEC	58.43	75	eP	48	03.69	-1.2	
	1.0s	17.00nm			4.6mb		SAW	47.67	64 P	46 44.54	-0.5	epP	48	13.96	34km			
Z 15s	1.00um				4.5MsZ		RNO	47.78	70 P	46 46.58	0.6	KAF	58.43	337 iP	48	02.70	-1.8	
N 15s	0.37um						SSOR	47.87	69 P	46 46.77	0.1	0.4s	30.00nm	5.7mb				
E 15s	0.53um						DPW	48.19	63 eP	46 48.46	-0.7	PLM	58.99	75	eP	48	08.65	-0.4
	epP			43	43.00	21kmX	WAH2	48.19	65 P	46 48.73	-0.3	epP	48	18.60	33km			
BOD	26.05	297	eP	43	40.20	-1.7	VBEW	48.21	68 P	46 49.37	0.0	PV09	59.44	66	eP	48	11.49	-0.7
	0.7s	24.00nm			4.9mb		VGB	48.35	67 eP	46 49.98	-0.3	epP	48	22.02	35km			
PMR	26.49	55	eP	43	44.91	-0.9	NEW	48.50	62 ePd	46 50.52	-0.9	PV10	59.58	66	ePc	48	12.92	-0.2
	0.7s	19.76nm			4.8mb		1.0s	52.50nm	5.5mb	epP	48	23.45	35km					
Z 20s	0.59um				4.1MsZ		DBO	48.57	71 P	46 52.83	0.7	PV08	59.64	65	eP	48	13.13	-0.5
FBA	26.83	47	iPc	43	48.36	-0.6	CROR	48.58	68 P	46 52.08	-0.1	epP	48	23.17	33km			
	0.8s	23.11nm			4.9mb		GYA	48.59	257 P	46 51.40	-1.1	NUR	60.23	337 eP	48	15.80	-1.1	
WKYJ	27.20	232	P	43	52.40	-0.3	Z 24s	0.85um	4.6MsZ	0.4s	20.70nm			5.6mb				
TOA	27.81	53	eP	43	58.10	0.2	DAG	48.93	0 eP	46 54.00	-0.3	GLA	60.36	74	iPd	48	17.81	-0.4
SNY	27.90	259	Pc	43	59.00	0.2	1.0s	28.00nm	5.2mb	epP	48	28.11	34km					
	Z 19s	1.32um			4.5MsZ		VIPM	49.09	68 P	46 56.04	-0.2	GOL	60.52	62	eP	48	19.57	0.1
N 16s	1.03um						LNOR	49.44	65 P	46 58.54	-0.2	0.7s	7.78nm	4.9mb				
KLU	28.02	54	eP	43	58.89	-1.0	KMPM	49.90	74 eP	47 03.11	0.8	Z 20s	0.41um	4.6MsZ				
TKSJ	28.12	234	P	44	01.00	0.1	BRVK	50.12	308 eP	47 01.00	-2.8	GLD	60.56	62	eP	48	20.16	0.5
CIT	28.27	285	eP	44	10.00	7.8X	1.0s	22.00nm	5.1mb	1.4s	30.60nm			5.2mb				
BALM	29.81	54	eP	44	14.82	-1.2	SES	50.16	56 iPc	47 03.80	-0.4	Z 20s	1.80um	5.2MsZ				
KUMJ	30.85	237	eP	44	25.40	0.1	1.0s	42.00nm	5.4mb	epP	48	30.55	34km					
KAGJ	31.93	235	P	44	35.40	0.6		pP	47 14.00	34km	OBN	61.70	328 eP	48	26.00	-0.9		
BJI	33.32	263	eP	44	45.00	-1.7	LGPM	50.28	73 eP	47 05.66	0.3	i	49	06.80	174kmX			
SIT	34.50	59	P	45	10.00	13.2X	WDC	50.67	73 eP	47 07.94	-0.2	UPP	62.31	340 iP	48	30.10	-0.8	
	Z 19s	2.41um			4.9MsZ		FCC	51.84	40 ePc	47 19.00	2.3	KHT	62.40	256 eP	48	32.00	0.0	
NRI	34.97	324	iPc	44	58.00	-2.7	KMI	51.86	260 eP	47 15.80	-1.8	HFS	62.78	343 eP	48	32.00	-2.1	
	1.0s	20.00nm			5.0mb		Z 20s	1.10um	4.9MsZ	0.4s	16.60nm			5.5mb				
	e			46	34.00		ORV	51.95	73 iPc	47 17.23	-0.6	ALQ	63.52	67 iPc	48	39.21	-0.3	
TIA	35.39	257	eP	45	02.20	-2.5	PLP	51.97	228 ePc	47 19.00	0.8	0.7s	8.89nm	5.0mb				
MOY	35.41	291	eP	45	03.90	-0.7	1.0s	45.00nm	5.4mb	Z 19s	0.27um			4.4MsZ				
HHC	35.47	268	eP	45	02.00	-3.4X	NTYM	52.11	75 eP	47 18.92	-0.1	iPp	48	49.34	33km			
	Z 18s	0.85um			4.5MsZ		HMR	52.76	75 eP	47 24.67	0.8	esP	48	54.67				
N 11s	0.34um						LCCM	52.79	61 eP	47 23.50	-0.8	EEO	66.94	41 ePc	49	01.90	0.7	
E 11s	0.40um																	

01d 08h																				
EAU	69.25	351	eP	49	14.70	-0.7	1.0s	28.00nm	5.2mb	LPG	78.01	342	iPc	50	08.30	1.5				
EBL	69.28	351	eP	49	15.00	-0.6	74.75	44	eP	49	47.00	-1.2	0.9s	103.50nm	5.9mb					
IPM	69.44	248	ePc	49	17.10	0.0	75.09	342	P	49	50.28	0.1	LSF	78.12	346	iPc	50	07.60	0.6	
	0.9s	56.50nm	5.6mb				75.10	343	P	49	50.32	0.0	0.9s	35.85nm	5.4mb					
EKA	69.73	351	Pc	49	17.80	-0.5	75.19	338	iPc	49	52.10	1.2	VAY	78.20	330	iP	50	07.60	0.1	
	0.9s	56.10nm	5.6mb				0.8s	78.00nm	5.8mb				BOB	78.21	340	Pc	50	08.70	1.1	
UYO	70.32	59	iPd	49	20.50	-1.7				50	04.60	42km	RSP	78.25	342	P	50	08.07	0.1	
ELC	70.34	53	eP	49	21.02	-1.2	LIBD	75.30	342	P	49	51.46	0.2	RSM	78.38	338	P	50	09.90	1.5
			eP	49	31.54	34km	ECH	75.31	343	P	49	51.41	0.0	BNI	78.46	342	P	50	10.30	1.2
RSNY	70.41	39	eP	49	20.91	-1.7	WATA	75.32	339	iPc	49	52.10	0.5	MME	78.50	339	P	50	11.30	1.8
	0.8s	16.81nm	5.2mb							49	58.20	20kmX		0.9s	228.10nm	6.2mb				
Z	18s	0.26um	4.5Msz							50	02.30		COLF	78.51	344	P	50	10.17	0.9	
MIAR	70.46	58	eP	49	21.97	-1.1	WTTA	75.37	339	iPc	49	52.50	0.5	SFI	78.51	338	Pc	50	10.80	1.6
	0.8s	13.76nm	5.1mb				0.8s	29.00nm	5.3mb				BHB	78.55	342	P	50	09.21	-0.3	
CBM	70.54	34	eP	49	22.31	-1.0				50	11.90	72kmX	RRL	78.56	342	P	50	11.04	1.2	
	0.8s	23.96nm	5.3mb				MOTA	75.40	340	iPc	49	52.40	0.3	PGD	78.59	338	P	50	11.64	1.8
			eP	49	33.42	37km		0.9s	50.00nm	5.5mb				0.9s	140.70nm	6.0mb				
OLY	70.71	56	eP	49	22.76	-1.8				49	59.30	22kmX	PCP	78.60	341	P	50	09.90	0.1	
OJC	70.74	335	eP	49	25.00	0.5	CTA	75.48	195	iPc	49	52.50	-0.1	SSB	78.60	344	P	50	10.50	0.7
WIT	70.95	344	eP	49	27.00	1.3		1.0s	12.50nm	4.9mb			BDI	78.65	339	P	50	10.50	0.4	
KSP	70.99	337	iP	49	26.20	0.2	FEL	75.49	342	P	49	52.37	-0.2	ARV	78.68	337	P	50	11.00	0.8
	0.9s	44.00nm	5.5mb				SQTA	75.50	340	iPc	49	53.30	0.7	CKI	78.76	341	Pc	50	10.70	0.1
GRS	71.10	312	eP	49	26.00	-1.1		0.8s	51.20nm	5.6mb			CRE	78.77	338	Pc	50	11.60	0.8	
	1.1s	20.00nm	5.1mb							50	09.70	59kmX	FIR	78.78	338	e(P)	50	12.00	1.4	
CLL	71.25	340	iPc	49	27.40	-0.1	SLE	75.51	342	ePc	49	52.40	-0.1	DOI	78.88	341	P	50	10.40	-1.0
	1.2s	120.00nm	5.8mb				VITF	75.51	343	P	49	52.59	0.1	PZZ	78.91	342	P	50	10.86	-0.7
BRG	71.47	339	iPc	49	28.50	-0.4	GBA	75.56	273	Pc	49	52.00	-1.2	OHR	78.91	331	iP	50	10.30	-1.2
	1.0s	50.00nm	5.5mb				HAU	75.66	343	iPc	49	53.50	0.1		0.8s	67.00nm	5.7mb			
			i	49	43.50	53kmX		0.9s	62.75nm	5.6mb			ROB	78.97	341	P	50	11.64	-0.2	
DMU	71.47	353	iPd	49	29.20	0.4	Z	18s	0.22um	4.5Msz			SURF	78.98	342	P	50	13.02	1.0	
	0.8s	146.00nm	6.1mb				MOF	75.67	342	P	49	53.43	-0.1	FIN	78.98	341	P	50	10.95	-0.9
BNH	71.55	37	eP	49	28.26	-1.2	RBL	75.74	338	P	49	54.10	0.2	RJF	79.05	346	iPc	50	12.70	0.6
UZH	71.56	333	eP	49	27.20	-2.3	BSF	75.75	343	P	49	53.76	-0.2		1.1s	26.60nm	5.1mb			
			e	49	39.00	40km	FVI	75.77	338	P	49	53.90	0.0	Z	22s	0.25um	4.5Msz			
WTS	71.72	344	ePc	49	30.50	0.2	ZLA	75.80	342	Pc	49	54.40	0.2	ENR	79.12	341	P	50	11.22	-1.4
	0.7s	57.00nm	5.7mb				OGA	75.88	340	iPc	49	55.60	0.7	STV	79.12	341	P	50	11.36	-1.3
			e	49	46.50	58kmX		0.8s	30.00nm	5.3mb			ASS	79.15	337	P	50	13.40	0.6	
WME	71.75	351	eP	49	29.70	-0.8	FLN	75.92	348	iPc	49	54.60	-0.2	IMI	79.33	341	P	50	13.92	0.1
HYB	71.89	275	eP	49	29.50	-2.4		0.9s	59.30nm	5.6mb			CAF	79.34	345	iPc	50	15.00	1.2	
YRC	71.92	351	eP	49	30.30	-1.2	Z	18s	0.22um	4.5Msz				1.1s	61.05nm	5.5mb				
DLF	72.04	352	iPd	49	32.60	0.4	BBS	75.98	342	P	49	55.32	0.1	SBF	79.47	341	eP	50	15.50	1.0
	0.9s	125.00nm	5.9mb				LDF	76.04	347	iPc	49	55.20	-0.3	LFF	79.51	346	iPc	50	15.70	1.1
DCN	72.05	353	iPd	49	32.60	0.3		0.9s	29.65nm	5.3mb				1.1s	61.80nm	5.5mb				
	0.8s	103.00nm	5.9mb				LOMF	76.21	343	P	49	56.78	0.2	AOU	79.66	336	P	50	17.30	1.8
MOX	72.15	340	iPc	49	33.30	0.3	OSS	76.23	340	ePc	49	57.60	0.8	LPO	79.70	346	iPc	50	16.70	1.0
	1.1s	71.00nm	5.6mb				VBY	76.24	336	iPc	49	57.20	0.5		1.1s	87.40nm	5.7mb			
PRU	72.17	338	Pc	49	33.20	0.1	LLS	76.27	341	ePc	49	57.60	0.5	FRF	79.90	342	iPc	50	17.40	0.6
	1.0s	28.50nm	5.2mb				GRR	76.33	348	iPc	49	57.20	0.1		0.7s	16.55nm	5.1mb			
YRH	72.34	351	eP	49	33.60	-0.4		0.9s	71.10nm	5.7mb			LRG	80.06	342	iPc	50	18.60	1.0	
	1.1s	22.00nm	5.1mb				DZM	76.45	175	iPc	49	56.70	-1.4		0.9s	65.85nm	5.6mb			
HOF	72.42	340	iPc	49	34.70	0.1	CTI	76.53	339	Pc	49	58.20	-0.2	Z	21s	0.35um	4.7Msz			
	0.8s	34.00nm	5.4mb				VDL	76.55	340	ePc	49	59.60	1.0	LMR	80.15	342	iPc	50	19.00	0.9
LMN	72.55	32	eP	49	38.00	2.6	LPF	76.71	348	iPc	49	59.50	0.3		1.1s	60.55nm	5.5mb			
ETA	72.61	352	iPd	49	35.80	0.2	LOR	76.78	345	iPc	49	59.70	0.0	PGF	80.43	340	iPc	50	20.30	0.6
ECB	72.98	352	iPd	49	38.20	0.4		0.8s	61.80nm	5.7mb			HRI	80.83	316	iPc	50	22.40	0.4	
ENN	73.05	344	iPc	49	38.40	0.2	Z	19s	0.30um	4.6Msz			MGR	81.23	334	P	50	24.00	0.2	
	1.0s	91.00nm	5.7mb				TMA	77.03	341	iPc	50	01.70	0.4	EPF	81.44	346	iPc	50	25.60	0.6
ECP	73.14	352	iPd	49	39.00	0.3	SSF	77.03	345	iPc	50	01.20	0.2		1.2s	28.25nm	5.2mb			
	0.8s	269.00nm	6.3mb					0.8s	38.00nm	5.5mb			RMQ	81.46	191	iPc	50	35.50	10.5X	
GRF	73.14	340	iPc	49	39.70	0.9	LBF	77.03	344	iPc	50	01.00	-0.1		1.2s	34.00nm				
	0.9s	113.00nm	5.9mb					0.7s	16.20nm	5.2mb			MML	81.70	316	iPc	50	27.20	0.8	
MEM	73.19	344	iPc	49	39.11	0.1	MMK	77.26	341	ePc	50	03.60	1.0	MBH	84.25	315	iPc	50	29.90	0.2
KHC	73.19	339	iPc	49	39.60	0.4	AVF	77.32	345	iPc	50	03.00	0.4	ARMA	85.06	188	eP	50	44.50	1.0
	1.0s	25.00nm	5.2mb					0.9s	65.50nm	5.7mb				1.0s	9.00nm	4.9mb				
			e	49	48.00	27km	DIX	77.33	342	ePc	50	04.20	1.2	WARB	85.82	211	eP	50	47.60	0.4
ZST	73.28	336	eP	49	39.50	-0.1	SMF	77.39	344	iPc	50	03.30	0.3		0.5s	14.00nm	5.4mb			
			e	49	20.80			1.1s	51.05nm	5.5mb			CMS	86.75	193	eP	50	52.70	1.0	
WET	73.33	339	iPc	49	40.50	0.6	EMS	77.43	342	ePc	50	04.10	0.6		1.1s	8.00nm	4.9mb			
	0.8s	47.00nm	5.5mb				BGF	77.62	345	iPc	50	04.60	0.3	CNB	90.12	190	eP	51	08.40	0.7
SRO	73.34	335	eP	49	40.50	0.5		0.9s	21.45nm	5.2mb				0.9s	9.00nm	5.0mb				
			e	49	31.70		ORX	77.66	341	P	50	04.86	0.2	BCAO	113.61	319	ePKPd	56	46.00	-0.8
MLR	73.39	329	eP	49	41.50	1.0	ORO	77.66	341	P	50	05.20	0.5		0.6s	3.00nm				
			e	49	18.50		WRA	77.76	206	P	50	05.20	-0.1	TIC	117.96	345	PKP	56	54.60	-0.4
GEC2	73.44	338	Pc	49	40.90	0.3		0.8s	10.90nm	4.9mb			KIC	118.20	344	PKP	56	54.80	-0.7	
	0.8s	16.24nm	5.1mb				RSL	77.85	342	P	50	06.44	0.7	LIC	118.38	345	PKP	56	55.20	-0.6
SNF	73.55	345	iPc	49	40.92	-0.2	SKO	77.93	331	iP	50	11.00	5.0X	ZOBO	126.11	65	PKP	57	11.00	-0.4
POO	73.73	279	eP	49	38.50	-4.2X		1.0s	42.00nm	5.4mb				LR	41	08.00				
DOU	73.91	345	Pc	49	43.10	-0.1	LSD	77.98	342	P	50	07.65	1.1	LPB	126.33	65	ePKP	57	13.00	1.4
	0.7s</																			

BMA 142.84 41 (PKP) 57 38.00 -3.7X
S.D. = 0.9 on 293 of 317 obs.

FEB 01, 1993 09h 17m 01.21±0.28s
44.109 N ± 2.9km 19.439 E ± 3.2km
DEPTH = 5.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 3.6 (TTG), 3.5 (VIE). Felt
(V) in the Bojino Bosto oreo,
Yugoslavia.

PLE 0.78 182 iPg 17 14.51 -2.4
iSg 17 24.71
BEO 1.02 45 ePg 17 23.50 2.6X
iSg 17 38.93
IVA 1.28 165 iPg 17 24.14 -1.3
iSg 17 41.63
NKY 1.33 194 iPg 17 24.95 -1.4
iSg 17 43.23
BRY 1.37 209 iPg 17 25.76 -1.3
iSg 17 44.62
PVY 1.56 165 iPg 17 29.56 -0.2
iSg 17 51.28
TTG 1.68 184 iPnd 17 31.40 0.0
iSn 17 54.68
HCY 1.80 203 iPnd 17 33.42 0.3
iSn 17 58.74
BOV 1.88 194 iPnd 17 35.26 1.0
iSn 18 01.02
ULC 2.15 184 iPnd 17 39.00 0.8
iSn 18 07.67
HVAR 2.36 248 iPnd 17 41.00 -0.3
UZD 2.56 347 iPn 17 44.50 0.5
SKO 2.59 145 iPn 17 45.00 0.5

0.8s 173.00nm
iPb 17 50.10
iSb 18 28.50
iSg 18 31.40
Lg 18 39.00
GZR 2.70 60 iPc 17 47.00 0.8
ZAG 2.99 306 e(Pn) 17 51.10 1.0
PTJ 3.05 307 iPn 17 50.50 -0.6
eSn 18 36.60
VTS 3.14 118 iPd 17 53.00 0.6
VBY 3.29 297 iPn 17 55.20 0.8
i 18 24.50
KKB 3.49 129 iPd 17 58.00 0.8
VAY 3.62 139 iPn 17 59.40 0.4
SRO 3.79 348 iPn 18 02.00 0.5
i 18 03.10

i(Sn) 18 50.20
Lg 18 57.80
RIY 3.81 291 iP 18 02.50 0.7
CEY 3.92 296 ePn 18 03.50 0.2
e 18 13.50
e(Sn) 19 08.50
LJU 3.98 301 e(Pn) 18 04.30 0.1
e 18 13.00
e 18 15.50
e(Sn) 19 12.00

MMB 4.04 127 iPd 18 06.00 1.0
SOP 4.10 332 eP 18 05.00 -0.9
CEI 4.15 29 eP 18 26.00 19.4X
CMP 4.16 72 ePc 18 15.00 8.3X
TRI 4.34 294 ePnd 18 09.50 0.2
e 18 16.30

TRI 4.34 294 ePg 18 20.70 11.4X
e 18 50.20
eSn 18 56.10
eSg 19 15.00
eSgSg 19 20.80
iLO 19 26.30
PVL 4.37 100 eP 18 09.00 -0.7
VOY 4.37 298 iPnc 18 09.60 -0.3
e 18 22.90
e(Sn) 18 57.50
e 19 21.80

ZST 4.40 339 ePn 18 08.90 -1.2
i 18 15.40
i 18 34.90
i 18 58.90
i 19 11.70
Lg 19 35.00
RZN 4.57 120 eP 18 13.00 0.3
SGO 4.69 222 P 18 14.30 0.1
VKA 4.69 334 iPnc 18 13.50 -0.8

ARV 4.74 265 P 18 18.00 2.9X
eSn 19 17.00
AQU 4.75 250 P 18 17.00 1.8
RBL 4.75 301 P 18 14.70 -0.6
eSn 19 14.00
SDI 4.78 242 P 18 15.50 -0.1
MGR 4.91 217 P 18 16.80 -0.6
ASS 5.03 260 P 18 20.50 1.3
eSn 19 23.50

ISR 5.18 76 eP 18 30.00 8.8X
KBA 5.21 307 iPnc 18 19.60 -2.2
i 18 21.50
FVI 5.31 300 P 18 22.90 -0.2
eSn 19 28.00
CRE 5.43 268 P 18 25.80 0.8
VRI 5.46 69 eP 18 22.00 -3.2X
SFI 5.48 271 P 18 27.80 2.4
CTI 5.85 292 P 18 30.00 -0.7
WTTA 6.31 303 iPnc 18 37.60 0.2
i 19 12.30

WATA 6.38 303 iPnc 18 38.40 0.1
i 19 00.80
KHC 6.44 323 eP 18 38.40 -0.7
0.8s 6.00nm 4.6mb
e 18 53.50
e 20 42.50
OGA 6.53 298 eP 18 40.10 -0.4
i 18 42.10
SOTA 6.55 301 iPnc 18 41.50 0.8
i 18 49.10
PRU 6.77 332 eP 18 50.00 6.4X
e 20 09.50

KSP 7.07 344 ePn 18 50.80 3.0X
ePg 19 13.00
eS 20 00.00
EDC 7.29 118 ePn 19 25.50 34.5X
BNT 7.33 118 ePn 19 24.70 33.3X
KCT 7.66 117 ePn 19 21.70 25.5X
DST 8.20 120 iPg 19 10.90 7.2X
iSg 19 13.90
MOX 8.42 324 eP 19 05.80 -0.9
e 21 40.20
LPG 9.13 283 eP 19 16.70 -0.1
0.8s 9.40nm 5.2mb
LPL 9.14 283 eP 19 16.90 -0.1
S.D. = 1.0 on 50 of 63 obs.

& FEB 01, 1993 09h 33m 07.89s
64.363 N 147.333 W
DEPTH = 0.0km
CENTRAL ALASKA (1)
<AEIC>. ML 2.5 (AEIC). Felt in
the Fairbanks area.

HDA 0.17 75 iP 33 11.21 -0.1
CCB 0.35 325 iP 33 14.53 -0.4
FBA 0.57 340 iP 33 18.74 -0.6
eS 33 26.62
GLM 0.63 358 iP 33 19.57 -0.8
S 33 28.45
MDM 0.71 328 iP 33 21.37 -0.7
S 33 31.37

NEA 0.79 287 iP 33 22.68 -0.9
eS 33 34.20
MCK 0.95 229 iP 33 25.68 -1.1
RND 1.17 216 eP 33 29.90 -0.9
S 33 46.29
THY 1.18 143 eP 33 30.62 -0.2
eS 33 46.80
TRF 1.60 236 eP 33 36.70 -0.9
eS 33 59.39

DOT 1.61 115 iP 33 37.31 -0.4
eS 33 59.17
PAX 1.63 148 eP 33 37.88 -0.1
eS 33 59.40
HUR 1.73 217 eP 33 40.18 0.8
SDG 2.01 156 eP 33 42.60 -0.9
TMW 2.19 117 eP 33 45.65 -0.4
TOA 2.33 166 eP 33 48.76 0.6
SCM 2.54 180 eP 33 50.50 -0.6
SML 2.60 191 eP 33 52.79 0.8
GHO 2.70 196 eP 33 54.13 0.7
KLU 2.95 167 eP 33 57.73 0.7
PWA 2.96 204 eP 33 56.65 -0.4

KNK 3.01 190 eP 33 57.53 -0.2
SKT 3.06 220 eP 33 58.37 0.0
IMA 3.17 305 eP 34 00.60 0.4
PMS 3.29 199 eP 34 02.60 0.8
25 obs. associated

FEB 01, 1993 09h 45m 39.26±0.53s
42.072 N ± 5.4km 143.116 E ± 6.2km
DEPTH = 66.0 ± 5.5 km
4.5mb (13 obs.)
HOKKAIDO, JAPAN REGION (224)

HDOJ 0.34 22 iPd 45 49.90 -0.5
S 45 57.00
MRRJ 1.56 284 iP+ 46 06.10 0.8
eS 46 26.10
KUSJ 1.56 48 iP+ 46 05.20 -0.1
S 46 25.50
SAP 1.65 307 eP 46 08.00 1.5
eS 46 28.00
ASAJ 2.07 351 iP+ 46 13.40 1.0
eS 46 40.60

AOMJ 2.56 235 P 46 20.40 1.2
S 46 51.20
OFUJ 3.19 201 iPd 46 27.00 -0.2
S 47 03.30
SHO 3.24 55 ePn 46 24.50 -4.3X
eS 47 02.50
YAMJ 4.55 212 P 46 47.50 0.3
eS 47 42.40
KUR 4.68 46 iPnd 46 49.00 0.1
YSS 4.95 357 ePnc 46 52.20 -0.6
eS 47 44.00

NIIJ 5.78 215 P 47 04.40 0.1
KAKJ 6.29 202 P 47 08.90 -2.6
S 48 16.70
MAT 6.71 216 iPd 47 17.00 -0.3
0.7s 22.60nm 4.9mb X
(S) 48 37.00
CHJJ 6.82 209 P 47 17.60 -1.2
MTMJ 6.85 219 P 47 20.20 0.8
SKR 12.41 42 ePn 48 16.00 -18.8X
MGD 18.66 12 eP 49 50.00 -4.2X
BJI 20.39 273 eP 50 11.00 -1.9
TIA 20.95 262 eP 50 16.90 -1.8
SEY 21.57 12 eP 50 22.00 -2.7
0.8s 30.00nm 4.7mb

TIY 23.87 270 eP 50 50.00 2.5
BOD 24.14 321 eP 50 48.30 -1.5
MOY 29.98 303 eP 51 43.00 -0.3
GTA 32.66 280 eP 52 07.40 0.3
1.0s 5.00nm 4.3mb
ILT 32.92 25 eP 52 06.00 -2.9
WMO 39.96 292 eP 53 10.00 1.3
IMA 41.72 33 eP 53 22.65 -0.3
0.7s 4.18nm 4.3mb

PMS 43.69 40 eP 53 40.20 1.3
FBA 44.18 35 eP 53 43.17 0.4
0.6s 5.46nm 4.5mb
TOA 45.19 39 eP 53 52.80 1.8
KLU 45.39 40 eP 53 53.05 0.4
BALM 47.18 40 eP 54 06.98 0.2
GUN 48.13 272 P 54 15.54 0.6
BRVK 48.33 309 eP 54 14.00 -1.6
1.4s 13.00nm 4.7mb
KKK 48.64 272 P 54 19.34 0.7
PKI 48.67 272 P 54 17.92 -1.1
DMN 48.87 272 P 54 21.06 0.6
GKN 49.01 273 P 54 23.02 1.6
RES 57.40 16 eP 55 22.50 -0.1
0.5s 2.00nm 4.5mb

WRA 62.23 189 P 55 56.50 0.2
0.8s 1.90nm 4.3mb
KAF 64.45 332 iP 56 09.40 -1.0
0.5s 3.10nm 4.5mb
NEW 65.65 46 eP 56 19.00 0.6
1.0s 6.00nm 4.5mb
ASPA 65.96 189 eP 56 21.40 0.9
0.8s 4.80nm 4.5mb
NUR 66.14 332 eP 56 20.50 -0.7
0.4s 11.40nm 5.2mb
ORV 68.32 56 eP 56 36.00 0.6
KIV 68.63 310 P 56 47.40 10.0X
0.9s 29.00nm
FCC 68.93 28 eP 56 41.50 2.8X
LCCM 69.97 46 eP 56 46.20 0.6
HFS 70.04 336 eP 56 44.60 -0.9

01d 09h

RSSD 0.4s 3.90nm 4.6mb
75.23 43 eP 57 16.29 -0.4
0.4s 1.23nm 4.2mb
PV10 76.50 50 eP 57 26.07 2.1
SIV 146.72 46 PKP 05 22.20 8.6X
S.D. = 1.3 on 47 of 53 obs.

% FEB 01, 1993 09h 50m 01.56± 0.94s
31.274 S ±10.1km 68.284 W ± 7.0km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.17 251 iPc 50 04.50 -0.9
CFA 0.33 173 ePc 50 07.90 -0.6
S 50 14.20
RTCB 0.49 244 e(P) 50 12.20 0.7
RTPR 1.81 58 ePd 50 33.20 0.3
TCA 3.16 92 e(P) 50 52.00 -0.4
S 51 30.00
RFA 3.49 182 e(P) 50 58.00 0.9
(S) 51 51.80
S.D. = 1.0 on 6 of 6 obs.

FEB 01, 1993 10h 37m 54.14± 0.47s
37.355 N ± 6.9km 69.037 E ± 6.0km
DEPTH = 33.0km (normal)
4.5mb (14 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

KSH 5.84 67 ePn 39 23.00 2.1
0.5s 20.00nm 5.0mb
FRU 6.94 36 ePn 39 36.00 -0.2
e 41 36.00
QUE 7.36 194 eP 39 41.90 -0.2
eS 42 47.40
MAIO 7.73 265 eP 39 45.00 -2.2
eS 41 30.00
ASH 8.50 277 eP 39 54.00 -3.9X
PRZ 8.83 52 eP 40 03.00 0.4
0.6s 20.00nm 5.4mb
NDI 11.04 139 iPd 40 34.00 1.3
NDI 11.04 139 iPd 40 39.00 6.3X
0.5s 28.17nm 5.7mb X
WMO 15.56 60 P 41 37.00 4.3X
1.0s 21.00nm 4.3mb

BRVK 15.73 3 iPd 41 31.00 -3.7X
0.8s 22.00nm 4.4mb
eS 44 16.00
GKN 16.09 121 P 41 38.02 -1.6
DMN 16.66 121 P 41 46.48 -0.5
KKK 16.67 120 P 41 46.22 -0.7
PKI 16.89 121 P 41 49.28 -0.6
GUN 17.01 119 P 41 51.74 0.4
GRS 17.91 284 eP 42 04.00 1.6
1.0s 20.00nm 4.2mb
ELT 19.90 32 eP 42 23.50 -2.0
1.0s 14.00nm 4.2mb
eS 46 03.00

PYA 20.75 297 eP 42 36.00 1.6
KIV 21.00 297 P 42 37.90 0.8
1.2s 28.00nm 4.5mb
HYB 21.56 155 ePd 42 44.90 2.0
GTA 24.16 76 eP 43 11.50 3.2X
1.0s 19.00nm 4.6mb
pP 43 19.00 27kmX
GBA 24.81 160 P 43 18.00 3.4X
NRI 33.73 12 eP 44 35.00 0.8
0.8s 14.00nm 4.9mb
TIY 34.19 76 eP 44 41.60 3.0X
BOD 35.80 40 iPc 44 50.60 -1.4
0.7s 7.00nm 4.7mb

HFS 41.42 322 eP 45 37.80 -0.9
0.6s 4.30nm 4.3mb
TIK 45.58 23 eP 46 12.00 -0.2
1.0s 7.00nm 4.5mb
BCAO 56.51 247 iPd 47 35.00 -0.7
0.9s 9.00nm 4.8mb
YKA 80.45 2 eP 50 03.90 0.4
0.7s 1.70nm 4.2mb
S.D. = 1.3 on 22 of 29 obs.

? FEB 01, 1993 11h 08m 52.47± 1.17s
30.816 S ±11.4km 117.097 E ±14.2km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL 0.40 302 eP 09 00.10 -0.5
iS 09 04.90
KL8 0.96 144 eP 09 10.50 -0.2
eS 09 22.90
MUN 1.39 213 eP 09 18.10 0.3
eS 09 35.40
MRWA 1.86 329 eP 09 25.00 0.4
eS 09 48.00
S.D. = 0.7 on 4 of 4 obs.

FEB 01, 1993 11h 50m 34.56± 0.46s
25.990 N ± 7.3km 101.203 E ± 5.5km
DEPTH = 10.0km (geophysicist)
4.5mb (12 obs.)
YUNNAN, CHINA (318)
ML 4.5 (BJI).

KMI 1.63 122 Pg 51 04.00 0.3
Sg 51 22.00
GYA 4.93 83 Pg 52 07.60 17.1X
Z 12s 2.40um
CD2 5.39 24 Pg 52 20.20 23.2X
Sg 53 26.30
LOE 8.56 177 ePn 52 41.00 -0.4
ePg 53 33.00
eSg 54 02.00
BDT 8.94 194 eP 52 49.00 2.3
1.2s 263.30nm 6.5mb X

LSA 9.63 295 P 52 58.00 1.3
NST 10.31 186 iPg 52 54.00 -11.6X
eSg 54 28.40
LZH 10.32 12 eP 53 10.20 4.4X
Z 12s 0.84um
pP 53 21.00
XAN 10.44 38 P 53 05.50 -1.9
0.7s 23.00nm 5.7mb X
pP 53 12.30
S 54 59.30

OIZ 10.57 129 eP 53 13.40 4.3X
WHN 12.44 66 eP 53 32.50 -2.0
Z 16s 2.37um
GTA 13.43 355 eP 53 53.00 5.2X
1.5s 11.00nm 4.7mb
Z 10s 1.03um
E 11s 0.85um
pP 54 01.50
sP 54 05.00

GUN 13.80 281 P 53 52.28 -0.7
PKI 14.20 280 P 53 57.14 -1.0
KKK 14.32 281 P 53 58.34 -1.3
DMN 14.47 280 P 54 00.08 -1.5
GKN 14.90 281 P 54 06.08 -1.2
TIY 15.07 36 eP 54 10.00 0.7
Z 11s 1.24um
N 12s 2.21um
E 12s 1.21um
pP 54 21.70

BTO 16.31 25 eP 54 25.50 0.2
N 10s 1.17um
E 10s 1.08um
NJ2 16.57 65 eP 54 30.40 1.9
Z 12s 0.68um
N 10s 1.24um
TIA 17.00 49 eP 54 33.60 -0.3
Z 20s 1.23um
N 10s 0.97um
E 10s 1.08um
HMC 17.14 28 eP 54 35.80 0.1
Z 12s 2.29um
pP 54 43.50
eS 57 40.00

SSE 18.27 69 Pd 54 47.00 -2.8
0.7s 7.00nm 3.9mb
Z 16s 0.90um 4.1mszX
S 58 08.00
BJI 18.78 38 eP 54 58.00 2.1
Z 14s 0.53um
N 11s 0.82um
WMQ 20.91 332 P 55 24.50 4.9X
1.5s 16.00nm 4.2mb
pP 55 36.00 48kmX

NDI 21.47 283 eP 55 30.00 4.7X
HYB 22.68 252 eP 55 38.50 1.0
SNY 24.27 44 Pd 55 55.00 2.2
Z 14s 0.59um 4.2mszX
KSH 25.01 309 eP 56 05.40 5.3X
0.8s 20.00nm 4.9mb

GBA 25.48 246 P 56 06.00 1.5
CN2 26.52 42 eP 56 15.00 1.0
0.6s 4.70nm 4.4mb
WB2 55.87 142 iPc 00 13.10 -1.7
0.6s 7.10nm 4.9mb
ASPA 58.64 145 eP 00 33.00 -1.4
1.2s 6.50nm 4.6mb
GEC2 69.32 315 P 01 45.00 0.7
0.8s 0.88nm 4.0mb
e 01 47.70
e 01 51.30

LPG 74.89 313 eP 02 18.50 0.8
0.7s 5.30nm 4.7mb
LPL 74.89 313 eP 02 18.40 0.8
0.6s 5.05nm 4.7mb
BCAO 81.49 271 ePd 02 53.60 -0.5
0.4s 3.00nm 4.7mb
YKA 87.30 16 eP 03 22.50 0.0
0.6s 0.70nm 4.1mb
S.D. = 1.4 on 29 of 38 obs.

* FEB 01, 1993 14h 16m 08.05± 0.63s
54.573 N ±12.2km 161.576 E ±15.0km
DEPTH = 33.0km (normal)
4.5mb (11 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

IMA 24.36 44 eP 21 23.80 0.0
0.7s 4.90nm 4.2mb
FBA 26.76 47 eP 21 45.90 -0.3
1.0s 0.90nm 3.3mb X
KAF 58.46 337 iP 26 01.50 -1.0
0.2s 1.80nm 4.8mb
NUR 60.26 337 eP 26 14.10 -0.8
0.4s 3.50nm 4.8mb
GEC2 73.47 339 P 27 32.80 -5.8X
0.6s 0.28nm 3.5mb X
e 27 38.50

CDF 75.13 343 eP 27 48.20 0.0
LOR 76.80 345 eP 27 57.30 -0.3
0.6s 3.05nm 4.5mb
SSF 77.05 345 eP 27 58.90 -0.1
0.9s 5.40nm 4.6mb
AVF 77.34 345 eP 28 00.60 0.0
0.7s 3.10nm 4.4mb
WRA 77.80 206 P 28 03.00 -0.3
0.6s 0.50nm 3.7mb

MAF 78.01 345 eP 28 04.80 0.5
0.9s 4.60nm 4.5mb
LPL 78.02 342 eP 28 05.70 1.1
0.9s 6.20nm 4.6mb
LPG 78.04 342 eP 28 05.90 1.1
0.7s 4.65nm 4.6mb
ASPA 81.47 206 eP 28 23.10 0.1
0.7s 2.90nm 4.4mb
S.D. = 0.7 on 13 of 14 obs.

% FEB 01, 1993 15h 07m 08.67± 0.84s
39.072 N ± 6.9km 27.691 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.75 207 iPg 07 23.50 0.1
iSg 07 35.00
DST 0.90 53 iPn 07 25.80 -0.2
EDC 1.28 6 ePn 07 32.50 0.1
KCT 1.28 23 ePn 07 32.40 -0.1
BNT 1.29 8 ePn 07 32.90 0.3
EZK 1.30 306 ePn 07 32.50 -0.2
S.D. = 0.2 on 6 of 6 obs.

% FEB 01, 1993 15h 26m 56.10± 1.17s
41.157 N ±10.1km 29.046 E ± 7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK). Felt at Istanbul.

ISK 0.09 174 iPg 26 57.90 -0.8
CTT 0.47 269 iPg 27 05.40 -0.2
eSg 27 09.90
HRT 0.58 125 ePg 27 07.40 -0.4
YLV 0.64 157 iPg 27 09.40 0.4
BNT 1.17 227 iPn 27 17.90 -0.1
DMK 1.17 305 ePn 27 18.40 0.4
EDC 1.21 228 ePn 27 17.50 -1.1
DST 1.58 192 ePn 27 25.80 1.5

S.D. = 1.0 on 8 of 8 obs.						DEPTH = 269.1 ± 14.7 km NORTH ISLAND, NEW ZEALAND (159)						0.5s 2.20nm					
* FEB 01, 1993 15h 34m 48.11 ± 2.90s 14.830 N ± 7.5km 60.323 W ± 32.4km DEPTH = 33.0km (normal) WINDWARD ISLANDS (95) MD 3.3 (TRN).						BSZ 0.87 175 P 40 33.60 0.4 MNG 1.76 164 Pc 40 39.10 0.1 S 41 07.10 URZ 1.91 70 Pc 40 39.50 -0.6 eS 41 08.50 KIW 1.94 178 P 40 40.40 0.0 DIW 2.00 200 P 40 41.20 0.3 CAW 2.19 175 Pc 40 42.60 0.0 MTW 2.29 167 Pc 40 43.30 -0.2 MRW 2.31 182 Pc 40 43.70 0.0 eS 41 15.90 WEL 2.36 181 P 40 44.10 0.0 BLW 2.49 169 P 40 45.30 -0.1 MOW 2.51 173 P 40 45.50 -0.2 NOZ 2.53 84 eP 40 46.30 0.5 ORZ 2.60 222 P 40 46.10 -0.4 THZ 3.19 207 eP 40 52.70 0.0 eS 41 33.50 KHZ 3.62 195 P 40 57.70 0.4 DSZ 3.65 218 P 40 57.70 0.0 LTZ 4.31 206 P 41 05.50 0.2 MQZ 5.05 198 eP 41 13.00 -1.0 eS 42 10.30 ODZ 6.86 206 eP 41 36.90 0.6 S.D. = 0.4 on 19 of 19 obs.						HAU 117.34 321 ePKP 01 44.80 -1.0 LPG 117.99 319 ePKP 01 47.40 0.0 0.4s 2.40nm LPL 118.00 319 ePKP 01 47.30 -0.1 0.4s 3.50nm LOR 119.17 321 ePKP 01 49.20 -0.1 LBF 119.21 321 ePKP 01 49.20 -0.2 0.4s 1.60nm SSF 119.48 321 ePKP 01 49.90 0.1 0.5s 3.65nm AVF 119.68 321 ePKP 01 49.90 -0.3 0.4s 1.55nm BGF 120.10 321 ePKP 01 51.30 0.3 0.5s 6.40nm MAF 120.41 321 ePKP 01 52.10 0.5 TCF 120.61 321 ePKP 01 52.30 0.3 LPF 121.80 324 ePKP 01 54.40 0.2 MFF 121.93 322 ePKP 01 54.70 0.2 0.5s 7.05nm LFF 122.12 320 ePKP 01 56.70 1.8 KIC 135.52 272 PKP 02 22.70 1.2 YJA 147.38 152 ePKPc 02 45.30 2.6X CNCB 150.41 142 iPKPc 02 55.00 7.3X LPB 150.55 142 ePKP 03 04.00 16.3X ZOBO 150.72 141 iPKPc 02 55.00 6.8X S.D. = 0.9 on 46 of 53 obs.					
S.D. = 0.4 on 7 of 7 obs.																	
* FEB 01, 1993 16h 04m 08.90 ± 0.66s 7.625 N ± 11.8km 76.407 W ± 7.2km DEPTH = 33.0km (normal) 4.2mb (3 obs.) NORTHERN COLOMBIA (99)						FEB 01, 1993 16h 43m 06.22 ± 1.03s 6.623 S ± 4.7km 130.478 E ± 7.7km DEPTH = 67.5 ± 9.8 km 4.7mb (12 obs.) BANDA SEA (280)						FEB 01, 1993 18h 54m 49.26 ± 0.90s 7.853 S ± 6.3km 74.373 W ± 9.2km DEPTH = 156.1 ± 9.3 km 4.6mb (21 obs.) PERU-BRAZIL BORDER REGION (112)					
BMG 3.35 99 iPc 04 46.00 -14.3X UPA 3.38 294 iPd 05 02.15 1.6 iS 05 44.43 ECO 3.68 298 iPc 05 05.22 0.3 eS 05 48.10 BOG 3.78 142 eP 05 12.00 5.4X eS 06 04.00 SDV 5.85 77 iPnd 05 38.30 2.5X iSn 06 46.90 BRU 6.20 281 eP 05 40.21 -0.8 TOV 6.88 71 ePn 05 52.30 2.1 eSn 07 11.60 CEOS 8.11 80 iPc 06 06.90 -0.5 iS 06 18.20 OLLA 9.78 75 iP 06 29.60 -1.0 ZOBO 25.13 161 P 09 33.00 -0.3 1.0s 7.75nm 4.3mb LPB 25.37 161 P 09 36.00 0.6 CNCB 25.67 161 P 09 38.20 -0.1 YKA 61.42 341 eP 14 22.20 -1.9 0.6s 2.20nm 4.5mb GEC2 84.39 42 P 16 41.80 2.4X 1.1s 1.09nm 3.9mb WB2 147.79 244 iPKPd 23 52.30 2.4X 0.7s 4.20nm WRA 147.80 244 PKP 23 53.70 3.8X 0.6s 1.30nm S.D. = 1.4 on 10 of 16 obs.						SWI 5.77 8 ePc 44 32.50 1.2 iS 45 32.00 MTN 6.22 174 iPc 44 37.30 -0.2 WB2 13.77 165 iPc 46 15.00 -4.8X eS 48 39.70 CGP 16.05 339 ePd 46 54.00 4.8X 0.5s 17.00nm 4.4mb PMG 16.75 101 eP 46 58.00 0.0 ASPA 17.26 169 eP 47 01.50 -2.9 eS 50 00.30 WARB 19.79 190 eP 47 34.40 0.5 0.4s 10.00nm 4.5mb CTA 20.34 133 iPc 47 39.00 -0.6 1.0s 15.00nm 4.3mb NANU 21.42 221 eP 47 51.50 1.0 MEEK 22.89 208 eP 48 07.00 2.0 BRS 29.58 137 iPd 49 06.90 -0.2 BFD 32.34 162 eP 49 32.00 0.8 TOO 33.70 158 eP 49 44.20 1.1 NST 37.34 397 ePc 50 38.00 24.0X KHT 38.10 304 iPc 50 20.80 0.3 SSE 38.54 347 Pc 50 24.00 0.0 0.8s 9.00nm 4.7mb WHN 40.06 338 eP 50 38.00 1.4 XAN 45.30 335 P 51 18.80 -0.4 0.8s 4.40nm 4.4mb TIY 47.21 340 Pc 51 34.60 0.3 BJI 48.27 345 eP 51 42.00 -0.4 0.7s 13.00nm 5.0mb HHC 50.34 341 Pd 51 58.40 0.0 1.2s 14.00nm 4.9mb CN2 50.39 355 eP 51 58.00 -0.6 0.6s 9.30nm 5.0mb LSA 52.26 316 Pd 52 14.40 0.8 GTA 53.87 331 eP 52 25.00 0.1 1.0s 8.00nm 4.7mb GUN 55.07 311 P 52 33.50 -0.6 0.7s 80.00nm 5.9mb X PKI 55.24 310 P 52 34.34 -1.1 0.8s 22.00nm 5.2mb KKN 55.46 310 P 52 36.24 -0.5 DMN 55.49 310 P 52 36.46 -0.6 GKN 56.05 310 P 52 40.44 -0.5 GBA 56.36 291 P 52 42.00 -1.1 HYB 56.58 296 eP 52 43.50 -1.2 WMQ 63.34 327 P 53 31.00 0.4 1.5s 11.00nm 4.7mb YAK 68.44 360 iPc 54 02.00 -0.7 0.8s 57.00nm 5.6mb GEC2 112.44 320 PKP 01 36.20 -0.2 0.4s 1.07nm						NNA 4.77 210 eP 56 00.80 0.1 0.8s 26.12nm eS 56 52.50 ZOBO 10.37 145 P 57 15.60 -0.1 LPB 10.58 145 eP 57 18.00 -0.3 CNCB 10.87 146 eP 57 17.00 -5.2X YJA 16.60 150 e(P) 58 35.50 0.6 SDV 17.04 13 eP 58 39.50 -0.5 TOV 18.11 15 eP 58 51.40 -0.8 MORO 19.55 18 iPc 59 09.20 1.8 iS 59 11.90 LCCM 63.10 331 eP 05 01.50 -0.9 FCC 68.27 349 eP 05 36.00 1.1 LIC 70.56 81 P 05 48.62 -1.1 0.6s 1.50nm 4.0mb TIC 70.64 80 P 05 49.22 -1.0 0.7s 13.50nm 4.9mb KIC 70.87 80 Pd 05 50.74 -0.8 0.5s 12.50nm 5.0mb YKA 76.65 342 eP 06 22.00 -2.0 0.6s 3.20nm 4.2mb EPF 84.30 45 eP 07 05.60 0.7 1.0s 11.60nm 4.7mb LPF 84.83 40 eP 07 07.10 -0.2 MFF 84.99 42 eP 07 08.20 0.1 0.7s 7.05nm 4.6mb GRR 85.05 40 eP 07 08.20 -0.2 0.7s 6.05nm 4.5mb LFF 85.11 44 eP 07 09.00 0.2 0.8s 13.45nm 4.8mb LPO 85.35 44 eP 07 10.10 0.1 0.7s 8.25nm 4.7mb FLN 85.40 40 eP 07 10.00 -0.2 0.9s 9.50nm 4.6mb LDF 85.58 40 eP 07 10.80 -0.3 1.0s 10.40nm 4.6mb RJF 85.74 43 eP 07 11.90 0.0 0.9s 7.85nm 4.5mb CAF 86.01 44 eP 07 13.40 0.1 0.8s 4.05nm 4.3mb MAF 86.69 43 eP 07 16.60 0.0 0.8s 3.75nm 4.3mb BGF 86.96 42 eP 07 18.00 0.2 0.9s 9.50nm 4.7mb DOU 88.95 39 Pc 07 27.20 0.0 LPL 89.36 44 eP 07 29.90 0.3 0.7s 4.95nm 4.6mb LPG 89.37 44 eP 07 30.10 0.4 0.9s 10.15nm 4.8mb WLF 89.84 40 P 07 33.00 1.7 BSF 89.87 42 eP 07 32.00 0.2 ENN 89.93 39 eP 07 32.00 0.2 1.0s 12.00nm 4.9mb					
S.D. = 1.0 on 15 of 15 obs.																	
% FEB 01, 1993 16h 39m 56.54 ± 1.45s 38.926 S ± 12.0km 174.829 E ± 10.6km						BSF 117.12 321 ePKP 01 44.50 -1.0											

LPO 84.21 314 eP 52 02.50 0.6
0.5s 2.50nm 4.3mb
FLN 84.63 318 eP 52 04.10 0.2
GRR 84.95 318 eP 52 06.20 0.7
0.5s 3.05nm 4.4mb
LPF 85.13 318 eP 52 07.00 0.6
S.D. = 0.8 on 31 of 34 obs.

* FEB 01, 1993 22h 12m 05.99±1.28s
36.173 N ± 6.8km 7.734 W ± 14.1km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
STRAIT OF GIBRALTAR (385)
MD 3.2 (RBA). mbLg 3.1 (MDD).

GIBL 1.58 65 eP 12 43.00 8.9X
PLAT 1.60 91 eP 12 37.00 2.6
EVAL 1.62 29 ePn 12 34.80 0.2
eSn 12 51.80

TSY 1.64 119 iP 12 35.00 0.1
iS 12 50.50

OJEN 1.78 92 eP 12 42.50 5.4X
EJIF 1.85 81 ePn 12 38.40 0.4
EPRU 2.16 68 ePn 12 42.00 -0.6
eSn 13 04.60

EHOR 2.58 50 ePn 12 47.50 -1.0
eSn 13 13.00

AVE 2.88 175 ePn 12 54.00 1.2
i 13 03.50
iSn 13 24.50
i 13 31.00

IFR 3.41 140 iPn 12 59.00 -1.4
i 13 00.00
iSn 13 34.50

EGUA 3.42 78 ePn 12 59.70 -0.8
eSn 13 35.00

ECOG 3.52 71 ePn 13 01.20 -0.8
eSn 13 37.30

EPLA 4.10 18 ePn 13 10.00 0.0
eSn 13 51.40

PAB 4.30 37 eP 13 57.00 44.0X
TIO 5.25 176 iPn 13 25.50 -1.0
iSn 14 20.50

GUD 5.27 31 ePn 13 26.00 -0.8
GEC2 20.17 44 P 16 45.30 2.0
0.6s 0.71nm 3.2mb

S.D. = 1.3 on 14 of 17 obs.

FEB 01, 1993 22h 41m 06.24±0.66s
33.255 N ± 5.7km 46.517 E ± 6.9km
DEPTH = 88.7 ± 8.0 km
4.7mb (10 obs.)

IRAN-IRAQ BORDER REGION (346)
Felt at Mehran and Dehloran,
Iran.

KER 1.20 24 iPc 41 28.80 0.1
TEH 4.72 57 ePn 42 34.00 17.4X
TAB 4.80 358 eP 42 27.00 9.3X
e 42 34.00

SHI 6.27 123 eP 42 45.00 6.9X
MJMA 7.45 189 eP 42 54.20 0.0
eS 44 16.70

OASM 7.60 201 eP 42 56.10 -0.1
eS 44 17.00

RYD 8.51 179 ePd 43 12.50 3.8X
GAZ 8.56 300 eP 42 56.00 -13.3X
HQL 10.59 251 ePd 43 40.80 4.0X

OBN 22.92 345 iPc 46 05.00 2.0X
1.0s 21.00nm 4.5mb

GEC2 28.96 312 P 46 58.80 -0.5
0.6s 0.32nm 3.1mb X
e 47 02.50

KAF 31.63 342 eP 47 21.40 -1.1
LPG 32.76 304 eP 47 32.20 -0.7
LPL 32.77 304 eP 47 32.30 -0.6
0.8s 14.50nm 4.8mb

HYB 32.80 111 eP 47 41.50 8.3X
GKN 33.09 89 P 47 36.04 0.2
DMN 33.61 89 P 47 40.30 -0.2

KKN 33.70 89 P 47 37.90 -3.2X
PKI 33.88 89 P 47 39.88 -3.0X
GUN 34.16 88 P 47 38.26 -7.0X

HFS 34.42 331 eP 47 46.50 -0.2
0.4s 2.60nm 4.5mb

SMF 34.91 305 eP 47 50.80 -0.3

0.7s 11.00nm 4.9mb
SSF 35.19 306 eP 47 53.20 -0.3
0.8s 5.65nm 4.5mb

AVF 35.27 305 eP 47 53.50 -0.5
0.9s 6.20nm 4.5mb

BGF 35.59 305 eP 47 57.00 0.2
MAF 35.74 304 eP 47 58.20 0.1
TCF 36.00 304 eP 48 00.50 0.2

LFF 36.94 302 eP 48 08.80 0.7
0.7s 6.15nm 4.6mb

LDF 37.81 308 eP 48 15.70 0.3
FLN 38.06 308 eP 48 17.80 0.3
GRR 38.27 308 eP 48 20.10 0.8

0.7s 8.05nm 4.7mb
BCAO 38.77 228 ePc 48 31.00 7.2X
0.6s 6.00nm 4.7mb

EKA 40.73 318 P 48 41.00 1.5
1.7s 45.30nm 5.0mb
S.D. = 0.6 on 21 of 33 obs.

* FEB 01, 1993 22h 42m 35.15±1.49s
5.621 N ± 14.9km 82.735 W ± 13.0km
DEPTH = 10.0km (geophysicist)
4.2mb (1 obs.)

SOUTH OF PANAMA (83)
MD 4.1 (UPA).

DVD 2.81 6 iPc 43 20.84 -0.1
BRU 3.17 3 iPc 43 26.53 0.1
eS 43 59.79

UPA 4.61 43 iPd 43 47.51 1.0
iS 44 38.76

ECO 4.79 39 iPc 43 48.47 -0.6
SDV 12.43 74 eP 45 34.90 -0.4
ZOBO 26.13 147 eP 48 06.00 -6.0X

YKA 61.41 344 eP 52 53.20 -0.4
0.7s 1.30nm 4.2mb

GUN 144.90 18 PKP 02 15.80 0.4
S.D. = 0.7 on 7 of 8 obs.

* FEB 01, 1993 23h 11m 58.62±1.45s
7.442 S ± 9.9km 127.715 E ± 13.8km
DEPTH = 157.1 ± 14.2 km
4.9mb (6 obs.)

BANDA SEA (280)

MTN 6.34 148 eP 13 31.50 0.7
0.4s 54.00nm 5.2mb

WB2 14.00 153 iPc 15 10.20 -1.1
0.5s 43.60nm 5.1mb

ASPA 17.19 160 eP 15 51.00 0.1
eS 17 35.50
eS 18 53.90

WARB 18.67 183 eP 16 07.00 -0.3
MEEK 20.96 203 eP 16 31.00 0.3
STK 27.54 154 eP 17 32.90 0.3

0.5s 5.90nm 4.5mb
e 17 37.20

GUN 53.56 313 P 21 05.80 -0.2
0.6s 15.00nm 5.0mb

PKI 53.71 312 P 21 07.20 0.1
0.6s 12.00nm 4.9mb

KKN 53.93 312 P 21 08.40 -0.2
DMN 53.96 312 P 21 08.80 0.0
GKN 54.52 312 P 21 12.80 0.0

0.6s 8.00nm 4.7mb
GEC2 111.30 320 PKP 30 15.90 0.4
0.5s 0.54nm

BSF 116.01 320 ePKP 30 24.20 -0.4
0.5s 1.70nm

LOR 118.07 320 ePKP 30 28.30 -0.1
0.4s 0.70nm

LBF 118.09 320 ePKP 30 28.90 0.4
SMF 118.30 319 ePKP 30 29.00 0.1
SSF 118.36 320 ePKP 30 29.20 0.2

0.6s 1.80nm
AVF 118.56 320 ePKP 30 29.10 -0.2
0.5s 1.00nm

CNCB 151.34 147 PKP 31 39.00 8.7X
LPB 151.50 147 (PKP) 31 38.00 7.6X
ZOBO 151.68 146 PKP 31 39.20 8.3X

S.D. = 0.4 on 18 of 21 obs.

* FEB 02, 1993 00h 48m 29.03±0.73s

5.387 N ± 8.9km 82.916 W ± 12.3km
DEPTH = 10.0km (geophysicist)
4.6mb (1 obs.)

SOUTH OF PANAMA (83)
MD 4.3 (UPA).

DVD 3.06 9 ePc 49 17.43 -0.9
BRU 3.42 6 iPc 49 23.29 -0.5
UPA 4.90 43 iPc 49 44.68 0.2
iS 50 39.30

SDV 12.67 73 eP 51 31.70 -0.7
TOV 13.72 71 eP 51 47.50 1.3
ZOBO 26.03 146 P 54 06.00 1.0

Z 20s 0.12um 3.4Msz
LR 02 20.00

LPB 26.25 146 eP 54 12.00 5.2X
CNCB 26.54 146 eP 54 08.00 -1.6
FCC 53.94 353 eP 57 59.00 4.2X

YKA 61.58 344 eP 58 50.40 1.7
0.7s 3.40nm 4.6mb

GKN 144.70 19 PKP 08 07.18 -1.5
KKN 145.10 18 PKP 08 09.64 0.2
GUN 145.18 18 PKP 08 10.46 0.7

DMN 145.22 19 PKP 08 10.20 0.5
PKI 145.35 18 PKP 08 09.50 -0.5
S.D. = 1.2 on 13 of 15 obs.

% FEB 02, 1993 03h 59m 11.50±1.39s
38.498 N ± 7.2km 30.849 E ± 15.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.2 (ISK).

ALT 0.80 314 iPg 59 25.90 -1.2
iSg 59 38.10

BCK 1.06 191 ePn 59 31.20 -0.3
KHL 1.06 261 ePn 59 32.00 0.5
GPA 1.84 347 ePn 59 43.00 -0.4

EYL 2.13 346 ePn 59 48.00 0.3
YLV 2.36 332 ePn 59 52.00 1.0
S.D. = 1.0 on 6 of 6 obs.

% FEB 02, 1993 05h 15m 02.70±2.82s
33.117 S ± 10.3km 70.676 W ± 11.4km
DEPTH = 71.8 ± 26.7 km

CHILE-ARGENTINA BORDER REGION (127)
MD 3.3 (SAN).

PEL 0.03 196 iP+ 15 13.51 0.1
iS 15 23.37

ROCH 0.32 297 iP 15 14.86 0.2
iS 15 25.37

SAN 0.34 178 iP 15 14.58 0.1
iS 15 25.42

FCH 0.39 123 iPd 15 15.15 -0.1
iS 15 25.86

JACH 0.44 9 iP 15 15.23 -0.2
iS 15 26.16

PCH 0.52 165 iPd 15 16.02 -0.1
iS 15 27.57

TACH 0.58 202 iPd 15 16.52 -0.1
iS 15 28.37

CHCH 0.81 179 iP 15 18.79 -0.5
iS 15 32.82

LCCH 0.83 244 iP 15 19.75 0.3
iS 15 33.90

CACH 1.00 176 (P) 15 22.73 1.0
iS 15 37.52

LNV 1.04 216 iP 15 21.29 -0.7
iS 15 36.72

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

& FEB 02, 1993 07h 35m 10.37s
59.083 N 152.328 W
DEPTH = 77.7km
4.5mb (23 obs.)

SOUTHERN ALASKA (2)
<AEIC>. Felt (111) at Port
Graham.

SYI 0.48 184 P 35 23.30 -0.5
XLV 0.49 40 iPc 35 23.33 -0.6
eS 35 32.59

AUE 0.60 298 ePc 35 24.42 -0.6
AUI 0.62 295 iPd 35 24.43 -0.8
AUP 0.63 297 iPc 35 24.72 -0.7

AUH 0.64 297 iPc 35 24.74 -0.8

02d 07h

AUL	0.64	298	iPc	35	24.80	-0.7	MDM	6.20	16	eP	36	39.38	-1.9	LOR	72.22	17	eP	46	28.40	0.1
AUW	0.65	297	iPc	35	24.84	-0.7	FBA	6.22	18	ePd	36	38.86	-2.5		0.6s		2.25nm			4.3mb
CDD	0.70	258	iPd	35	25.36	-0.7	GLM	6.36	19	eP	36	41.21	-2.3	MFF	72.22	20	eP	46	29.20	0.9
OPT	0.73	321	iPc	35	25.64	-0.8	IMA	7.04	356	eP	36	50.95	-1.9		0.4s		2.85nm			4.5mb
BRK	1.01	47	eP	35	29.62	0.0	FYU	8.18	20	eP	37	05.61	-2.8	SSF	72.37	17	eP	46	29.40	0.2
			S	35	43.25		BRW	12.41	353	eP	38	01.49	-3.8		0.8s		5.65nm			4.5mb
MCNL	1.04	277	iPc	35	28.97	-1.1	ADK	15.51	253	eP	38	47.22	1.7	LBF	72.51	17	eP	46	29.90	-0.2
INE	1.05	339	iPc	35	29.37	-1.0	YKA	18.54	63	eP	39	23.80	0.9		0.6s		2.00nm			4.2mb
INW	1.07	338	iPc	35	29.63	-0.9		1.0s		26.00nm			4.4mb	AVF	72.61	17	eP	46	30.50	-0.1
PDB	1.19	307	iPc	35	30.88	-1.0	MCW	20.09	108	eP	39	43.39	3.6		0.7s		4.85nm			4.5mb
			eS	35	45.14		GMW	20.89	111	eP	39	51.49	3.6	SMF	72.82	17	eP	46	31.00	-0.9
KDC	1.34	184	eP	35	34.09	0.2	RMW	21.43	109	eP	39	57.25	3.8	LSF	72.85	19	eP	46	31.90	-0.1
RS1	1.40	351	eP	35	34.48	-0.4	BMW	21.45	113	eP	39	57.56	4.0	TCF	72.92	18	eP	46	32.30	-0.1
RSO	1.40	351	iPd	35	34.48	-0.4	LON	21.93	111	eP	40	02.21	3.9	LEF	73.98	20	eP	46	39.00	0.4
RS2	1.40	351	iPd	35	34.53	-0.4	SHW	22.12	112	eP	40	05.17	4.8		0.3s		3.10nm			4.7mb
REF	1.42	353	iPd	35	34.84	-0.3	WAH2	23.02	108	P	40	13.73	4.8	LPO	74.31	19	eP	46	40.70	0.2
RDW	1.43	350	P	35	35.50	0.3	MDW	23.02	108	P	40	14.00	5.1		0.5s		3.45nm			4.5mb
RDN	1.45	351	iPd	35	35.24	-0.3	GBL	23.18	108	P	40	14.95	4.5	GUN	80.91	310	P	47	17.46	-0.1
			eS	35	53.33		NEW	23.21	102	eP	40	14.99	4.1	KKK	81.25	311	P	47	19.36	0.2
RDT	1.50	359	P	35	35.50	-0.5		0.8s		23.21nm			4.7mb	GKN	81.31	311	P	47	18.66	-0.7
NCT	1.51	349	iPd	35	35.89	-0.4				epP	40	30.22	66kmX	PKI	81.40	311	P	47	19.90	-0.2
			eS	35	54.27		VGB	23.32	112	eP	40	16.60	4.7		0.9s		8.00nm			4.6mb
DFR	1.52	353	iPd	35	36.11	-0.3	BPO	23.52	114	P	40	19.19	5.1	DMN	81.48	311	P	47	20.60	0.2
NKA	1.75	18	iPd	35	40.98	1.6	CROR	23.61	113	P	40	19.39	4.7		158 obs. associated					
SLKM	1.78	36	ePd	35	39.27	-0.6	JBO	23.81	111	P	40	21.14	4.5							
SEW	1.79	54	eP	35	39.17	-0.6	DBO	23.99	119	P	40	24.06	5.6	? FEB 02, 1993 07h 43m 44.32± 0.90s						
MPA	2.06	45	iPd	35	43.11	-0.4	VIPM	24.14	113	P	40	24.44	4.4	31.364 S ±18.4km 68.486 W ±10.8km						
SPU	2.11	4	iPd	35	44.35	0.0	LNOR	24.27	108	P	40	25.50	4.4	DEPTH = 100.0km (geophysicist)						
			eS	36	09.44		SES	25.00	92	eP	40	30.00	2.0	SAN JUAN PROVINCE, ARGENTINA (137)						
CKL	2.12	360	iPd	35	44.65	0.1				pP	40	46.00	69kmX							
CKT	2.13	2	iPd	35	44.62	0.1	RES	25.91	31	eP	40	37.50	1.3	RTLL	0.04	23	iPc	43	58.40	-0.3
CKN	2.15	2	iPd	35	45.23	0.4		0.9s		3.00nm			3.8mb							
BGL	2.19	359	iPd	35	45.28	-0.2	LCCM	27.50	101	eP	40	54.90	3.8	RTCB	0.29	245	iPd	43	59.20	0.0
CP2	2.19	1	iPd	35	45.57	0.0	FCC	29.25	65	eP	41	11.00	4.5							
CRP	2.19	2	iPd	35	45.21	-0.4	HVU	29.98	108	eP	41	16.94	3.6	CFA	0.32	139	ePd	43	59.60	0.3
PTE	2.44	41	iPd	35	48.18	-0.6	BONR	30.37	119	eP	41	20.74	3.8							
LTI	2.47	65	eP	35	48.62	-0.6	TNP	30.76	117	eP	41	23.93	3.6	RTPR	2.00	59	ePd	44	17.70	0.3
SUA	2.52	18	iPd	35	50.03	0.1		0.7s		3.07nm			4.1mb							
			S	36	21.36		BW06	30.84	103	eP	41	23.50	2.4	MRA	2.58	115	ePc	44	25.30	0.1
MTU	2.55	67	eP	35	49.95	-0.4		1.0s		5.35nm			4.2mb							
			eS	36	18.95		DUG	31.17	110	eP	41	26.84	3.0	TCA	3.33	91	eP	44	35.00	-0.5
PMS	2.57	31	P	35	50.50	-0.2		0.7s		3.72nm			4.2mb							
SVW	2.62	322	iPc	35	49.71	-1.6	DAU	31.76	108	eP	41	43.10	68kmX							
KNIM	2.65	59	ePd	35	50.80	-0.9	EMUT	32.44	108	eP	41	38.59	3.3							
PWA	2.85	24	P	35	54.20	-0.2				epP	41	54.27	64kmX	? FEB 02, 1993 07h 46m 35.36± 1.09s						
SKT	2.93	7	ePd	35	55.46	-0.2	RSSD	32.70	96	iPc	41	39.48	2.3	40.074 N ±16.2km 24.924 E ± 7.9km						
PLRM	2.98	31	iPd	35	55.49	-0.7		0.8s		15.57nm			4.9mb	DEPTH = 33.0km (normal)						
PMR	2.98	31	eP	35	54.98	-1.2				epP	41	55.43	65kmX	AEGEAN SEA (365)						
			eS	36	29.39		ARUT	32.76	113	eP	41	41.03	3.3	PAIG	0.97	262	ePg	46	53.50	0.9
KNK	3.03	38	iPd	35	56.23	-0.8				epP	41	57.30	67kmX	EZN	1.11	102	ePn	46	53.90	-0.6
			eS	36	29.52		MSU	32.79	111	ePd	41	41.90	3.8	ALN	1.19	46	iPb	46	56.48	0.8
MID	3.10	81	P	35	58.50	0.7				epP	41	57.90	66kmX	SOH	1.41	302	ePb	46	59.10	0.1
GHO	3.18	31	eP	35	58.50	-0.7	ULM	32.88	80	eP	41	43.00	4.5							
GLI	3.19	53	eP	35	57.51	-1.7	SRU	33.12	108	iPd	41	44.48	3.5	SRS	1.45	316	ePb	47	00.10	0.5
HIN	3.23	63	eP	35	59.01	-0.8				epP	42	00.34	65kmX							
SML	3.38	34	iPd	36	01.11	-0.7	GSC	33.24	120	eP	41	45.40	3.6	KNT	1.89	306	ePn	47	04.20	-1.7
FID	3.39	58	eP	36	00.13	-1.8	PV09	34.28	108	iPd	41	54.17	3.1							
CVA	3.63	63	eP	36	04.11	-1.2	PV10	34.42	108	eP	41	55.75	3.5							
VLZ	3.64	53	eP	36	04.42	-1.0	PV08	34.46	107	eP	41	55.69	3.0							
			S	36	44.06		ALO	38.41	108	ePd	42	29.13	3.4	% FEB 02, 1993 08h 14m 39.84± 0.56s						
SCM	3.71	40	iPd	36	05.80	-0.7		0.6s		4.47nm			4.6mb	44.585 N ± 4.1km 7.224 E ± 6.9km						
KLU	4.00	50	iPd	36	09.68	-0.9	ACO	40.69	99	iPc	42	47.00	2.6	DEPTH = 13.5 ± 6.0 km						
			eS	36	52.93		WMOK	42.40	101	eP	43	01.17	2.7	NORTHERN ITALY (545)						
RAGM	4.09	68	eP	36	10.94	-0.9		1.0s		23.34nm			5.0mb	ML 2.1 (GEN).						
KAIM	4.12	75	eP	36	12.14	-0.1				epP	43	17.31	64kmX	PZZ	0.12	228	P	14	43.38	0.0
HUR	4.12	17	eP	36	12.39	0.1	EEO	43.68	73	eP	43	13.00	4.3							
TTA	4.26	337	iPc	36	12.89	-1.3	CN2	50.11	291	eP	43	58.40	-0.7	BHB	0.26	6	P	14	45.53	0.0
TOA	4.29	42	P	36	14.10	-0.6		0.8s		27.00nm			5.3mb							
TRF	4.49	12	eP	36	16.12	-1.5	CVL	50.34	80	eP	44	02.88	2.0	STV	0.35	168	P	14	47.27	0.0
TZL	4.52	46	eP	36	17.56	-0.2	LMN	51.09	64	ePc	44	10.40	3.9							
RND	4.65	20	eP	36	18.93	-0.8	PRM	51.35	87	eP	44	10.06	1.4	ENR	0.38	158	P	14	47.82	-0.1
SDG	4.79	41	eP	36	20.57	-1.1	LHS	51.85	85	eP	44	13.44	1.1							
GLB	4.86	57	iPd	36	20.96	-1.6	EKA	63.29	19	P	45	33.00	0.5							
CROM	4.92	66	ePc	36	22.40	-1.2		2.0s		78.50nm			5.4mb	RRL	0.46	317	P	14	49.37	0.0
SNH	4.94	73	ePc	36	23.18	-0.5	GTA	65.24	306	eP	45	43.00	-2.5							
MCK	4.94	18	eP	36	23.28	-0.4		1.0s		9.00nm			4.7mb	ROB	0.55	122	P	14	50.88	0.1
TGL	5.07	67	ePc	36	24.36	-1.2	XAN	65.67	296	P	45	46.70	-1.6							
CYK	5.10	74	eP	36	25.64	-0.2		0.6s		2.60nm			4.3mb	RSP	0.57	2	P	14	50.52	-0.7
PAX	5.13	38	ePd	36	25.09	-1.3	LZH	66.28	301	Pc	45	51.00	-1.3							
BALM	5.37	64	eP	36	28.27	-1.5		1.0s		20.00nm	</									

CHILE-ARGENTINA BORDER REGION (127)						NNA						ZAK					
MD 3.1 (SAN).						11.51 154 eP 59 10.50 1.1						14.37 50 iPc+ 08 38.00 1.0					
						1.0s 18.00nm eS 01 17.50 5.2mb						1.3s 168.00nm 5.5mb					
FCH	0.45	256	iP	37 15.63	0.0	ZO80	19.97	138	P	00 56.80	-0.7	Z	14s	6.27um			
			iS	37 22.89		LPB	20.16	138	P	01 04.10	4.8X	E	14s	6.43um			
PCH	0.74	237	iPd	37 20.77	-0.2	CNCB	20.44	139	P	01 02.00	-0.3	KKN	14.41	183	P	08 36.98	-0.9
			iS	37 32.01		SIV	25.07	126	P	01 50.40	3.0X	DMN	14.60	184	P	08 39.34	-1.1
PEL	0.78	276	iP	37 21.08	-0.4	BAO	36.28	115	eP	03 21.00	-6.0X	PKI	14.63	183	P	08 39.34	-1.5
			iS	37 32.41					e	03 22.50		LZH	15.03	108	Pc	08 43.00	-2.9X
SAN	0.78	253	iPd	37 21.45	-0.2				e	03 26.70		Z	20s	6.65um			
			iS	37 33.57		ALO	42.98	330	iPd	04 26.20	3.8X	N	10s	3.53um			
MDZ	0.84	66	eP	37 21.50	-1.1				1.0s			E	10s	3.22um			
			iS	37 36.60		RSSD	49.61	339	eP	05 16.00	1.3			pP	08 52.20		
JACH	0.88	308	iPd	37 22.99	-0.3				0.9s					sP	08 58.00		
			iS	37 35.74		YKA	68.51	344	eP	07 23.30	-1.9			eS	11 35.00		
CHCH	1.03	226	iP	37 25.64	-0.1				1.1s			BRVK	15.18	321	iPd	08 46.00	-1.6
			iS	37 40.21		LIC	77.18	83	P	08 16.60	-0.6			344.00nm		5.5mb	
TACH	1.07	246	iPd	37 26.29	-0.2	TIC	77.21	83	P	08 16.80	-0.6	NDI	15.32	211	iPc	08 47.00	-2.5
			iS	37 41.75		KIC	77.48	83	P	08 18.30	-0.5			0.5s	140.85nm	5.5mb	
ROCH	1.08	283	iPd	37 26.53	-0.2	MFF	85.51	43	eP	08 59.60	-0.7	IRK	15.88	44	iPc	08 57.50	0.9
			iS	37 41.91		LFF	85.94	45	eP	09 01.90	-0.5			1.3s	481.00nm	5.5mb	
CACH	1.13	218	iP	37 28.36	0.7	LPO	86.23	45	eP	09 03.30	-0.6	Z	12s	7.65um			
			iS	37 44.05					1.0s			E	16s	2.94um			
LCCH	1.53	260	iPd	37 34.20	0.5	RJF	86.52	45	eP	09 04.70	-0.6	SHL	17.27	162	iP	09 13.10	-1.4
			iS	37 55.36		CAF	86.87	45	eP	09 06.40	-0.7			1.0s	237.50nm	5.3mb	
LVN	1.56	242	iPd	37 33.98	-0.1				1.2s					iS	12 27.90		
			iS	37 55.51		MAF	87.34	44	eP	09 10.00	0.7	BTO	17.98	87	P	09 23.00	-0.2
RFA	1.88	145	iPc	37 39.20	0.3				1.4s					0.8s	180.00nm	5.3mb	
			S	38 04.70		BGF	87.56	43	eP	09 11.00	0.7	E	12s	2.46um			
CFA	2.06	39	e(P)	37 44.10	2.6				1.0s					pP	09 31.00		
MRA	3.51	78	e(P)	38 09.00	7.0X	AVF	87.93	43	eP	09 12.40	0.4	CD2	18.07	123	Pd	09 25.50	1.3
			S	38 53.10		SMF	88.25	43	eP	09 14.10	0.4			1.0s	95.00nm	4.9mb	
RTPR	4.02	44	eP	38 22.80	13.6X	LPL	90.20	45	eP	09 24.40	1.2	Z	14s	3.41um			
			S	39 08.70		LPG	90.21	45	eP	09 24.80	1.5			sP	09 38.00		
TCA	4.77	68	eP	38 18.60	-1.4	GEC2	94.92	41	P	09 46.10	1.5	HHC	19.07	86	iPc	09 37.00	0.5
			(S)	39 33.00					1.2s					1.2s	91.00nm	4.9mb	
S.D. = 1.0 on 15 of 17 obs.						LZH	145.26	352	ePKP	16 00.00	-1.0	Z	10s	2.92um		4.1MsZx	
									1.4s					sP	09 46.50		
% FEB 02, 1993 10h 33m 03.43±0.96s						GKN	150.77	25	PKP	16 04.00		QUE	19.54	238	eP	09 27.60	-14.4X
38.928 N ±11.9km 27.681 E ±19.1km						KKN	151.23	24	PKP	16 16.66	6.0X			eS	13 08.10		
DEPTH = 10.0km (geophysicist)						DMN	151.31	24	PKP	16 16.28	5.4X	XAN	19.66	107	iPc	09 42.00	-1.2
TURKEY (366)						GUN	151.36	23	PKP	16 20.16	9.1X			0.8s	220.00nm	5.5mb	
MD 2.8 (ISK).						PKI	151.47	24	PKP	16 17.32	6.1X	Z	16s	5.00um			
						S.D. = 1.0 on 21 of 30 obs.						N	14s	4.51um			
Izm												E	12s	3.35um			
DST	1.00	47	iPn	33 22.20	-0.2	FEB 02, 1993 16h 05m 14.11±0.09s											
EZN	1.38	311	ePn	34 04.60	35.9X	42.219 N ± 2.2km 86.132 E ± 1.6km											
KCT	1.42	21	ePn	33 29.90	0.6	DEPTH = 33.1km (77 depth phases)											
EDC	1.42	6	ePn	33 29.50	0.2	5.7mb (156 obs.)											
BNT	1.44	7	ePn	33 28.90	-0.6	NORTHERN XINJIANG, CHINA (332)											
S.D. = 0.7 on 5 of 6 obs.						Some damage in Hejing County.											
% FEB 02, 1993 10h 33m 44.74±1.15s						WMO	1.97	35	Pg	05 50.40	4.5X	CIT	20.98	53	eP	09 56.00	-0.8
39.128 N ± 6.7km 27.319 E ±14.0km						PRZ	5.74	275	iPd	06 41.00	1.7	Z	11s	3.57um		5.0MsZx	
DEPTH = 10.0km (geophysicist)									0.8s					eS	13 52.00		
TURKEY (366)						TLG	6.53	282	iPc	06 52.00	1.6	MAIO	21.41	263	eP	10 02.00	0.8
MD 3.1 (ISK).									eS	07 48.00				0.8s	42.83nm	4.9mb	
Izm	0.73	183	iPg	33 59.00	-0.1	KSH	8.18	254	P	07 14.00	0.5	ASH	21.64	268	iPc	10 04.50	1.1
			iSg	34 11.50					0.7s					1.0s	970.00nm	6.2mb	
DST	1.12	64	ePn	34 05.20	-0.6				0.7s					e	10 39.00		
EDC	1.29	19	ePn	34 08.50	-0.1	Z	20s		60.00nm					e	14 09.00		
BNT	1.31	21	ePn	34 08.90	-0.1	N	16s		41.40um					e	14 27.00		
KCT	1.38	35	ePn	34 10.40	0.4				31.60um			KMI	21.88	136	Pc	10 06.50	0.3
ALT	2.17	91	ePn	34 22.00	0.4				pP	07 17.00				1.0s	1130.00nm	6.2mb	
S.D. = 0.5 on 6 of 6 obs.									sP	07 20.00		Z	10s	1.90um		4.8MsZx	
									S	08 50.00		N	10s	2.00um			
% FEB 02, 1993 12h 06m 23.16±0.96s						FRU	8.53	278	eP	07 17.00	-1.3	E	10s	2.00um			
39.054 N ± 9.3km 27.745 E ±15.9km						GTA	10.74	101	iPc	07 46.40	-2.4			pP	10 16.50	38km	
DEPTH = 10.0km (geophysicist)									1.0s			SVE	21.89	321	iPc	10 06.50	0.8
TURKEY (366)						Z	16s		10.90um					1.0s	500.00nm	5.9mb	
MD 2.7 (ISK).									sP	07 59.00		Z	16s	5.50um		5.1MsZx	
Izm	0.76	210	iPg	06 38.00	0.0				eS	09 49.00		N	16s	1.60um			
			iSg	06 50.50		ELT	11.04	0	iPc	07 51.50	-1.1	E	16s	3.00um			
DST	0.88	51	iPn	06 39.90	-0.2				1.0s					eS	14 11.00		
KCT	1.28	21	ePn	06 47.40	0.4	Z	11s		750.00nm			ARU	22.68	318	eP	10 11.50	-2.0
EDC	1.29	4	ePn	06 46.50	-0.6	LSA	13.13	160	iPd	08 24.40	3.1X			1.6s	800.00nm	5.9mb	
BNT	1.31	6	ePn	06 47.70	0.4				1.6s			Z	16s	5.00um		5.0MsZx	
S.D. = 0.6 on 5 of 5 obs.						Z	20s		10.60um			E	16s	3.50um			
						N	10s		0.97um					e	10 21.50	37km	
% FEB 02, 1993 13h 56m 24.25±0.94s						E	14s		1.83um					ePPP	10 53.00		
1.592 S ±12.4km 81.955 W ±24.1km									S	10 51.00				eS	14 19.00		
DEPTH = 33.0km (normal)						MOY	13.85	42	ePc	08 31.30	1.2	8JI	22.68	85	eP	10 14.50	0.8
5.0mb (8 obs.)									1.6s					1.0s	43.00nm	4.9mb	
OFF COAST OF ECUADOR (104)						GKN	14.24	185	P	08 34.00	-1.5	Z	16s	2.92um		4.8MsZx	
						GUN	14.28	181	P	08 35.46	-0.8						

02d 16h									
E 11s	1.90um								
KAT 22.79	272 iP+	10	17.00	2.3					
GYA 23.03	127 iPc	10	18.00	0.6					
1.0s	360.00nm			5.8mb					
Z 18s	2.59um			4.7Msz					
N 12s	0.68um								
E 12s	1.32um								
	S	14	26.00						
BOD 23.61	39 iPc	10	22.70	0.1					
1.7s	372.00nm			5.6mb					
TIA 24.67	94 Pc	10	34.30	1.2					
0.8s	150.00nm			5.6mb					
Z 18s	3.83um			4.9Msz					
	eS	14	52.50						
WHN 25.41	108 iPc	10	41.00	0.9					
1.0s	480.00nm			6.0mb					
Z 18s	3.14um			4.9Msz					
	sP	10	53.00						
	S	15	08.00						
HYB 25.56	197 ePc	10	41.20	-0.4					
1.0s	70.00nm			5.2mb					
	e	10	56.00	62kmX					
	eS	15	04.00						
CHG 25.75	151 iPc	10	44.10	0.7					
	eS	15	10.00						
DL2 27.05	85 eP	10	54.80	-0.4					
0.8s	65.00nm			5.3mb					
Z 16s	1.48um			4.6MszX					
N 12s	1.00um								
E 13s	0.92um								
BDT 27.22	152 iPc	10	58.00	1.2					
0.9s	66.50nm			5.3mb					
NRI 27.27	2 iPc+	10	56.00	-0.8					
1.6s	364.00nm			5.8mb					
Z 18s	4.90um			5.1Msz					
N 18s	3.00um								
E 16s	4.00um								
	e	11	07.00	41km					
	e	11	41.00						
	ePPP	11	55.00						
	eS	15	32.00						
	e	15	48.00						
	e	16	46.00						
SNY 27.68	78 Pc	11	00.00	-0.8					
1.4s	110.00nm			5.3mb					
Z 18s	2.97um			4.9Msz					
N 16s	3.42um								
NJ2 27.84	101 Pc	11	02.50	0.1					
0.8s	11.00nm			4.6mb X					
Z 18s	2.35um			4.8Msz					
N 12s	1.82um								
E 12s	1.44um								
LOE 28.10	147 iPc	11	04.90	0.1					
CN2 28.61	73 Pc	11	08.60	-0.7					
1.0s	19.00nm			4.7mb					
Z 14s	2.18um			4.9MszX					
N 11s	0.51um								
E 11s	1.08um								
	eP	11	17.00	29km					
	ePcP	14	18.00						
	eS	15	53.00						
NST 29.07	151 eP	11	23.80	10.2X					
KHT 29.38	155 iPc	11	16.80	0.4					
GBA 29.49	197 P	11	17.00	-0.4					
GRO 29.51	286 iPc	11	18.00	0.7					
1.0s	220.00nm			5.9mb					
	i	14	23.00						
GZH 29.62	122 P	11	19.40	0.9					
GRS 30.04	278 iPc	11	23.20	0.9					
1.1s	90.00nm			5.5mb					
SSE 30.04	100 Pc	11	22.00	-0.2					
1.0s	140.00nm			5.7mb					
Z 16s	3.50um			5.1MszX					
N 12s	0.60um								
E 12s	1.70um								
	sP	11	36.00						
QIZ 30.64	132 P	11	27.60	0.0					
PYA 31.23	288 iPc	11	32.00	-0.6					
1.0s	100.00nm			5.6mb					
Z 16s	2.50um			5.0MszX					
	i	12	44.00	386kmX					
	e	16	30.00						
MDJ 31.39	71 Pc	11	33.50	-0.4					
1.1s	54.00nm			5.3mb					
Z 16s	4.13um			5.2MszX					
E 12s	2.34um								
KIV 31.51	288 P	11	36.10	1.0					
	1.2s	101.00nm		5.5mb					
Z 13s	1.20um			4.8MszX					
	S	16	48.10						
NNT 31.80	154 iPc	11	36.30	-1.5					
VLA 33.34	73 iPc	11	51.00	0.1					
1.0s	101.00nm			5.7mb					
	i	12	00.00	31km					
SOC 33.69	288 iPc	11	55.00	1.0					
1.5s	240.00nm			5.9mb					
MOS 33.85	310 iPc	11	54.00	-1.3					
1.5s	490.00nm			6.2mb					
Z 18s	5.20um			5.3Msz					
	i	12	04.00	35km					
	e	13	27.00						
OBN 34.42	309 iPc	11	59.80	-0.3					
1.4s	350.00nm			6.1mb					
Z 19s	4.00um			5.2Msz					
E 20s	3.30um								
	i	12	09.00	31km					
	ePPP	13	28.00						
ANN 35.07	291 iPc	12	05.30	-0.5					
0.7s	54.00nm			5.6mb					
Z 15s	1.50um			4.9MszX					
	i	12	15.00	33km					
	eS	17	35.00						
SHNJ 35.93	88 eP	12	11.50	-1.7					
TIK 36.11	21 iPc+	12	13.50	-0.8					
1.2s	50.00nm			5.3mb					
Z 18s	4.60um			5.3Msz					
	i	12	24.00	36km					
	i	13	35.00						
	i	14	35.00						
KUMJ 36.45	90 eP	12	17.20	-0.5					
RYD 36.92	254 iPc	12	22.10	0.4					
KVT 37.01	286 iP	12	23.00	0.7					
KAGJ 37.15	92 eP	12	21.70	-1.9					
MJMA 37.18	257 iPc	12	23.70	-0.2					
GAZ 37.56	279 eP	12	27.80	0.9					
APA 37.76	330 iPc	12	27.40	-0.8					
PUL 37.94	317 (P)	12	30.00	0.2					
1.2s	300.00nm			6.0mb					
	i	12	39.00	30km					
TKSJ 38.17	86 P	12	31.80	-0.3					
KAS 38.54	287 iPc	12	36.70	1.5					
CVP 38.97	118 eP	12	41.00	2.1					
0.9s	116.00nm			5.6mb					
WKYJ 39.21	85 P	12	40.60	-0.3					
MNK 39.74	308 eP	12	43.00	-1.9					
IPM 39.76	156 ePc	12	46.00	0.5					
0.5s	38.40nm			5.4mb					
YSS 39.81	63 iPc	12	46.00	0.4					
1.1s	70.00nm			5.3mb					
Z 17s	3.20um			5.2MszX					
E 17s	2.50um								
	e	14	50.50						
KAF 39.97	321 iP	12	46.70	0.0					
0.7s	56.40nm			5.4mb					
MRRJ 40.01	71 eP	12	47.00	-0.3					
MAT 40.13	80 (P)	12	47.00	-1.4					
0.9s	21.01nm			4.9mb					
KIS 40.26	297 iPc+	12	50.00	0.7					
1.0s	600.00nm			6.3mb					
Z 20s	1.20um			4.7Msz					
HRI 40.33	274 iPc	12	51.80	1.6					
SDF 40.35	329 iP	12	49.70	-0.1					
KEV 40.51	333 iP	12	51.50	0.5					
1.0s	116.00nm			5.6mb					
ASAJ 40.57	67 P	12	51.30	-0.5					
NUR 40.78	318 iP	12	53.40	0.1					
0.9s	127.20nm			5.7mb					
CFR 41.25	295 eP	12	55.00	-2.4					
PPE 41.31	296 eP	12	58.00	0.1					
PGP 41.54	123 eP	12	59.00	-1.1					
1.0s	69.00nm			5.3mb					
BGIO 41.56	273 iPc	13	02.20	2.0					
HOOJ 41.57	70 eP	12	59.90	-0.2					
BRD 41.89	295 ePc	13	05.00	2.3					
PTT 41.92	298 eP	13	05.00	2.1					
VR1 42.00	296 ePc	13	05.00	1.4					
KUSJ 42.32	68 eP	13	05.00	-1.2					
AYN 42.34	268 iPc	13	08.00	1.5					
MGD 42.39	42 ePc+	13	06.00	-0.5					
1.2s	140.00nm			5.6mb					
	e	13	17.00	39km					
	e	14	41.00						
	e	14	58.00						
MLR 42.64	296 eP	13	10.00	1.0					
MBH 42.70	270 iPc	13	11.10	1.5					
DST 42.83	287 iP	13	10.00	-0.5					
KGM 42.89	154 ePc	13	12.00	0.8					
ELL 43.07	282 iP	13	13.90	1.3					
CMP 43.32	296 ePc	13	18.00	3.6X					
DHJN 43.71	249 iPc	13	19.70	1.6					
ABHA 43.83	250 iPc	13	21.90	2.8X					
UZH 44.09	301 iPc	13	21.00	0.5					
1.0s	64.00nm			5.4mb					
	i	13	30.00	30km					
	i	13	37.80						
UPP 44.33	31								

VBY	49.68	299	iPc	14 05.00	0.5	PII	53.49	299	Pc	14 32.80	-0.4	AGO	57.08	305	P	14 58.72	-0.6
			pP	14 14.60	32km	CDF	53.49	306	P	14 32.87	-0.5	PYM	57.30	304	P	15 00.52	-0.4
WET	49.80	305	iPc	14 06.00	0.5	TMA	53.50	302	iPc	14 32.50	-1.0	MAF	57.34	305	iPc	15 01.00	-0.2
	1.0s	77.00nm			5.7mb	ILT	53.53	28	iPc	14 32.20	-1.0		0.9s	62.25nm			5.7mb
			i	14 15.80	33km		1.0s	200.00nm			6.1mb	LBL	57.40	304	P	15 01.09	-0.6
LJU	49.93	300	ePc	14 06.50	0.0				i	14 42.80	36km	HAE	57.52	313	ePc	15 01.60	-0.7
			epP	14 16.50	34km	WLF	53.64	307	iPc	14 34.72	0.5	TCF	57.53	305	iPc	15 02.10	-0.4
			ePcP	15 26.50					id	14 44.35	32km		0.8s	70.40nm			5.8mb
HOF	49.98	306	iPc	14 07.20	0.4	ECH	53.65	305	P	14 34.06	-0.4	LDF	57.80	308	iPc	15 03.50	-0.8
	0.9s	38.00nm			5.4mb	VAI	53.67	302	Pc	14 33.20	-1.3		1.0s	56.00nm			5.6mb
			i	14 17.00	33km	BOB	53.72	301	Pc	14 35.50	0.5	WME	57.81	315	eP	15 03.30	-0.9
MOX	50.02	307	iPc	14 07.50	0.4	BBS	53.76	304	P	14 34.73	-0.5	HTR	57.89	313	eP	15 04.20	-0.7
	1.3s	81.00nm			5.6mb	MOF	53.82	305	P	14 35.32	-0.4	FLN	57.93	309	iPc	15 04.30	-0.9
CEY	50.12	300	eP	14 08.50	0.6	BSF	54.04	305	P	14 36.94	-0.4		1.2s	79.15nm			5.6mb
			epP	14 17.50	30km	LOMF	54.22	305	P	14 38.30	-0.4	Z	22s	0.88um			4.8msz
			ePcP	15 27.50		HAU	54.23	305	iPc	14 38.40	-0.3	LSF	57.96	305	iPc	15 04.60	-0.9
K8A	50.29	302	iPc	14 09.60	0.2		0.9s	27.70nm			5.3mb		0.7s	20.15nm			5.3mb
			i	14 19.40	33km	Z	21s	1.17um			4.9msz	HCG	57.98	314	ePc	15 04.60	-0.9
BHG	50.33	303	iPc	14 10.40	0.9	ORX	54.26	302	P	14 37.31	-1.8	YRH	58.25	314	ePc	15 06.60	-0.8
	1.1s	124.00nm			5.8mb	VITF	54.36	306	P	14 39.41	-0.2		1.0s	27.00nm			5.3mb
			i	14 20.50	34km	DOU	54.37	308	Pc	14 39.70	0.1	CAF	58.28	304	iPc	15 07.90	0.1
VOY	50.35	300	iPc	14 09.10	-0.6		1.1s	103.80nm			5.8mb		0.9s	29.50nm			5.4mb
			ePcP	15 27.50					e	14 49.70	33km	GRR	58.33	309	iPc	15 07.20	-0.8
RBL	50.39	301	Pc	14 09.40	-0.7				e	15 42.30			0.9s	95.00nm			5.9mb
TRI	50.56	300	ePc	14 10.80	-0.4	SNF	54.37	309	Pc	14 40.50	0.9	BRW	58.37	20	iPd	15 07.09	-0.8
			e	14 20.60	33km				e	14 49.20	29km			epP	15 17.05	33km	
GRF	50.60	306	iPc	14 12.60	1.0	PCP	54.40	301	P	14 40.06	0.1			esP	15 22.61		
	1.0s	143.00nm			5.9mb	DIX	54.42	303	iPc	14 40.40	-0.1	RJF	58.43	304	iPc	15 08.90	0.1
Z	20s	2.00um			5.1msz	EMS	54.73	303	iPc	14 42.30	-0.3		1.3s	130.70nm			5.9mb
			ipPd	14 22.50	33km	FIN	54.76	301	P	14 40.65	-2.0	LPF	58.61	308	iPc	15 09.10	-0.8
FVI	50.83	302	P	14 12.60	-0.7	LSD	54.86	302	P	14 43.35	-0.3		0.8s	27.55nm			5.4mb
FUR	51.15	304	iPc	14 16.80	1.0	RSP	54.94	302	P	14 41.34	-2.7	MFF	58.79	306	iPc	15 10.60	-0.7
	1.0s	223.00nm			6.1mb	ROB	54.94	301	P	14 43.26	-0.8		1.1s	63.75nm			5.6mb
WTTA	51.29	303	iPc	14 17.10	0.1	PGF	55.02	298	P	14 44.45	-0.2	DMU	58.91	316	eP	15 11.60	-0.4
	0.8s	199.00nm			6.1mb	BHB	55.07	302	P	14 42.76	-2.2		0.9s	125.00nm			6.0mb
			i	14 27.20	34km	RSL	55.09	303	P	14 44.83	-0.4	LPO	58.95	304	iPc	15 12.30	-0.1
			i	15 31.50		LPG	55.10	303	iPc	14 45.70	0.3		0.9s	61.40nm			5.7mb
			i	15 57.60			0.8s	209.00nm			6.2mb	PERF	59.00	301	P	15 11.93	-0.9
			i	16 14.60		LPL	55.10	303	iPc	14 45.60	0.2	DLF	59.02	316	eP	15 12.30	-0.4
WATA	51.29	303	iPc	14 17.00	0.0		0.9s	276.50nm			6.3mb		0.9s	154.00nm			6.1mb
			i	14 26.70	32km	IMI	55.10	300	P	14 44.82	-0.4	LFF	59.09	304	iPc	15 13.50	0.2
TDS	51.42	292	Pc	14 18.40	0.5	DOI	55.24	301	P	14 44.50	-1.7		1.1s	141.65nm			6.0mb
SOTA	51.57	303	iPc	14 19.00	-0.1	ENR	55.26	301	P	14 44.63	-1.7	ETA	59.15	315	eP	15 13.30	-0.4
	0.7s	85.10nm			5.8mb	SAOF	55.28	301	P	14 46.40	-0.1	DCN	59.38	316	eP	15 14.80	-0.4
			i	14 28.80	33km	STV	55.31	301	P	14 44.63	-2.1		0.8s	166.00nm			6.2mb
MOTA	51.59	303	iPc	14 19.00	-0.2	PZZ	55.33	301	P	14 44.36	-2.6	ECP	59.50	314	eP	15 15.60	-0.4
	1.0s	116.00nm			5.8mb	RRL	55.34	302	P	14 46.65	-0.5		0.8s	183.00nm			6.3mb
			i	14 29.10	34km	BNI	55.35	302	Pc	14 46.70	-0.4	TRGS	59.57	301	P	15 16.59	-0.3
MGR	51.74	293	Pc	14 20.10	-0.2	AUTN	55.36	301	P	14 47.12	-0.2	ECB	59.62	315	eP	15 16.70	-0.2
CTI	51.77	301	P	14 19.50	-1.1	SBF	55.42	301	P	14 47.38	-0.1		0.8s	158.00nm			6.2mb
OGA	51.83	302	iPc	14 21.00	-0.1	TOUF	55.47	301	P	14 47.49	-0.5	LESF	59.73	302	P	15 17.43	-0.4
	0.9s	46.00nm			5.4mb	AURF	55.47	301	P	14 47.72	-0.2	SALF	59.93	302	P	15 17.68	-1.6
TNS	52.06	307	ePc	14 22.80	0.2	SURF	55.53	301	P	14 47.95	-0.5	EPF	60.32	303	iPc	15 21.00	-0.9
			e	14 32.70	33km	EDU	55.70	318	eP	14 48.50	-0.7		0.8s	34.00nm			5.5mb
			ePcPc	15 34.50			1.2s	82.00nm			5.6mb	EGRA	61.17	302	eP	15 24.42	-3.2X
WIT	52.09	311	eP	14 24.00	1.3	ESY	55.77	317	eP	14 49.00	-0.8	ELIZ	61.41	304	iPc	15 29.53	0.2
			e	14 33.50	32km		1.2s	46.00nm			5.4mb	ERDO	61.44	301	iPc	15 28.81	-0.7
SDI	52.22	295	P	14 24.04	0.1	PTS	55.78	291	P	14 51.31	1.2	ECRI	62.32	304	iPc	15 35.69	0.3
	1.0s	55.40nm			5.5mb	CALN	55.82	301	P	14 50.04	-0.4	IMA	62.69	23	iPc	15 36.62	-1.0
WTS	52.32	310	iPc	14 24.80	0.3	GRN	55.84	303	P	14 50.63	0.1		0.8s	42.19nm			5.6mb
	1.0s	47.00nm			5.4mb	FRF	56.06	301	iPc	14 51.60	-0.4			epP	15 46.76	33km	
			e	14 34.00	31km		1.4s	108.05nm			5.7mb	ECHE	63.00	300	eP	15 39.46	-0.5
ASS	52.38	298	P	14 25.40	0.2	LOR	56.07	306	iPc	14 51.00	-1.0	ETOR	63.01	302	iPc	15 39.50	-0.6
OSS	52.45	303	iPc	14 25.70	-0.1		1.2s	55.95nm			5.5mb	RES	63.38	0	ePc	15 42.00	0.1
BNS	52.51	309	ePc	14 26.00	0.1		Z	23s	0.77um		4.7mszX		0.6s	5.00nm			4.8mb
			ic	14 36.30	34km	ELO	56.08	318	eP	14 51.10	-0.9	TTA	64.12	27	iPc	15 46.54	-0.5
SFI	52.54	299	Pc	14 27.10	0.9	LBF	56.12	305	iPc	14 51.60	-0.9		1.3s	35.80nm			5.3mb
DAG	52.59	344	iPd	14 25.20	-1.0		1.2s	53.55nm			5.4mb			ipP	15 56.81	33km	
	0.8s	91.04nm			5.8mb	LMR	56.26	300	iPc	14 53.10	-0.4	EALH	64.26	299	eP	15 47.10	-1.1
CRE	52.60	298	P	14 27.20	0.3		0.9s	25.20nm			5.2mb	GUD	64.43	302	iPc	15 49.38	-0.1
PGD	52.64	299	Pc	14 28.10	0.8	LRG	56.30	301	iPc	14 53.40	-0.3	EVIA	64.52	300	iPc	15 50.11	0.1
ATN	52.72	291	Pc	14 26.80	-0.9		0.8s	33.20nm			5.4mb	EMON	64.79	307	eP	15 51.56	0.0
LANF	52.94	306	P	14 29.03	-0.2	EKA	56.31	317	Pd	14 53.20	-0.5	FBA	65.23	22	iPc	15 53.18	-0.9
VDL	52.96	303	iPc	14 29.40	-0.2		0.8s	50.70nm			5.6mb		0.8s	70.59nm			5.8mb
FIR	52.99	299	eP	14 31.00	1.4	SMF	56.37	305	iPc	14 53.60	-0.6			epP	16 03.71	34km	
SLE	53.03	304	iPc	14 29.80	-0.1		0.9s	96.00nm			5.8mb			ePP	18 11.75		
LLS	53.09	303	iPc	14 30.00	-0.6	SSF	56.37	305	iPc	14 53.40	-0.9	ERUA	65.27	305	iPc	15 54.80	0.1
MME	53.17	300	P	14 32.43	1.2		1.3s	68.95nm			5.5mb	SVW	65.51	28	iPc	15 56.58	0.6
	0.7s	112.40nm			5.9mb	SSB	56.58	303	P	14 55.17	-0.6		0.9s	241.58nm			6.3mb
ZLA	53.21	304	ePc	14 31.00	-0.2	KSB	56.58	319	eP	14 54.20	-1.4			epP	16 07.15	34km	
FEL	53.27	305	P	14 31.16	-0.6	AVF	56.59	305	iPc	14 55.20	-0.6	EBAN	65.62	300	iPc	15 56.92	-0.1
BDI	53.29	299	Pc	14 31.70	-0.2		1.2s	121.40nm			5.8mb	STS	65.83	307	iPd	15 58.53	0.3
ENN	53.32	309	iPc	14 31.90	0.0	KPL	56.64	320	eP	14 55.20	-0.7	EPLA	65.97	303	iPc	15 59.61	0.4
	1.0s	53.															

02d 16h

BGL	66.51	27 eP	16 01.90	-0.5	DPW	87.75	16 iPc	18 01.36	0.6	ALO	102.35	11 Pdiff	19 20.00	12.2X
CRP	66.58	27 ePc	16 02.00	-0.9			epP	18 11.88	33km	Z	20s	0.67um		5.2Msz
PMR	67.32	25 iPd	16 05.93	-1.5	FMW	87.87	19 P	18 02.20	0.7	WMOK	103.28	4 Pdiff	19 20.00	8.2X
	0.8s	34.78nm		5.5mb	ULM	87.90	1 ePc	18 02.70	1.4	Z	21s	1.03um		5.3Msz
Z	19s	0.66um		4.9Msz	BMW	87.91	20 eP	18 02.74	1.2	MIAR	103.61	360 Pdiff	19 20.00	6.8X
		epP	16 16.37	34km			eP	18 13.60	34km	Z	20s	0.59um		5.1Msz
PMS	67.45	26 ePc	16 08.00	-0.3	LON	88.00	19 eP	18 02.39	0.4	NVL	124.40	203 ePKP	24 10.00	0.0
SLKM	67.78	26 eP	16 08.78	-1.6			epP	18 13.46	35km		1.2s	41.00nm		
		epP	16 18.71	32km	CBM	88.34	343 ePc	18 03.52	0.0	BAO	132.65	290 ePKP	24 27.00	-0.5
						0.9s	55.89nm		5.9mb		e	24 28.30		
TOA	67.84	24 iPc	16 11.00	0.2			epP	18 14.10	33km		e	28 11.00		
EVAL	67.85	301 eP	16 11.18	0.0	SHW	88.42	19 ePc	18 05.58	1.5	SIV	141.62	303 PKP	24 42.60	-1.5
KLU	68.39	24 iPc	16 13.38	-0.8			eP	18 16.11	33km	ZOBO	146.02	312 iPKPc	24 52.10	-0.2
MTN	68.63	132 eP	16 15.00	-1.1			pP	18 18.00	33km		1.5s	261.29nm		
TSY	68.68	299 iPd	16 15.20	-1.1	WAH2	88.52	17 P	18 05.03	0.7		LR	14 36.00		
RSA	68.88	298 iPd	16 16.50	-1.0	LMN	88.57	340 eP	18 07.50	2.9	LPB	146.20	311 PKP	24 53.20	0.8
KDC	69.04	29 iPc	16 17.48	-0.6			pP	18 18.00	33km	CNCB	146.36	311 iPKPc	24 53.70	0.9
	0.7s	78.76nm		5.9mb	ASR	88.62	19 P	18 06.18	1.1	NNA	146.42	329 iPKPc	24 53.50	1.2
		ipP	16 27.79	33km	VGB	89.41	19 eP	18 09.10	0.4		0.8s	38.81nm		
WWKK	69.12	116 e(P)	16 20.00	0.7			epP	18 20.12	35km	YJA	148.99	301 iPKPc	24 50.00	-5.9X
IFR	69.25	297 iPc	16 21.00	0.9			esP	18 26.54		FSA	152.05	296 ePKP	25 02.00	1.4
BALM	69.81	23 iPd	16 22.76	-0.2	RMQ	89.48	127 iPc	18 09.00	0.8	TCA	154.28	285 ePKPd	25 04.30	0.6
NANU	69.95	151 eP	16 24.30	0.3			0.7s	33.00nm	5.7mb		S.D. = 0.9	on 408 of 429 obs		
AVY	70.41	219 iPc	16 27.20	0.0	SSOR	89.62	20 P	18 10.70	0.9					
BCAO	70.51	258 iPc	16 26.20	-1.5	STK	89.63	136 iPc	18 09.60	0.0					
	0.2s	92.00nm		6.5mb			0.8s	35.00nm	5.7mb					
		ic	16 36.50	33km	VBEM	89.64	19 P	18 11.12	1.2					
		ic	17 04.00		CROR	89.86	19 P	18 12.18	1.3					
VTY	70.63	219 iPc	16 28.60	0.1	RNO	90.16	21 P	18 14.21	1.9					
AVE	70.89	298 iP	16 29.20	-0.6	VIPM	90.40	19 P	18 14.53	1.0					
TIO	72.27	296 iP	16 38.90	0.6	EEO	90.55	350 eP	18 16.50	2.6					
		i	16 49.00	32km	ADE	90.64	139 iPc	18 14.80	0.5					
FINC	74.16	115 iPc	16 55.00	5.8X	LCCM	90.87	12 ePc	18 15.60	0.0	MDG	1.89	299 iPd		
YKA	74.31	10 eP	16 49.10	-0.4			e	18 26.20	33km	PMG	3.22	185 iPd		
	0.8s	76.00nm		5.7mb	FRS	90.89	229 iPd	18 15.50	0.1			eS		
MEEK	74.79	150 eP	16 52.30	-0.4			1.0s	20.00nm	5.4mb	MNDI	3.76	270 eP		
SIT	75.14	22 iP	16 54.98	0.7	CMS	91.59	132 iPc	18 18.90	0.2	WWKK	4.57	304 eP		
	0.9s	79.31nm		5.7mb			0.8s	13.00nm	5.4mb	RAB	5.10	67 eP		
		ipP	17 05.33	33km	RSNY	91.90	346 eP	18 20.65	0.5	CTA	13.88	185 iP		
ANTZ	75.56	295 iPc	16 50.00	-7.3X			0.8s	49.09nm	6.0mb	RMQ	20.24	177 eP		
		i	16 58.00	26km			ipP	18 30.95	32km			0.8s	22.00nm	
		i	17 07.00		BRS	92.55	125 iPd	18 24.00	0.8	BRS	21.70	167 iPc		
MRWA	76.23	153 iPc	17 00.90	0.1			1.0s	4.00nm	4.8mb			i		
	0.9s	49.00nm		5.5mb	LGPM	93.20	22 eP	18 27.55	1.2	ASPA	21.73	215 eP		
WARB	77.66	143 iPc	17 09.00	0.2			epP	18 38.39	34km			0.5s	39.50nm	
	0.4s	13.00nm		5.3mb	HRV	93.30	344 P	18 40.00	13.4X	Z	20s	0.20um		
BAL	77.75	153 iPc	17 09.00	-0.1			Z	19s	0.56um			eS		
	0.9s	298.00nm		6.3mb	HON	93.45	57 P	18 40.00	12.4X	DZM	24.22	133 iPd		
MUN	78.85	154 iPc	17 15.00	-0.2			Z	18s	0.23um	ARMA	24.43	171 eP		
	0.9s	232.00nm		6.2mb	RSSD	93.56	7 ePd	18 28.13	0.0			1.0s	11.00nm	
KLB	79.00	153 iPc	17 15.80	-0.2			0.8s	41.05nm	5.9mb	STK	26.15	191 eP		
ASPA	79.02	136 iPc	17 16.60	0.3			Z	21s	0.61um			0.7s	4.80nm	
	0.8s	87.70nm		5.8mb			ipP	18 38.79	33km	MEEK	34.18	230 eP		
FCC	79.38	0 ePc	17 20.00	2.3	WDC	93.59	21 P	18 40.00	12.0X	MAT	43.37	349 (P)		
RKG	81.49	155 eP	17 29.00	-0.2			Z	21s	0.60um	SSE	44.77	327 Pc		
FORT	82.25	145 eP	17 33.00	-0.2	PTI	93.67	14 eP	18 29.88	1.3			1.0s	13.00nm	
	0.6s	43.00nm		5.7mb	ARMA	94.08	128 iPc	18 31.10	0.8	NJ2	46.77	326 Pd		
CTA	83.15	125 iPc	17 38.60	0.5			0.9s	26.00nm	5.7mb	XAN	54.10	320 P		
	1.0s	32.50nm		5.4mb	BW06	94.22	12 eP	18 29.67	-1.5			1.0s	9.90nm	
		i	17 48.00	30km			0.6s	4.00nm	5.0mb			pP	26 20.80	46kmX
PGC	85.83	19 ePc	17 52.50	1.2	BFD	94.28	138 iPc	18 30.40	-0.5	CD2	55.71	314 P		1.3
	1.3s	81.00nm		5.8mb			1.1s	28.00nm	5.6mb	LZH	58.63	319 Pd		1.5
MCW	85.95	19 iPc	17 53.03	1.0	HVU	94.66	14 (P)	18 33.65	0.5			1.2s	23.00nm	5.2mb
		ipP	18 03.66	34km	ORV	94.83	21 eP	18 33.73	0.0	GUN	68.33	303 P		-1.4
SLR	86.13	230 iPd	17 54.40	1.2			epP	18 44.44	34km	PKI	68.61	303 P		-0.3
	1.1s	31.65nm		5.5mb	BWA	95.23	133 iPc	18 36.10	0.7	KKN	68.79	303 P		-2.3
STW	86.24	19 P	17 54.89	1.5	TOO	96.07	137 iPc	18 39.60	0.4	DMN	68.88	303 P		-1.4
KIC	86.42	275 Pc	17 54.72	0.0			1.0s	75.00nm	6.1mb	GKN	69.40	303 P		-2.6
	0.9s	73.50nm		5.9mb			ePcP	21 25.50		SIV	144.19	128 PKP		3.4X
		e	18 04.20	30km	CAN	96.22	133 iPc	18 39.90	0.0	KIC	152.35	272 PKP		7.7X
TIC	86.44	276 Pc	17 54.60	-0.2	CNB	96.41	133 eP	18 41.00	0.2	LIC	152.63	272 PKP		8.1X
	1.0s	49.00nm		5.7mb	BONR	97.16	19 eP	18 45.48	0.7	TIC	152.63	273 PKP		8.7X
SES	86.55	11 iPc	17 54.40	-0.5			epP	18 56.62	35km	BAO	153.48	145 PKP		8.9X
	1.0s	89.00nm		5.9mb			ePKKP	35 23.44				e	36 52.00	
		pP	18 05.00	33km	GOL	97.80	9 P	19 00.00	12.4X		S.D. = 1.5	on 21 of 29 obs.		
JCW	86.62	18 P	17 55.94	0.7			Z	20s	0.74um					
LIC	86.72	275 Pc	17 56.00	-0.2	MSU	97.94	14 (P)	18 49.38	1.2					
	0.9s	45.00nm		5.7mb	ARUT	98.40	16 (P)	18 50.51	0.3					
GMW	87.02	19 iPc	17 58.50	1.3	PV08	98.47	12 (P)	18 52.59	1.9					
		epP	18 08.86	32km	PV09	98.47	12 (P)	18 50.95	0.3					
RMW	87.34	19 iPc	17 59.94	1.1	PV10	98.60	12 eP	18 52.35	1.1					
		ipP	18 10.57	33km	FVM	100.11	357 ePdiff	18 57.32	-0.2					
WTV	87.54	17 P	17 59.88	0.1			0.6s	11.72nm	5.6mb					
NEW	87.59	15 iPd	17 59.82	-0.2			Z	18s	1.08um					
	1.0s	72.86nm		5.9mb			ipP	19 08.11						
		epP	18 10.67	34km	ELC	100.76	356 Pdiff	19 01.74	1.3					
		esP	18 17.25		CEH	101.10	348 Pdiff	19 10.00	8.1X					
		e	18 46.06				Z	19s	0.42um					

Dep 31.7 3.4 Half-duration 1.1
 Moment Tensor; Scale 10**16 Nm
 Mrr= 6.26 0.36 Mtt= 1.28 0.52
 Mff=-7.55 0.46 Mrt= 3.81 0.76
 Mrf= 9.00 1.22 Mtf=-1.90 0.41
 Principal Axes:
 T Val= 11.39 Plg=62 Azm=303
 N 1.42 7 199
 P -12.82 27 105
 Best Double Couple: Mo=1.2*10**17
 NP1: Strike=177 Dip=19 Slip= 67
 NP2: 22 72 98

SVA 12.21 338 eP 17 20.30 -8.4X
 MNG 12.69 208 eP 17 28.20 -6.8X
 MRW 13.52 208 P 17 46.50 0.5
 KHZ 14.99 209 eP 17 59.90 -5.3X
 DSZ 15.25 214 eP 18 04.50 -4.1X
 LTZ 15.84 211 eP 18 12.40 -3.8X
 DZM 16.83 293 iPc 18 30.90 1.9
 BKM 18.11 308 iPc 18 42.20 -2.6
 ODZ 18.35 209 eP 18 46.00 -1.6
 SBCZ 18.97 212 eP 18 53.50 -1.8
 MSZ 19.32 215 eP 18 59.10 -0.2
 BRS 26.80 267 iPc 20 13.50 0.3
 ARMA 27.32 260 iPc 20 19.70 1.7
 RIV 27.53 253 eP 20 23.10 3.4X
 CNB 29.03 250 iPc 20 34.60 1.2
 CAN 29.33 250 eP 20 36.90 0.8
 BWA 29.80 252 eP 20 39.30 -1.0
 TAU 31.60 235 eP 20 57.00 1.0
 CMS 32.15 257 eP 21 00.90 0.0
 TOO 32.25 246 eP 21 03.10 1.3
 BFD 34.58 246 eP 21 22.30 0.3
 CTA 34.72 277 iPc 21 23.00 -0.3
 STK 35.69 256 eP 21 31.50 0.0
 ADE 37.77 250 iPd 21 49.70 0.7
 ASPA 44.21 266 eP 22 40.60 -1.5
 Z 18s 5.70um 5.5MsZ
 GUA 56.59 314 eP 24 18.70 2.4
 PJG 56.66 314 eP 24 18.50 1.8
 MRWA 57.76 252 eP 24 22.50 -1.9
 NANU 60.45 259 eP 24 41.00 -2.1
 MAT 78.18 324 (P) 26 29.00 -2.8
 NVL 79.74 183 eP 26 49.00 9.3X
 YSS 84.55 333 ePc 27 04.00 -0.9
 NJ2 86.52 310 Pc 27 14.60 -0.4
 TNP 87.34 43 eP 27 20.20 1.0
 MDJ 88.56 325 eP 27 24.50 -0.1
 WHN 88.70 306 eP 27 25.50 -0.1
 SNY 89.84 320 Pc 27 29.60 -1.1
 CN2 90.13 322 eP 27 31.20 -0.8
 Z 1.3s 90.00nm 5.9mb
 Z 20s 0.37um 4.8MsZ
 TIA 90.19 312 Pc 27 32.50 0.0
 LOE 91.31 289 eP 27 43.10 5.1X
 GYA 92.06 299 P 27 43.00 1.5
 BJI 93.09 315 eP 27 45.00 -0.6
 Z 1.4s 48.00nm 5.7mb
 Z 20s 0.36um 4.8MsZ
 eS 38 52.00

MGD 93.25 344 eP 27 43.00 -3.0X
 TIY 94.11 311 eP 27 50.60 0.0
 Z 28s 1.04um 5.1MsZ
 XAN 94.46 307 P 27 53.00 0.8
 HHC 96.43 314 P 28 02.00 0.8
 Z 1.2s 6.10nm 5.0mb
 Z 24s 0.81um 5.1MsZ
 CD2 96.55 302 eP 28 01.80 0.0
 FBA 96.85 12 eP 28 01.30 -1.1
 Z 1.0s 1.10nm 4.3mb
 ILT 97.20 359 eP 28 02.00 -1.7
 ZOBO 97.51 113 eP 28 13.00 5.7X
 LR 00 36.00
 LZH 99.08 306 eP 28 13.50 0.2
 Z 1.0s 12.00nm 5.4mb
 GTA 103.47 308 ePd 28 33.00 0.0
 pP 28 38.50
 ELT 117.12 318 ePKP 33 15.80 -1.1
 KSH 120.71 301 ePKP 33 25.00 0.6
 BUL 124.83 209 iPKPc 33 34.20 1.3
 MTD 126.39 214 iPKPc 33 36.40 0.4
 BRVK 126.62 316 iPKPd 33 34.50 -0.7
 Z 1.6s 28.00nm
 MAIO 132.85 294 ePKP 33 47.00 -0.8
 GRS 143.43 297 ePKP 34 03.00 -4.2X
 Z 1.4s 40.00nm
 KAF 144.12 342 ePKP 34 03.30 -4.1X
 Z 0.7s 9.40nm
 OBN 145.08 326 iPKPd 34 08.00 -1.2
 Z 1.5s 220.00nm
 PYA 145.34 306 iPKPc 34 09.00 -1.1
 Z 1.0s 200.00nm
 KIV 145.62 306 PKP 34 10.80 0.1
 Z 1.6s 298.00nm
 NUR 145.90 341 iPKP 34 09.70 -0.7
 Z 0.8s 99.90nm
 SOC 147.80 306 iPKPd 34 17.50 3.5X
 NB2 148.09 353 PKP 34 16.20 2.2X
 Z 0.9s 24.30nm
 UPP 148.19 346 iPKP 34 15.90 1.8
 HFS 148.64 350 ePKP 34 16.70 1.8
 Z 0.4s 5.00nm
 ANN 149.12 309 ePKP 34 20.00 3.9X
 MNK 149.95 331 ePKP 34 20.00 3.0X
 SVST 150.61 299 ePKP 34 25.70 7.0X
 GAZ 150.73 294 iPKP 34 24.80 6.1X
 KVT 151.02 302 iPKP 34 25.00 5.8X
 TRHT 151.08 301 ePKP 34 25.50 6.1X
 BCAA 151.08 213 iPKPc 34 21.00 1.0
 Z 0.9s 68.00nm
 BNN 151.58 298 ePKP 34 28.00 7.8X
 HRI 152.06 286 ePKP 34 28.80 7.8X
 BHL 152.14 287 PKP 34 28.00 6.9X
 JVI 152.33 283 ePKP 34 29.30 7.9X
 KAS 152.62 304 ePKP 34 29.50 8.0X
 RMN 152.83 280 ePKP 34 30.20 8.0X
 BBTk 153.75 301 ePKP 34 31.00 7.8X
 CSS 154.03 290 ePKP 34 38.20 14.6X
 VRI 155.43 318 ePKP 34 43.00 17.9X
 KIC 155.71 160 PKP 34 38.00 11.6X
 OJC 155.88 333 ePKP 34 35.20 9.6X
 UZH 156.01 328 ePKP 34 35.20 9.4X
 Z 1.2s 36.00nm
 MLR 156.10 318 ePKP 34 28.00 1.8
 CLL 157.10 344 e(PKP) 34 40.00 12.9X
 BRG 157.26 342 ePKP 34 29.50 2.2X
 KHC 158.94 341 ePKP 34 30.50 1.1
 Z 1.0s 34 47.10
 e 35 05.40
 e 35 28.00

S.D. = 1.3 on 57 of 91 obs.

FEB 02, 1993 18h 17m 47.35±0.28s
 29.726 S ± 6.5km 176.870 W ± 7.6km
 DEPTH = 43.4km (6 depth phases)
 5.3mb (30 obs.) 5.4MsZ (32 obs.)
 KERMADEC ISLANDS REGION (177)
 Mw 5.6 (HRV). Ms 5.6 (BRK). Felt
 (IV) on Raoul Island.

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 40S, 84C
 Centroid Location:
 Origin Time 18:17:51.5 0.4
 Lat 29.11S 0.05 Lon 176.78W 0.04
 Dep 18.5 1.9 Half-duration 1.7
 Moment Tensor; Scale 10**17 Nm
 Mrr= 1.89 0.06 Mtt= 0.01 0.09
 Mff=-1.90 0.09 Mrt= 0.72 0.16
 Mrf= 2.40 0.31 Mtf=-0.57 0.07
 Principal Axes:
 T Val= 3.11 Plg=64 Azm=288
 N 0.17 1 196
 P -3.28 26 106
 Best Double Couple: Mo=3.2*10**17
 NP1: Strike=194 Dip=19 Slip= 88
 NP2: 16 71 91

URZ 9.87 209 eP 20 07.70 -1.9
 SVA 12.32 339 eP 20 36.10 -6.7X
 MNG 12.53 208 eP 20 38.40 -7.2X
 THZ 14.59 212 eP 21 11.30 -1.4
 KHZ 14.84 209 eP 21 11.70 -4.1X
 DSZ 15.10 214 eP 21 20.00 0.7
 LTZ 15.68 211 eP 21 25.70 -1.1
 MQZ 16.27 208 eP 21 34.40 0.2
 DZM 16.83 293 iPc 21 43.10 1.6
 BWZ 18.13 212 eP 21 56.80 -0.6
 BKM 18.14 308 iPc 21 53.60 -4.1X
 ODZ 18.19 209 eP 21 58.50 0.3
 MHZ 18.81 212 eP 22 03.30 -2.6
 MSZ 19.17 215 eP 22 08.10 -1.9
 BRS 26.73 268 iPc 23 27.00 2.3
 Z 1.0s 20.00nm 4.7mb
 ARMA 27.23 261 eP 23 30.70 1.3
 Z 0.5s 16.00nm 4.9mb
 RIV 27.42 253 eP 23 35.30 4.4X
 CNB 28.92 250 iPc 23 48.20 3.6X
 Z 1.0s 60.00nm 5.2mb
 CAN 29.22 250 eP 23 50.50 3.3X
 BWA 29.69 252 eP 23 52.10 0.6
 RMO 30.43 268 iPd 23 59.20 1.2
 Z 0.6s 73.00nm 5.6mb
 TAU 31.47 235 eP 24 09.00 2.1
 CMS 32.06 257 eP 24 11.70 -0.5
 Z 0.9s 21.00nm 5.0mb
 TOO 32.13 246 eP 24 14.60 1.7
 Z 0.6s 18.00nm 5.1mb
 BFD 34.47 247 eP 24 34.30 1.2
 Z 1.1s 15.00nm 4.8mb
 CTA 34.67 277 iPc+ 24 34.80 -0.2
 Z 1.0s 35.00nm 5.2mb
 STK 35.59 256 iPc 24 43.80 1.1
 Z 0.7s 12.50nm 5.0mb
 ADE 37.66 250 iPd 25 02.50 2.4
 ASPA 44.13 266 iPd 25 52.40 -1.2
 Z 1.3s 47.20nm 5.1mb
 Z 20s 14.30um 5.9MsZ
 FORT 47.17 254 eP 26 15.00 -2.6
 HON 53.91 22 P 27 20.00 11.3X
 Z 19s 1.19um 5.0MsZ
 DHH 53.92 22 (P) 27 05.95 -2.8
 KLB 55.49 250 eP 27 19.50 -0.8
 CSY 56.19 208 eP 27 28.00 3.1X
 Z 0.7s 52.40nm 5.7mb
 MUN 56.65 249 eP 27 28.40 -0.2
 GUMO 56.71 314 eP 27 22.90 -6.2X
 Z 23s 1.10um 4.9MsZ
 MRWA 57.65 252 eP 27 35.10 -0.6
 NANU 60.36 260 eP 27 52.00 -2.5
 Z 0.6s 26.00nm 5.5mb

	1.2 s	240.00nm			
OBN	145.16	326 ePKP	37	19.00	-2.2X
	1.0 s	120.00nm			
		e	37	33.00	
PYA	145.37	305 iPKPc	37	21.00	-1.0
KIV	145.64	305 PKP	37	22.60	0.0
	1.4 s	220.00nm			
Z	19 s	0.70um			5.5MsZ
		e	37	29.90	
NUR	146.01	341 iPKP	37	21.40	-1.1
	0.5 s	96.00nm			
SOC	147.83	306 iPKPd	37	30.00	4.0X
NB2	148.22	353 PKP	37	27.50	1.4
	1.1 s	45.60nm			
UPP	148.31	346 iPKP	37	27.10	0.9
HFS	148.77	350 ePKP	37	28.70	1.8
	1.1 s	103.40nm			
Z	23 s	0.00um			4.5MsZx
		LR	30	33.00	
ANN	149.16	309 ePKP	37	32.00	4.0X
MNK	150.03	331 ePKP	37	32.00	3.0X
SVST	150.62	299 ePKP	37	37.00	6.4X
BCAO	150.93	213 iPKPc	37	33.30	1.7
	0.8 s	77.00nm			
		ic	37	39.00	
		id	37	47.90	
KVT	151.04	302 iPKP	37	39.00	7.9X
TRHT	151.09	300 ePKP	37	37.00	5.7X
BNN	151.59	297 ePKP	37	32.00	-0.1
HRI	152.03	286 ePKP	37	40.30	7.4X
BHL	152.12	287 PKP	37	40.00	7.1X
MML	152.27	284 ePKP	37	41.10	8.0X
KAS	152.64	303 iPKPc	37	41.70	8.3X
RMN	152.78	280 ePKP	37	41.90	7.9X
BBTK	153.76	301 ePKP	37	43.00	7.9X
CSS	154.01	289 ePKP	37	44.70	9.2X
LIC	155.39	160 PKP	37	36.00	-1.8
Z	21 s	0.47um			5.3MsZ
KIC	155.60	161 PKP	37	36.00	-2.2X
OJC	155.98	333 ePKP	37	47.00	9.4X
UZH	156.09	327 iPKPc	37	48.40	10.6X
	1.3 s	42.00nm			
		i	37	53.60	
		e	38	05.30	
SPC	156.60	331 ePKP	37	40.30	1.6
CLL	157.21	344 e(PKP)	37	40.00	0.9
		i	38	09.00	
BRG	157.37	342 ePKP	37	43.20	3.9X
		i	38	10.00	
LKO	158.33	156 PKP	37	43.98	2.4X
ZST	158.66	334 ePKP	37	41.60	0.7
		i	38	15.80	
KHC	159.05	341 ePKP	37	41.50	0.1
		e	38	16.50	
		e	38	42.50	
		e	39	02.00	
GEC2	159.27	340 PKP	37	39.90	-1.8
	1.4 s	4.19nm			
VBY	161.59	332 ePKPd	37	45.50	1.5
		ePKPab	38	28.80	
BSF	161.70	352 ePKP	37	45.00	0.8
LOR	162.47	358 ePKP	37	46.20	1.3
	1.3 s	14.10nm			
Z	21 s	1.30um			
SSF	162.69	359 ePKP	37	46.40	1.3
	1.4 s	20.50nm			
LBF	162.76	358 ePKP	37	46.50	1.3
	0.8 s	6.45nm			
MFF	162.96	8 ePKP	37	45.50	0.1
	1.0 s	8.40nm			
AVF	162.96	359 ePKP	37	46.40	1.0
	0.9 s	4.40nm			
SMF	163.10	358 ePKP	37	46.60	1.1
BGF	163.19	1 ePKP	37	47.00	1.4
	1.2 s	46.40nm			
TCF	163.45	2 ePKP	37	47.20	1.3
	1.3 s	16.25nm			
MAF	163.53	1 ePKP	37	47.70	1.7
LPL	163.98	351 ePKP	37		

TURKEY (366)					VLS PAIG					SOUTHERN ITALY (390)				
MD 2.5 (ISK).					1.74 270 ePn 26 22.50 0.1					SDI 0.15 236 Pd 19 03.90 -0.6				
BNT	0.46	183	ePg	56 29.50 -0.4	1.85 22 ePn 26 23.58 -0.5					eSg 19 05.60				
EDC	0.47	188	iPg	56 30.50 0.3	2.25 340 ePn 26 30.10 0.4					AQU 0.71 323 P 19 14.60 -0.4				
			eSg	56 37.50	2.32 23 ePn 26 30.02 -0.6					RDP 0.95 268 P 19 19.10 0.0				
CTT	0.49	47	iPg	56 30.50 0.0	2.65 9 ePn 26 35.06 -0.4					eSg 19 31.80				
			eSg	56 37.00	2.77 354 ePn 26 37.00 -0.1					RMP 0.96 272 P 19 20.00 0.8				
DST	1.31	157	ePn	56 45.00 0.1	2.78 304 ePb 26 43.90 6.7X					eSg 19 31.80				
S.D. = 0.5 on 4 of 4 obs.					2.80 337 ePn 26 37.30 -0.3					SGO 1.59 141 P 19 29.20 0.1				
? FEB 02, 1993 19h 37m 15.30±14.11s					2.96 1 ePn 26 39.26 -0.5					S.D. = 0.8 on 5 of 5 obs.				
40.940 N ±30.4km 24.696 E ±108.8km					2.97 12 ePn 26 39.26 -0.8					? FEB 02, 1993 23h 53m 10.45±4.51s				
DEPTH = 10.0km (geophysicist)					3.12 357 iPn 26 42.50 0.5					32.080 S ±27.7km 179.162 W ±61.8km				
AEGEAN SEA (365)					3.29 333 iPn 26 44.50 0.0					DEPTH = 488.3 ± 20.4 km				
					3.91 345 ePn 26 53.50 0.3					4.5mb (1 obs.)				
OUR 0.81 222 ePg 37 31.10 0.1					S.D. = 0.7 on 15 of 16 obs.					SOUTH OF KERMADEC ISLANDS (179)				
			eSg	37 42.80	FEB 02, 1993 21h 34m 21.01±0.56s					HBZ 5.89 200 P 54 46.20 0.2				
SRS	0.85	282	ePg	37 31.80 0.0	32.227 S ± 5.9km 71.019 W ± 7.6km					KUZ 6.29 221 P 54 50.60 0.6				
THE	1.35	257	ePb	37 39.90 -0.2	DEPTH = 88.5 ± 8.6 km					PUZ 6.34 199 eP 54 51.20 0.6				
KNT	1.38	280	ePb	37 40.50 0.0	4.4mb (1 obs.)					eS 56 08.20				
GRG	1.74	271	iPb	37 45.93 0.2	NEAR COAST OF CENTRAL CHILE (135)					URZ 6.88 205 eP 54 55.10 -0.9				
S.D. = 0.2 on 5 of 5 obs.					MD 4.6 (SAN). Felt (V) at La					eS 56 17.70				
* FEB 02, 1993 20h 21m 47.10±1.43s					Ligua, Papudo and Quintero; (IV)					NOZ 6.91 199 P 54 57.00 0.7				
32.155 S ± 6.6km 72.025 W ±13.1km					at Valparaíso, Quillota and San					WLZ 7.20 215 eP 54 59.20 -0.1				
DEPTH = 41.8 ± 15.4 km					Felipe; (III) at Santiago and					PAHZ 7.43 203 P 55 03.30 1.5				
4.8mb (1 obs.)					San Antonio.					NGZ 8.26 210 eP 55 10.00 -0.7				
OFF COAST OF CENTRAL CHILE (134)					JACH 0.58 142 iPd 34 35.83 -0.8					WAHZ 8.43 204 eP 55 10.40 -1.9				
MD 4.4 (SAN).					ROCH 0.74 179 iPd 34 38.03 -0.3					BSZ 9.07 210 eP 55 20.20 1.1				
IHA	0.93	160	iPc	22 03.50 -0.3	IHA 0.95 213 iPc 34 40.60 0.3					MNG 9.55 205 eP 55 22.60 -1.7				
			iS	22 14.90	iS 34 54.60					eS 57 08.20				
ROCH	1.18	134	iP	22 06.57 -1.1	PEL 0.96 163 iP+ 34 40.21 -0.2					KIW 9.98 207 P 55 27.80 -0.9				
			iS	22 22.78	FCH 1.26 151 iP 34 44.21 -0.1					MTW 10.02 204 eP 55 30.10 0.9				
JACH	1.32	114	iPd	22 07.95 -1.5	SAN 1.26 166 iP 34 43.71 -0.3					CAW 10.13 206 eP 55 29.80 -0.5				
			iS	22 24.28	iS 34 59.55					MRW 10.37 207 eP 55 32.00 -0.9				
LCCH	1.37	164	iP+	22 09.73 -0.4	LCCH 1.33 200 iPd 34 45.39 0.5					eS 57 24.40				
			iS	22 28.30	TACH 1.42 177 iPd 34 46.05 -0.1					TCW 10.53 208 eP 55 34.40 -0.1				
PEL	1.50	131	iP+	22 11.36 -0.6	RTBS 1.45 67 iPd 34 47.80 1.4					QRZ 10.99 215 eP 55 39.00 -0.5				
			iS	22 30.06	PCH 1.45 163 iPd 34 46.22 -0.4					THZ 11.56 211 eP 55 46.10 0.5				
SAN	1.73	139	iP	22 15.14 -0.1	CHCH 1.73 170 iP 34 50.00 -0.1					eS 57 47.30				
			iS	22 37.15	LNV 1.75 191 iP 34 50.31 -0.1					KHZ 11.84 207 eP 55 50.00 1.6				
TACH	1.75	149	iP	22 15.81 0.3	CACH 1.92 170 iP 34 53.06 0.3					eS 57 54.50				
			iS	22 39.60	iS 35 16.78					LTZ 12.66 210 eP 55 57.50 0.3				
LNV	1.87	164	eP	22 18.19 1.0	MDZ 1.95 110 iP 34 54.50 1.5					CTA 33.14 283 iPd 59 05.60 -1.0				
			iS	22 42.70	iS 35 31.70					STK 33.17 260 iPd 59 07.90 1.2				
FCH	1.87	129	iP	22 16.97 -0.6	RTCB 2.03 69 iPd 34 55.60 1.4					0.4s 6.00nm 4.5mb				
			iS	22 41.88	RTCV 2.14 81 iPc 34 56.50 0.9					YKA 107.38 26 ePKP 10 49.40 8.2X				
PCH	1.94	139	iPd	22 18.12 -0.1	RTLL 2.35 68 iPc 34 59.60 1.1					0.6s 0.50nm				
			iS	22 43.59	CFA 2.44 76 ePd 35 01.00 1.2					KAF 145.77 339 iPKP 12 00.50 7.4X				
CHCH	2.12	147	iP	22 20.99 0.2	RFA 3.31 141 iPc 35 11.20 -0.6					0.4s 26.70nm				
			iS	22 49.67	RTPR 4.31 65 ePc 35 25.30 -0.2					OBN 145.94 323 iPKPd 12 01.00 7.4X				
RTBS	2.24	78	ePc	22 23.90 1.4	MRA 4.50 94 iPc 35 26.90 -1.2					1.0s 90.00nm				
CACH	2.29	149	eP	22 24.06 0.7	TCA 5.54 83 iP 35 40.20 -2.6					NUR 147.52 338 iPKP 12 05.90 9.9X				
			iS	22 56.08	FSA 7.52 37 ePc 36 08.20 -1.7					0.7s 47.10nm				
MDZ	2.78	106	iP	22 32.10 1.9	ANT 8.51 4 eP 36 23.00 -0.4					BCAO 147.88 215 iPKPd 12 10.00 12.0X				
			iS	23 09.20	SLA 8.91 34 e(P) 36 26.80 -2.3					0.2s 32.00nm				
RTCB	2.83	77	iPc	22 32.00 1.1	e 36 27.00					UPP 150.05 343 iPKP 12 18.50 18.7X				
RTCV	2.98	85	ePc	22 34.00 0.9	e 36 28.10					NB2 150.24 350 PKP 12 13.20 13.0X				
			S	23 12.50	CNCB 15.60 11 P 37 57.00 -0.6					0.6s 8.70nm				
RTLL	3.14	76	eP	22 35.60 0.3	LPB 15.85 10 P 38 05.00 4.3X					HFS 150.67 347 ePKP 12 12.80 12.0X				
CFA	3.27	81	e(P)	22 37.90 0.8	ZOB0 16.08 10 P 38 05.80 2.0					0.4s 4.00nm				
			S	23 20.00	1.1s 32.19nm 4.4mb					KAS 152.16 299 iPKPc 12 18.00 14.3X				
RTPR	5.07	70	eP	23 02.30 -0.3	KIC 73.71 71 P 45 47.80 0.5					S.D. = 1.1 on 22 of 31 obs.				
MRA	5.36	94	ePd	23 05.00 -1.6	GBA 145.73 115 PKP 53 52.00 0.8					FEB 03, 1993 01h 13m 04.56±0.58s				
TCA	6.38	85	iP	23 19.00 -2.2	HYB 148.83 111 ePKP 54 00.70 4.5X					38.160 N ± 8.3km 22.662 E ± 6.2km				
			(S)	24 28.50	S.D. = 1.1 on 29 of 31 obs.					DEPTH = 10.0km (geophysicist)				
FSA	8.01	43	e(P)	23 45.00 1.2	% FEB 02, 1993 21h 37m 23.89±1.30s					GREECE (364)				
CNCB	15.71	14	P	25 31.90 4.2X	42.806 N ± 9.7km 12.541 E ±14.9km					ML 3.2 (ATH).				
LPB	15.96	14	P	25 30.00 -0.7	DEPTH = 10.0km (geophysicist)					ATH 0.85 102 ePb 13 21.00 0.0				
ZOB0	16.19	14	P	25 32.70 -1.1	CENTRAL ITALY (381)					VLI 1.46 171 ePb 13 30.80 -0.1				
LKO	75.69	69	P	33 29.40 -0.8	ASS 0.28 18 Pc 37 28.80 -1.0					VLS 1.63 271 ePb 13 34.00 0.5				
			0.7s 8.50nm 4.8mb	ARV 0.75 23 P 37 40.10 1.5					KZN 2.25 342 ePn 13 42.60 0.1					
GBA	146.52	116	PKP	41 26.00 1.5	eSg 37 51.20					KEK 2.72 306 ePb 13 53.10 4.0X				
S.D. = 1.1 on 26 of 27 obs.					AQU 0.78 125 P 37 38.00 -1.1					EZN 3.30 59 ePn 14 08.00 10.7X				
FEB 02, 1993 21h 25m 53.80±0.56s					CRE 0.93 333 P 37 41.50 -0.2					TDS 5.15 289 P 14 23.60 0.0				
38.204 N ± 5.6km 22.796 E ± 7.5km					eSg 37 54.30					ORI 5.19 293 P 14 23.90 -0.3				
DEPTH = 29.7 ± 5.7 km					SFI 1.22 336 P 37 46.40 -0.2					eSn 15 14.60				
GREECE (364)					SDI 1.45 139 P 37 51.20 1.0					MGR 5.87 292 P 14 33.00 -0.6				
ML 3.0 (ATH).					S.D. = 1.4 on 6 of 6 obs.					eSn 15 32.20				
ATH	0.76	107	ePn	26 08.90 0.6	% FEB 02, 1993 22h 19m 00.93±1.20s					SGO 6.18 295 P 14 37.90 -0.1				
AGG	0.90	336	ePg	26 08.70 -1.6	41.790 N ±10.5km 13.985 E ± 9.4km					eSn 15 40.30				
			eSg	26 24.70	DEPTH = 10.0km (geophysicist)					SDI 7.66 300 P 14 59.40 0.4				
VLI	1.49	176	ePn	26 17.80 -1.0						S.D. = 0.4 on 9 of 11 obs.				

03d 02h

% FEB 03, 1993 02h 13m 16.82± 0.81s
 39.136 N ± 9.1km 22.457 E ± 9.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

AGG 0.15 221 ePg 13 20.66 0.3
 eSg 13 24.60
 PAIG 1.23 50 ePb 13 39.30 -0.4
 eSb 13 56.20
 THE 1.54 14 ePb 13 44.02 -0.4
 OUR 1.68 44 ePb 13 46.60 0.3
 IGT 1.69 284 ePb 13 45.94 -0.7
 GRG 1.82 359 ePb 13 49.18 0.8
 SOH 1.82 22 ePb 13 47.98 -0.5
 KNT 2.05 9 ePn 13 52.46 0.7
 eSn 14 18.50
 SRS 2.16 23 ePn 13 53.20 -0.2
 S.D. = 0.6 on 9 of 9 obs.

FEB 03, 1993 03h 24m 28.42± 0.66s
 18.785 N ± 2.8km 145.391 E ± 3.7km
 DEPTH = 245.0 ± 6.6 km
 5.0mb (81 obs.)

MARIANA ISLANDS (216)

Mw 5.7 (HRV). Felt lightly on
 Saipan.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 38S, 73C
 Centroid Location:
 Origin Time 03:24:32.9 0.3
 Lat 19.04N 0.03 Lon 145.52E 0.01
 Dep 214.9 1.1 Half-duration 1.6
 Moment Tensor: Scale 10**17 Nm
 Mrr= 2.32 0.06 Mtt= 0.72 0.12
 Mff=-3.03 0.11 Mrt=-2.57 0.08
 Mrf=-0.22 0.10 Mtf= 2.30 0.11
 Principal Axes:
 T Vol= 4.55 Plg=48 Azm=161
 N -0.28 40 323
 P -4.27 9 61
 Best Double Couple: Mo=4.4*10**17
 NP1: Strike=188 Dip=50 Slip= 147
 NP2: 300 65 45

NMCC 3.63 175 eP 25 30.00 1.9
 eS 26 14.00
 PJG 5.19 186 Pn 25 47.10 0.1
 GUMO 5.19 186 eP 25 47.10 0.1
 1.3s 1219.30nm 5.7mb
 e 25 49.00
 eS 26 47.20
 GUA 5.24 185 Pn 25 47.50 -0.1
 1.0s 1080.00nm 5.8mb X
 WKYJ 17.68 332 P 28 19.40 -0.9
 IIDJ 17.90 340 eP 28 20.40 -2.2
 S 31 33.70
 KAKJ 17.95 346 P 28 22.00 -1.1
 S 31 35.40
 KAGJ 18.01 316 P 28 23.40 -0.3
 CHJJ 18.10 343 P 28 23.20 -1.4
 S 31 35.30
 TKSJ 18.21 328 eP 28 25.30 -0.4
 TSRJ 18.65 335 P 28 28.50 -1.8
 MAT 18.79 342 iPc 28 29.50 -2.2
 0.8s 88.06nm 5.3mb
 eS 31 48.00
 KUMJ 18.94 319 eP 28 33.40 0.2
 MTMJ 18.95 341 P 28 32.80 -0.6
 S 31 52.60
 NIJJ 19.22 344 P 28 35.30 -0.8
 S 31 59.20
 YAMJ 19.87 348 P 28 43.40 0.8
 eS 32 22.20
 SHNJ 19.89 323 P 28 42.20 -0.5
 PLP 21.11 252 iPc 29 09.50 14.6X
 eS 30 05.00
 WWKK 22.33 185 eP 29 08.40 1.5
 CVP 22.41 271 ePd 29 10.00 2.5
 0.8s 32.00nm 4.9mb
 PIP 23.49 273 iPd 29 18.00 0.2
 HOOJ 23.59 356 eP 29 18.70 0.1
 eS 33 55.20
 BAG 23.76 268 eP 29 24.00 3.4X
 eS 33 18.00
 MRRJ 23.85 352 eP 29 20.10 -0.9
 PGP 24.04 261 ePd 29 24.00 1.0

SSE 25.07 304 Pd 29 33.80 1.4
 0.7s 54.00nm 5.2mb
 Z 20s 1.40um 4.5MsZ
 N 18s 3.50um
 E 18s 2.20um
 pP 30 13.50 203kmX
 S 33 40.00
 sS 34 56.00
 LAT 25.34 176 eP 29 34.60 -0.3
 ASAJ 25.36 355 eP 29 34.80 -0.1
 QZH 25.59 289 eP 29 39.00 1.9
 Z 18s 1.81um 4.6MsZ
 VLA 26.81 338 iPc 29 52.00 4.1X
 2.3s 460.00nm 5.7mb
 PPR 27.31 255 ePd 29 56.00 3.3X
 PMG 28.07 176 eP 29 58.00 -1.5
 YSS 28.24 356 iPd 29 59.00 -1.8
 0.5s 70.00nm 5.6mb
 e 30 54.00
 iS 34 26.00
 SNY 29.54 326 Pc 30 12.50 0.2
 1.0s 21.00nm 4.7mb
 Z 19s 1.20um 4.5MsZ
 E 13s 1.14um
 CN2 30.05 330 eP 30 17.50 0.8
 0.5s 4.70nm 4.4mb
 N 10s 0.48um
 E 10s 0.61um
 TIA 30.34 311 eP 30 20.20 0.8
 Z 16s 1.24um 4.6MsZ
 eS 35 00.00
 KKM 31.12 250 ePc 30 28.50 2.0
 0.5s 62.90nm 5.5mb
 BJI 32.87 316 eP 30 40.50 -0.8
 Z 16s 1.46um 4.8MsZ
 E 14s 1.11um
 eS 35 42.00
 eSS 38 00.00
 SKR 32.93 13 eP 30 42.50 0.8
 0.9s 170.00nm 5.7mb
 TIY 34.37 310 eP 30 54.00 -0.2
 Z 17s 1.44um 4.8MsZ
 N 15s 1.84um
 E 15s 1.55um
 S 36 05.00
 MTN 34.43 205 eP 30 55.00 0.2
 0.6s 250.00nm 6.0mb
 PET 35.69 14 eP 31 05.00 0.0
 0.6s 40.00nm 5.1mb
 eS 36 20.00
 XAN 35.81 302 eP 31 06.60 0.3
 Z 14s 2.08um 5.1MsZ
 N 13s 1.01um
 E 12s 1.03um
 pP 31 51.00 208kmX
 SS 39 11.00
 HHC 36.33 315 P 31 11.40 0.7
 1.0s 14.00nm 4.5mb
 GYA 36.45 289 iPd 31 13.60 1.7
 1.0s 19.00nm 4.6mb
 Z 20s 1.25um 4.7MsZ
 N 12s 0.93um
 E 12s 0.83um
 pP 32 00.00 218kmX
 PcP 33 30.80
 S 36 38.00
 ScP 36 54.00
 sS 37 58.00
 SS 39 26.00
 ScS 41 02.00
 BTO 37.28 313 P 31 19.00 0.4
 N 14s 1.24um
 E 12s 0.56um
 pP 32 06.00 221kmX
 eS 36 58.50
 CTA 38.64 179 iPc+ 31 29.50 -0.4
 1.1s 34.81nm 4.8mb
 i 31 32.00
 i 31 45.00
 e(PP) 32 19.00
 eS 37 09.00
 i 40 12.00
 CD2 39.45 296 Pd 31 37.50 0.9
 S 37 18.00
 sS 38 40.00
 KHKI 39.88 230 ePd 31 41.00 0.8
 e 34 24.20

KMI 39.93 287 Pd 31 43.00 2.1
 Z 20s 1.70um 4.9MsZ
 N 10s 1.60um
 E 10s 0.50um
 S 37 30.00
 WB2 39.98 196 iPc 31 41.60 0.6
 0.8s 448.40nm 6.0mb
 i 37 07.20
 eS 37 27.40
 WRA 39.99 196 P 31 41.79 0.8
 0.8s 41.80nm 4.9mb
 LZH 40.36 304 eP 31 45.00 0.9
 1.5s 27.00nm 4.5mb
 SMY 40.59 27 eP 31 43.06 -2.5
 0.6s 172.57nm 5.7mb
 MGD 41.45 4 ePd 31 52.00 -0.5
 0.6s 80.00nm 5.3mb
 e 32 50.00
 e 33 30.00
 eS 37 45.00
 CIT 41.46 331 eP 31 54.60 1.8
 TRT 41.67 234 ePd 31 56.00 1.2
 SJI 42.35 235 ePc 32 00.00 -0.4
 BKM 42.62 147 iPc 32 02.00 0.4
 NST 43.25 273 eP 32 19.20 1.5X
 CHG 43.87 278 ePc 32 13.00 1.0
 1.0s 12.50nm 4.2mb
 GTA 44.26 308 eP 32 15.00 -0.7
 1.0s 20.00nm 4.0mb
 Z 16s 0.63um 4.0MsZ
 pP 32 01.00 1.0msX
 KGM 44.44 253 ePd 32 19.00 1.0
 1.0s 152.40nm 4.1mb
 e 32 21.00 1.0mb
 KHT 44.89 272 eP 32 21.00 0.0
 SNG 45.00 261 eP 32 20.00 1.4
 RMO 45.12 176 iPc 32 21.00 1.3
 0.8s 100.00nm 4.0mb
 i 32 21.00 1.0mb
 BOD 45.27 337 eP 32 21.00 0.0
 DZM 45.53 152 iPc 32 21.00 0.0
 IPM 45.53 258 ePc 32 21.00 1.5X
 0.4s 17.30nm 4.0mb
 ZAK 45.90 323 eP 32 21.00 1.0
 1.1s 22.00nm 4.0mb
 Z 12s 0.49um 4.0MsZ
 BRS 46.46 171 iPd 32 32.00 -0.0
 1.0s 8.00nm 4.0mb
 i 32 30.00
 i 37 30.00
 MOY 47.79 324 eP 32 43.00 0.2
 WARB 48.27 203 iPc 32 48.00 1.1
 0.4s 63.00nm 5.3mb
 ARMA 49.29 173 iPc 32 53.70 -1.0
 0.7s 31.00nm 4.8mb
 SHL 49.74 288 eP 32 57.30 -1.1
 eS 39 48.00
 CMS 49.98 180 iPd 32 59.20 -0.6
 0.9s 56.00nm 5.0mb
 LSA 50.25 293 P 33 03.60 1.1
 0.8s 18.00nm 4.6mb
 Z 18s 4.12um 5.5MsZ
 pP 33 46.00 190kmX
 sP 34 14.00
 NANU 50.40 217 eP 33 13.90 10.8X
 0.4s 40.00nm
 STK 50.51 184 iPc 33 03.20 -0.6
 0.9s 16.40nm 4.5mb
 FORT 52.02 199 eP 33 15.50 0.4
 0.5s 26.00nm 4.9mb
 MEEK 52.10 211 eP 33 15.20 -0.6
 RIV 52.61 174 eP 33 19.30 0.1
 0.6s 800.00nm 6.3mb X
 BWA 52.99 177 iPc 33 21.90 -0.3
 TIK 53.74 354 eP 33 25.50 -1.7
 e 35 33.00
 iPPP 36 50.00
 iS 40 41.00
 eSS 44 24.00
 ADE 53.83 187 iPc 33 28.00 -0.3
 CAN 53.92 176 iPc 33 28.40 -0.5
 CNB 53.93 176 iPd 33 28.40 -0.7
 0.7s 60.00nm 5.2mb
 WMO 54.03 311 eP 33 30.00 0.1
 1.5s 48.00nm 4.8mb
 Z 16s 1.04um 5.0MsZ
 S 40 47.00

FLT	54.08	16	iPd	33	28.00	-1.7		1.2s	297.50nm	5.9mb	ARUT	87.14	51	ePc	36	48.69	0.4			
	1.0s		20.00nm			4.6mb	TPT	74.00	112	iPc	35	40.40	1.1							
			iS	40	45.40			1.1s	190.00nm	5.7mb	DAU	87.73	48	ePc	36	51.29	0.0			
			iSS	44	32.00		VAH	74.09	113	iPc	35	40.70	0.9	GLA	87.79	56	iPd	36	52.02	0.7
SDN	54.55	35	eP	33	32.08	-1.2		1.0s	134.40nm	5.6mb	NUR	87.79	335	eP	36	49.30	-1.4			
	0.6s		271.23nm			6.0mb	RUV	74.29	112	iPc	35	42.00	1.1		0.3s		8.20nm		5.0mb	
GUN	54.94	291	P	33	36.70	-0.3		1.1s	116.70nm	5.5mb	MSU	87.80	50	eP	36	52.10	0.6			
PKI	55.38	291	P	33	40.50	0.3	ASH	76.43	306	eP	35	52.00	-0.7				epP	37	46.75	223kmX
	0.4s		13.00nm			4.8mb	PGC	76.89	43	eP	35	57.00	2.0	BW06	87.97	45	eP	36	51.90	-0.3
KKN	55.48	291	P	33	42.00	1.3		0.7s	17.00nm	4.9mb	EMUT	88.27	48	eP	36	54.18	0.4			
	0.8s		44.00nm			5.1mb	MCW	77.28	43	P	35	59.18	1.9				epP	37	49.12	224kmX
MRWA	55.52	211	eP	33	40.20	-0.4	BMW	77.55	45	eP	35	59.40	0.6	FCC	88.72	27	eP	36	58.00	2.9X
DMN	55.65	291	P	33	42.50	0.5	GMW	77.58	44	eP	36	00.11	1.2	SRU	88.76	49	eP	36	55.76	-0.2
BFD	55.72	183	iPc	33	40.90	-0.9	JCW	77.98	43	P	36	02.09	1.0	PV09	90.00	49	ePc	37	02.14	0.3
	1.0s		58.00nm			5.1mb	YKA	78.05	28	eP	36	01.00	-0.1	PV10	90.11	49	eP	37	02.41	0.0
GKN	56.03	292	P	33	45.10	0.6		0.5s	14.80nm	5.0mb							epP	37	55.62	216kmX
TOO	56.05	180	iPc	33	44.10	-0.1	SHW	78.29	45	eP	36	04.00	1.1	PV08	90.31	49	eP	37	03.78	0.4
	0.6s		53.00nm			5.3mb	DBO	78.38	48	P	36	05.09	1.7	UPP	90.94	336	iP	37	04.10	-1.3
BAL	56.33	210	eP	33	46.00	-0.2	LON	78.43	45	eP	36	04.57	1.0				i	37	59.50	
KLB	56.67	208	eP	33	48.30	-0.3	FMW	78.47	44	P	36	04.60	0.6	RSSD	91.01	42	eP	37	05.72	-0.6
	0.8s		55.00nm			5.2mb	SSOR	78.48	46	P	36	04.92	0.9		0.9s		12.95nm		4.9mb	
ELT	56.77	322	eP	33	47.80	-1.3	VBEM	79.02	46	P	36	08.01	1.0	Z	20s		0.40um		4.8Msz	
	1.7s		37.00nm			4.7mb	LGPM	79.25	50	eP	36	09.18	1.0				epP	37	58.93	216kmX
			e	34	38.00		WTV	79.39	43	P	36	09.02	0.3	TUC	91.23	55	eP	37	08.41	1.0
			eS	41	20.00		RES	79.41	14	eP	36	09.00	0.7		1.1s		13.63nm		4.8mb	
			e	45	15.00			0.6s	4.00nm	4.3mb				Z	20s		0.27um		4.7Msz	
MUN	57.71	209	eP	33	56.40	0.6	VGB	79.45	46	eP	36	09.99	0.9				epP	38	01.82	217kmX
	0.8s		39.00nm			5.1mb			eP	37	01.42	213kmX	GOL	92.13	47	ePd	37	12.21	0.6	
TTA	59.31	27	eP	34	05.53	-1.1	CROR	79.45	46	P	36	09.71	0.5		1.3s		35.54nm		5.2mb	
	0.9s		9.29nm			4.4mb	WDC	79.55	51	P	36	20.00	10.3X				eP	38	05.10	214kmX
KDC	59.49	33	(P)	34	06.00	-0.9	Z	21s	0.76um	5.0Msz	HFS	92.19	338	ePKP	37	09.60	-1.6			
	0.7s		8.96nm			4.5mb	SAW	79.75	43	P	36	10.87	0.3		0.4s		7.20nm		5.1mb	
RKG	59.53	207	eP	34	08.70	0.4	LBFM	79.82	50	eP	36	11.87	0.5	GLD	92.21	47	eP	37	13.01	1.1
PRZ	60.70	309	iPc	34	17.50	0.9			eP	37	05.12	221kmX		1.0s		27.86nm		5.2mb		
	0.6s		60.00nm			5.4mb	VIPM	79.84	46	P	36	11.13	-0.2				epP	38	06.17	216kmX
NRI	61.28	340	eP	34	17.00	-2.7	WAH2	79.91	44	P	36	12.23	0.8	NB2	92.39	340	P	37	11.10	-1.1
	1.0s		23.00nm			4.8mb	NTYM	80.06	53	(P)	36	12.02	-0.3		0.5s		1.80nm		4.4mb	
			e	35	06.00		DPW	80.47	43	eP	36	15.01	0.6	ULM	92.69	34	eP	37	16.50	2.9
			e	42	16.00				eP	37	07.43	217kmX	ALO	93.44	51	eP	37	18.22	0.6	
			e	42	31.00		ORV	80.60	51	eP	36	15.58	0.4		1.1s		12.65nm		4.9mb	
IMA	61.31	24	eP	34	19.26	-0.9			eP	37	08.47	219kmX	Z	19s		0.28um		4.7Msz		
	1.0s		7.90nm			4.3mb	HMR	80.77	53	eP	36	17.82	1.7				epP	38	11.47	216kmX
			epP	35	08.93	216kmX	NEW	81.05	42	eP	36	17.33	-0.1	WMOK	99.11	49	P	37	50.00	6.8X
TAU	61.41	178	eP	34	19.00	-1.8		0.8s	37.43nm	5.2mb				Z	21s		0.39um		4.9Msz	
PMR	62.02	30	P	34	30.00	5.3X			eP	37	10.29	219kmX	GEC2	100.13	330	Pdiff	37	46.00	-1.5	
	Z	20s	0.84um			4.9Msz	ARN	81.21	54	eP	36	19.12	0.7		1.0s		1.33nm		4.3mb	
NDI	62.46	293	eP	34	27.50	-0.7			eP	37	11.39	216kmX				e	38	43.80		
KSH	62.58	305	eP	34	30.00	1.0	KEV	81.76	342	eP	36	21.00	0.4	RSNY	107.20	29	PKP	42	40.00	13.1X
	Z	16s	1.20um			5.2Msz	CMB	81.88	53	eP	36	22.51	0.6		Z	21s		0.23um		4.7Msz
	N	15s	1.20um					0.8s	23.30nm	5.0mb				MTD	117.27	260	iPKPc	42	45.00	-2.0
HYB	63.19	280	eP	34	32.50	-0.7			eP	37	15.43	218kmX	BUL	120.70	257	iPKPd	42	53.20	-0.3	
			eS	42	46.00		PHAM	82.53	55	eP	36	26.49	1.2	SLR	121.84	251	ePKP	42	48.10	-7.4X
FBA	63.35	26	eP	34	31.86	-1.5	SDF	83.23	340	iP	36	27.00	-1.2	BCAO	122.82	288	iPKPc	42	57.20	-0.4
	0.5s		9.83nm			4.8mb	KVN	83.27	51	eP	36	30.20	1.0		0.6s		8.00nm			
			epP	35	22.00	217kmX	BONR	83.47	52	eP	36	31.15	0.8				ic	45	28.00	
FRU	63.49	309	eP	34	32.00	-2.8	SES	84.05	39	ePc	36	32.40	-0.3	TIO	124.02	332	iPKP	42	59.50	-0.1
URZ	64.09	153	eP	34	36.60	-1.8		0.7s	48.00nm	5.4mb				SDV	135.07	55	ePKP	43	08.00	-13.2X
NGZ	64.22	154	eP	34	38.80	-0.6	ISA	84.07	54	P	36	40.00	6.9X	KIC	141.38	308	PKP	43	27.10	-5.5X
QRZ	64.45	157	P	34	40.50	-0.2	Z	18s	0.43um	4.9Msz					0.7s		13.00nm			
DIW	64.94	156	eP	34	42.70	-1.2											e	46	43.60	
GBA	65.13	277	P	34	46.00	0.4	GRO	84.12	314	eP	36	34.00	0.9	TIC	141.41	308	PKP	43	27.20	-5.5X
KIW	65.38	156	eP	34	44.40	-2.3	TNP	84.24	52	eP	36	34.63	0.5	LIC	141.69	308	PKP	43	27.00	-6.1X
MNG	65.39	155	P	34	44.80	-2.0		0.8s	26.10nm	5.1mb					0.5s		5.50nm			
	0.5s		81.00nm			5.7mb	GRS	84.99	310	eP	36	37.00	-0.8	RFA	146.04	125	ePKPc	43	39.80	-0.3
THZ	65.40	158	eP	34	45.00	-1.9	OBN	85.04	327	eP	36	45.00	7.6X	MDZ	146.30	121	i(PKP)	43	41.90	1.4
TCW	65.43	156	P	34	45.20	-1.8		1.1s	20.00nm	4.9mb	ANT	146.33	105	ePKP	43	43.00	2.3X			
MRW	65.61	156	eP	34	45.70	-2.5	LCCM	85.24	43	eP	36	39.30	0.4	RTCB	146.70	119	iPKPc	43	43.40	2.1X
MOW	65.99	156	eP	34	48.60	-2.0	TPNV	85.34	53	eP	36	39.82	0.3	RTCV	146.83	120	ePKPc	43	41.50	0.1
LTZ	66.08	159	P	34	49.00	-2.1		0.6s	20.67nm	5.1mb	RTL	147.02	119	iPKPd	43	43.50	1.8			
KHZ	66.21	158	eP	34	49.20	-2.7	GSC	85.47	54	eP	36	40.77	0.6	ZOBO	147.97	91	iPKPc	43	44.00	-0.3
	0.5s		57.00nm			5.6mb	PEC	85.67	56	eP	36	41.28	0.2		1.0s		76.50nm			
BRVK	66.29	320	eP	34	50.00	-2.4		0.8s	20.18nm	5.0mb							LR	23	26.00	
	0.8s		45.00nm			5.3mb			eP	37	32.36	209kmX	LPB	148.04	91	PKP	43	45.20	1.0	
			eS	43	19.00		HHA1	85.86	46	eP	36	43.28	1.3	CNCB	148.19	92	iPKPd	43	45.90	1.3
BWZ	66.86	161	eP	34	53.70	-2.3			eP	37	37.07	221kmX	MRA	148.97	122	e(PKP)	43	45.00	0.3	
POO	67.31	283	eP	34	57.00	-2.4	KIV	85.93	315	P	36	42.40	0.2	CCH	150.02	92	ePKP	43	47.00	-0.1
ODZ	67.56	161	eP	34	59.10	-1.2		1.4s	31.00nm	4.9mb							i	43	52.50	
QUE	71.06	296	eP	35	22.50	0.2	Z	20s	0.60um	5.0Msz	FSA	150.13	110	iPKPc	43	52.50	5.9X			
SVE	71.64	325	ePd	35	24.80	-0.1			e	46	44.80		TCA	150.21	121	iPKPc	43	51.60	4.9X	
ARU	72.81	324	eP	35	32.00	0.2	PTI	86.02	46	eP	36	43.06	0.3	SLA	150.75	107	ePKPc	43	53.20	5.4X
AFR	73.23	116	iPc	35	36.40	1.6			eP	37	36.92	221kmX	YJA	150.89	102	ePK				

CRETE	ML 4.3 (ATH).	(370)	TMA	17.77 317 ePc	59 27.30 1.6	YKA	78.66 343 eP	07 19.40 0.3
			PRU	17.99 335 eP	59 24.00 -4.1X		0.6s 1.00nm	4.0mb
					59 31.50		S.D. = 1.3 on 93 of 115 obs.	
NPS	1.20 337 eP	55 43.00 3.4X			59 41.50			
KSL	3.41 54 iPd	56 13.00 1.7	LLS	18.17 319 ePc	59 30.60 0.0			
YER	3.43 29 iPn	56 12.70 1.0	LPG	18.68 313 eP	59 38.30 1.3			
VLI	3.68 315 eP	56 16.60 1.6		0.6s 2.45nm	3.6mb			
ELL	4.00 49 iPn	56 21.90 2.1	LPL	18.70 313 eP	59 39.00 1.8			
ATH	4.30 333 eP	56 25.20 1.4		0.4s 2.70nm	3.8mb			
BCK	4.87 46 iPn	56 33.10 1.0	ZLA	18.87 320 ePc	59 38.30 -0.8			
KHL	4.96 32 ePn	56 32.60 -0.8	BRG	18.94 336 e(P)	59 43.00 3.2X			
PRK	5.08 1 eP	56 35.50 0.5	GRF	19.04 329 e(PKP)	59 40.00 -1.0			
EZN	5.66 1 iPn	56 42.50 -0.6	CLL	19.63 335 eP	59 47.00 -0.8			
AGG	5.76 329 eP	56 54.92 10.4X	BSF	19.94 319 eP	59 50.80 -0.4			
DST	5.78 19 ePn	56 44.00 -1.0	CDF	20.04 321 eP	59 51.40 -0.8			
ALT	5.83 32 ePn	56 45.00 -0.6		0.8s 16.40nm	4.4mb			
VLS	6.04 313 eP	56 50.10 1.5	HAU	20.29 319 eP	59 53.40 -1.3			
PAIG	6.10 342 eP	56 56.56 7.3X		0.7s 9.25nm	4.2mb			
HLW	6.13 133 eS	56 51.00 1.2	LBF	21.09 314 eP	00 01.10 -1.9			
				0.5s 3.20nm	4.0mb			
KCT	6.33 15 ePn	56 52.90 0.3	LOR	21.30 315 eP	00 03.70 -1.4			
OUR	6.41 345 eP	56 54.32 0.6		0.6s 5.75nm	4.2mb			
ALN	6.73 359 eP	57 03.12 4.9X	WLF	21.40 322 P	00 06.00 0.0			
RDO	7.00 356 eP	57 02.50 0.6			00 15.00			
SOH	7.02 342 eP	57 02.28 0.0	CAF	21.40 307 eP	00 05.60 -0.6			
KZN	7.07 332 eP	57 06.20 3.2X		0.8s 3.35nm	3.8mb			
SRS	7.24 344 eP	57 06.84 1.4	SSF	21.41 314 eP	00 05.40 -0.8			
GRG	7.42 337 eP	57 07.40 -0.5		1.0s 10.60nm	4.2mb			
KNT	7.46 341 eP	57 08.96 0.5	BGF	21.57 312 eP	00 07.90 0.1			
BRN	7.51 99 eP	57 07.60 -1.5		0.6s 14.25nm	4.6mb			
KEK	7.54 319 eP	57 09.00 -0.5	MAF	21.60 311 eP	00 09.00 0.9			
FNA	7.64 331 eP	57 13.00 2.1		0.8s 6.45nm	4.1mb			
ZNT	7.67 102 eP	57 09.90 -1.4	LPO	21.90 306 eP	00 11.20 0.1			
				0.9s 19.50nm	4.5mb			
VAY	7.70 339 iP	57 21.40 9.6X	RJF	21.90 308 eP	00 11.10 0.0			
JVI	8.02 104 eP	57 14.40 -1.9		0.7s 8.25nm	4.3mb			
OHR	8.15 330 eP	57 17.70 -0.3	OBN	22.17 16 eP	00 12.00 -1.7			
SAGI	8.19 116 eP	57 18.60 -0.1		0.8s 15.00nm	4.5mb			
					00 27.00			
					00 39.00			
					04 12.00			
MBH	8.59 118 eP	57 23.90 -0.4	ENN	22.22 324 eP	00 15.50 1.4			
SKO	8.65 336 iP	57 34.00 9.0X		0.7s 10.00nm	4.4mb			
	1.3s 51.00nm	5.5mb X	LSF	22.27 310 eP	00 15.60 0.9			
HOL	8.99 120 iPc	57 29.67 0.0		0.9s 15.40nm	4.5mb			
LCI	9.00 316 P	57 25.50 -4.2X	LFF	22.29 306 eP	00 15.20 0.3			
				0.8s 8.35nm	4.2mb			
SOI	9.07 298 P</							

NST 58.30 14 eP 46 15.50 11.8X
 SHL 67.16 4 eP 47 02.50 -0.3
 KMI 68.00 14 Pd 47 11.50 3.4X
 1.8s 80.00nm 5.6mb
 PKI 69.11 357 P 47 15.50 26kmX
 DMN 69.15 357 P 47 15.40 0.1
 KKN 69.33 357 P 47 15.50 -0.8
 GUN 69.43 358 P 47 17.00 0.0
 GKN 69.56 357 P 47 18.00 0.4
 GYA 70.10 18 P 47 21.80 0.9

1.0s 19.00nm 5.2mb
 Z 30s 1.56um 5.1MsZ
 S 56 32.00

LSA 71.24 3 eP 47 29.00 0.8
 1.0s 8.00nm 4.8mb
 CD2 73.82 14 eP 47 42.80 -0.1
 Z 20s 1.40um 5.2MsZ

S 57 18.00
 BCAA 77.90 287 ePc 48 04.00 -2.3
 1.4s 10.00nm 4.7mb

ic 48 09.80
 XAN 77.91 18 P 48 05.50 -0.4
 Z 22s 1.58um 5.3MsZ

LZH 78.89 13 eP 48 13.00 1.6
 2.0s 30.00nm 5.0mb
 Z 28s 1.12um 5.1MsZ

GTA 81.57 9 eP 48 24.00 -1.6
 1.2s 31.00nm 5.2mb
 Z 20s 1.15um 5.2MsZ

KSH 81.66 351 eP 48 24.00 -2.0
 TIA 82.11 23 eP 48 28.00 -0.3
 1.2s 16.00nm 5.0mb
 Z 22s 1.13um 5.2MsZ

TIY 82.24 19 eP 48 31.50 2.4
 Z 28s 1.49um 5.2MsZ
 N 20s 2.07um

BTO 84.44 17 eP 48 40.00 -0.3
 HHC 85.02 18 P 48 43.20 0.0
 Z 20s 1.62um 5.4MsZ

N 18s 1.81um
 WMO 85.28 360 P 48 45.00 0.7
 Z 18s 1.31um 5.4MsZ

BJI 85.40 21 eP 48 45.00 0.1
 Z 20s 1.50um 5.4MsZ
 N 20s 1.77um

eS 59 14.00
 S.D. = 1.2 on 28 of 30 obs.

* FEB 03, 1993 05h 38m 52.94±1.31s
 26.338 S ± 5.3km 71.125 W ± 13.7km
 DEPTH = 25.5 ± 11.2 km
 3.8mb (1 obs.)

OFF COAST OF NORTHERN CHILE (121)

ANT 2.70 14 eP 39 36.00 0.4
 iS 40 17.00

FSA 4.60 88 eP 40 03.30 0.7
 SLA 5.33 74 e(P) 40 14.80 1.6
 e 40 16.00

RTLL 5.49 156 iPc 40 15.50 0.2
 S 41 21.00

RTBS 5.50 165 ePd 40 16.60 1.3
 RTCB 5.52 159 eP 40 16.00 0.3
 S 41 21.50

CFA 5.83 155 e(P) 40 20.40 0.4
 RTCV 5.95 158 ePc 40 21.50 -0.2

YJA 6.60 52 ePd 40 32.20 1.0
 PEL 6.79 177 eP 40 42.00 8.4X
 MDZ 6.82 164 e(P) 40 38.50 4.6X

TCA 7.59 133 i(P) 40 43.00 -1.8
 (S) 41 04.00

MRA 7.68 143 e(P) 40 44.20 -1.7
 RFA 8.71 165 ePc 40 57.40 -3.0X

CNCB 9.92 18 P 41 17.40 -0.2
 CCH 10.04 28 eP 41 26.00 7.1X
 LPB 10.15 17 eP 41 15.00 -5.6X

e 41 40.00
 ZOBO 10.38 16 P 41 22.90 -1.0
 SIV 13.92 44 P 42 09.40 -1.5

YKA 95.08 341 eP 52 15.10 0.8
 0.7s 0.30nm 3.8mb
 S.D. = 1.2 on 15 of 20 obs.

FEB 03, 1993 06h 10m 28.53±0.62s
 49.149 N ± 5.0km 6.931 E ± 6.8km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)
 ML 2.5 (STR).

LANF 0.60 106 Pg 10 39.87 -0.8
 HOFF 0.71 107 Pg 10 42.43 -0.1
 WLF 0.72 316 iPd 10 41.19 -1.6

iS 10 50.76
 CDF 0.77 163 Pg 10 42.69 -1.0
 Sg 10 54.17

WLS 0.79 159 Pg 10 42.86 -1.0
 ECH 0.95 171 Pg 10 46.42 -0.2
 Sg 11 00.13

VITF 1.12 214 Pg 10 49.49 -0.1
 MOF 1.31 174 Pg 10 53.32 0.6
 Sg 11 11.36

BSF 1.32 184 Pg 10 52.80 -0.2
 TNS 1.46 42 ePnd 10 55.80 0.8
 eSn 11 13.50

FEL 1.46 150 ePg 10 55.49 0.4
 ENN 1.75 339 iPn 10 59.90 0.9
 0.5s 19.00nm

eSn 11 24.00
 LOMF 1.80 182 Pg 11 02.16 2.2
 S.D. = 1.1 on 13 of 13 obs.

* FEB 03, 1993 06h 38m 54.04±0.59s
 40.570 N ± 5.7km 23.363 E ± 5.3km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

SOH 0.25 358 ePg 38 59.24 -0.2
 eSg 39 03.08

THE 0.31 282 ePg 39 00.56 0.1
 eSg 39 05.76

OUR 0.53 116 iPg 39 04.40 -0.3
 iSg 39 11.38

SRS 0.57 18 ePg 39 05.40 -0.3
 eSg 39 14.16

PAIG 0.69 159 ePg 39 07.32 -0.3
 iSg 39 17.68

KNT 0.69 329 ePg 39 07.24 -0.4
 eSg 39 17.92

GRG 0.83 298 ePg 39 10.48 0.4
 eSg 39 22.30

ALN 2.06 80 ePn 39 30.10 0.9
 S.D. = 0.6 on 8 of 8 obs.

* FEB 03, 1993 08h 36m 57.82s
 50.600 N 130.436 W
 DEPTH = 10.0km (geophysicist)

VANCOUVER ISLAND REGION (25)
 <PGC-P>. ML 3.7 (PGC).

HOLB 1.47 88 Pn 37 21.99 -2.4
 Sn 37 39.72

PHC 1.92 86 Pn 37 28.67 -2.1
 Sn 37 50.69

EDB 2.25 108 Pn 37 33.31 -2.3
 GDR 2.95 104 Pn 37 43.42 -2.1

CBB 3.30 98 Pn 37 48.70 -1.8
 BTB 3.36 108 Pn 37 49.25 -2.4

OZB 3.60 115 Pn 37 52.26 -2.6
 STW 5.05 116 P 38 14.24 -1.2

MCW 5.30 108 P 38 18.43 -0.5
 HDW 5.67 119 P 38 23.89 -0.4

MBW 5.83 105 P 38 25.77 -0.7
 CMW 5.84 109 P 38 25.93 -0.6

JCW 6.05 110 P 38 28.79 -0.7
 RPW 6.20 107 P 38 30.29 -1.3

RMW 6.49 116 P 38 34.74 -1.0
 RVC 6.68 120 P 38 38.32 -0.2

REMR 6.83 120 P 38 40.41 -0.2
 FMW 6.86 119 P 38 40.43 -0.6

LON 6.89 121 P 38 40.97 -0.3
 NLW 7.06 107 P 38 42.32 -1.5

ETW 7.28 110 P 38 45.92 -0.9
 DHW2 7.45 106 P 38 47.69 -1.5

WTV 7.46 109 P 38 48.03 -1.3
 EBG 7.49 116 P 38 49.84 0.1

* FEB 03, 1993 08h 44m 17.09±1.66s
 38.386 N ± 10.8km 26.840 E ± 14.2km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
 MD 3.3 (ISK).

IZM 0.33 88 iPg 44 22.90 -1.1
 iSg 44 29.40

CIN 1.26 128 ePn 44 36.00 -4.5X
 iSg 44 56.00

EZN 1.49 345 iPn 44 42.80 -1.1
 YER 1.69 137 iPn 44 47.40 0.5

DST 1.85 48 ePn 44 49.50 0.3
 EDC 2.11 22 ePn 44 54.00 1.1

BNT 2.14 23 ePn 44 53.00 -0.3
 KCT 2.20 32 iPn 44 54.80 0.6
 S.D. = 1.0 on 7 of 8 obs.

? FEB 03, 1993 08h 52m 41.37±5.73s
 41.377 N ± 46.6km 23.254 E ± 10.9km
 DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

KNT 0.34 231 ePg 52 48.60 0.1
 eSg 52 55.80

SRS 0.36 135 ePg 52 48.92 0.1
 eSg 52 54.80

SOH 0.56 172 ePg 52 52.72 -0.1
 GRG 0.77 237 ePg 52 56.30 -0.1
 S.D. = 0.2 on 4 of 4 obs.

* FEB 03, 1993 12h 02m 02.04±2.22s
 32.245 S ± 16.1km 70.190 W ± 17.3km
 DEPTH = 153.6 ± 23.0 km

CHILE-ARGENTINA BORDER REGION (127)
 MD 3.5 (SAN).

JACH 0.55 218 iP 02 23.76 -0.7
 iS 02 37.99

PEL 0.99 205 iP 02 26.87 -0.5
 iS 02 42.95

ROCH 1.00 223 iP 02 27.31 -0.4
 iS 02 44.13

FCH 1.08 184 iP 02 28.37 -0.2
 iS 02 45.64

PCH 1.40 191 iP 02 31.84 0.6
 iS 02 51.10

RTCB 1.40 58 iPc 02 31.70 0.4
 S 02 51.50

TACH 1.54 204 iP 02 32.54 -0.1
 iS 02 53.25

LCCH 1.69 223 iP 02 34.74 0.5
 iS 02 56.99

RTLL 1.73 59 iPd 02 35.40 0.7
 S 02 57.50

CHCH 1.73 193 iP 02 35.22 0.5
 iS 02 57.89

CACH 1.90 190 iP 02 36.91 0.2
 LNV 1.99 211 iP 02 37.40 -0.2

iS 03 02.23
 TCA 4.85 81 iP 03 13.60 -0.8
 S 04 05.00

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

FEB 03, 1993 12h 27m 01.96±0.64s
 33.590 S ± 6.1km 68.092 W ± 5.4km
 DEPTH = 10.0km (geophysicist)

MENDOZA PROVINCE, ARGENTINA (139)
 MD 4.1 (SAN).

MDZ 0.95 318 iP 27 18.90 -1.2
 i 27 32.40

i 27 52.10
 RFA 1.22 195 iPd 27 23.00 -1.7

RTCV 1.76 348 ePc 27 32.30 -0.5
 S 27 57.60

FCH 1.86 278 iP+ 27 33.51 -0.9
 iS 27 58.10

PCH 2.02 268 iPd 27 36.32 -0.2
 iS 28 02.50

SAN 2.15 273 iP 27 38.05 -0.3
 iS 28 06.52

CACH 2.15 255 iP 27 38.66 0.2
 iS 28 06.48

CHCH 2.16 260 iP 27 38.84 0.3
 iS 28 06.85

RTCB 2.18 344 ePd 27 38.20 -0.7

03d 12h

PEL	2.22	281	iP	27 39.15	-0.2
			iS	28 07.57	
RTLL	2.28	352	ePd	27 40.00	-0.2
			S	28 09.50	
JACH	2.29	293	iP	27 40.53	0.1
			iS	28 09.92	
MRA	2.32	60	eP	27 42.00	1.2
			S	28 12.30	
TACH	2.38	268	iP	27 41.94	0.3
			iS	28 13.07	
ROCH	2.52	283	iP	27 44.95	1.1
			iS	28 17.37	
LVN	2.79	262	iP	27 48.87	1.4
			(S)	28 24.65	
LCCH	2.91	271	iP	27 50.33	1.2
			(S)	28 27.29	
TCA	3.71	54	iP	28 00.00	0.1
			(S)	28 58.00	

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

* FEB 03, 1993 14h 09m 59.58±1.24s
 31.694 N ±15.1km 131.908 E ±11.1km
 DEPTH = 33.0km (normal)
 4.0mb (2 obs.)

KYUSHU, JAPAN (235)

KAGJ	1.01	240	iP+	10 18.50	1.1
			S	10 33.60	
KUMJ	1.24	313	iP+	10 21.20	0.5
			S	10 38.10	
SHNJ	2.52	345	P	10 39.50	0.5
TKSJ	2.91	38	eP	10 45.20	0.6
WKYJ	3.99	50	eP	10 59.70	-0.4
BJI	15.22	308	eP	13 38.00	4.4X
LZH	23.67	288	eP	15 07.00	-2.1
	1.5s		16.00nm		4.3mb
YKA	72.22	27	eP	21 22.70	-0.2
	0.6s		0.40nm		3.6mb

S.D. = 1.3 on 7 of 8 obs.

& FEB 03, 1993 14h 27m 18.50s
 37.472 N 118.851 W
 DEPTH = 11.7km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 2.9 (GM). ML 3.0
 (BRK).

MMPM	0.20	314	ePd	27 22.86	-0.3
			S	27 25.54	
MEMM	0.21	340	eP	27 23.07	0.0
MTUM	0.26	117	ePc	27 23.62	-0.5
MRCM	0.34	54	iPc	27 25.29	-0.4
BONR	0.65	42	eP	27 30.39	-1.1
CMB	1.34	295	eP	27 42.95	-0.1
			eS	28 00.15	
TNP	1.43	64	eP	27 44.66	0.2
KVN	1.68	20	(P)	27 48.89	0.8
			eS	28 07.05	
			iLg	28 12.45	
PKEM	1.73	216	(P)	27 49.66	1.0
ISA	1.83	170	eP	27 51.25	1.1
			eS	28 14.91	
PHAM	2.05	218	eP	27 54.24	1.0
			eS	28 18.36	
			eLg	28 25.76	
ARN	2.14	268	eP	27 55.50	0.9
			iLg	28 25.96	
TPNV	2.14	103	(P)	27 53.13	-1.6
			eS	28 25.47	
SAO	2.19	252	ePc	27 56.46	1.2
			eS	28 24.71	
MHC	2.23	267	eP	27 57.62	1.7
			eS	28 26.05	
COE	2.26	265	(P)	27 55.83	-0.4
			eS	28 25.10	
BCH	2.49	204	eP	28 00.39	0.8
ORV	2.94	316	eP	28 03.85	-2.0
			iLg	28 48.94	
ARUT	4.31	84	(P)	28 28.55	3.0
GLA	5.50	142	(P)	28 40.00	-2.3

20 obs. associated

% FEB 03, 1993 14h 40m 05.50±0.79s
 33.115 S ± 7.1km 68.094 W ± 9.3km
 DEPTH = 33.0km (normal)
 MENDOZA PROVINCE, ARGENTINA (139)

RTCV	1.31	343	ePd	40 27.00	-0.6
			S	40 44.00	
CFA	1.51	355	ePc	40 30.70	0.2
			S	40 50.70	
RFA	1.68	191	ePc	40 33.00	-0.1
			S	40 57.60	
RTCB	1.73	340	eP	40 34.50	0.7
			S	40 55.00	
RTLL	1.81	350	ePd	40 34.70	-0.2
			S	41 00.00	
MRA	2.13	71	ePd	40 40.00	0.6
			S	41 11.80	
TCA	3.46	60	eP	40 57.80	-0.6

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

FEB 03, 1993 15h 04m 38.21±1.03s
 39.702 N ± 6.5km 143.675 E ±12.5km
 DEPTH = 33.0km (normal)
 OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.67	249	iP+	05 05.60	0.0
			eS	05 25.30	
AOMJ	2.67	290	P	05 19.00	-0.8
HOOJ	2.69	354	eP	05 20.40	0.3
			eS	05 50.40	
YAMJ	3.22	243	P	05 27.80	0.1
MRRJ	3.36	325	eP	05 29.90	0.3
			eS	06 04.60	
KUSJ	3.48	13	iPd	05 31.20	-0.1
			S	06 08.90	
NIJ	4.42	238	P	05 44.60	0.0
KAKJ	4.45	219	P	05 44.60	-0.6
			S	06 33.70	
ASAJ	4.48	350	eP	05 45.40	-0.1
CHJJ	5.20	227	P	05 55.30	-0.4
			eS	06 52.30	
MAT	5.34	236	eP	05 58.00	0.3
	0.7s		13.01nm		4.5mb X
			eS	07 25.00	
MTMJ	5.58	238	P	06 02.20	1.1
GUN	48.69	275	P	13 22.00	0.3
KKN	49.21	275	P	13 25.80	0.2

S.D. = 0.5 on 14 of 14 obs.

? FEB 03, 1993 15h 19m 11.40±0.99s
 39.085 N ± 8.4km 27.652 E ±10.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM	0.75	204	iPg	19 26.00	-0.1
			eSg	19 38.00	
DST	0.92	55	iPn	19 29.30	0.3
EZN	1.27	306	ePn	19 35.20	0.3
EDC	1.27	7	iPn	19 34.50	-0.5

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

FEB 03, 1993 15h 20m 18.02±0.14s
 6.085 N ± 2.4km 125.915 E ± 3.6km
 DEPTH = 144.8km (11 depth phases)
 5.3mb (73 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

Mw 5.3 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 20S, 29C

Centroid Location:

Origin Time 15:20:17.4 0.7

Lat 6.07N Fix:Lon 125.92E Fix

Dep 133.2 3.5 Half-duration 1.0

Moment Tensor: Scale 10**16 Nm

Mrr=-0.70 0.53 Mtt= 7.61 0.70

Mff=-6.91 0.91 Mrt= 0.66 0.51

Mrf= 4.72 0.60 Mtf= 0.95 0.73

Principal Axes:

T Val= 7.81 Plg= 8 Azm=354

N 1.66 60 250

P -9.47 29 88

Best Double Couple:Mo=8.6*10**16

NP1:Strike=127 Dip=64 Slip=-16

NP2: 224 76 -153

DAV 1.05 341 iPd 20 43.00 0.0

PLP 5.13 350 ePd 21 34.70 0.7

TNE 5.44 165 iPc 21 36.50 -1.6

TSM 8.20 258 ePc 22 17.70 2.3

PGP	8.84	327	eP	22 26.50	2.5
TGY	9.35	329	ePd	22 30.50	-0.3
KKM	9.65	270	ePc	22 38.60	3.9X
	0.3s		26.80nm		5.4mb
			e	22 49.90	
AAI	9.97	167	eP	22 37.50	-1.4
BAG	11.52	333	eP	23 02.00	2.6
CVP	12.22	341	eP	23 07.00	-1.4
MKS	12.94	210	iPd	23 21.20	3.5X
PIP	13.22	337	iPc	23 25.50	4.2X
	1.0s		139.00nm		5.3mb
KUG	16.29	188	eP	24 02.50	2.5
			e	27 21.50	
WSI	16.63	200	e(P)	24 03.00	-1.1
KHKI	17.65	216	ePd	24 17.80	1.3
			e	26 53.00	
TRT	19.06	224	ePc	24 30.50	-1.2
MTN	19.51	165	eP	24 36.00	-0.4
	0.4s		208.00nm		5.9mb
SJI	19.69	226	ePc	24 37.00	-1.2
HKC	19.71	326	iP	24 38.40	-0.1
QZH	20.02	340	Pc	24 41.30	-0.3
	0.7s		120.00nm		5.4mb
			S	28 12.00	
GUMO	20.09	67	eP	24 41.40	-1.0
PJG	20.09	67	eP	24 41.00	-1.4
WWKK	20.14	118	eP	24 46.20	3.3X
QIZ	20.26	311	Pc	24 45.00	0.9
GZH	20.80	326	P	24 49.00	-0.4
KGM	22.89	261	eP	25 09.00	-1.0
YYYY	23.46	121	eP	25 16.00	0.2
LAT	24.56	121	eP	25 25.30	-0.7
IPM	24.83	268	ePc	25 29.00	0.5
	0.8s		51.10nm		5.1mb
SNG	25.15	274	eP	25 33.00	1.5
SSE	25.27	350	P	25 33.00	0.5
	1.0s		74.00nm		5.2mb
Z	20s		0.50um		4.0msz
			S	29 51.00	
KAGJ	25.40	10	P	25 33.40	-0.3
PMG	26.17	126	eP	25 40.00	-0.9
LOE	26.18	298	eP	25 41.00	0.1
NNT	26.61	286	eP	25 45.80	0.9
WHN	26.65	337	Pd	25 45.00	-0.1
NJ2	26.66	347	Pd	25 45.00	-0.2
	0.6s		10.00nm		4.6mb
KUMJ	26.71	9	P	25 45.30	-0.3
NST	27.02	293	eP	25 58.50	9.9X
WRA	27.16	162	P	25 49.20	-0.6
WB2	27.17	162	iPd	25 48.90	-1.0
	0.4s		59.00nm		5.6mb
			iS	30 15.80	
GVA	27.34	320	P	25 51.60	0.0
			PcP	29 07.80	
			ScP	32 35.00	
KHT	28.20	290	eP	25 59.00	-0.2
SHNJ	28.31	9	eP	25 59.80	-0.2
BDT	28.55	295	eP	26 03.00	0.7
TKSJ	28.77	14	P	26 04.20	0.1
CHG	29.16	298	ePc	26 07.30	-0.6
KMI	29.17	313	Pd	26 09.00	0.9
	1.5s		90.00nm		5.3mb
WKYJ	29.40	16	eP	26 09.90	0.1
NANU	30.23	199	eP	26 26.50	9.3X
ASPA	30.58	165	iPd	26 19.60	-0.7
	0.6s		131.50nm		5.8mb
Z	20s		0.30um		3.9msz
			eS	31 05.50	
			iScS	36 38.90	
TIA	31.05	346	eP	26 23.40	-0.9
	0.8s		12.00nm		4.7mb
WARB	32.08	179	eP	26 33.50	0.1
	0.4s		24.00nm		5.4mb
CD2	32.28	323	Pc	26 34.00	-1.1
	0.9s		25.00nm		5.0mb
MAT	32.34	19	iPd	26 34.30	-1.2
	0.8s		17.16nm		4.9mb
CTA	32.81	143	iPd	26 40.00	0.2
	1.0s		37.50nm		5.1mb
DL2	32.90	354	eP	26 40.50	0.2
	0.8s		220.00nm		6.0mb
MEEK	33.29	192	iPc	26 43.40	-0.5
	0.4s		44.00nm		5.6mb
TIY	33.79	341	eP	26 47.20	-0.9
YAMJ	34.42	20	P	26 53.70	0.3
BJI	34.92	347	eP	26 57.00	-0.6

	1.0s	98.00nm	5.5mb			e	30 10.30		0.9s	22.34nm	5.0mb
		eS	32 22.00		GBA	48.27 283 P	28 46.90 0.3		TOA	83.69 28 eP	32 34.00 2.5
		eScP	33 02.00			0.4s 6.00nm	4.7mb		OBN	84.66 325 iPc	32 36.00 -0.4
		eScS	37 05.00		DZM	48.56 126 iPd	28 48.90 0.1		HRI	1.0s 88.00nm	5.6mb
SNY	35.65 357	iPc	27 04.30 0.6		IRK	49.37 343 eP	28 53.80 -0.7		JVI	86.85 303 eP	32 48.20 0.3
	0.8s	340.00nm	6.1mb			e	30 17.50 419kmX		PRNI	87.30 302 eP	32 50.20 0.2
		S	32 27.00		MOY	49.92 340 eP	28 57.00 -1.6		KAF	87.76 300 eP	32 52.60 0.4
		ScS	37 08.00		WMO	50.34 324 P	29 02.00 -0.1		NUR	89.15 332 iP	32 56.90 -1.2
OFUJ	35.80 21	eP	27 05.10 0.1		NDI	51.17 302 iPc	29 07.20 -1.4			0.7s 36.00nm	5.5mb
LZH	36.08 329	iPc	27 07.50 -0.1			0.6s 80.00nm	5.7mb		VRI	90.26 331 iP	33 02.20 -1.0
	1.2s	66.00nm	5.3mb		POO	52.17 289 iPd	29 24.00 7.8X		MLR	0.8s 42.90nm	5.6mb
		pP	27 40.00 146km		BOD	52.44 352 iPc	29 17.60 0.1		UZH	92.04 316 eP	33 11.50 -0.3
		sP	27 55.00			1.0s 73.00nm	5.4mb			92.65 316 ePd	33 14.50 -0.3
		ScP	33 04.00		TAU	52.50 160 eP	29 19.00 0.8			94.39 320 iPc	33 21.80 -0.7
MRWA	36.37 195	eP	27 10.10 0.1		PRZ	55.41 318 iPd	29 39.50 -0.2		HFS	1.0s 40.00nm	5.7mb
AOMJ	36.69 19	eP	27 13.50 1.0			e	30 14.00 148km			e	33 58.80 144km
FORT	36.71 177	eP	27 13.00 0.3		KSH	55.79 314 P	29 42.60 0.1		RES	0.4s 3.20nm	5.0mb
	0.4s	28.00nm	5.4mb			0.8s 40.00nm	5.4mb			95.65 10 eP	33 29.50 1.6
HHC	36.92 342 P		27 14.60 0.0		YAK	55.88 2 iPc	29 42.40 -0.1			1.0s 3.00nm	4.7mb
	1.2s	30.00nm	4.9mb			0.9s 230.00nm	6.1mb		NB2	96.33 334 P	33 29.70 -1.5
SVO	37.02 114	eP	27 22.00 6.4X			eP	30 15.00 139km			0.8s 14.80nm	5.5mb
COOL	37.04 187	eP	27 15.00 -0.6			e	30 43.00		NAO	96.59 333 P	33 29.62 -2.7
BTO	37.20 340	eP	27 17.00 0.1			eS	37 19.00		YKA	97.70 24 eP	33 37.10 -0.2
HNR	37.25 114	eP	27 15.00 -2.5			e	39 09.00			0.9s 6.60nm	5.1mb
BAL	37.53 193	eP	27 20.80 1.1		ELT	57.02 333 eP	29 49.00 -1.7		CLL	99.27 324 eP	33 44.00 -0.6
CN2	37.57 359	eP	27 19.60 -0.2			1.9s 39.00nm	5.0mb			1.5s 15.00nm	5.3mb
	1.0s	35.00nm	5.1mb		MGD	57.10 15 ePc	29 51.00 -0.2		GEC2	99.75 322 P	33 46.00 -1.0
SHL	37.86 305	iPd	27 22.70 0.0			0.8s 150.00nm	6.0mb			0.9s 2.33nm	4.7mb
	0.8s	50.37nm	5.3mb			e	30 47.00 251kmX		VBY	99.90 318 ePDf	33 47.10 -0.5
		eS	33 10.50		MSZ	63.03 148 P	30 32.40 0.7		BCAO	106.74 276 iPKPd	38 29.40 0.6
KLB	38.27 191	iPd	27 26.40 0.6			0.5s 48.00nm	5.7mb			0.6s 5.00nm	
	0.4s	41.00nm	5.5mb			e	31 06.60 143km		PV10	112.56 44 ePKP	38 40.63 1.2
MDJ	38.51 4	Pc	27 28.50 0.8		DSZ	63.38 143 eP	30 35.70 1.6		FVM	124.64 35 (PKP)	38 58.18 -4.0X
	1.0s	110.00nm	5.6mb			e	31 09.70 142km		KIC	129.22 283 PKPd	39 11.84 0.1
		S	33 10.00		THZ	64.05 143 P	30 38.00 -0.5			0.7s 21.00nm	
MRRJ	38.60 18	eP	27 29.90 1.4			0.5s 11.00nm	5.0mb			e	42 20.00
MUN	38.97 193	iPc	27 31.90 0.3			64.28 144 eP	30 39.40 -0.6		TIC	129.43 284 PKP	39 12.04 -0.1
	0.8s	111.00nm	5.7mb		LTZ	64.82 143 eP	30 42.40 -1.0			e	42 21.00
RMO	39.23 147	iPc	27 33.70 -0.2		KHZ	0.5s 33.00nm	5.5mb		LIC	129.53 283 PKP	39 12.32 0.0
		iS	33 28.40			64.99 327 iPc	30 42.80 -1.5			e	42 21.50
HOQJ	39.29 20	eP	27 36.20 2.0		BRVK	1.2s 24.00nm	5.0mb		PEL	148.96 152 iPKP	39 52.80 6.2X
KUSJ	40.43 21	eP	27 44.40 0.9			65.00 140 eP	30 43.80 -0.8		RTCB	151.22 153 iPKPc	39 57.80 7.7X
ASAJ	40.62 19	eP	27 46.70 1.6		MNG	65.50 1 eP	30 47.00 -0.2		RTLL	151.50 154 iPKPc	39 57.70 7.2X
GTA	40.67 328	P	27 45.50 -0.2		TIK	2.0s 102.00nm	5.4mb		TCA	153.02 160 iPKPd	40 01.60 8.9X
	1.0s	28.00nm	4.9mb			i	31 24.00 154km			S.D. = 1.0 on 156 of 170 obs.	
		pP	28 20.00 156kmX			i	33 10.00				
		PcP	29 45.00			eS	39 18.00				
		ScP	33 21.00			ePS	39 37.00				
CMS	41.92 154	iPd	27 56.10 0.2			e	40 27.00				
	0.5s	5.00nm	4.4mb		MAIO	67.45 307 eP	31 00.00 -0.5				
		e	29 35.40 553kmX			0.8s 16.47nm	4.9mb				
BRS	42.22 143	iPc	27 58.00 -0.4			67.88 346 (P)	31 00.00 -2.4				
	0.4s	48.00nm	5.5mb		NRI	1.3s 71.00nm	5.3mb				
		iP	28 09.00 39kmX			e	31 46.00 195kmX				
		iS	28 27.00			68.62 308 eP	31 07.00 -0.5				
		i	29 39.00		ASH	1.2s 110.00nm	5.6mb				
		iScP	33 30.00			71.87 19 iPc	31 26.30 -0.3				
		e	34 08.00		ILT	1.0s 110.00nm	5.6mb				
ADE	42.58 164	iPd	28 03.10 1.9			i	32 05.00 159kmX		MIAR	23.78 347 eP	38 05.35 -0.5
YSS	43.27 17	ePd	28 07.00 0.4			73.06 186 eP	31 34.40 0.9			0.8s 14.29nm	4.5mb
GUN	43.71 305	P	28 10.40 -0.5		CSY	0.4s 27.00nm	5.3mb			i	38 13.77
ARMA	43.87 147	iPd	28 12.40 0.5			75.70 34 eP	31 48.36 -0.6		GBTN	24.29 6 eP	38 10.63 -0.2
	0.4s	26.00nm	5.2mb		SDN	1.3s 320.08nm	5.9mb		MEQ	25.52 338 iPc	38 23.50 1.0
PKI	43.97 304	P	28 12.80 -0.2			78.12 309 iPc	32 03.00 0.1		WMOK	25.55 337 eP	38 22.39 -0.4
	0.7s	41.00nm	5.2mb		GRS	1.3s 80.00nm	5.3mb			1.1s 69.27nm	5.2mb
KKN	44.16 304	P	28 14.20 -0.2			i	32 38.00 140km			e	38 31.71
DMN	44.23 304	P	28 15.00 -0.1			78.75 313 eP	32 05.00 -1.0		ELC	25.84 356 eP	38 23.91 -1.5
	0.6s	36.00nm	5.2mb		GRO	i	32 42.00 149km		ACO	27.43 339 iPc	38 40.10 0.0
GKN	44.76 304	P	28 19.00 -0.1			79.13 29 eP	32 10.40 2.6		PV08	33.20 328 (P)	39 32.86 1.3
BWA	45.56 154	iPd	28 27.30 2.2		SVW	79.18 27 ePc	32 09.02 0.9		PV10	33.25 328 eP	39 30.95 -1.0
		iP	28 32.60 18kmX		TTA	1.3s 40.92nm	5.0mb		CNCB	33.80 146 eP	39 44.00 6.7X
		ePcP	29 13.50			79.35 311 iP	32 09.00 -0.3			i	40 58.30
		ePP	30 17.40		MTA	80.21 19 ePc	32 15.50 2.2		SRU	34.58 327 eP	39 42.99 -0.4
BFD	45.76 161	iPd	28 27.30 0.7		BRW	80.40 33 eP	32 15.60 1.1		RSNY	1.1s 23.28nm	5.0mb
	0.7s	61.00nm	5.4mb		KDC	1.1s 70.21nm	5.3mb			34.93 313 (P)	39 45.00 -1.4
CAN	46.57 154	iPd	28 34.30 1.2			80.58 24 eP	32 16.47 0.9		PLM	35.07 325 (P)	39 47.29 -0.3
		iP	28 40.10 19kmX		IMA	1.4s 96.29nm	5.3mb		EMUT	35.25 328 eP	39 49.51 0.4
		iPcP	29 20.60			80.67 314 iPd	32 15.50 -0.8		EEO	35.77 9 eP	39 54.00 0.8
		ePP	30 28.00		PYA	i	32 52.00 146km		DAU	35.91 328 eP	39 53.86 -1.0
CNB	46.72 153	iPc	28 35.30 0.9			80.86 250 eP	32 17.80 -0.1		LMN	39.23 25 eP	40 24.50 2.3
	0.9s	24.00nm	4.8mb		AVY	80.94 313 P	32 18.20 0.4		ULM	39.40 351 ePd	40 24.50 0.9
CIT	46.89 350	eP	28 36.00 0.6		KIV	0.6s 16.00nm	4.9mb		MCMT	39.97 331 eP	40 29.20 0.6
HYB	47.59 288	ePd	28 41.30 -0.1			e	32 54.10 143km		FCC	47.56 355 eP	41 29.50 0.2
	0.7s	25.00nm	5.0mb			82.28 29 eP	32 24.37 0.1		YKA	0.8s 2.70nm	4.3mb
ZAK	48.05 341	eP	28 41.00 -3.3X		PMR	1.0s 123.90nm	5.6mb			139.30 253 iPKPc	52 24.90 3.2X
	1.4s	9.00nm	4.3mb		FBA	82.95 25 eP	32 27.83 0.1				

03d 15h

0.7s 5.10nm
WRA 139.31 253 PKP 52 22.40 0.7
0.6s 1.00nm
CHG 149.39 349 ePKP 52 42.30 3.5X
GBA 150.79 32 PKP 52 42.00 1.1
BDT 150.91 348 iPKPd 52 47.20 6.2X
0.8s 25.90nm

S.D. = 1.1 on 25 of 30 obs.

* FEB 03, 1993 16h 18m 21.05±1.37s
38.204 N ± 7.8km 26.670 E ± 11.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.3 (ISK).

IZM 0.50 67 iPg 18 31.00 -0.3
iSg 18 37.00
CIN 1.27 118 eP 18 45.00 0.3
EZN 1.64 351 iPn 18 49.70 -0.3
YER 1.67 129 ePn 18 50.20 -0.3
DST 2.07 47 ePn 18 56.30 0.0
EDC 2.33 23 ePn 19 00.00 0.0
BNT 2.36 24 ePn 19 01.00 0.6
KCT 2.43 32 ePn 19 01.40 0.0
S.D. = 0.4 on 8 of 8 obs.

FEB 03, 1993 16h 51m 46.30±0.19s
13.619 N ± 3.1km 123.072 E ± 4.0km
DEPTH = 17.9km (13 depth phases)
5.4mb (77 obs.) 5.3MsZ (35 obs.)
LUZON, PHILIPPINE ISLANDS (249)
Mw 5.6 (HRV). Felt in the Manila
area.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 39C
Centroid Location:
Origin Time 16:51:49.7 0.4
Lat 13.89N 0.04 Lon 123.40E 0.05
Dep 26.2 3.3 Half-duration 1.6
Moment Tensor: Scale 10**17 Nm
Mrr=-1.01 0.11 Mtt=3.00 0.12
Mff=-1.99 0.14 Mrt=0.49 0.36
Mrf=-0.46 0.26 Mtf=1.42 0.12
Principal Axes:
T Vol=3.40 Plg=5 Azm=346
N -0.83 70 88
P -2.58 20 254
Best Double Couple: Mo=3.0*10**17
NP1: Strike=31 Dip=73 Slip=-169
NP2: 298 79 -18

PGP 2.06 267 iP 52 19.50 -1.1
TGY 2.13 283 ePd 52 01.00 -20.6X
QCP 2.18 298 eP 51 54.00 -28.3X
PLP 3.07 142 ePd 52 32.50 -2.4
iS 52 37.50
BAG 3.67 319 eP 52 43.50 -0.2
iS 53 33.00
CVP 4.24 344 ePd 52 52.00 0.5
PIP 5.24 334 ePd 53 06.00 0.3
2.0s 3737.00nm 6.6mb X
DAV 6.94 159 eP 53 35.90 6.2X
1.7s 1292.31nm 6.7mb X
KKM 10.11 223 ePd 54 24.30 10.5X
TSM 10.59 209 eP 54 21.50 1.2
QZH 12.03 340 eP 54 39.00 -0.8

Z 15s 12.20um
E 16s 13.40um
HKC 12.09 317 eP 54 46.50 5.8X
eS 57 08.00
TNE 13.42 161 eP 54 58.30 -0.1
QIZ 13.79 295 P 55 04.00 0.7
1.2s 100.00nm 5.5mb
N 14s 12.30um
E 15s 5.47um

SSE 17.48 355 Pc 55 50.50 -0.3
1.2s 220.00nm 5.2mb
Z 20s 9.60um
N 12s 3.80um
E 12s 5.60um
sP 55 59.00
S 58 56.00
sS 59 05.00

WHN 18.67 336 Pc 56 06.50 1.1
1.0s 130.00nm 5.1mb

Z 18s 10.90um
E 13s 6.67um
NJ2 18.75 349 Pd 56 07.00 0.5
1.2s 36.00nm 4.5mb
Z 14s 4.44um 5.1MsZ
N 13s 7.72um
E 12s 3.48um

KAGJ 18.91 21 P 59 32.00
MKS 19.05 191 iPd 56 08.90 0.5
GYA 19.99 312 iPc 56 12.50 2.2
1.4s 230.00nm 5.3mb
Z 15s 15.90um 4.6MsZ
N 15s 11.50um
E 15s 8.26um

PP 56 44.00
S 00 02.00
KUMJ 20.12 19 P 56 21.50 -0.6
LOE 20.90 283 eP 56 30.00 -0.4
GUMO 21.18 88 eP 56 36.50 3.3X
1.3s 754.50nm 5.9mb
Z 28s 5.63um 4.8MsZ

PJG 21.18 88 eP 00 29.80
TT 56 36.80 3.6X
16 54.00

GUA 21.23 88 eP 56 36.20 2.5
0.8s 208.96nm 5.6mb
SHNJ 21.68 18 eP 56 39.20 1.2
NST 22.29 278 iPc 56 53.80 9.6X
KMI 22.30 304 Pd 56 46.00 1.3
2.0s 100.00nm 4.9mb
Z 16s 13.70um 5.5MsZ
N 14s 8.00um
E 14s 7.40um

eS 00 44.00
TKSJ 22.59 24 P 56 49.20 2.0
KGM 22.68 241 ePc 56 48.30 0.1
1.0s 282.50nm 5.7mb

NNT 22.75 270 iPc 56 45.70 -3.2X
SNG 22.98 256 eP 56 51.00 -0.1
eS 01 04.00

TIA 23.12 348 Pc 56 52.80 0.4
1.2s 410.00nm 5.8mb
Z 25s 8.55um 5.1MsZ
N 14s 3.90um
E 13s 5.80um

pP 57 00.00 26km
S 00 58.00
WSI 23.31 187 e(P) 56 56.00 1.7
WKYJ 23.44 27 P 56 56.90 1.3
BDT 23.47 282 eP 56 57.00 1.1
1.2s 210.60nm 5.6mb

IPM 23.53 250 ePc 56 56.00 -0.5
1.0s 131.60nm 5.4mb
TRT 23.58 207 ePd 57 00.50 3.6X
KLM 23.61 246 eP 57 01.00 3.8X

KUG 23.62 179 eP 56 59.00 1.7
CHG 23.73 286 iPd 56 57.50 -0.9
1.4s 232.56nm 5.5mb

eS 01 22.00
KHT 23.76 276 iPd 56 58.20 -0.5
SJI 24.00 209 ePc 57 02.30 1.3
XAN 24.05 330 P 57 01.00 -0.4
0.8s 100.00nm 5.4mb

Z 16s 9.41um 5.4MsZ
N 14s 6.94um
E 14s 6.21um

sP 57 13.50
PP 57 38.00
S 01 18.00
ScS 08 08.00

TSRJ 24.73 26 eP 57 08.90 1.0
CD2 24.74 317 iPd 57 07.60 -0.6
1.0s 250.00nm 5.8mb
Z 15s 22.90um 5.8MsZ
N 16s 21.50um

PP 57 41.00
S 01 28.00
DL2 25.22 357 eP 57 13.30 0.7
1.0s 440.00nm 6.1mb
Z 15s 6.02um 5.2MsZ

pP 57 20.00 24km
S 01 34.00
TIY 25.80 340 eP 57 18.00 -0.1
1.2s 83.00nm 5.3mb

Z 20s 11.00um 5.4MsZ
N 14s 5.44um

S 01 43.00
MTMJ 26.41 27 eP 57 21.40 -2.4
CHJJ 26.52 30 eP 57 23.60 -1.1
MAT 26.55 28 eP 57 20.00 -5.0X
1.5s 58.33nm 5.0mb
Z 18s 3.09um 4.9MsZ

WWKK 26.63 129 eP 02 28.00
BJI 27.01 348 eP 57 29.40 3.4X
1.0s 55.00nm 5.2mb
eS 02 06.00

KAKJ 27.23 31 eP 57 30.20 -1.0
SNY 28.11 1 Pd 57 39.00 -0.1
1.2s 270.00nm 5.9mb
Z 19s 8.16um 5.3MsZ
E 13s 6.11um

pP 57 42.60 13km
S 02 14.00
LZH 28.26 326 Pd 57 41.00 0.2
1.5s 340.00nm 5.9mb
Z 21s 11.50um 5.4MsZ
E 14s 8.82um

pP 57 45.00 14km
sP 57 47.00
S 02 20.00
sS 02 30.00

YAMJ 28.72 29 eP 57 43.70 -1.0
HHC 28.94 342 P 57 47.20 0.5
1.2s 67.00nm 5.3mb
Z 19s 6.13um 5.2MsZ
N 17s 4.50um

E 15s 5.63um
pP 57 55.00 27km
S 02 38.00
BTO 29.21 339 P 57 49.00 -0.2
N 14s 5.47um

sP 57 55.50
ePP 58 45.00
eS 02 40.00
CN2 30.15 3 eP 57 57.00 -0.4
1.0s 32.00nm 5.1mb
Z 18s 6.26um 5.3MsZ
N 13s 1.73um

E 13s 3.94um
OFUJ 30.22 30 eP 57 56.30 -1.8
MDJ 31.39 9 eP 58 09.20 0.9
1.5s 93.00nm 5.4mb
Z 17s 7.71um 5.4MsZ
N 13s 1.68um

E 13s 5.73um
SHL 31.61 297 eP 58 08.60 -2.1
1.2s 132.81nm 5.7mb
eS 03 23.70
GTA 32.87 326 eP 58 21.00 -0.5
1.5s 78.00nm 5.4mb
Z 18s 17.50um 5.8MsZ
E 15s 4.60um

sP 58 33.50
PMG 33.09 132 eP 58 25.00 1.6
LSA 33.56 304 P 58 27.80 -0.2
1.4s 43.00nm 5.2mb
Z 20s 7.49um 5.4MsZ
E 10s 3.01um

sP 58 32.00
S 03 45.00
HOOJ 33.58 28 eP 58 27.30 -0.1
ASAJ 34.70 25 eP 58 37.60 0.5
KUSJ 34.79 28 eP 58 37.20 -0.7
WRA 35.15 161 P 58 38.79 -2.4
WB2 35.15 161 iPd 58 38.40 -2.8X
0.7s 23.00nm 5.2mb

YSS 37.14 22 iPd 58 57.60 -0.1
1.0s 90.00nm 5.5mb
Z 16s 1.90um 5.0MsZ
N 16s 1.70um
E 16s 1.10um

e 59 10.30 47kmX
(SS) 07 34.00
GUN 37.41 298 P 59 00.50 -0.2
PKI 37.73 298 P 59 02.80 -0.5
KKN 37.89 298 P 59 04.20 -0.4
DMN 38.00 298 P 59 05.20 -0.3
GKN 38.49 298 P 59 08.80 -0.8
ASPA 38.54 164 iPd 59 08.60 -1.2
1.8s 42.40nm 4.9mb

Z 22s 3.60um 5.1MsZ
eS 04 59.80

CIT	39.03	351 eP	59 06.50	-7.1X		1.4s	189.00nm	5.8mb		HFS	87.64	332 eP	04 41.00	33kmX	
WARB	39.71	175 eP	59 18.50	-1.0	BWA	53.51	154 eP	01 08.10	0.0		0.4s	322 eP	04 34.30	-0.4	
ZAK	40.06	340 eP	59 22.00	0.0			i	01 11.30	11km	Z	18s	3294.00um		4.9mb	
	2.0s	101.00nm		5.2mb	BFD	53.74	161 eP	01 08.10	-1.6			LR	44 44.00	8.8MszX	
Z	18s	3.60um		5.3Msz		0.9s	25.00nm		5.2mb	OJC	87.94	321 eP	04 39.00	2.7	
N	16s	3.88um			CAN	54.52	154 eP	01 14.70	-0.8			e	04 47.00	25km	
E	18s	3.94um				i	01 17.60	10km				eP	04 43.80	6.9X	
		e	01 00.50	554kmX	CNB	54.67	154 eP	01 16.10	-0.6	SPC	88.00	320 eP	04 37.00	-1.3	
MEEK	40.25	186 eP	59 22.50	-1.4		1.2s	63.00nm		5.5mb	NB2	88.38	333 P		5.0mb	
CTA	40.52	145 iPd	59 23.00	-3.2X	TOO	55.10	158 eP	01 18.90	-0.9		0.9s	6.60nm	04 41.00	1.2	
	2.0s	132.35nm		5.3mb		1.0s	46.00nm		5.5mb	RES	88.75	9 ePc		5.2mb	
Z	21s	14.34um		5.8Msz	DZM	55.38	129 iPc	01 22.10	0.1		0.9s	11.00nm	04 39.40	-1.4	
		eS	05 26.00		BRVK	57.22	325 iPd	01 33.00	-1.7	VAY	88.83	312 iP	04 49.00	6.0X	
CTA	40.52	145 P	59 26.79	0.6		1.6s	160.00nm		5.8mb	BUD	89.32	319 e(P)	04 51.00	7.3X	
IRK	41.39	343 eP	59 33.00	0.0	TIK	58.09	2 iPd	01 40.00	-0.5	SKO	89.44	313 iP	04 55.40	10.8X	
	1.4s	17.00nm		4.6mb		1.2s	30.00nm		5.2mb	SRO	89.66	319 eP	04 53.90	6.4X	
Z	20s	4.70um		5.4Msz	Z	16s	5.50um		5.8MszX	ZST	90.29	320 e(P)	05 02.00	10.4X	
N	18s	3.31um					e	02 35.00	245kmX	PRU	91.19	322 eP	05 00.20	6.9X	
E	16s	2.94um					e	03 48.00			CLL	91.56	324 iP	05 00.20	5.4mb
		e	01 08.20	522kmX			e	11 21.00		YKA	91.96	23 eP	04 54.90	0.0	
		e	01 30.20		NRI	59.95	346 iPd	01 51.40	-2.1		0.9s	6.70nm	05 04.00	8.1X	
		e	05 38.00			1.4s	56.00nm		5.5mb	KHC	92.10	322 eP	05 04.00	4.9mb	
		eS	05 57.00				e	02 40.00	212kmX		1.4s	8.10nm	05 30.00	97kmX	
MOY	41.93	339 eP	59 37.30	-0.1			e	04 07.00				e	06 28.00		
	1.3s	128.00nm		5.5mb	MAIO	60.83	304 eP	02 03.00	2.8	GEC2	92.14	321 P	04 55.70	-0.4	
WMO	42.67	322 P	59 46.60	2.9	ASH	61.87	306 eP	02 04.50	-2.6		0.6s	0.70nm	04 59.10	11km	
	1.5s	40.00nm		4.9mb		1.3s	120.00nm		5.9mb			e	05 06.70		
Z	19s	12.40um		5.8Msz	ARU	64.70	326 eP	02 25.00	-0.3			e	05 14.60		
N	15s	9.33um			ILT	65.78	21 iPd	02 31.40	-0.7	VBV	92.46	318 eP	05 06.20	7.9X	
		eS	06 13.00			1.0s	160.00nm		6.1mb	MOX	92.64	324 e(P)	04 59.10	-1.4	
HYB	42.99	281 eP	59 46.50	-0.1	N	14s	1.40um			KBA	93.07	320 iPd	05 08.50	8.1X	
	1.2s	178.60nm		5.7mb	GRS	71.29	307 eP	03 06.00	-1.1	GRF	93.27	323 eP	05 03.30	2.1	
		eS	06 12.00		</										

03d 17h

LR 39 12.00
CNCB 168.87 108 PKP 11 58.90 4.2X
S.D. = 1.2 on 142 of 194 obs.

? FEB 03, 1993 16h 58m 34.64± 4.55s
32.479 S ± 28.3km 71.656 W ± 21.4km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.4 (SAN).

ROCH 0.73 132 iP 58 49.40 0.2
iS 59 01.98
JACH 0.92 103 iP 58 51.97 -0.3
iS 59 06.52
LCCH 1.00 176 iP 58 52.85 -0.7
iS 59 08.23
PEL 1.05 129 iP 58 54.61 0.1
iS 59 11.20
TACH 1.32 153 iP 58 58.79 -0.2
iS 59 18.81
FCH 1.43 127 iP 59 00.57 -0.3
iS 59 22.90
LNV 1.49 172 iP 59 01.80 0.4
iS 59 22.54
PCH 1.49 140 iP 59 01.96 0.4
CHCH 1.68 150 iP 59 04.48 0.3
iS 59 28.86
S.D. = 0.4 on 9 of 9 obs.

& FEB 03, 1993 17h 41m 39.50s
46.867 N 112.382 W
DEPTH = 23.0km
MONTANA (456)
<BUT>. ML 3.1 (BUT).

HRY 0.41 112 iPc 41 47.60 -0.6
BUT 0.86 188 eP 41 55.00 -0.8
iS 42 07.20
LRM 1.05 183 iPc 41 58.30 -0.7
HBMT 1.09 188 iPc 41 58.80 -0.8
LCCH 1.09 161 eP 41 59.10 -0.4
BGMT 1.65 172 ePn 42 07.50 -0.1
MCMT 2.07 189 ePn 42 12.90 -0.8
LTMT 2.35 175 ePn 42 17.60 -0.1
DPW 4.08 286 e(P) 42 40.55 -1.5
eS 43 39.47
9 obs. associated

FEB 03, 1993 17h 53m 27.52± 0.44s
44.876 N ± 4.5km 5.467 E ± 3.8km
DEPTH = 9.6 ± 3.3 km
FRANCE (538)
ML 2.9 (LDG), 2.9 (STR).

SSB 0.77 302 Pg 53 42.94 0.3
Sg 53 54.84
BNI 0.88 78 P 53 45.00 0.5
eSg 53 55.70
LPL 1.10 54 Pg 53 48.80 0.4
LPG 1.10 55 Pg 53 48.90 0.5
Sg 54 06.20
RSL 1.15 45 Pg 53 50.77 1.5
Sg 54 09.70
CDR 1.22 170 e(Pg) 53 50.90 0.6
e(Sg) 54 07.90
DOI 1.32 106 P 53 53.60 1.6
eSn 54 10.10
COLF 1.41 298 Pn 53 53.10 -0.2
Pg 53 54.67
Sg 54 14.32
LRG 1.56 155 Pn 53 55.50 0.1
Pg 53 57.20
Sg 54 15.40
FRF 1.57 147 Pn 53 54.40 -1.1
Pg 53 57.20
Sg 54 17.40
EMS 1.58 40 iPc 53 58.30 2.5X
LMR 1.72 154 Pn 53 56.50 -1.1
Pg 53 59.40
Sg 54 20.60
SBF 1.74 125 Pg 54 01.10 3.1X
Sg 54 24.50
SMF 2.10 328 Pn 54 03.40 0.1
Sg 54 36.20
LBF 2.35 334 Pn 54 06.00 -0.9
Sn 54 34.00
Sg 54 42.80

CAF 2.42 272 Pn 54 07.50 -0.3
Sg 54 44.10
AVF 2.42 323 Pn 54 08.80 1.0
Sg 54 44.50
MAF 2.44 304 Pn 54 09.00 0.9
Pg 54 15.10
Sg 54 44.50
BGF 2.49 313 Pn 54 08.60 -0.2
Pg 54 16.50
Sg 54 48.50
SSF 2.58 329 Pn 54 11.10 1.1
Pg 54 17.40
Sg 54 51.70
LOR 2.64 336 Pn 54 11.30 0.3
Pg 54 18.80
Sg 54 52.20
TCF 2.69 303 Pn 54 11.90 0.2
Pg 54 19.80
Sg 54 54.40
RJF 2.83 280 Pn 54 14.60 0.9
Sg 54 56.60
LPO 3.05 268 Pg 54 25.80 9.0X
Sg 55 07.30
LSF 3.09 298 Pn 54 24.80 7.5X
Sg 55 06.50
BSF 3.10 17 Pn 54 16.00 -1.5
Pg 54 26.20
Sg 55 06.40
HAU 3.19 11 Pn 54 17.60 -1.1
Pg 54 28.00
Sg 55 11.40
CDF 3.75 19 Pn 54 24.90 -1.9
Sg 55 27.90
S.D. = 1.0 on 24 of 28 obs.

* FEB 03, 1993 17h 54m 41.03± 0.58s
3.010 S ± 9.5km 127.004 E ± 13.9km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
SERAM, INDONESIA (272)

AAI 1.37 120 iPd 55 04.50 -1.6
eS 55 40.50
TNE 3.80 5 eP 55 42.20 1.3
WSI 9.40 225 ePc 56 38.10 -21.4X
WB2 18.30 157 iPc 58 58.50 1.7
0.4s 14.90nm 4.5mb
i 59 01.60
iP 59 08.10
i 00 03.10
eS 02 26.80
ASPA 21.59 163 eP 59 33.10 -0.1
0.8s 9.40nm 4.2mb
eS 03 30.30
NANU 22.40 209 eP 59 50.00 8.8X
WARB 23.04 181 eP 59 48.00 0.4
LZH 44.51 333 eP 02 55.00 0.2
1.6s 18.00nm 4.7mb
pP 02 59.50 15kmX
GUN 50.10 311 P 03 38.60 -0.4
PKI 50.29 310 P 03 42.60 2.2X
KKN 50.49 310 P 03 41.40 -0.4
DMN 50.54 310 P 03 41.70 -0.5
GKN 51.09 310 P 03 45.70 -0.6
S.D. = 1.1 on 10 of 13 obs.

* FEB 03, 1993 18h 20m 37.30± 0.92s
5.909 N ± 12.1km 77.690 W ± 10.4km
DEPTH = 10.0km (geophysicist)
4.1mb (1 obs.)
NEAR WEST COAST OF COLOMBIA (102)
MD 4.3 (UPA).

UPA 3.56 329 eP 21 35.35 1.6
eS 22 14.76
ECO 3.97 330 ePc 21 39.48 -0.1
iS 22 25.40
BRU 5.62 301 eP 22 02.01 -1.4
SDV 7.60 67 eP 22 30.40 -0.6
TOV 8.72 63 eP 22 46.20 -0.3
ZOB0 24.00 157 P 25 53.00 -0.8
SIV 27.28 143 P 26 25.60 1.6
YKA 62.62 342 eP 31 08.90 5.0X
0.6s 0.80nm 4.1mb
S.D. = 1.4 on 7 of 8 obs.

% FEB 03, 1993 19h 04m 22.22± 0.90s

31.545 S ± 9.4km 68.071 W ± 6.4km
DEPTH = 28.7 ± 11.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.16 247 iPc 04 27.80 -0.1
RTLL 0.40 302 iPc 04 30.80 -0.3
RTCB 0.63 275 iPd 04 35.00 0.3
RTPR 1.83 48 ePc 04 52.60 0.5
S 05 14.80
MRA 2.19 114 ePd 04 57.90 0.6
S 05 27.00
TCA 2.98 87 iPd 05 07.80 -0.9
(S) 05 43.00
RFA 3.23 186 ePc 05 12.20 -0.1
i 05 19.80
S 06 02.70
S.D. = 0.7 on 7 of 7 obs.

& FEB 03, 1993 20h 25m 35.54s
59.852 N 152.179 W
DEPTH = 62.0km
3.2mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 3.4 (AEIC).

ILIM 0.45 301 iPc 25 46.81 -0.6
eS 25 56.37
XLV 0.46 150 iPd 25 46.74 -0.6
eS 25 55.99
INE 0.49 296 ePc 25 47.13 -0.7
eS 25 57.09
INW 0.53 295 eP 25 47.63 -0.5
eS 25 57.28
OPT 0.57 250 iPd 25 47.87 -0.7
BRLK 0.66 97 ePc 25 49.32 -0.3
eS 26 00.10
RS1 0.68 335 ePc 25 49.49 -0.4
RSO 0.68 335 iPc 25 49.49 -0.5
eS 26 00.86
RS2 0.68 335 iPc 25 49.52 -0.5
REF 0.69 338 iPc 25 49.65 -0.5
eS 26 00.88
RDW 0.71 334 iPc 25 49.74 -0.6
RDN 0.73 337 eP 25 49.90 -0.6
AUE 0.78 231 ePd 25 50.36 -0.6
DFR 0.78 341 iPc 25 50.46 -0.7
AUL 0.79 234 iPd 25 50.66 -0.5
AUP 0.80 233 iPd 25 50.82 -0.5
NCT 0.80 333 iPc 25 50.75 -0.7
eS 26 02.38
AUH 0.81 233 iPd 25 50.88 -0.5
AUW 0.82 234 iPd 25 50.94 -0.5
AUI 0.82 231 ePd 25 50.75 -0.7
eS 26 02.85
NKA 1.01 27 iPc 25 55.06 1.2
PDB 1.02 267 iPc 25 52.70 -1.3
eS 26 06.58
SLKM 1.18 55 ePc 25 55.28 -1.0
CDD 1.19 220 eP 25 55.17 -1.2
SYI 1.25 185 ePd 25 56.48 -0.7
eS 26 13.73
MCNL 1.29 240 iPc 25 56.02 -1.7
eS 26 12.28
SPU 1.34 3 iPc 25 57.83 -0.6
eS 26 15.20
CKL 1.35 357 iPd 25 58.23 -0.4
CKT 1.35 359 iPd 25 58.15 -0.5
eS 26 15.84
CKN 1.38 360 ePd 25 58.74 -0.2
SEW 1.40 78 eP 25 58.88 -0.2
CP2 1.42 359 iPd 25 58.92 -0.7
BGL 1.42 356 iPd 25 58.69 -0.9
CRP 1.42 0 iPd 25 58.67 -1.0
eS 26 17.91
MPA 1.55 64 eP 26 00.44 -0.8
SUA 1.77 23 eP 26 04.55 0.2
PTE 1.87 56 ePc 26 04.52 -1.1
PMS 1.90 42 P 26 05.60 -0.6
KDC 2.12 185 eP 26 06.73 -2.4
SVW 2.12 308 eP 26 06.89 -2.4
PWA 2.13 31 P 26 09.00 -0.3
SKT 2.16 8 eP 26 08.78 -1.0
LTI 2.18 83 eP 26 08.64 -1.5
KNIM 2.28 75 ePd 26 08.91 -2.6
PLRM 2.30 39 eP 26 10.20 -1.5
PMR 2.30 39 eP 26 09.38 -2.3
eS 26 36.79

iSg 26 43.02
 KNK 2.41 48 ePc 26 11.74 -1.6
 GH0 2.50 38 eP 26 14.06 -0.6
 SML 2.72 42 eP 26 16.08 -1.6
 GLI 2.73 66 eP 26 14.58 -3.2
 FID 2.98 70 eP 26 17.63 -3.7
 SCM 3.10 48 eP 26 21.49 -1.6
 VLZ 3.17 64 eP 26 21.30 -2.6
 CVA 3.29 75 eP 26 23.07 -2.6
 KLU 3.49 59 eP 26 25.72 -2.9
 TOA 3.70 50 P 26 29.70 -1.8
 TRF 3.72 13 eP 26 29.71 -2.2
 RND 3.90 23 eP 26 32.45 -2.0
 FBA 5.46 20 iPc 26 53.44 -2.7
 IMA 6.28 354 eP 27 05.02 -2.7
 YKA 18.14 65 eP 29 40.90 -3.3
 0.4s 0.70nm 3.2mb
 61 obs. associated

? FEB 03, 1993 22h 16m 12.76±0.98s
 43.520 N ± 8.6km 12.199 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

CRE 0.21 301 Pc 16 17.20 -0.2
 eSg 16 21.30
 RSM 0.45 24 P 16 21.60 -0.2
 eSg 16 25.60
 SFI 0.47 328 P 16 23.30 0.9
 eSg 16 28.20
 PGD 0.50 316 P 16 22.30 -0.6
 eSg 16 29.50
 ASS 0.56 143 P 16 24.30 0.1
 eSg 16 32.30
 S.D. = 0.8 on 5 of 5 obs.

% FEB 03, 1993 22h 45m 03.60±1.70s
 37.895 S ± 13.7km 176.086 E ± 12.0km
 DEPTH = 234.8 ± 17.2 km
 NORTH ISLAND, NEW ZEALAND (159)

URZ 0.89 115 Pc 45 35.60 -1.0
 S 45 56.70
 WHH 1.04 162 P 45 37.30 -0.3
 PAHZ 1.23 142 P 45 38.60 -0.2
 MOH 1.49 146 P 45 41.00 0.3
 NOZ 1.70 116 P 45 42.70 0.3
 TTH 1.74 161 eP 45 43.50 0.7
 HBZ 1.78 81 P 45 43.00 -0.1
 WAHZ 1.81 173 P 45 43.80 0.3
 MAHZ 1.91 133 eP 45 44.80 0.5
 BSZ 2.10 205 P 45 46.90 0.8
 TEHZ 2.17 165 eP 45 46.90 0.2
 MNG 2.76 190 P 45 52.90 0.0
 S 46 26.30
 KIW 3.10 197 P 45 56.40 -0.3
 MTW 3.29 188 P 45 58.20 -0.6
 CAW 3.31 193 P 45 58.80 -0.2
 DIW 3.35 209 P 45 59.40 -0.2
 MRW 3.50 197 P 46 00.80 -0.4
 S 46 41.70
 BLW 3.50 188 eP 46 01.20 -0.1
 MOW 3.58 190 P 46 01.70 -0.5
 TCW 3.60 202 eP 46 02.10 -0.3
 THZ 4.57 211 P 46 14.80 0.6
 KHZ 4.92 203 P 46 18.40 0.0
 S 47 13.70
 DSZ 5.07 219 eP 46 20.90 0.6
 LTZ 5.69 210 eP 46 28.00 -0.1
 S.D. = 0.5 on 24 of 24 obs.

* FEB 03, 1993 22h 45m 46.54±0.72s
 13.122 N ± 19.1km 142.291 E ± 8.4km
 DEPTH = 33.0km (normal)
 4.9mb (4 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUMO 2.55 79 eP 46 26.30 -0.2
 PJG 2.55 79 eP 46 26.50 0.0
 BJI 35.30 324 eP 52 43.50 3.0X
 ASPA 37.47 193 eP 52 59.50 0.5
 0.5s 5.10nm 4.6mb
 LZH 41.38 310 eP 53 34.00 2.5
 1.5s 24.00nm 4.7mb
 YAK 49.65 352 eP 54 41.30 4.5X
 1.8s 35.00nm 5.1mb
 GUN 54.41 295 P 55 13.20 -0.2

1.0s 32.00nm 5.3mb
 PKI 54.80 295 P 55 15.60 -0.7
 KKN 54.93 295 P 55 16.20 -0.9
 DMN 55.07 295 P 55 17.80 -0.4
 GKN 55.51 295 P 55 20.80 -0.4
 YKA 84.42 27 eP 58 20.60 3.8X
 0.5s 0.20nm 3.6mb X
 ZOBO 150.42 100 PKP 05 38.00 5.6X
 S.D. = 1.2 on 9 of 13 obs.

* FEB 03, 1993 23h 12m 42.75±0.84s
 18.236 N ± 11.3km 97.525 W ± 8.8km
 DEPTH = 56.8 ± 11.5 km
 4.0mb (7 obs.)
 CENTRAL MEXICO (523)

PPM 1.33 309 iP 13 07.50 1.6
 iS 13 26.50
 OXX 1.38 146 iP 13 05.50 -0.7
 iS 13 21.50
 UNM 1.91 305 iP 13 13.00 -0.7
 ACX 2.61 239 iP 13 17.50 -5.8X
 MRX 3.76 293 (P) 13 39.00 -0.7
 SCX 4.90 107 eP 13 56.50 0.8
 CGX 5.80 286 (P) 14 30.50 22.0X
 BUTX 13.40 1 iP 15 55.12 3.3X
 eS 18 23.24
 UYO 16.10 9 iPc 16 26.00 0.0
 WMOK 16.47 356 (P) 16 30.89 -0.7
 1.1s 11.66nm 3.9mb
 MIAR 16.62 11 eP 16 32.57 -0.8
 0.5s 16.53nm 4.4mb
 TUC 18.42 322 eP 16 56.08 0.3
 0.8s 6.08nm 3.8mb
 ALO 18.44 336 eP 16 54.59 -1.5
 0.5s 2.35nm 3.6mb
 FVM 20.63 16 eP 17 22.00 2.1
 GLA 21.42 317 eP 17 28.17 0.2
 PV10 22.44 336 eP 17 37.61 -0.7
 PV08 22.47 337 eP 17 39.52 0.9
 PV09 22.59 336 eP 17 40.15 0.4
 PLM 22.96 315 eP 17 43.23 0.0
 SRU 23.67 334 eP 17 50.34 0.2
 ARUT 23.95 328 eP 17 53.92 1.1
 EMUT 24.38 335 eP 17 57.67 0.5
 TPNV 24.87 322 eP 18 04.07 2.3
 0.5s 3.58nm 4.1mb
 DAU 25.07 335 eP 18 04.09 0.3
 TNP 26.21 323 eP 18 14.19 -0.1
 0.6s 1.85nm 3.8mb
 BW06 26.51 340 eP 18 15.69 -1.3
 BONR 26.76 321 (P) 18 19.06 -0.3
 LCCM 29.99 340 eP 18 47.80 -0.5
 YKA 45.79 349 eP 20 57.50 -2.8
 0.6s 2.50nm 4.3mb
 S.D. = 1.2 on 26 of 29 obs.

& FEB 04, 1993 00h 23m 35.52s
 60.025 N 153.525 W
 DEPTH = 139.4km
 SOUTHERN ALASKA (2)
 <AEIC>.

INW 0.20 78 iPc 23 53.98 0.7
 eS 24 08.72
 INE 0.23 81 iPc 23 54.11 0.7
 eS 24 09.14
 ILIM 0.29 79 ePc 23 54.04 0.6
 eS 24 08.96
 OPT 0.40 158 iPd 23 54.78 -0.7
 eS 24 09.93
 PDB 0.41 235 iPd 23 54.51 -0.9
 eS 24 09.41
 RS1 0.58 41 iPc 23 55.74 -0.9
 RDW 0.58 38 iPc 23 55.75 -0.9
 eS 24 12.85
 RS2 0.58 41 iPc 23 55.78 -0.9
 RSO 0.58 41 iPc 23 55.75 -0.9
 NCT 0.61 29 iPc 23 55.91 -0.8
 eS 24 11.65
 RDN 0.62 37 ePc 23 56.00 -0.8
 REF 0.62 41 iPc 23 55.97 -0.9
 eS 24 11.92
 AUL 0.65 176 ePd 23 56.06 -0.7
 AUW 0.66 178 eP 23 56.12 -0.7
 AUH 0.66 176 eP 23 56.34 -0.6
 AUP 0.67 175 eP 23 56.34 -0.7

AUE 0.67 173 iPd 23 56.10 -0.8
 AUI 0.69 176 eP 23 56.32 -0.8
 DFR 0.71 36 iPc 23 56.33 -1.0
 MCNL 0.94 206 iPd 23 57.98 -1.1
 XLV 1.08 121 eP 23 59.47 -0.8
 CDD 1.10 183 iPd 23 59.39 -1.2
 CKL 1.31 26 iPc 24 02.21 -0.6
 CKT 1.35 28 iPc 24 02.38 -0.7
 BRLK 1.36 100 eP 24 02.20 -0.9
 eS 24 21.60

BGL 1.36 24 ePc 24 02.63 -0.6
 SPU 1.37 31 iPc 24 02.45 -0.8
 CKN 1.37 28 iPc 24 02.89 -0.4
 CP2 1.39 26 iPc 24 03.36 -0.4
 CRP 1.42 28 iPc 24 02.80 -1.1
 SVW 1.50 317 P 24 04.00 -0.7
 SYI 1.53 157 ePd 24 03.33 -1.6
 eS 24 25.35
 SLKM 1.72 72 eP 24 05.55 -1.6
 SUA 1.99 42 eP 24 09.73 -0.7
 SEW 2.05 86 eP 24 09.64 -1.3
 MPA 2.13 76 eP 24 10.29 -1.7
 SKT 2.19 25 eP 24 12.54 -0.2
 PMS 2.31 56 P 24 12.50 -1.7
 KDC 2.35 166 (P) 24 10.95 -3.7
 PTE 2.38 67 eP 24 12.97 -2.2
 PWA 2.42 46 P 24 15.10 -0.5
 PLRM 2.67 52 eP 24 16.99 -1.7
 LTI 2.85 87 eP 24 19.44 -1.6
 GH0 2.85 50 eP 24 17.92 -3.3
 KKN 2.85 59 eP 24 18.31 -2.9
 KNIM 2.91 81 eP 24 19.33 -2.6
 SML 3.10 53 eP 24 21.54 -2.9
 HIN 3.53 81 eP 24 27.86 -2.1
 FID 3.57 75 eP 24 28.27 -2.3
 TRF 3.77 23 eP 24 32.08 -1.2
 RND 4.06 31 eP 24 35.59 -1.5
 51 obs. associated

* FEB 04, 1993 00h 29m 37.15±1.35s
 36.822 N ± 12.2km 30.038 E ± 10.2km
 DEPTH = 33.0km (normal)
 TURKEY (366)
 MD 3.6 (ISK).

ELL 0.13 235 iPn 29 43.10 -0.2
 eSg 29 47.10
 BCK 0.77 34 iPn 29 51.90 0.2
 YER 1.44 283 iPn 30 01.20 0.0
 KHL 1.55 345 iPn 30 01.50 -1.4
 CIN 1.74 297 iPnc 30 06.00 0.5
 iSg 30 36.00
 ALT 2.23 1 ePn 30 13.00 0.4
 IZM 2.71 306 iPn 30 19.20 -0.1
 DST 2.99 339 ePn 30 24.00 0.6
 S.D. = 0.7 on 8 of 8 obs.

? FEB 04, 1993 00h 37m 29.95±0.69s
 2.905 S ± 8.3km 126.991 E ± 17.3km
 DEPTH = 33.0km (normal)
 4.0mb (1 obs.)
 CERAM SEA (270)

TNE 3.70 5 eP 38 26.00 -0.1
 ASPA 21.70 163 eP 42 20.60 0.4
 0.8s 4.70nm 4.0mb
 e 42 27.40
 eS 46 26.10
 WAR8 23.15 181 eP 42 34.00 -0.5
 CHG 35.04 309 eP 44 22.00 0.0
 GUN 50.02 311 P 46 24.40 0.4
 KKN 50.42 310 P 46 26.40 -0.5
 DMN 50.46 310 P 46 27.40 0.2
 GKN 51.02 310 P 46 31.40 0.1
 S.D. = 0.4 on 8 of 8 obs.

* FEB 04, 1993 01h 07m 08.87±0.67s
 12.444 N ± 15.4km 141.860 E ± 6.7km
 DEPTH = 26.9km (2 depth phases)
 5.1mb (6 obs.) 4.3msz (1 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUMO 3.14 68 eP 07 57.80 0.0
 eS 08 36.40
 PJG 3.14 68 eP 07 58.20 0.4
 GUA 3.17 70 eP 07 58.20 0.1
 BJI 35.61 325 eP 14 06.50 0.2

[illegible]

SOTA	12.30	321	iPc	25	51.90	-1.1			1.1s	47.60nm	4.5mb	TIO	25.62	263	iPc	28	26.00	0.4			
			i		26	08.10		TCF	17.11	305	eP	26	57.00	1.5	KAT	26.15	77	eP	28	32.00	1.8
			i		28	03.60			1.2s	43.15nm	4.5mb				e			29	09.00		
			i		28	07.20		ENN	17.25	322	eP	27	00.50	3.4X	ASH	27.98	79	eP	28	45.50	-1.4
GECC2	12.42	331	Pn	25	52.80	-1.8			1.3s	76.10nm	4.7mb	SVE	31.10	41	ePd	29	16.00	1.4			
			Sn	28	13.50			RJF	17.26	301	eP	26	57.10	-0.1		N	15s	1.00um			
MOTA	12.43	321	iPc	25	52.30	-2.5			17s	1.20um	5.3Msz	BCAO	33.86	187	iPc	29	37.50	-1.5			
			i		26	06.50		LPO	17.32	299	eP	26	58.70	0.7			0.9s	36.00nm		5.3mb	
			iS		28	10.90			1.3s	38.25nm	4.4mb				id			29	53.40		
OSS	12.51	316	P	25	54.29	-1.5		DOU	17.51	318	P	27	00.60	0.3	TIC	40.23	226	P	30	31.72	-0.9
KHC	12.71	332	P	25	56.00	-2.3				e		32	54.00		KIC	40.30	225	P	30	32.72	-0.5
	1.4s	29.00nm						LSF	17.54	304	eP	27	02.10	1.3	LIC	40.58	225	P	30	34.62	-0.8
	Z	18s	5.50um						1.3s	52.00nm	4.5mb				0.6s	13.50nm			4.9mb		
	N	16s	4.00um					WTS	17.67	326	eP	27	04.50	2.2	Z	20s	0.35um		4.2Msz		
	E	18s	4.80um						1.0s	19.20nm	4.2mb	NAI	41.43	158	iP	30	42.60	-0.1			
			e		25	59.60		LFF	17.69	299	eP	27	01.70	-0.9	PRZ	42.03	66	iP	30	49.00	1.6
			e		26	05.50			1.1s	49.55nm	4.6mb				1.3s	40.00nm			5.0mb		
			i		26	12.60		SNF	17.92	319	eP	27	17.80	12.5X	ELT	45.32	49	iPd	31	13.00	-0.6
			e		26	30.00		EGRA	17.98	290	eP	27	00.20	-6.0X		1.8s	218.00nm			5.8mb	
SAGI	12.74	125	eP	26	00.50	1.7		GRO	18.14	66	eP	27	12.00	3.9X			e		33	00.00	
			eS		28	14.40		WIT	18.32	328	eP	27	16.50	6.2X			eS		37	54.00	
SBF	12.79	301	eP	26	01.00	1.5		ECHE	18.44	282	eP	27	14.00	2.1			e		42	14.00	
	0.9s	32.45nm						GRS	18.46	79	iPc	27	14.60	2.2	NRI	46.18	26	iPc	31	21.50	1.3
TMA	12.89	312	P	25	59.31	-1.6				eS		30	48.00			1.6s	45.00nm			5.2mb	
FUR	12.92	324	eP	26	05.40	4.2X		TAB	18.60	83	iPc	27	16.50	2.4			e		31	34.00	
WET	12.98	330	eP	26	02.80	0.8		MFF	18.75	304	eP	27	15.00	-0.7			e		33	10.00	
PRU	13.10	336	eP	26	01.70	-1.8			1.1s	124.55nm	5.0mb						e		33	54.00	
			e		26	31.20		ELIZ	18.97	293	eP	27	14.20	-4.2X	GKN	52.04	82	P	32	03.80	-2.4
ORO	13.18	309	P	26	06.00	1.3		ETOR	19.23	285	iPc	27	21.00	-0.5		0.6s	15.00nm			5.1mb	
MBH	13.18	126	eP	26	05.70	0.9		OBN	19.32	25	eP	27	21.00	-1.4	DMN	52.59	82	P	32	08.20	-2.3
LLS	13.25	315	P	26	04.07	-1.6			1.5s	98.00nm	4.8mb				0.6s	33.00nm			5.5mb		
BNI	13.75	305	P	26	11.00	-1.2		MAK	19.37	68	iPd-	27	26.00	3.0X	KKN	52.64	82	P	32	08.40	-2.4
DIX	13.75	310	P	26	13.35	1.0			2.0s	330.00nm	5.3mb				0.6s	16.00nm			5.2mb		
CDR	13.87	298	e(P)d	26	21.00	7.3X		LDF	19.45	309	eP	27	22.80	-1.1	HYB	52.77	97	eP	32	05.00	-6.6X
LPG	13.89	307	eP	26	15.90	1.7			1.3s	115.55nm	5.0mb				PKI	52.85	82	P	32	10.00	-2.5
	1.2s	56.85nm					FLN	19.74	310	eP	27	25.60	-1.5	GUN	53.05	81	P	32	11.40	-2.6	
LPL	13.91	307	eP	26	15.60	1.2			1.2s	95.20nm	5.0mb				0.8s	35.00nm			5.4mb		
ZLA	13.94	316	P	26	13.56	-1.1		Z	18s	1.02um					GBA	54.14	102	P	32	20.50	-1.1
EMS	14.04	309	P	26	15.34	-0.7		LPF	19.81	307	eP	27	25.60	-2.1		0.4s	3.00nm			4.7mb	
SLE	14.06	317	P	26	15.44	-0.7			1.1s	70.35nm	4.9mb	MOY	54.43	49	eP	32	24.10	0.8			
BRG	14.06	337	eP	26	14.50	-1.6		GRR	19.82	308	eP	27	26.20	-1.7	MTD	55.36	170	iPd	32	28.40	-2.1
			e		26	25.00			1.3s	112.30nm	5.0mb	ZAK	56.24	49	iPd	32	36.00	-0.4			
GRF	14.08	328	eP	26	16.00	-0.5		EHUE	19.89	277	eP	27	28.80	-0.1		2.0s	48.00nm			5.2mb	
	Z	20s	3.00um				KER	20.06	94	eP	27	33.00	2.3	LSA	56.28	77	P	32	36.00	-1.6	
FEL	14.38	317	P	26	18.41	-2.1	MOS	20.18	25	eP	27	34.00	2.4		1.4s	10.00nm			4.7mb		
BBS	14.42	315	P	26	20.53	-0.4	MUD			e		27	55.00		GTA	58.30	63	eP	32	49.00	-2.4
MOX	14.68	331	eP	26	23.00	-1.2			20.32	338	eP	27	33.00	0.0		1.4s	19.00nm			5.0mb	
	Z	20s	2.90um				ECOG	0.7s	24.00nm		4.7mb					pP			32	57.00	26kmX
			e		26	32.50	EBAN	20.75	275	eP	27	38.20	0.4	TIK	59.00	21	eP	32	54.00	-1.7	
CLL	14.74	336	iP	26	31.00	6.0X	GUD	20.77	278	eP	27	39.00	1.1		1.0s	9.00nm			4.9mb		
	1.1s	40.00nm					PAB	20.83	285	iPc	27	38.00	-0.6	Z	15s	1.50um			5.2MszX		
LOMF	14.74	313	P	26	26.38	1.2			21.04	282	iPd	27	39.50	-1.3			e		33	45.00	
LIBD	14.77	317	P	26	25.06	-0.3		UPP		eS		32	06.00				e		35	04.00	
MOF	14.85	315	P	26	25.33	-1.2		EHOR	21.87	353	iP	27	47.70	-1.1	BOD	59.35	38	iPd	32	55.40	-2.8
BSF	15.03	315	eP	26	27.70	-1.2		PUL	21.97	278	eP	27	51.00	1.1	AVY	61.54	153	eP	33	13.70	-0.1
	1.2s	59.80nm							22.09	10	(P)	27	57.00	6.1X	VTY	61.61	153	eP	33	14.10	-0.1
ECH	15.05	316	P	26	28.37	-0.7			1.8s	240.00nm	5.3mb	LMN	62.28	308	eP	33	21.50	3.2X			
CDF	15.10	317	P	26	28.93	-0.9				e		28	06.00		LZH	62.66	64	eP	33	16.50	-4.7X
HAU	15.37	315	eP	26	33.10	-0.2		EPRU		e		28	32.00			1.2s	23.00nm			5.2mb	
	1.1s	64.00nm					NUR	22.11	275	eP	27	53.00	1.6	CBM	63.80	310	(P)	33	26.06	-2.3	
	Z	21s	0.77um					22.32	3	eP	27	54.20	0.9		1.1s	16.69nm			5.1mb		
TNS	15.69	324	ePc	26	42.00	4.6X	EPLA	22.33	284	eP	27	55.00	1.4	Z	21s	0.30um			4.4Msz		
VITF	15.69	315	P	26	36.79	-0.6	HAE	22.36	316	ePc	27	53.50	-0.2	SLR	63.86	174	eP	33	28.00	-0.9	
KIV	16.12	63	iPd	26	46.90	3.8X	HFS	22.64	348	eP	27	55.90	-0.5		1.1s	18.99nm			5.1mb		
	2.0s	176.00nm						0.4s	4.70nm		4.3mb		Z	20s	2.13um			5.3Msz			
	Z	18s	0.90um					Z	15s	1.27um	4.5MszX		BT0	64.70	57	eP	33	34.50	0.0		
SMF	16.21	307	eP	26	46.50	2.5	IFR	22.97	267	iPc	28	03.00	2.9X	CD2	65.17	69	eP	33	36.10	-1.4	
	1.0s	46.60nm					ERUA	23.05	290	eP	28	00.20	-0.4	HHC	65.60	56	P	33	42.90	2.7	
LBF	16.27	308	eP	26	47.00	2.2	EVAL	23.18	278	eP	28	05.50	3.6X		1.0s	14.00nm			5.0mb		
	1.2s	95.80nm					EMON	23.21	292	eP	27	59.00	-3.2X	Z	34s	1.04um			4.8MszX		
PYA	16.40	63	eP	26	51.00	4.5X	NB2	23.92	346	P	28	08.40	-0.5	BLF	67.08	177	iPc	33	49.10	-0.5	
	1.5s	130.00nm						1.1s	44.30nm		4.9mb			0.7s	10.00nm			5.0mb			
WLF	16.44	319	P	26	50.00	3.1X	KAF	24.00	4	eP	28	07.50	-2.1	XAN	67.28	64	eP	33	50.00	-1.0	
LOR	16.47	309	eP	26	46.50	-0.8			0.9s	27.00nm	4.8mb	FRS	67.68	178	iPc	33	53.00	-0.2			
	1.0s	38.80nm					EZAM	24.20	289	eP	28	12.70	1.0		0.7s	13.70nm			5.2mb		
	Z	20s	1.00um				EKA	24.38	323	P	28	14.00	0.7	CHG	68.00	83	eP	33	53.30	-2.3	
AVF	16.57	307	eP	26	50.20	1.6			1.1s	64.90nm	5.1mb	HRV	68.16	307	P	34	10.00	13.8X			
	1.4s	81.05nm					ESK	24.39	323	eP	28	15.50	2.1	Z	18s	0.38um			4.7Msz		
SSF	16.59	308	eP	26	50.90	2.0			1.0s	100.00nm	5.3mb	RSNY	68.88	310	P	34	10.00	9.3X			
	1.2s	88.65nm					EBL	24.57	324	eP	28	14.40	-0.8	Z	21s	0.29um			4.5Msz		
CAF	16.78	300	eP	26	50.70	-0.6	ED														

04d 02h

ILT	1.0s	8.10nm	4.7mb	
MGD	72.96	8 eP	34 24.00	-0.8
YKA	73.15	24 eP	34 25.00	-1.1
	73.90	341 eP	34 29.30	-1.1
	0.5s	2.10nm	4.4mb	
CBN	74.25	306 eP	34 34.00	1.2
CVL	75.07	307 eP	34 38.43	0.8
IMA	75.98	358 eP	34 43.02	0.6
	0.7s	6.16nm	4.7mb	
ULM	76.64	325 eP	34 50.50	4.3X
CEH	76.74	305 eP	34 48.27	1.2
	1.0s	21.48nm	5.1mb	
FBA	76.92	356 eP	34 47.83	0.3
	0.9s	7.49nm	4.7mb	
LHS	78.71	305 eP	34 59.20	1.3
JSC	79.13	305 eP	35 01.45	1.3
HBF	79.39	304 eP	35 02.70	1.0
YSS	79.65	37 eP	35 02.00	-0.7
PMR	80.29	356 eP	35 05.71	-0.2
	0.7s	10.84nm	5.0mb	
Z	18s	0.24um	4.6msz	
SVW	80.99	359 eP	35 10.87	1.2
	0.7s	31.50nm	5.4mb	
SLKM	81.43	356 eP	35 12.15	0.2
ELC	82.09	312 eP	35 16.60	0.8
FVM	82.32	313 eP	35 17.81	0.8
	0.7s	19.15nm	5.3mb	
SES	82.80	332 ePc	35 20.40	1.1
OLY	84.63	312 eP	35 30.41	1.6
RSSD	84.91	325 eP	35 30.58	0.2
	1.6s	25.13nm	5.2mb	
Z	20s	0.47um	4.9msz	
MIAR	86.53	312 eP	35 40.00	1.7
	1.0s	25.25nm	5.4mb	
NEW	86.75	334 eP	35 39.89	0.7
	1.1s	24.69nm	5.4mb	
LCCM	86.87	330 eP	35 41.80	1.8
UYO	87.31	312 iPc	35 44.20	2.1
DPW	87.45	335 eP	35 43.92	1.3
BW06	88.42	327 eP	35 47.46	-0.2
	1.2s	6.53nm	4.8mb	
GLD	88.87	323 eP	35 50.66	0.9
	1.2s	14.78nm	5.2mb	
GOL	88.98	323 P	36 00.00	9.6X
Z	20s	0.52um	4.9msz	
WMOK	89.35	315 eP	35 53.33	1.4
	1.0s	23.07nm	5.4mb	
Z	20s	0.28um	4.7msz	
HVU	90.60	328 eP	35 59.00	1.2
DAU	91.09	327 eP	36 01.31	1.1
PV08	91.42	324 eP	36 02.55	0.7
PV09	91.70	324 eP	36 03.97	0.9
PV10	91.76	324 ePd	36 04.15	0.9
SRU	91.84	325 eP	36 03.65	0.1
DUG	91.94	327 eP	36 04.97	1.0
	0.8s	2.94nm	4.8mb	
MSU	93.06	326 eP	36 09.89	0.7
ALQ	93.25	320 P	36 20.00	9.9X
Z	19s	0.22um	4.6msz	
BONR	96.09	330 eP	36 24.02	0.8
TUC	97.51	322 P	36 40.00	10.5X
Z	21s	0.47um	4.9msz	
ISA	98.14	329 P	36 40.00	7.8X
Z	20s	0.44um	4.9msz	
ASPA	120.50	97 iPKPd	41 46.10	-1.2
	1.1s	5.90nm		
HON	120.75	1 PKP	42 00.00	12.3X
Z	19s	0.24um	4.8msz	
S.D. = 1.3 on 281 of 322 obs.				
? FEB 04, 1993 02h 48m 31.88±7.82s				
37.994 N ±61.3km 22.681 E ±17.2km				
DEPTH = 10.0km (geophysicist)				
SOUTHERN GREECE (368)				
AGG	1.06	345 ePg	48 51.80	-0.1
		eSg	49 06.70	
PAIG	2.08	22 ePn	49 07.08	-0.1
		eSn	49 34.80	
SOH	2.87	10 ePn	49 18.60	0.0
		eSn	49 53.92	
GRG	2.97	356 ePn	49 20.30	0.4
KNT	3.17	3 iPn	49 23.24	0.5
		eSn	50 01.70	
SRS	3.20	12 ePn	49 23.00	-0.1
VAY	3.32	359 ePn	49 24.40	-0.5
OHR	3.44	336 ePn	49 26.50	-0.1

S.D. = 0.4 on 8 of 8 obs.				
? FEB 04, 1993 03h 07m 57.04±5.85s				
30.443 S ±20.7km 70.571 W ±58.9km				
DEPTH = 120.0km (geophysicist)				
CHILE-ARGENTINA BORDER REGION (127)				
RTRS	1.00	74 ePc	08 19.30	0.0
		S	08 45.50	
RTCB	1.84	125 eP	08 29.00	-0.1
RTLL	2.01	117 eP	08 31.20	0.0
RTCV	2.24	130 eP	08 34.20	0.1
TCA	5.22	101 iP	09 14.10	0.0
S.D. = 0.1 on 5 of 5 obs.				
& FEB 04, 1993 03h 17m 56.32s				
59.710 N 153.889 W				
DEPTH = 132.7km				
SOUTHERN ALASKA (2)				
<AEIC>.				
PDB	0.17	297 iP	18 13.78	0.7
		eS	18 27.75	
OPT	0.34	99 iP	18 14.34	0.7
		eS	18 28.13	
AUL	0.40	145 eP	18 14.64	-0.8
AUW	0.40	148 eP	18 14.59	-0.8
AUH	0.41	147 eP	18 14.87	-0.7
AUE	0.44	143 eP	18 14.80	-0.8
AUI	0.44	148 eP	18 14.82	-0.8
		eS	18 29.25	
INW	0.52	46 eP	18 15.65	-0.6
INE	0.55	49 eP	18 15.53	-0.9
MCNL	0.57	204 iP	18 15.44	-0.9
		eS	18 30.27	
ILIM	0.60	51 eP	18 15.44	-1.2
		eS	18 31.10	
CDD	0.79	171 eP	18 16.90	-1.1
		S	18 33.50	
RS1	0.94	36 eP	18 18.47	-1.0
RDW	0.95	34 eP	18 18.60	-0.9
RS2	0.94	36 eP	18 18.63	-0.9
		S	18 35.69	
RSO	0.95	37 eP	18 18.57	-0.9
		eS	18 35.38	
NCT	0.98	29 eP	18 18.77	-0.9
		S	18 36.87	
REF	0.98	37 eP	18 18.94	-0.9
		S	18 36.30	
DFR	1.07	34 eP	18 19.45	-1.1
SYI	1.35	144 eP	18 21.43	-1.8
		eS	18 40.57	
BRLK	1.52	87 eP	18 24.07	-1.2
		S	18 43.24	
SVW	1.65	329 P	18 26.30	-0.4
SPU	1.73	31 eP	18 27.18	-0.5
SLKM	2.00	65 iP	18 29.28	-1.7
SEW	2.27	78 eP	18 31.88	-2.3
MPA	2.40	69 eP	18 33.72	-2.1
PMS	2.64	52 P	18 36.90	-2.1
PTE	2.69	62 eP	18 37.50	-2.0
PWA	2.77	44 P	18 38.70	-1.9
LT1	3.06	81 eP	18 41.93	-2.5
KNIM	3.15	76 eP	18 42.38	-3.3
KNK	3.18	55 eP	18 42.76	-3.3
32 obs. associated				
* FEB 04, 1993 03h 23m 22.74±0.86s				
23.048 N ±17.5km 94.428 E ±9.6km				
DEPTH = 133.5 ±18.7 km				
3.7mb (1 obs.)				
MYANMAR-INDIA BORDER REGION (294)				
CHG	5.96	134 ePg	24 50.00	0.0
		eSg	25 57.00	
KMI	7.87	73 Pd	25 16.00	0.0
		50.00nm	4.8mb X	
GUN	9.11	304 P	25 33.40	0.6
		21.00nm	5.2mb X	
PKI	9.32	301 P	25 35.20	-0.3
		14.00nm	5.0mb X	
KKN	9.52	302 P	25 38.40	0.3
		15.00nm	5.1mb X	
DMN	9.58	300 P	25 39.40	0.5
		11.00nm	4.9mb X	
GKN	10.12	301 P	25 45.00	-1.1
		19.00nm	5.2mb X	

GEC2	67.03	315 P	34 03.50	0.0
	0.7s	0.76nm		3.7mb
		e	34 08.20	
		e	34 30.60	
S.D. = 0.7 on 8 of 8 obs.				
* FEB 04, 1993 03h 47m 48.35± 1.69s				
11.257 S ± 8.1km 162.333 E ±12.5km				
DEPTH = 35.2 ± 15.0 km				
4.8mb (5 obs.)				
SOLOMON ISLANDS (193)				
HNR	2.97	307 eP	48 34.00	-0.1
		eS	49 14.00	
SVO	3.24	310 eP	48 48.00	9.8X
		eS	49 23.00	
DZM	11.45	160 iPd	50 32.80	0.1
		iS	52 33.90	
CTA	17.78	238 iPc-	51 55.00	0.0
	2.0s	132.35nm		4.7mb
		eS	55 30.00	
BRS	18.39	208 iP	52 03.00	0.5
RMO	19.84	218 iPd	52 19.20	0.0
	1.1s	168.00nm		5.3mb
		e	55 54.70	
CMS	25.26	215 eP	53 12.70	-0.3
ASPA	29.73	242 eP	53 52.80	-1.0
	1.0s	8.60nm		4.5mb
KMI	68.39	303 eP	58 51.00	1.7
YAK	77.36	345 eP	59 40.50	-0.5
	1.5s	39.00nm		5.2mb
GUN	83.51	300 P	00 00.00	-14.9X
YKA	96.70	28 eP	01 15.60	-0.4
	0.9s	1.50nm		4.5mb
GEC2	134.34	331 PKP	07 04.60	0.1
	0.6s	0.49nm		
BCAO	143.53	262 iPKPc	07 19.60	-2.6X
	0.8s	7.00nm		
		ic	07 34.00	
S.D. = 0.8 on 11 of 14 obs.				
* FEB 04, 1993 04h 23m 42.62± 0.79s				
3.719 S ± 8.4km 128.174 E ±14.2km				
DEPTH = 125.5 ± 8.1 km				
4.9mb (16 obs.)				
SERAM, INDONESIA (272)				
Felt (11) at Ambon.				
AAI	0.04	33 iPd	24 01.10	0.0
		iS	24 06.50	
SLKI	5.25	144 iPd	25 03.00	2.9X
MTN	9.53	162 iPd	25 58.20	0.1
	0.3s	264.00nm		6.5mb X
		eS	27 47.00	
ASPA	20.59	165 iPc	28 13.30	-0.3
	0.4s	201.10nm		5.9mb
		eS	31 53.80	
CVP	22.19	344 eP	28 31.00	1.6
CTA	23.99	134 eP	28 44.00	-2.9
RMO	30.02	141 eP	29 41.80	0.0
	0.8s	15.00nm		4.8mb
STK	30.72	157 P	29 47.79	0.0
BRS	33.25	138 eP	30 09.00	-1.0
ARMA	34.59	143 eP	30 22.00	0.5
	0.8s	18.00nm		4.9mb
SSE	35.26	350 P	30 26.50	-0.5
	1.0s	13.00nm		4.7mb
Z	12s	0.40um		4.4msz X
BFD	35.82	160 iPc	30 31.60	-0.1
	0.9s	46.00nm		5.3mb
BWA	35.88	151 eP	30 33.90	1.6
CHG	36.46	309 ePd	30 38.20	0.9
	1.0s	18.25nm		4.9mb
WHN	36.54	340 Pc	30 39.00	1.2
	1.0s	1.80nm		3.9mb X
Z	10s	1.27um		5.0msz X
		eS	36 12.00	
NJ2	36.66	347 Pc	30 39.80	1.0
CAN	36.89	151 iPd	30 41.60	0.9
TOO	37.24	157 iPd	30 45.20	1.5
	0.6s	34.00nm		5.4mb
KMI	37.84	321 Pc	30 51.00	1.9
	1.8s	50.00nm		5.0mb
MAT	41.13	12 eP	31 15.00	-0.9
	1.0s	20.00nm		4.8mb
XAN	41.72	336 P	31 20.00	-0.8
	1.0s	8.50nm		4.4mb

TIY	43.74	342	eP	31	45.20	109kmX	KEK	2.76	304	eP	38	19.00	0.7	eS	19	57.87				
BJI	44.92	347	eP	31	37.00	-0.2	GRG	2.77	354	ePn	38	18.28	-0.1	PV10	3.50	46	ePn	19	14.28	-0.3
	1.0s	22.00nm							iSn	38	54.12					ePg	19	21.23		
LZH	45.67	332	Pc	31	53.50	0.8	FNA	2.79	338	ePn	38	19.24	0.5	PV09	3.53	43	ePn	19	15.55	0.5
	1.4s	34.00nm				4.9mb			eSn	38	55.00					eS	20	04.16		
E	11s	0.74um					KNT	2.96	2	ePn	38	20.80	-0.2	GLA	3.61	217	ePn	19	16.37	0.5
									eSn	38	57.68					ePg	19	28.08		
HHC	46.89	343	P	32	02.20	0.0	SRS	2.98	12	ePn	38	20.60	-0.7	GSC	3.79	261	ePn	19	18.02	-0.5
	1.2s	14.00nm				4.6mb	VAY	3.12	357	ePn	38	23.40	0.1				ePg	19	28.91	
GTA	50.24	331	P	32	27.80	-0.2	EZN	3.21	59	eP	38	27.00	2.3	TUC	3.84	161	ePn	19	19.60	0.5
	1.0s	16.00nm				4.9mb	OHR	3.28	333	iPn	38	26.70	1.1				ePg	19	30.44	
									i	38	34.50					eS	20	20.54		
GUN	51.45	310	P	32	36.80	-0.9			i	39	02.60		PV08	3.87	47	ePnd	19	19.93	0.1	
PKI	51.63	310	P	32	37.80	-1.3			i	39	09.00					ePg	19	29.75		
KKN	51.84	310	P	32	39.60	-0.9			Lg	39	17.10					eS	20	16.14		
DMN	51.89	310	P	32	40.00	-0.9			i	39	26.10		EMUT	4.00	16	ePn	19	21.75	0.1	
GKN	52.44	310	P	32	43.80	-1.1	IZM	3.55	85	eP	38	29.00	-0.5				ePg	19	32.24	
YAK	65.56	1	iPd	34	14.00	-0.4	ALN	3.70	42	ePn	38	29.96	-1.6				eS	20	16.17	
	0.9s	77.00nm				5.6mb	SKO	3.90	345	iPn	38	35.80	1.4				eSg	20	19.80	
BALM	92.97	29	eP	36	42.97	0.3			i	38	53.00		DUG	4.25	354	ePn	19	24.23	-0.8	
YKA	105.61	25	ePdiff	37	40.90	1.5	BNT	4.54	60	eP	38	58.00	14.4X				ePg	19	35.56	
	0.6s	0.30nm				4.5mb	DST	4.79	71	eP	38	47.00	-0.1				eSg	20	30.19	
	S.D. = 1.1	on 33 of 34 obs.					BRT	5.06	304	P	38	50.00	-0.9	DAU	4.51	9	ePn	19	29.15	0.3
							TDS	5.22	208	P	38	52.50	-0.6	TNP	4.52	299	ePn	19	28.53	-0.4
									eSn	39	44.20					eS	20	37.74		
% FEB 04, 1993 04h 55m 23.54±0.75s							ORI	5.25	293	P	38	52.60	-1.0	PEC	4.55	244	ePn	19	27.95	-1.3
40.887 N ± 6.5km									eSn	39	46.20		PLM	4.62	237	ePn	19	30.17	-0.2	
DEPTH = 10.0km (geophysicist)							SOI	5.29	271	P	38	54.50	0.4				ePg	19	44.87	
GREECE									eSn	39	48.90		ALO	4.82	101	ePn	19	33.06	-0.1	
							ATN	5.75	272	P	39	02.00	1.4				ePg	19	44.93	
THE	0.26	186	ePg	55	28.92	0.0	MGR	5.93	291	P	39	01.70	-1.4				eS	20	40.03	
			eSg	55	32.52				eSn	40	04.00					eSg	20	47.38		
SOH	0.28	104	iPg	55	29.68	0.3	SGO	6.24	294	P	39	06.80	-0.6	BONR	5.26	294	ePn	19	39.35	-0.1
			iSg	55	33.84				eSn	40	09.30		MTUM	5.28	287	(Pn)	19	40.79	1.0	
KNT	0.28	345	ePg	55	29.76	0.2			eSn	40	09.30					ePg	19	54.09		
			eSg	55	34.36		MNO	6.37	270	P	39	08.00	-1.6	MRCM	5.32	291	(Pn)	19	41.69	1.4
GRG	0.46	279	ePg	55	32.72	-0.1	SDI	7.71	380	P	39	28.00	-0.2				ePg	19	56.34	
			eSg	55	40.08		VBY	9.20	325	ePn	40	01.70	13.0X	KVN	5.59	305	ePg	20	01.11	16.9X
SRS	0.50	63	ePg	55	33.40	-0.4			eSn	41	27.50		HVU	5.82	356	ePn	19	46.77	-0.5	
			eSg	55	41.16		LBF	16.35	308	eP	41	31.30	7.1X	GOL	6.58	53	ePn	19	57.81	-0.4
	S.D. = 0.4	on 5 of 5 obs.							1.1s	7.55nm					eP	20	18.93			
							LOR	16.55	309	eP	41	31.50	4.9X			eS	21	38.82		
									0.9s	4.60nm										
* FEB 04, 1993 04h 57m 47.62±0.95s							SSF	16.68	308	eP	41	30.30	2.1	BW06	7.11	16	eP	20	02.74	-2.8X
45.063 S ± 9.7km									1.0s	9.00nm				RSSD	10.28	35	eP	20	44.48	-5.0X
DEPTH = 152.7 ± 6.9 km							YKA	73.96	341	eP	49	13.00	3.5X							
SOUTH ISLAND, NEW ZEALAND									0.4s	0.20nm										
											</									

04d 06h

VAY 3.12 359 ePn 49 20.60 4.3X
 OHR 3.23 335 ePn 49 18.80 0.7
 SKO 3.87 347 ePn 49 41.00 13.8X
 S.D. = 0.7 on 6 of 14 obs.

% FEB 04, 1993 06h 55m 55.91±0.62s
 40.595 S ± 4.8km 174.601 E ± 6.3km
 DEPTH = 94.5 ± 10.3 km
 COOK STRAIT, NEW ZEALAND (163)

KIW 0.36 139 Pc 56 09.30 -1.1
 DIW 0.56 248 Pc 56 10.20 -1.6
 CAW 0.62 146 P 56 12.30 0.0
 MRW 0.64 173 P 56 12.70 0.2
 S 56 23.10
 TCW 0.66 202 P 56 12.50 -0.2
 MNG 0.67 92 P 56 12.80 0.0
 S 56 23.10
 WEL 0.70 170 P 56 13.60 0.6
 S 56 24.80
 BSZ 0.84 18 P 56 13.60 -0.8
 MTW 0.89 130 eP 56 15.00 0.1
 BLW 1.02 140 P 56 17.60 1.2
 NRZ 1.36 338 P 56 20.40 -0.1
 CNZ 1.57 28 P 56 23.80 0.5
 ORZ 1.59 261 P 56 23.70 0.3
 S 56 42.70
 NGZ 1.61 29 P 56 24.60 0.7
 WAHZ 1.62 57 P 56 24.00 0.2
 THZ 1.73 227 P 56 27.00 1.7
 S 56 47.40
 KHZ 1.99 203 P 56 29.80 1.2
 S 56 51.80
 DSZ 2.41 241 eP 56 34.90 0.6
 LTZ 2.80 218 P 56 40.20 0.6
 S 57 11.00
 WLZ 2.83 16 eP 56 40.90 0.9
 S 57 13.20
 NOZ 3.31 54 P 56 44.90 -1.6
 MQZ 3.43 204 eP 56 47.00 -1.2
 S 57 22.50
 KUZ 3.94 13 eP 56 55.40 0.1
 LMZ 5.04 230 eP 57 09.80 -0.7
 ODZ 5.31 212 eP 57 12.70 -1.6
 eS 58 09.00
 S.D. = 1.0 on 25 of 25 obs.

* FEB 04, 1993 07h 01m 04.56±2.12s
 31.724 S ± 10.3km 71.831 W ± 18.1km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)
 MD 4.1 (SAN).

JACH 1.42 133 eP 01 30.16 -0.3
 eS 01 48.93
 ROCH 1.42 151 iP 01 30.43 -0.2
 iS 01 49.71
 PEL 1.71 146 iP 01 34.85 0.2
 iS 01 56.18
 LCCH 1.76 173 iP 01 35.10 -0.2
 iS 01 56.90
 SAN 1.99 151 iP 01 38.45 -0.1
 iS 02 03.60
 RTBS 2.03 89 eP 01 40.30 1.2
 S 02 06.00
 FCH 2.06 141 iP 01 40.01 0.1
 iS 02 06.74
 TACH 2.07 159 iP 01 39.86 0.1
 iS 02 04.95
 PCH 2.19 150 iP 01 41.63 0.0
 iS 02 09.23
 LNV 2.25 171 iP 01 41.97 -0.4
 iS 02 09.36
 CHCH 2.42 156 iP 01 45.09 0.3
 iS 02 14.33
 RTRS 2.56 53 ePd 01 46.80 0.1
 S 02 20.00
 RTCB 2.60 86 ePd 01 48.50 1.1
 S 02 22.50
 CACH 2.60 157 eP 01 48.41 0.9
 iS 02 19.80
 MDZ 2.78 115 eP 01 54.40 4.4X
 i 02 02.70
 i(S) 02 30.70
 RTCV 2.81 94 ePd 01 51.30 0.9
 RTLL 2.90 83 ePc 01 51.50 -0.1
 (S) 02 28.20

CFA 3.06 89 eP 01 54.30 0.3
 RFA 4.14 138 ePc 02 09.20 -0.1
 S 03 17.80
 RTPR 4.78 74 e(P) 02 17.20 -1.1
 MRA 5.24 99 e(P) 02 22.30 -2.5
 TCA 6.19 88 iP 02 35.00 -3.3X
 (S) 03 44.00
 S.D. = 0.9 on 20 of 22 obs.

FEB 04, 1993 07h 16m 05.75±0.62s
 38.209 N ± 5.5km 22.789 E ± 7.6km
 DEPTH = 33.0km (normol)
 GREECE (364)
 ML 2.8 (ATH).

ATH 0.77 108 eP 16 20.50 0.4
 AGG 0.89 336 ePg 16 22.40 0.5
 eSg 16 30.50
 VLI 1.49 175 eP 16 30.00 -0.5
 VLS 1.73 270 eP 16 34.50 0.5
 PAIG 1.85 22 ePb 16 37.00 1.3
 eSb 16 55.00
 KZN 2.24 340 eP 16 42.10 0.8
 SOH 2.65 9 ePn 16 46.82 -0.2
 GRG 2.76 354 ePn 16 48.58 -0.1
 KNT 2.95 2 ePn 16 50.40 -1.0
 SRS 2.97 12 ePn 16 50.90 -0.7
 VAY 3.11 357 ePn 16 53.40 -0.2
 OHR 3.28 333 ePn 16 55.30 -0.8
 S.D. = 0.8 on 12 of 12 obs.

? FEB 04, 1993 08h 02m 54.98±6.44s
 38.707 N ± 51.0km 21.772 E ± 17.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

AGG 0.54 54 ePg 03 05.62 -0.3
 eSg 03 17.30
 PAIG 1.92 50 ePn 03 27.94 0.0
 FNA 2.10 352 ePn 03 30.40 -0.2
 GRG 2.30 12 ePn 03 33.14 -0.4
 iSn 04 05.01
 OUR 2.36 46 ePn 03 34.17 -0.2
 SOH 2.44 29 ePn 03 35.90 0.4
 OHR 2.52 343 ePn 03 45.50 8.9X
 KNT 2.60 19 ePn 03 38.10 0.3
 iSn 04 12.69
 VAY 2.68 13 ePn 03 42.70 3.8X
 SRS 2.78 30 ePn 03 40.70 0.3
 SKO 3.27 356 ePn 03 53.50 6.2X
 S.D. = 0.4 on 8 of 11 obs.

* FEB 04, 1993 08h 03m 34.74±2.56s
 10.024 N ± 9.3km 126.285 E ± 24.4km
 DEPTH = 59.4 ± 21.8 km
 4.6mb (8 obs.) 4.4Msz (4 obs.)
 PHILIPPINE ISLANDS REGION (248)

PLP 1.71 312 ePd 04 02.50 -0.2
 iS 04 23.00
 CGP 2.21 225 iPd 04 10.50 0.8
 eS 04 41.50
 DAV 3.00 194 eP 04 29.50 8.6X
 eS 05 05.80
 QCP 6.85 313 eP 04 50.00 -24.9X
 BAG 8.43 319 eP 05 35.00 -2.0
 GZH 17.94 318 eP 07 43.00 1.3
 Z 18s 1.21um
 SSE 21.50 348 Pd 08 21.80 1.4
 1.0s 21.00nm 4.5mb
 NJ2 22.97 344 Pd 08 35.60 0.6
 S 12 36.00
 WHN 23.25 333 eP 08 39.00 1.4
 Z 16s 1.18um 4.4MszX
 E 16s 0.92um
 S 12 44.00
 GYA 24.73 314 P 08 50.20 -2.0
 Z 18s 0.88um 4.3Msz
 NNT 26.16 278 eP 08 46.50 -18.9X
 XAN 28.72 329 P 09 26.80 -1.8
 CD2 29.50 318 eP 09 37.80 2.1
 Z 18s 0.92um 4.4Msz
 TIY 30.26 338 eP 09 43.60 1.3
 WB2 30.82 165 eP 09 45.80 -1.5
 0.5s 4.20nm 4.4mb
 BJI 31.22 345 eP 10 09.00 18.4X
 Z 20s 0.30um 4.0Msz

LZH 32.99 325 Pd 10 06.00 -0.3
 1.4s 24.00nm 4.8mb
 Z 15s 0.58um 4.4MszX
 E 12s 0.38um

HHC 33.35 339 P 10 09.80 0.4
 1.3s 17.00nm 4.8mb
 BTO 33.69 337 eP 10 11.00 -1.3
 ASPA 34.30 168 eP 10 18.70 1.0
 0.9s 7.10nm 4.6mb
 WARB 35.99 179 eP 10 32.00 0.0
 GTA 37.59 326 eP 10 45.40 -0.1
 1.2s 12.00nm 4.7mb
 Z 18s 0.86um 4.6Msz

GBA 47.89 279 P 12 09.00 -0.2
 MAIO 65.45 305 eP 14 06.00 -8.0X
 KAF 85.85 332 eP 16 10.20 1.3
 0.7s 5.50nm 4.8mb
 NUR 87.02 331 eP 16 13.10 -1.6
 YKA 93.97 24 eP 16 46.50 -0.7
 0.8s 0.80nm 4.2mb
 S.D. = 1.4 on 22 of 27 obs.

* FEB 04, 1993 10h 01m 00.34±2.68s
 38.181 N ± 19.2km 27.056 E ± 15.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK). Felt at Izmir.

IZM 0.27 37 iPg 01 05.00 -1.1
 eSg 01 11.00
 CIN 1.00 125 iPg 01 11.00 0.3
 iSg 01 11.00
 EZN 1.74 341 iPn 01 11.00 0.0
 DST 1.88 40 ePn 01 11.00 0.0
 KHL 1.95 85 ePn 01 11.00 0.0
 EDC 2.25 16 ePn 01 11.00 0.0
 BNT 2.27 17 ePn 01 11.00 0.0
 KCT 2.30 26 ePn 01 11.00 0.0
 ALT 2.55 69 ePn 01 11.00 0.0
 S.D. = 1.0 on 0 of 0 obs.

* FEB 04, 1993 10h 03m 00.00±2.68s
 37.879 N ± 9.9km 27.110 E ± 15.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK). Felt at Izmir.

IZM 0.52 7 iPg 06 00.00 -1.2
 iSg 06 10.50
 CIN 0.77 111 iPg 06 10.00 0.4
 iSg 06 10.00
 YER 1.15 130 iPn 06 15.40 -0.7
 KHL 1.90 76 ePn 06 20.00 0.5
 EZN 2.06 341 ePn 06 29.70 0.1
 DST 2.06 33 ePn 06 28.70 -1.1
 EDC 2.52 12 ePn 06 36.50 0.3
 KCT 2.54 21 ePn 06 37.10 0.6
 BNT 2.54 13 ePn 06 37.50 1.0
 EYL 3.54 40 ePn 06 51.00 0.1
 S.D. = 0.8 on 10 of 10 obs.

% FEB 04, 1993 10h 16m 00.70±2.64s
 38.173 N ± 18.7km 27.092 E ± 15.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

IZM 0.26 31 iPg 16 05.00 -1.3
 eSg 16 10.50
 EZN 1.76 340 ePn 16 30.70 -0.6
 eSg 16 55.70
 DST 1.87 39 ePn 16 33.70 0.7
 KHL 1.92 85 ePn 16 33.00 -0.8
 EDC 2.25 15 ePn 16 38.50 0.0
 BNT 2.27 16 ePn 16 39.50 0.6
 KCT 2.29 25 ePn 16 40.10 0.9
 ALT 2.52 69 ePn 16 43.00 0.5
 S.D. = 1.0 on 8 of 8 obs.

FEB 04, 1993 10h 18m 38.85±0.55s
 40.530 N ± 6.4km 30.148 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK). Felt at Adopazari.

EYL 0.04 11 iPg 18 40.80 -0.2

GPA 0.27 153 iPg 18 42.70 -1.9
 ISK 0.98 303 iPg 18 57.50 0.0
 ITU 1.04 304 eP 18 58.00 -0.4
 KCT 1.40 259 ePn 19 05.10 0.7
 CTT 1.44 296 iPn 19 05.60 0.6
 ALT 1.47 181 iPn 19 07.10 1.6
 BNT 1.71 265 iPn 19 08.50 -0.3
 EDC 1.75 265 ePn 19 09.50 0.0
 BBTk 2.12 108 eP 19 14.80 0.0
 DMC 2.22 306 ePn 19 15.20 -1.0
 KAS 2.87 72 ePn 19 26.50 1.0
 iSg 20 04.00

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

% FEB 04, 1993 10h 21m 35.02±0.98s
 39.120 N ± 8.8km 27.582 E ± 16.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

Izm 0.76 199 iPg 21 50.00 0.0
 DST 0.94 59 ePn 21 52.70 -0.4
 EDC 1.24 10 ePn 21 57.50 -0.6
 BNT 1.26 12 ePn 21 58.50 0.0
 KCT 1.28 28 ePn 21 59.60 0.9
 S.D. = 0.8 on 5 of 5 obs.

% FEB 04, 1993 10h 30m 37.19±0.89s
 39.097 N ± 7.7km 27.624 E ± 9.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

Izm 0.75 202 iPg 30 52.00 0.0
 DST 0.93 57 ePn 30 54.70 -0.3
 EZN 1.24 306 ePn 31 00.20 0.0
 BNT 1.28 10 ePn 31 00.50 -0.4
 KCT 1.28 26 iPn 31 01.60 0.6
 S.D. = 0.6 on 5 of 5 obs.

FEB 04, 1993 10h 45m 44.82±0.43s
 43.096 N ± 5.4km 0.615 W ± 2.7km
 DEPTH = 5.0km (geophysicist)
 PYRENEES (378)
 ML 1.0 (STR).

ESCF 0.03 121 Pg 45 45.92 -0.2
 ATE 0.06 261 Pg 45 46.22 -0.3
 OGE 0.13 55 Pg 45 47.41
 ISSF 0.15 243 Pg 45 47.50 0.0
 MADF 0.16 288 Pg 45 51.10
 LHE 0.18 181 Pg 45 48.72 0.1
 JAU 0.19 108 Pg 45 48.91 0.1
 ELYF 0.29 285 Pg 45 50.62 0.0
 BOH 0.29 271 Pg 45 50.95 0.2
 BTH 0.30 85 Pc 45 50.90 0.0
 iSg 45 51.10
 S.D. = 0.2 on 10 of 10 obs.

* FEB 04, 1993 11h 00m 55.98±0.85s
 9.113 S ± 14.1km 109.670 W ± 19.4km
 DEPTH = 10.0km (geophysicist)
 4.6mb (3 obs.) 4.7MsZ (15 obs.)
 CENTRAL EAST PACIFIC RISE (694)

ZOBO 41.08 104 P 08 43.00 0.4
 Z 24s 0.96um 4.6MsZ
 S 15 06.00
 LR 20 18.00
 LPB 41.14 105 P 08 44.30 1.6
 Z 20s 2.13um 5.0MsZ
 LR 20 22.00
 TUC 41.20 359 P 08 50.00 7.4X
 Z 20s 0.63um 4.5MsZ
 PLM 42.78 351 eP 08 55.81 0.1
 ALO 43.92 4 P 09 20.00 15.1X

Z 19s 0.57um 4.5MsZ
 MDZ 44.45 128 eP 09 08.20 -1.0
 GSC 44.68 352 eP 09 11.38 0.4
 WMOK 44.81 13 P 09 20.00 8.0X
 Z 16s 1.03um 4.8MsZ
 MEO 44.90 13 iPc 09 16.50 3.8X
 BCH 45.14 348 eP 09 12.04 -2.7
 ISA 45.30 350 P 09 30.00 14.1X
 Z 16s 0.66um 4.7MsZ
 MIAR 46.02 19 P 09 30.00 8.5X
 Z 20s 0.61um 4.5MsZ
 TPNV 46.23 353 P 09 30.00 6.6X
 Z 20s 2.46um 5.2MsZ
 ACO 46.63 12 e(P) 09 27.50 1.2
 TCA 47.30 124 eP 09 30.50 -1.4
 BONR 47.51 351 eP 09 34.99 1.3
 OLY 47.59 20 eP 09 34.18 0.3
 SIV 47.84 103 P 09 40.00 3.8X
 CMB 47.96 349 P 09 50.00 13.1X
 Z 19s 0.98um 4.8MsZ
 EMUT 48.69 359 eP 09 44.16 1.5
 GOL 48.73 4 P 09 50.00 7.0X
 Z 18s 0.50um 4.5MsZ
 GLD 48.79 5 P 09 50.00 6.6X
 Z 19s 0.98um 4.8MsZ
 DAU 49.30 358 (P) 09 49.11 1.7
 GBTN 50.60 27 (P) 09 55.23 -1.9
 RSSD 53.23 5 eP 10 16.39 -0.7
 Z 21s 10.76nm 4.7mb
 CEH 53.23 31 P 10 20.00 3.1X
 Z 18s 0.39um 4.5MsZ
 LCCM 54.73 358 eP 10 28.70 0.7
 MCWV 55.85 28 P 10 40.00 4.0X
 Z 20s 1.39um 5.0MsZ
 HON 56.27 303 P 10 40.00 0.7
 Z 21s 1.35um 5.0MsZ
 DPW 57.23 353 eP 10 43.69 -2.2
 SES 59.27 359 eP 11 01.00 1.0
 ULM 60.33 10 eP 11 12.50 5.3X
 EEO 61.86 23 eP 11 21.00 3.3X
 HRV 62.05 31 P 11 20.00 0.9
 Z 19s 0.66um 4.8MsZ
 RSNY 62.13 28 (P) 11 22.49 2.9X
 Z 19s 0.35um 4.5MsZ
 CBM 66.93 30 P 12 00.00 9.3X
 Z 20s 0.58um 4.8MsZ
 FCC 68.81 9 eP 12 07.50 5.3X
 YKA 71.49 358 eP 12 16.10 -2.4
 Z 1.1s 3.30nm 4.4mb
 SPA 80.95 180 iPd 13 13.40 1.4
 Z 1.0s 7.50nm 4.7mb
 BCAO 128.39 92 ePKPd 20 09.20 3.5X
 Z 0.5s 5.00nm
 KMI 145.31 301 PKPc 20 36.00 -0.8
 Z 2.0s 60.00nm
 NST 150.19 286 ePKP 20 48.00 3.6X
 CHG 150.65 292 ePKP 20 49.80 4.7X
 S.D. = 1.5 on 22 of 43 obs.

FEB 04, 1993 11h 20m 43.09±0.74s
 38.213 N ± 6.6km 22.694 E ± 8.1km
 DEPTH = 13.1 ± 4.5 km
 GREECE (364)
 ML 3.0 (ATH).

ATH 0.84 106 ePn 20 59.50 0.5
 AGG 0.86 341 ePg 20 58.50 -0.8
 eSg 21 11.40
 VLI 1.50 173 ePn 21 08.50 -1.2
 eSn 21 30.50
 VLS 1.66 269 ePn 21 13.60 1.6
 PAIG 1.88 24 iPb 21 15.88 0.8
 KZN 2.21 341 ePn 21 20.50 0.5
 OUR 2.34 25 ePn 21 22.62 0.8
 SOH 2.66 11 ePn 21 26.08 -0.3
 FNA 2.76 339 ePn 21 28.28 0.4
 KNT 2.95 3 ePn 21 30.44 0.0
 eSn 22 07.30
 SRS 2.98 13 ePn 21 30.28 -0.6
 VAY 3.11 358 ePn 21 28.80 -3.8X
 i 21 36.40
 OHR 3.24 334 ePn 21 33.00 -1.7
 S.D. = 1.1 on 12 of 13 obs.

% FEB 04, 1993 11h 41m 27.48±0.86s

39.140 N ± 7.1km 27.641 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

Izm 0.80 202 iPg 41 43.00 0.0
 iSg 41 54.50
 DST 0.90 58 ePn 41 44.70 0.0
 EDC 1.22 8 ePn 41 50.00 -0.1
 EZN 1.23 304 ePn 41 50.30 0.0
 BNT 1.23 10 ePn 41 50.50 0.1
 S.D. = 0.1 on 5 of 5 obs.

FEB 04, 1993 12h 31m 22.81±1.59s
 34.001 S ± 18.4km 179.636 E ± 19.7km
 DEPTH = 363.0 ± 13.7 km
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.75 196 eP 32 29.70 -0.8
 KUZ 4.21 228 P 32 34.80 -0.4
 0.8s 107.00nm
 URZ 4.72 205 eP 32 40.40 0.0
 0.1s 43.00nm
 eS 33 46.80
 NOZ 4.79 195 P 32 39.90 -1.3
 0.1s 28.00nm
 WLZ 5.06 219 P 32 44.80 0.6
 PAHZ 5.28 202 eP 32 47.20 0.6
 WHH 5.49 207 eP 32 49.60 0.6
 MOH 5.50 201 eP 32 49.60 0.6
 TTH 5.97 201 P 32 54.90 0.6
 NGZ 6.10 211 eP 32 57.60 1.7
 CNZ 6.14 211 eP 32 58.00 1.6
 WAHZ 6.27 204 eP 32 56.20 -1.5
 BSZ 6.90 212 P 33 06.40 1.4
 MNG 7.39 205 P 33 09.30 -1.4
 eS 34 42.60
 KIW 7.81 207 eP 33 14.10 -1.5
 MTW 7.86 203 eP 33 15.10 -1.1
 MOW 8.18 204 eP 33 19.80 -0.2
 MRW 8.21 207 P 33 19.80 -0.5
 TCW 8.36 209 P 33 22.20 0.1
 ORZ 8.85 218 P 33 28.20 0.3
 THZ 9.40 212 P 33 35.60 1.1
 KHZ 9.67 208 P 33 37.40 -0.3
 DSZ 9.90 216 P 33 39.20 -1.3
 LTZ 10.50 211 P 33 48.50 0.9
 MQZ 11.11 207 P 33 55.50 0.6
 eS 36 02.90
 ASPA 41.08 272 iPc 38 33.80 -0.2
 0.6s 6.70nm 4.1mb
 WBZ 42.38 277 iPc 38 43.40 -1.1
 0.3s 10.10nm 4.6mb
 KAF 147.17 337 ePKP 50 21.50 0.2
 0.4s 2.90nm
 NUR 148.89 336 ePKP 50 24.80 0.8
 1.0s 26.50nm
 NBZ 151.93 348 PKP 50 34.40 5.8X
 0.7s 3.00nm
 LIC 152.03 170 PKP 50 42.40 12.3X
 KIC 152.20 171 PKP 50 42.80 12.4X
 HFS 152.28 345 ePKP 50 34.70 5.6X
 0.5s 1.60nm
 S.D. = 1.0 on 29 of 33 obs.

? FEB 04, 1993 13h 09m 18.25±2.88s
 7.902 S ± 21.0km 134.216 E ± 27.7km
 DEPTH = 33.0km (normal)
 4.7mb (3 obs.)
 ARU ISLANDS REGION, INDONESIA (204)

SLKI 2.89 268 ePc 10 03.20 0.2
 iS 10 32.00
 MTN 5.78 211 eP 10 44.10 0.2
 0.4s 321.00nm 6.3mb X
 eS 11 53.00
 WBZ 11.97 179 iPc 12 09.80 0.1
 eS 14 22.10
 ASPA 15.68 181 iPc 12 59.30 0.8
 i 13 07.10
 iS 15 51.10
 PCI 15.92 295 e(P)c 13 01.70 0.1
 WARB 19.56 201 eP 13 45.00 -1.4
 0.4s 7.00nm 4.3mb
 RMO 23.08 145 iPc 14 29.30 7.2X
 0.6s 14.00nm 4.6mb

04d 13h

FORT 23.48 193 eP 14 29.00 3.1X
 0.7s 48.00nm 5.1mb
 LPB 147.18 138 ePKP 29 09.00 10.1X
 ZOBO 147.34 137 ePKP 29 02.00 2.6X
 S.D. = 1.0 on 6 of 10 obs.

* FEB 04, 1993 13h 30m 49.45±1.74s
 9.951 N ± 6.6km 126.420 E ±12.3km
 DEPTH = 57.1 ± 15.6 km
 4.7mb (11 obs.) 4.3MsZ (1 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

PLP 1.86 311 iP 31 19.00 -0.5
 iS 31 42.00
 CGP 2.26 229 eP 31 17.00 -8.1X
 PGP 6.41 304 eP 32 25.00 1.5
 CVP 8.91 330 eP 32 57.00 -1.1
 SSE 21.60 348 Pd 35 37.00 0.7
 1.0s 21.00nm 4.5mb
 NJ2 23.08 343 Pd 35 52.00 1.1
 1.0s 13.00nm 4.3mb
 GYA 24.87 314 eP 36 10.60 2.1
 IPM 25.74 260 ePc 36 18.00 1.4
 NST 26.24 285 eP 36 22.00 0.8
 CHG 28.00 291 eP 36 36.00 -1.2
 XAN 28.85 329 P 36 42.50 -2.2
 0.7s 10.00nm 4.6mb
 WB2 30.72 165 eP 37 00.70 -0.7
 0.9s 4.10nm 4.2mb
 LZH 33.12 325 eP 37 21.50 -1.0
 1.2s 15.00nm 4.7mb
 Z 18s 0.59um 4.3MsZ
 HHC 33.47 339 P 37 26.00 0.7
 1.2s 12.00nm 4.6mb
 BTO 33.81 337 eP 37 28.90 0.6
 ASPA 34.20 168 eP 37 30.30 -1.5
 0.4s 5.90nm 4.9mb
 WARB 35.92 180 eP 37 46.40 0.1
 MEEK 37.15 192 eP 37 56.20 -0.5
 GTA 37.73 325 eP 37 59.50 -2.0
 sP 38 22.00
 MRWA 40.22 194 eP 38 22.00 -0.2
 GUN 42.06 301 P 38 38.00 0.2
 0.6s 12.00nm 4.8mb
 KLB 42.13 191 eP 38 38.00 0.2
 PKI 42.36 300 P 38 40.00 0.5
 MUN 42.82 193 eP 38 43.40 -0.1
 RKG 45.17 191 eP 39 03.40 1.0
 GBA 48.03 279 P 39 24.00 -1.2
 DZM 50.53 129 iPd 39 45.90 1.5
 YAK 52.03 2 eP 39 54.90 -0.2
 1.1s 30.00nm 5.2mb
 KAF 85.98 332 eP 43 24.30 -0.3
 0.8s 9.90nm 5.0mb
 YKA 93.99 24 eP 44 03.00 0.8
 0.7s 2.70nm 4.8mb
 S.D. = 1.2 on 29 of 30 obs.

* FEB 04, 1993 13h 45m 53.43±2.38s
 31.685 S ±17.6km 69.795 W ±13.1km
 DEPTH = 165.4 ± 30.4 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 4.0 (SAN).

JACH 1.20 214 iP 46 21.37 -0.4
 iS 46 39.80
 PEL 1.64 207 iPd 46 25.80 -0.2
 iS 46 47.71
 ROCH 1.65 218 iP+ 46 26.04 -0.2
 iS 46 48.06
 FCH 1.69 194 iPd 46 27.28 0.4
 iS 46 49.94
 SAN 1.91 202 iP 46 28.97 0.1
 eS 46 53.52
 PCH 2.02 197 iPd 46 30.65 0.4
 iS 46 56.95
 TACH 2.19 206 iP 46 32.12 0.1
 iS 46 59.74
 LCCH 2.33 220 iP+ 46 33.98 0.3
 iS 47 02.12
 CHCH 2.36 198 iP+ 46 34.20 0.1
 iS 47 03.66
 CACH 2.52 195 iP 46 36.79 0.7
 iS 47 07.99
 LNV 2.64 211 iP+ 46 36.81 -0.6
 iS 47 07.80
 RFA 3.27 160 ePc 46 44.70 -0.7

S 47 16.50
 MRA 3.54 103 e(P) 46 49.00 0.2
 TCA 4.46 87 iPd 47 00.80 0.0
 (S) 47 47.50
 S.D. = 0.5 on 14 of 14 obs.

FEB 04, 1993 14h 14m 39.72±1.30s
 37.859 N ± 9.5km 26.956 E ±10.8km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.5 (ISK).

IZM 0.59 24 iPg 14 51.00 -0.7
 eSg 14 57.50
 CIN 0.93 106 iPgD 14 57.00 -0.5
 iSg 15 11.00
 YER 1.28 124 iPn 15 03.40 -0.1
 PRK 1.49 339 ePb 15 07.70 1.3
 eSb 15 30.40
 EZN 2.03 346 iPn 15 13.50 -0.7
 KHL 2.08 76 ePn 15 16.00 0.9
 DST 2.18 36 ePn 15 16.60 0.0
 EDC 2.58 16 ePn 15 22.50 0.3
 BNT 2.60 16 ePn 15 22.50 -0.1
 KCT 2.62 24 ePn 15 23.20 0.3
 KSL 2.73 129 ePn 15 33.20 8.9X
 RDO 3.46 342 ePn 15 34.00 -0.7
 S.D. = 0.7 on 11 of 12 obs.

% FEB 04, 1993 14h 28m 23.01±0.83s
 39.069 N ± 6.9km 27.645 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.73 204 iPg 28 37.50 0.0
 iSg 28 50.00
 DST 0.93 55 iPn 28 40.60 -0.2
 EZN 1.27 307 iPn 28 46.50 -0.1
 EDC 1.29 7 ePn 28 46.50 -0.4
 KCT 1.30 25 iPn 28 47.40 0.3
 BNT 1.30 9 iPn 28 47.40 0.3
 S.D. = 0.4 on 6 of 6 obs.

FEB 04, 1993 14h 43m 12.95±0.34s
 42.964 N ± 3.7km 144.179 E ± 3.4km
 DEPTH = 99.4 ± 3.3 km
 4.9mb (69 obs.)
 HOKKAIDO, JAPAN REGION (224)

KUSJ 0.41 71 iPd 43 29.10 0.9
 S 43 39.80
 HOOJ 0.88 229 iP+ 43 33.70 1.5
 S 43 48.20
 ASAJ 1.61 316 iP+ 43 42.90 2.0
 S 44 04.00
 SHO 2.11 64 iPnd 43 47.50 0.0
 iS 44 11.70
 MRRJ 2.35 258 iPd 43 51.80 1.1
 S 44 20.90
 KUR 3.49 48 iPnd 44 07.00 0.8
 iS 44 48.00
 AOMJ 3.72 231 P 44 09.30 0.0
 S 44 51.50
 YSS 4.18 346 iPnc+ 44 15.00 -0.6
 eS 45 00.70
 OFUJ 4.32 207 P 44 16.20 -1.4
 S 45 03.00
 YAMJ 5.73 215 P 44 36.40 -0.7
 S 45 41.10
 NIJ 6.96 216 P 44 53.10 -0.8
 S 46 08.80
 KAKJ 7.42 206 P 44 57.10 -3.2X
 eS 46 14.90
 MAT 7.89 218 iPd 45 05.60 -1.1
 0.9s 50.42nm 5.1mb X
 eS 46 32.00
 CHJJ 7.98 212 P 45 06.30 -1.6
 S 46 31.90
 MTMJ 8.04 220 P 45 08.50 -0.3
 IIDJ 8.91 215 eP 45 21.00 0.3
 VLA 9.00 275 ePn 45 23.00 1.2
 TSRJ 9.76 223 P 45 31.90 -0.2
 OKH 10.63 356 ePn 45 42.00 -1.6
 MDJ 10.68 284 eP 45 44.60 0.3
 SKR 11.22 43 ePn 45 49.00 -2.5
 TKSJ 11.97 225 P 45 59.80 -1.6

SHNJ 13.50 233 P 46 21.40 0.0
 CN2 13.65 280 Pc 46 23.00 -0.4
 0.8s 21.00nm 4.6mb
 Z 14s 0.41um 4.6MsZ X

KUMJ 14.81 230 P 46 43.50 5.1X
 KAGJ 15.81 226 P 46 54.80 3.8X
 DL2 17.50 264 eP 47 12.00 0.1
 MGD 17.63 11 eP 47 09.00 -4.3X
 0.7s 100.00nm 5.2mb
 SEY 20.54 11 iPc 47 42.20 -2.9
 1.1s 130.00nm 5.2mb
 YAK 20.92 341 eP 47 44.90 -4.0X
 0.8s 141.00nm 5.3mb
 eS 51 27.00
 BJI 21.14 272 eP 47 50.50 -0.8
 1.0s 22.00nm 4.4mb
 eS 51 40.00
 SSE 21.77 245 Pd 47 58.00 0.4
 0.8s 10.00nm 4.2mb
 TIA 21.86 261 P 47 57.30 -1.2
 CIT 22.41 304 eP 48 04.00 0.1
 NJ2 22.77 250 Pc 48 07.70 0.3
 BOD 23.97 319 eP 48 15.80 -3.0X
 0.6s 12.00nm 4.5mb
 HHC 24.29 276 Pc 48 22.00 -0.2
 1.0s 28.00nm 4.6mb
 TIY 24.67 269 eP 48 27.00 1.2
 BTO 25.48 276 P 48 35.00 1.6
 WHN 26.77 252 P 48 46.00 0.9
 IRK 28.12 303 ePd 48 56.30 -0.9
 ZAK 28.73 299 iPc 49 02.70 0.1
 1.4s 83.00nm 5.2mb
 e 49 22.80
 XAN 28.82 264 P 49 03.50 -0.2
 TIK 29.72 350 iPd 49 06.00 -5.2X
 1.2s 10.00nm 4.4mb
 e 50 10.00
 MOY 30.16 302 ePc 49 15.00 -0.3
 1.2s 68.00nm 5.3mb
 LZH 31.63 271 eP 49 31.00 2.4
 1.5s 32.00nm 4.8mb
 ILT 31.78 26 iPd 49 27.00 -2.3
 1.2s 55.00nm 5.2mb
 GTA 33.28 279 eP 49 42.50 -0.4
 1.0s 6.00nm 4.4mb
 pP 50 03.00 88kmX
 CD2 34.16 263 P 49 50.60 0.2
 0.7s 20.00nm 5.1mb
 Z 18s 0.92um 4.6MsZ
 E 15s 1.85um
 GYA 34.62 254 P 49 54.40 -0.1
 1.0s 9.60nm 4.6mb
 PLP 35.81 213 ePc 50 06.00 1.5
 KMI 38.23 256 Pd 50 25.50 0.5
 0.8s 50.00nm 5.5mb
 ELT 39.00 306 iPd 50 30.20 -0.6
 1.2s 117.00nm 5.6mb
 eS 56 21.00
 TTA 39.40 39 eP 50 33.90 -0.2
 SVW 39.58 41 eP 50 37.20 1.6
 0.9s 42.30nm 5.3mb
 BRW 40.14 25 eP 50 39.10 -0.9
 WMQ 40.36 291 eP 50 42.50 0.2
 1.0s 20.00nm 4.9mb
 Z 16s 1.30um 4.9MsZ X
 IMA 40.54 34 iPc 50 44.10 0.6
 0.5s 19.60nm 5.2mb
 PMR 42.67 40 eP 51 01.60 0.8
 FBA 43.00 35 ePc 51 04.50 1.0
 0.8s 115.60nm 5.8mb
 e 51 27.00
 TOA 44.00 39 ePc 51 12.90 1.2
 CHG 44.98 252 ePd 51 20.50 0.6
 0.9s 15.13nm 4.8mb
 BRVK 48.37 309 iPc 51 45.80 -0.3
 1.0s 38.00nm 5.2mb
 eS 58 37.00
 NNT 48.80 245 eP 51 48.30 -1.5
 e 02 15.30
 GUN 48.89 272 P 51 50.80 -0.1
 0.4s 14.00nm 5.2mb
 KKN 49.39 272 P 51 54.20 -0.4
 0.6s 11.00nm 5.0mb
 PKI 49.42 272 P 51 55.40 0.4
 0.6s 12.00nm 5.0mb
 DMN 49.62 272 P 51 56.20 -0.2

GKN	49.74 273 P	51 57.00 -0.2	VBY	80.88 326 eP	55 21.10 -0.1	PHILIPPINE ISLANDS REGION	4.9mb (24 obs.)	4.4Msz (5 obs.)	(248)	
ARU	53.42 316 iPc	52 23.00 -1.2	MOTA	80.97 330 iPd	55 18.00 0.3	PLP	1.79 310 ePc	57 12.00 -1.1		
YKA	57.65 33 eP	52 52.90 -1.6	VAY	80.97 319 eP	55 18.00 0.4	CGP	2.26 227 eP	57 28.00 8.2X		
KEV	58.67 339 iP	53 05.20 3.6X	SKO	81.00 321 iP	55 18.00 0.2	TCY	6.69 308 iPd	58 49.00 26.6X		
SDF	60.38 337 iP	53 12.20 -1.1	SQTA	81.04 330 iPd	55 18.40 0.4	QCP	6.92 312 eP	58 12.00 -13.6X		
WB2	63.24 190 iPc	53 31.80 -1.1	ETA	81.35 342 eP	55 20.40 1.1	BAG	8.50 319 eP	58 47.40 -0.3		
GBA	63.86 264 P	53 38.00 0.9	CDF	81.42 333 iPc	55 19.70 -0.2	CVP	8.83 331 eP	58 53.80 1.7		
KAF	64.03 332 iP	53 35.90 -1.7	ECB	81.79 342 eP	55 22.10 0.5	TNE	9.20 174 eP	59 02.00 4.8X		
NEW	64.47 47 eP	53 41.00 0.2	CTI	81.85 329 P	55 21.20 -1.0	KKM	10.80 249 ePd	59 21.00 1.8		
OBN	64.64 323 iPc	53 40.50 -1.2	ECP	81.87 342 eP	55 22.40 0.4	QZH	16.59 335 eP	00 34.00 -1.1		
NUR	65.73 332 iP	53 47.00 -1.5	HAU	82.08 333 eP	55 22.80 -0.5	Z 18s	1.81um	4.4MszX		
ASPA	66.97 190 iPd	53 56.80 -0.1	BSF	82.08 333 eP	55 22.70 -0.7	GZH	18.01 318 P	00 54.00 1.3		
ORV	67.17 57 eP	53 57.50 -0.6	EEO	82.89 28 eP	55 30.00 2.5	Z 20s	1.87um	4.3Msz		
FCC	67.77 29 eP	54 03.50 2.0	VAI	83.08 330 P	55 28.20 -0.2	QIZ	18.32 301 eP	01 01.50 4.8X		
KIV	68.65 311 P	54 08.30 0.9	FLN	83.52 337 eP	55 30.70 0.1	N 17s	1.05um			
LCCM	68.78 47 eP	54 08.00 -0.2	LOR	83.54 334 iPc	55 30.50 -0.3	E 18s	1.78um			
NB2	69.53 338 P	54 10.80 -1.6	LDF	83.57 337 eP	55 30.30 -0.6	PJG	18.45 77 eP	00 57.30 -1.0		
HFS	69.55 336 eP	54 10.90 -1.5	LBF	83.75 334 iPc	55 31.60 -0.3	GUA	18.49 77 eP	00 57.30 -1.4		
WARB	70.67 197 eP	54 20.40 0.8	BOB	83.77 329 P	55 32.00 -0.1	SSE	21.53 348 Pd	01 32.80 1.5		
TNP	70.70 56 eP	54 20.79 0.7	MME	83.78 328 P	55 33.00 0.7	NJ2	23.01 344 Pd	01 47.60 1.7		
BW06	72.05 48 iPc	54 27.68 -0.5	GRR	83.96 337 eP	55 32.60 -0.3	Z 18s	0.65um	4.2mb		
DAU	72.69 51 eP	54 32.00 0.0	SMF	84.10 334 eP	55 33.60 0.0	MTN	23.19 168 eP	02 06.00 4.1Msz		
EMUT	73.34 51 eP	54 36.36 0.6	LPL	84.11 331 eP	55 34.30 0.3	GVA	24.80 314 P	02 04.00 0.6		
ULM	73.42 35 eP	54 37.50 1.9	LPG	84.12 331 eP	55 34.40 0.3	Z 24s	1.97um	4.4mb		
SRU	73.98 51 eP	54 39.76 0.4	LPF	84.34 337 eP	55 35.00 0.3	N 16s	1.59um	4.5MszX		
RSSD	74.04 44 iPd	54 39.08 -0.6	MAF	84.88 334 iPc	55 38.10 0.6	E 16s	0.76um			
PV09	75.19 51 eP	54 46.95 0.5	TCF	84.93 335 eP	55 38.20 0.4	LOE	25.02 290 eP	02 04.90 -0.6		
OJC	75.28 327 eP	54 46.30 -0.1	LSF	85.18 335 eP	55 39.10 0.1	IPM	25.70 260 ePd	02 13.60 1.7		
PV10	75.33 51 iPc	54 47.61 0.4	MFF	85.37 336 eP	55 40.40 0.4	NST	26.18 285 eP	02 17.00 0.8		
PV08	75.42 51 eP	54 47.88 0.1	RJF	86.03 335 eP	55 43.80 0.5	CHG	27.93 291 eP	02 31.00 -1.3		
SPC	75.90 326 eP	54 51.00 0.9	CAF	86.20 334 iPc	55 45.10 1.0	XAN	28.78 329 Pc	02 38.20 -1.6		
KPL	76.91 344 eP	54 55.30 0.0	LFF	86.60 335 eP	55 47.10 1.1	CD2	29.57 318 eP	02 42.80 -4.1X		
CLL	76.98 331 iPc	54 55.10 -0.7	LPO	86.69 335 iPc	55 46.50 0.0	TIY	30.31 338 eP	02 52.80 -0.6		
KSB	76.99 344 eP	54 55.50 -0.2	LMN	87.89 20 eP	55 55.50 3.2X	Z 16s	1.19um	4.6MszX		
BRG	77.00 330 eP	54 55.80 -0.2	SIV	145.54 46 PKP	02 46.00 4.8X	N 16s	1.09um			
PRU	77.50 329 ePc	54 59.00 0.3	S.D. = 0.9 on 142 of 153 obs.					WB2	30.78 165 eP	02 57.70 0.0
ZST	77.96 327 eP	55 01.70 0.4	% FEB 04, 1993 14h 48m 30.64± 0.60s					1.1s	6.80nm	4.3mb
MOX	78.02 331 e(P)	55 01.70 0.1	43.809 N ± 7.3km 11.906 E ± 4.9km					BJI	31.25 345 eP	03 02.00 0.4
EKA	78.22 342 Pd	55 02.80 0.2	DEPTH = 10.0km (geophysicist)					1.0s	13.00nm	4.6mb
KHC	78.57 329 Pc	55 05.00 0.3	CENTRAL ITALY (381)					Z 20s	0.60um	4.3Msz
WPM	78.79 34 eP	55 14.50 8.7X	MD 2.4 (FIR).					E 15s	0.60um	
GRF	78.96 331 iPKPc	55 07.40 0.6	SFI	0.12 341 Pd	48 33.90 0.3	HHC	33.39 339 Pd	03 21.40 0.9		
WME	80.27 341 eP	55 13.70 0.1	PGD	0.15 296 Pd	48 36.70 1.0	Z 18s	1.4s 331.00nm	03 23.00 5.0mb		
KBA	80.35 328 iPd	55 15.20 0.7	CRE	0.18 170 P	48 38.20 1.1	BTO	33.74 337 eP	03 23.00 -0.4		
YRC	80.46 342 eP	55 12.70 -2.0	RSM	0.41 73 P	48 35.90 0.5	ASPA	34.27 168 iPc	03 27.70 -0.4		
YLL	80.47 341 eP	55 14.90 0.2	FIR	0.47 266 ePg	48 40.50 -0.5		0.9s 13.10nm	4.9mb		
RBL	80.79 328 P	55 15.80 -0.8	ARV	0.81 112 P	48 43.70 -2.2	CTA	35.74 147 iPc	04 43.80 0.3		
WATA	80.80 330 iPd	55 17.20 0.4	ASS	0.92 143 P	48 49.00 -0.3	WARB	35.97 180 eP	03 42.30 -0.2		
WTTA	80.84 329 iPd	55 17.50 0.5	MME	0.95 294 P	48 48.00 0.1	MEEK	37.20 192 eP	03 52.00 -0.8		
	0.6s 15.30nm	5.0mb	BDI	0.98 285 P	48 49.00 0.5	GTA	37.65 325 P	03 56.00 -0.7		
			PII	1.01 265 P	48 50.00 0.3	Z 17s	1.0s 8.00nm	4.6mb		
			S.D. = 1.1 on 10 of 10 obs.						1.71um	4.9MszX
			FEB 04, 1993 14h 56m 44.18± 1.11s					MRWA	40.26 194 eP	04 03.50 25kmX
			10.007 N ± 4.4km 126.367 E ± 6.0km					COOL	40.96 187 eP	04 18.00 -0.3
			DEPTH = 47.4 ± 11.0 km					BAL	41.43 193 eP	04 22.00 -2.1
							GUN	41.98 301 P	04 28.00 0.1	
							KLB	42.18 191 eP	04 32.60 -0.4	
							PKI	42.28 300 P	04 34.00 0.0	
							DMN	42.55 300 P	04 36.40 -1.0	
							MUN	42.86 193 eP	04 36.60 -0.9	
								0.9s 40.00nm	5.1mb	
							GKN	43.06 300 P	04 40.20 -1.4	
							STK	44.13 161 eP	04 49.30 -0.5	

04d 15h

BRS 0.4s 4.90nm 4.6mb
 45.14 146 iPc 04 58.70 0.6
 RKG 45.21 191 eP 04 59.00 0.5
 IRK 45.80 341 ePc 05 03.00 0.0
 2.3s 28.00nm
 Z 14s 0.41um 4.5mszX
 N 15s 0.41um

e 05 27.00
 e 06 20.00
 e 21 18.00
 LR 26 14.00
 ADE 46.23 166 e(P) 05 07.00 0.4
 HYB 46.93 284 ePc 05 11.60 -0.8
 WMQ 47.49 322 P 05 16.00 -0.5
 GBA 47.97 279 Pd 05 20.00 -0.6
 BWA 48.89 156 eP 05 28.80 1.4
 BFD 49.33 163 eP 05 30.60 -0.1
 1.0s 22.00nm 5.1mb

CAN 49.90 156 e(P) 05 35.50 0.3
 CNB 50.05 155 eP 05 37.90 1.6
 1.0s 26.00nm 5.2mb

TOO 50.61 160 eP 05 41.30 0.8
 1.1s 37.00nm 5.3mb

DZM 50.61 129 iPc 05 42.00 1.2
 YAK 51.97 2 eP 05 51.20 0.8
 1.9s 39.00nm 5.1mb

CSY 76.98 187 eP 08 34.80 1.7
 0.5s 5.00nm 4.8mb

KAF 85.90 332 eP 09 19.80 -0.3
 0.6s 5.40nm 4.9mb

NUR 87.07 331 eP 09 25.40 -0.4
 0.9s 14.70nm 5.2mb

NB2 93.03 334 P 09 53.60 -0.2
 0.6s 1.70nm 4.7mb

YKA 93.96 24 eP 10 01.50 3.5X
 0.8s 4.00nm 4.9mb

ZOBO 164.57 115 ePKP 16 50.00 4.7X
 S.D. = 1.1 on 57 of 65 obs.

FEB 04, 1993 15h 20m 26.10 ± 1.19s
 12.495 N ± 6.5km 142.033 E ± 8.6km
 DEPTH = 67.0 ± 13.0 km
 4.9mb (17 obs.)

SOUTH OF MARIANA ISLANDS (210)

GUMO 2.97 68 eP 21 11.90 0.1
 eS 21 49.00 0.4

PJG 2.97 68 eP 21 12.20 0.4
 TT 23 43.50 0.5

GUA 2.99 69 eP 21 11.70 -0.5
 MAT 24.19 352 eP 25 42.00 4.5X

0.9s 7.56nm 4.2mb
 WB2 33.11 193 eP 26 56.90 -1.1
 1.0s 7.40nm 4.5mb

BJI 35.66 325 eP 27 20.00 0.3
 1.4s 24.00nm 4.9mb

Z 20s 0.54um 4.3mszX
 GYA 35.98 298 P 27 24.00 1.3
 1.0s 9.60nm 4.7mb

TIY 36.45 319 eP 27 26.40 0.0
 N 15s 0.69um
 E 16s 0.95um

ASPA 36.81 193 eP 27 30.40 0.9
 1.4s 5.10nm 4.3mb

KMI 39.11 294 eP 27 50.00 0.9
 1.5s 40.00nm 5.1mb

BTO 39.66 321 eP 27 53.50 0.2
 CD2 39.75 304 eP 27 52.30 -1.8

BRS 41.00 165 iPc 28 04.50 0.2
 LZH 41.60 311 eP 28 09.80 0.5

1.5s 27.00nm 4.8mb
 Z 25s 0.54um 4.3mszX

CHG 41.88 284 eP 28 12.10 0.4
 CIT 45.58 336 eP 28 42.00 0.9

GTA 45.87 314 eP 28 43.50 -0.3
 1.0s 11.00nm 4.7mb

ZAK 49.25 328 eP 29 10.40 0.7
 1.3s 24.00nm 5.1mb

BOD 49.96 341 eP 29 14.80 -0.3
 0.8s 6.00nm 4.7mb

YAK 50.24 352 eP 29 16.40 -0.7
 0.9s 46.00nm 5.5mb

GUN 54.45 295 P 29 49.20 -0.4
 PKI 54.84 295 P 29 51.60 -0.8

KKK 54.97 295 P 29 52.20 -1.0
 1.0s 27.00nm 5.2mb

DMN 55.11 295 P 29 53.50 -0.8
 GKN 55.55 295 P 29 56.70 -0.6
 1.2s 55.00nm 5.5mb
 WMQ 55.91 315 P 30 00.00 0.4
 TIK 59.65 355 eP 30 25.00 -0.2
 1.0s 9.00nm 4.9mb

ILT 60.98 16 eP 30 34.00 -0.4
 BRVK 69.15 322 eP 31 28.00 0.7
 0.9s 18.00nm 5.0mb

MAIO 76.75 305 eP 32 13.00 0.6
 YKA 85.09 27 eP 32 55.40 -0.2
 1.0s 2.60nm 4.2mb

GRS 86.49 310 eP 33 03.00 -0.3
 1.5s 30.00nm 5.2mb

BCAO 121.39 283 ePKPc 39 15.00 0.7
 0.5s 5.00nm

ZOBO 150.56 101 PKP 40 15.10 7.2X
 0.9s 9.08nm

LPB 150.57 101 ePKP 40 15.00 7.4X
 S.D. = 0.7 on 32 of 35 obs.

FEB 04, 1993 15h 31m 04.16 ± 1.29s
 12.401 N ± 7.9km 142.090 E ± 8.9km
 DEPTH = 76.0 ± 13.8 km
 4.8mb (14 obs.)

SOUTH OF MARIANA ISLANDS (210)

GUMO 2.95 66 eP 31 50.10 0.4
 eS 32 26.20 0.1

PJG 2.95 66 eP 31 49.60 -0.1
 TT 34 20.80 -0.5

GUA 2.97 67 eP 31 49.50 -0.5
 MAT 24.29 352 eP 36 20.00 4.3X

0.4s 7.80nm 4.9mb
 WB2 33.03 193 iPc 37 34.20 -0.2
 0.4s 7.80nm 4.9mb

WRA 33.03 193 P 37 34.50 0.0
 BJI 35.77 325 eP 37 58.00 0.3
 1.0s 11.00nm 4.7mb

Z 25s 0.84um 4.4mszX
 GYA 36.08 298 P 38 03.20 2.5
 1.0s 9.60nm 4.7mb

TIY 36.55 319 eP 38 03.60 -0.8
 ASPA 36.73 193 iPc 38 07.10 1.1
 1.1s 7.70nm 4.5mb

XAN 37.06 311 P 38 09.60 0.9
 0.6s 3.60nm 4.5mb

KMI 39.20 295 P 38 29.00 2.0
 1.5s 40.00nm 5.1mb

BTO 39.76 321 eP 38 31.50 0.2
 CD2 39.85 304 eP 38 33.20 1.2

BRS 40.89 165 eP 38 40.00 -0.5
 LZH 41.70 311 eP 38 47.50 0.2

1.4s 16.00nm 4.7mb
 CHG 41.96 284 eP 38 49.30 -0.2
 GTA 45.98 314 eP 39 20.80 -0.9

1.5s 17.00nm 4.7mb
 IRK 50.00 331 ePd 39 56.00 3.4X
 1.6s 13.00nm 4.7mb

e 40 04.00
 e 40 20.00

YAK 50.34 352 eP 39 53.10 -1.9
 1.0s 25.00nm 5.2mb

GUN 54.54 295 P 40 26.00 -1.3
 PKI 54.93 295 P 40 29.00 -1.1

KKK 55.06 295 P 40 29.90 -1.0
 DMN 55.20 295 P 40 31.00 -1.0

GKN 55.64 295 P 40 34.00 -1.0
 0.9s 21.00nm 5.2mb

WMQ 56.02 315 P 40 38.00 0.6
 1.0s 18.00nm 5.1mb

HYB 61.37 283 eP 41 13.90 -1.0
 SVW 65.97 28 eP 41 43.90 -0.4
 0.8s 20.60nm 5.1mb

IMA 68.40 23 eP 42 01.40 1.7
 PMS 68.83 29 eP 42 02.60 0.3

BRW 69.27 18 eP 42 06.10 1.4
 FBA 70.44 25 eP 42 11.40 -0.6

MAIO 76.85 305 eP 42 50.00 0.1
 YKA 85.15 27 eP 43 32.70 -0.2

0.6s 1.70nm 4.2mb
 ZOBO 150.48 101 PKP 50 52.20 7.5X
 LPB 150.50 102 ePKP 50 54.00 9.6X

S.D. = 1.1 on 32 of 36 obs.

& FEB 04, 1993 16h 24m 40.76s
 62.743 N 149.530 W
 DEPTH = 68.5km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.6 (AEIC).

HUR 0.24 348 iP 24 51.42 -0.2
 eS 24 59.70

RND 0.73 25 eP 24 56.02 -0.2
 S 25 07.62

TRF 0.79 334 iP 24 56.78 -0.2
 eS 25 09.07

GHO 1.01 164 eP 24 59.00 -0.7
 MCK 1.03 15 eP 25 00.43 0.6

SML 1.09 149 eP 24 59.91 -0.8
 PWA 1.11 189 P 25 00.30 -0.5

PLRM 1.17 171 eP 25 00.93 -0.7
 S 25 18.22

SKT 1.21 232 eP 25 02.29 0.1
 S 25 17.52

SCM 1.38 131 eP 25 04.15 -0.3
 SUA 1.41 204 eP 25 04.15 -0.8

KNK 1.43 159 eP 25 05.05 -0.1
 PMS 1.50 181 P 25 05.80 -0.4

TOA 1.69 111 P 25 09.60 0.9
 SDG 1.85 95 eP 25 12.00 1.0

PAX 1.88 81 eP 25 12.08 0.7
 PTE 1.90 173 eP 25 11.56 0.0

CP2 1.96 222 eP 25 12.64 0.0
 SPU 1.97 218 eP 25 11.98 -0.6

CKN 1.97 221 eP 25 12.50 -0.1
 CKT 2.00 220 eP 25 12.69 -0.3

BGL 2.01 224 eP 25 12.56 -0.6
 HDA 2.03 33 eP 25 12.94 -0.4

CKL 2.04 222 eP 25 13.02 -0.6
 CCB 2.06 21 eP 25 13.03 -0.7

KLU 2.11 125 eP 25 13.95 -0.6
 GLI 2.20 147 eP 25 14.49 -1.2

VLZ 2.21 136 eP 25 15.44 -0.4
 MPA 2.26 178 eP 25 16.82 0.2

SLKM 2.27 189 eP 25 17.07 0.4
 FBA 2.30 19 P 25 15.80 -1.3

FID 2.47 143 eP 25 18.15 -1.4
 KNIM 2.55 160 eP 25 20.50 -0.1

SEW 2.65 179 eP 25 22.96 1.0
 CVA 2.85 139 eP 25 26.12 1.4

GLB 2.99 113 eP 25 26.08 -0.7
 PDB 3.72 219 P 25 32.90 -4.1

37 obs. associated

FEB 04, 1993 16h 28m 32.36 ± 0.17s
 12.495 N ± 3.5km 141.923 E ± 3.5km
 DEPTH = 27.4km (9 depth phases)
 5.7mb (73 obs.) 5.2msz (30 obs.)

SOUTH OF MARIANA ISLANDS (210)

Mw 5.5 (HRV).
 CENTROID, MOMENT TENSOR (HRV)

Origin Time: 16:28:33.5 ± 0.4
 Lot 12.47N 0.03 Lon 142.04E 0.04

Dep 15.0 BDY Half-duration 1.5
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-1.88 0.07 Mtt= 1.96 0.07

Mff=-0.09 0.08 Mrt= 0.31 0.25
 Mrr= 0.75 0.19 Mtf= 0.55 0.05

Principal Axes:
 T Vol= 2.16 Plg= 7 Azm=344

N -0.01 18 252
 P -2.15 70 95

Best Double Couple: Mo=2.2×10¹⁷
 NP1: Strike= 94 Dip=41 Slip= -62
 NP2: 238 55 -112

GUMO 3.07 69 Pn 29 20.80 0.7
 eS 29 58.00

PJG 3.07 69 Pn 29 21.00 0.9
 Pg 29 22.30

GUA 3.09 70 eP 29 21.20 0.7
 WWKK 16.10 174 eP 32 21.90 3.3X

PLP 16.64 267 ePd 32 31.00 5.6X
 DAV 16.98 253 eP 32 32.10 2.5

CGP 17.41 258 iPd 32 34.50 -0.5
 RAB 19.45 148 eP 33 01.00 1.0

LAT 19.69 165 eP 33 03.00 0.3

CVP	20.08	287	eP	33	09.00	2.3
TGY	20.49	277	iPd	33	09.00	-2.1
BAG	21.03	283	eP	33	18.00	1.3
	1.8s	890.91nm			5.9mb	
		eS		37	15.00	
KAGJ	21.21	333	P	33	20.40	2.2
PIP	21.33	288	ePd	33	23.00	3.4X
PMG	22.37	166	eP	33	29.00	-1.0
WKYJ	22.38	346	eP	33	29.90	-0.1
KUMJ	22.39	335	P	33	31.50	1.4
TKSJ	22.56	343	eP	33	32.20	0.5
SHK	23.49	341	eP	33	41.50	0.7
CHJJ	23.60	354	P	33	40.90	-0.9
KAKJ	23.66	356	P	33	41.40	-1.0
SHNJ	23.68	337	P	33	43.30	0.7
MAT	24.18	353	eP	33	47.00	-0.5
	1.5s	111.11nm			5.2mb	
Z	20s	7.45um			5.2Msz	
		eS		38	03.00	
NIIJ	24.78	354	P	33	53.00	-0.3
OZH	25.28	303	eP	33	58.50	0.4
Z	17s	3.35um			4.9MszX	
		eS		38	24.00	
YAMJ	25.63	357	P	34	02.30	1.0
OFUJ	26.48	360	P	34	08.10	-1.0
SSE	26.62	317	Pc	34	10.80	0.3
	1.4s	36.00nm			4.8mb	
Z	20s	4.80um			5.0Msz	
N	10s	0.90um				
E	10s	1.20um				
HKC	28.17	294	eP	34	26.00	1.3
NJ2	28.77	316	eP	34	30.80	0.8
Z	22s	2.74um			4.8Msz	
E	12s	1.60um				
GZH	29.12	295	P	34	34.00	0.7
	1.1s	28.00nm			4.9mb	
Z	18s	1.21um			4.6Msz	
N	11s	0.98um				
		S		39	22.00	
WHN	31.18	310	eP	34	51.50	0.1
Z	22s	5.16um			5.1Msz	
E	10s	2.04um				
		S		40	00.00	
QIZ	31.51	286	eP	34	56.00	1.5
N	13s	1.50um				
VLA	31.73	346	eP	35	04.00	7.9X
	2.0s	91.00nm			5.3mb	
N	15s	2.50um				
		i		35	58.00	273kmX
		iS		40	12.00	
		i		42	18.00	
DL2	31.88	329	eP	34	58.00	0.5
Z	26s	3.04um			4.9MszX	
N	12s	1.53um				
E	11s	0.91um				
		eS		40	08.00	
TIA	32.50	321	eP	35	02.00	-0.9
Z	24s	4.19um			5.1MszX	
N	11s	1.13um				
E	11s	1.96um				
		pP		35	15.00	51kmX
		eS		40	20.00	
CTA	32.66	172	iPc+	35	05.00	0.6
	1.0s	20.00nm			5.0mb	
		eS		40	18.00	
WB2	33.08	193	eP	35	04.80	-3.4X
	0.7s	27.90nm			5.3mb	
		i		35	08.20	12kmX
SNY	33.32	335	Pc	35	10.00	0.0
Z	20s	6.08um			5.3Msz	
N	14s	0.19um				
E	13s	1.71um				
		pP		35	16.00	21km
		PP		36	18.00	
		S		40	25.00	
MDJ	33.71	344	eP	35	13.80	0.4
Z	30s	6.84um			5.2MszX	
		S		40	34.00	
CN2	34.27	339	eP	35	18.00	-0.2
	1.0s	9.30nm			4.7mb	</

NDI	1.6s	233.30nm			6.1mb	GRS	86.41	310 eP	41 13.00	-1.1	RTRS	146.05	126 e(PKP)	48 06.00	-5.1X
	62.01	296 iPd	38 57.50	4.6X			1.4s	140.00nm		6.0mb	MBO	146.07	321 iPKPc	48 13.90	2.4X
PRZ	1.6s	366.67nm			6.3mb	LBFM	86.43	49 eP	41 14.55	0.4	RTLL	146.32	129 ePKP	48 11.22	-0.4
	62.18	312 iPd-	38 56.00	2.0				e	41 41.90	104kmX	TCA	149.21	132 ePKPc	48 16.50	0.3
	1.4s	310.00nm			6.2mb	ORV	87.14	50 eP	41 17.17	-0.2	FSA	150.45	121 e(PKP)	48 20.50	2.4X
GBA	62.66	279 Pd	38 56.00	-1.3		DPW	87.35	42 eP	41 17.74	-0.6	ZOBO	150.66	101 iPKPc	48 20.70	1.2
KSH	63.62	308 P	39 05.00	1.5		PYA	87.69	315 iPc	41 19.00	-0.9		1.1s	65.55nm		
	1.5s	200.00nm			6.0mb	NEW	87.94	41 eP	41 22.03	0.9	LPB	150.68	102 ePKP	48 21.00	1.8
Z	16s	1.40um			5.2MsZ		0.8s	18.30nm		5.4mb	YJA	152.15	114 ePKPd	48 22.50	1.1
E	14s	5.50um				KIV	87.97	314 ePc	41 20.50	-0.9	SIV	157.45	102 ePKP	48 33.00	4.9X
		pP	39 15.00	32km			1.7s	57.00nm		5.6mb		i	49 04.60		
		sP	39 18.00			Z	19s	0.80um		5.2MsZ					
		PcP	39 44.00					e	52 07.80						
		PcS	43 43.00			CMB	88.36	52 P	41 30.00	6.7X					
		S	47 36.00			Z	18s	0.67um		5.1MsZ					
		sS	47 52.00			OBN	88.42	326 iPd	41 22.00	-1.2					
		ScS	48 53.00				1.3s	104.00nm		6.0mb					
		SS	51 46.00			Z	18s	1.80um		5.5MsZ					
FRU	64.99	312 iPc	39 13.00	0.7		N	16s	1.80um							
	2.0s	200.00nm			5.9mb	E	18s	1.30um							
		e	39 19.00	19km				(S)	52 10.00						
POO	65.55	285 iPd	39 13.50	-2.7				e	53 20.00						
	1.2s	75.00nm			5.7mb	BCH	89.31	54 eP	41 28.63	0.6					
SVW	65.97	28 eP	39 16.90	-1.3		PUL	89.80	332 (P)	41 30.00	0.4					
	0.9s	96.30nm			5.9mb		1.6s	120.00nm		5.9mb					
NR1	66.10	342 iPd	39 16.70	-2.2		KVN	89.82	50 eP	41 30.37	-0.1					
	2.2s	210.00nm			5.9mb	BONR	89.97	51 eP	41 31.17	-0.1					
		e	39 47.00	123kmX		ISA	90.45	53 P	41 40.00	6.7X					
		e	41 43.00			Z	19s	0.88um		5.2MsZ					
		ePPP	43 17.00			KAF	90.51	335 eP	41 29.10	-3.8X					
		(SS)	52 24.00				1.0s	41.30nm		5.7mb					
IMA	68.38	23 eP	39 31.70	-1.8		TNP	90.75	51 eP	41 34.63	-0.2					
	1.4s	83.40nm			5.7mb		1.0s	15.59nm		5.3mb					
BRVK	69.08	322 eP	39 36.00	-1.9		SES	91.03	38 ePc	41 36.00	0.4					
	1.5s	380.00nm			6.3mb	TPNV	91.82	52 eP	41 38.63						

[illegible]

04d 19h

MAK	22.07	329	eSS	51 07.00		NAI	36.26	228	iPd	48 35.50	-0.3	SFI	45.38	308	P	49 52.10	1.8
	1.0s		330.00nm	5.7mb		Z	18s		0.34um		4.2Msz	BRG	45.40	318	iP	49 51.40	1.0
Z	15s		4.00um	5.0MszX		N	16s		2.18um		-0.4				i	49 58.60	24km
N	15s		0.90um			LZH	36.79	63	Pd	48 41.80	1.7	PGD	45.46	308	P	49 53.20	1.9
E	15s		2.50um				1.5s		30.00nm		4.9mb	WHN	45.61	71	Pc	49 53.00	0.7
			(S)	50 27.00		Z	18s		1.28um		4.8Msz		Z	20s		1.24um	4.8Msz
MTA	22.47	323	iPd	46 32.00	1.2	N	14s		1.46um				N	20s		1.92um	
	0.8s		80.00nm	5.2mb					pP	48 48.50	23km	WET	45.62	315	eP	49 52.90	0.6
			i	46 42.40	40kmX				sP	48 52.50		CTI	45.83	311	P	49 53.80	-0.2
GRO	23.17	327	iPd	46 39.00	1.4	NNT	36.89	103	eP	48 39.00	-1.8	AVY	45.99	200	iPc	49 56.40	0.8
	1.5s		400.00nm	5.7mb		LOE	36.92	94	eP	48 41.80	0.7	WTTA	46.05	312	iPc	49 54.90	-0.9
Z	14s		3.00um	4.9MszX		VAY	37.13	306	iP	48 43.50	0.9		1.1s		75.40nm	5.5mb	
N	14s		2.50um			SKO	38.11	307	iP	48 51.00	0.2	CLL	46.09	318	eP	50 03.50	29km
E	14s		2.50um			Z	15s		1.02um		4.8MszX		1.2s		92.00nm	5.6mb	
			eS	50 50.00					LR	12 35.00					i	50 04.30	28km
PYA	24.99	325	iPc	46 57.00	1.6	OHR	38.39	305	iP	48 53.50	0.2	WATA	46.10	313	iPc	49 55.70	-0.5
Z	16s		1.00um	4.4MszX			0.8s		72.00nm		5.5mb				i	50 03.80	27km
			i	47 04.00	25km	GYA	39.37	78	iPc	49 01.00	-0.7	VTY	46.19	200	iPc	49 58.00	0.9
HMDT	25.05	293	eP	46 58.00	2.0		1.0s		14.00nm		4.6mb	MME	46.23	308	P	49 57.90	0.5
GAZ	25.06	305	iP	46 57.20	1.2	MOY	39.42	37	eP	49 03.40	1.8	BDI	46.29	308	P	49 57.10	-0.6
KIV	25.14	324	iPc	46 59.20	2.4	UZH	39.55	317	eP	49 04.20	1.5	SOTA	46.33	312	iPc	49 57.50	-0.5
	1.0s		280.00nm	5.8mb		ZAK	40.16	40	eP	49 09.30	1.6		1.0s		29.30nm	5.2mb	
Z	13s		0.50um	4.2MszX			2.3s		70.00nm		5.0mb	OCA	46.39	312	eP	49 58.60	0.0
			e	47 07.60	30km				e	50 48.00	556kmX	MOA	46.42	313	iPd	49 57.70	-1.0
			S	51 25.00					e	51 11.30			1.0s		32.10nm	5.2mb	
MBH	25.29	287	eP	47 00.30	1.9	XAN	40.84	66	P	49 14.00	0.3				i	50 04.80	24km
LSA	25.56	73	iPc	47 01.40	0.0		1.0s		14.00nm		4.6mb	FUR	46.46	314	eP	49 58.90	0.1
	1.4s		10.00nm	4.3mb		Z	22s		1.26um		4.7Msz		1.0s		39.00nm	5.3mb	
Z	26s		3.61um	4.8MszX					pP	49 25.00	39kmX	MOX	46.77	317	eP	50 02.30	1.0
N	17s		3.86um			ORI	41.49	303	P	49 20.60	1.7		1.3s		22.00nm	5.0mb	
			S	51 20.00		IRK	41.53	38	eP	49 19.10	0.1	Z	19s		0.60um	4.6Msz	
RMN	25.57	289	eP	47 03.60	2.6		1.7s		20.00nm		4.6mb	BJI	46.78	58	eP	50 03.50	2.1
SOC	26.55	320	eP	47 11.00	1.1	Z	16s		1.15um		4.8MszX		1.0s		11.00nm	4.8mb	
Z	15s		2.00um	4.8MszX		E	16s		0.94um			GRF	46.80	316	eP	50 01.90	0.4
N	14s		1.00um						e	49 26.30	24km		1.3s		73.00nm	5.5mb	
E	14s		1.00um						e	49 33.00		Z	16s		0.70um	4.7MszX	
BNN	26.68	308	iP	47 16.00	4.7X	TDS	41.53	302	P	49 21.00	1.8				e(pP)	50 10.40	28km
WMO	27.69	41	Pc	47 21.00	0.6	OJC	41.65	319	eP	49 20.90	0.9	CIT	46.81	41	eP	49 59.00	-2.6
	1.0s		28.00nm	4.9mb					e	49 28.70	26km	OSS	46.96	311	iPd	50 03.00	0.0
Z	20s		2.73um	4.8Msz		IPM	41.85	113	ePc	49 23.00	0.9	NRI	46.97	12	iPc	50 02.00	-0.5
N	14s		1.97um			BTO	42.13	56	eP	49 27.00	2.8		1.0s		15.00nm	5.0mb	
			pP	47 29.00	28km				2.50um			Z	16s		3.50um	5.4MszX	
BRVK	28.67	9	iPc	47 28.00	-0.9	N	20s		0.63um			N	16s		2.00um		
	1.2s		40.00nm	5.0mb		MGR	42.18	303	P	49 25.40	0.9				e	50 10.00	27km
ARU	31.61	355	eP	47 51.00	-4.1X	SGO	42.42	304	P	49 27.80	1.4				e	52 00.00	
Z	14s		3.50um	5.2MszX		ZST	42.67	315	eP	49 28.80	0.4	BCAO	47.16	252	iPd	50 03.60	-1.2
N	16s		2.50um			VBY	43.25	311	eP	49 33.70	0.5		0.8s		95.00nm	5.9mb	
SVE	31.91	358	ePd	48 05.50	7.8X	HHC	43.33	56	Pc	49 36.00	2.0				ic	51 06.10	300kmX
Z	15s		4.50um	5.3MszX			1.2s		26.00nm		4.9mb	BOB	47.19	309	P	50 05.50	0.7
N	15s		3.00um			Z	26s		1.41um		4.8MszX	VDL	47.39	311	ePd	50 06.30	-0.2
E	15s		1.00um			SDI	43.67	305	P	49 37.10	0.4	TIA	47.53	63	eP	50 07.90	0.4
			e	49 01.70	285kmX	TIY	43.77	61	eP	49 38.80	1.2		Z	20s		0.52um	4.5Msz
ELT	33.33	26	iPc	48 10.00	0.0	Z	20s		1.50um		4.9Msz		N	19s		2.24um	
	1.4s		38.00nm	5.1mb		N	18s		2.28um						eS	57 04.00	
Z	13s		2.50um	5.1MszX					S	56 11.00		TMA	47.75	311	ePd	50 09.00	-0.3
CHG	33.97	93	ePd	48 15.80	-0.2	LJU	43.85	311	eP	49 39.00	0.9	LLS	47.77	312	iPd	50 08.60	-0.8
	1.2s		47.27nm	5.3mb		CEY	43.87	311	eP	49 38.50	0.3	PCP	47.81	308	P	50 08.30	-1.3
GTA	34.21	56	P	48 19.20	1.1	AQU	44.05	306	P	49 41.20	1.4	FIN	48.02	308	P	50 10.82	-0.4
	1.0s		15.00nm	4.9mb		NUR	44.19	334	eP	49 47.40	6.9X	IMI	48.22	307	P	50 11.73	-1.1
Z	22s		2.06um	4.8Msz			0.8s		21.40nm		5.0mb	SLE	48.23	313	ePd	50 11.70	-1.1
N	16s		1.50um			VOY	44.29	311	eP	49 41.90	0.2	ZLA	48.26	312	ePd	50 12.30	-0.8
			sP	48 34.00		TRI	44.32	311	eP	49 41.20	-0.6	ROB	48.27	308	P	50 12.74	-0.5
BDT	34.50	96	eP	48 21.50	0.9	ARV	44.54	307	P	49 44.40	0.7	ORX	48.31	310	P	50 11.68	-1.9
KIS	34.85	318	eP	48 22.00	-1.3	KAF	44.55	336	eP	49 43.10	-0.4	MMK	48.37	310	ePd	50 14.00	-0.2
Z	18s		1.50um	4.8Msz			0.7s		7.10nm		4.7mb	SAOF	48.47	308	P	50 14.08	-0.6
KHT	35.00	100	eP	48 25.70	0.9	RBL	44.59	312	P	49 44.10	0.0	AUTN	48.56	308	P	50 14.60	-1.1
VRI	35.70	315	eP	48 32.00	1.4	ASS	44.68	307	P	49 46.10	1.2	ENR	48.58	308	P	50 14.66	-1.0
UER	35.72	34	eP	48 29.00	-1.6	PRU	44.79	317	eP	49 45.70	0.1	AURF	48.63	307	P	50 14.60	-1.4
	2.0s		30.00nm	4.9mb					e	49 56.50	37kmX	STV	48.65	308	P	50 14.20	-2.0
Z	12s		1.08um	4.8MszX		KBA	44.87	313	iPc	49 45.80	-0.7	TNS	48.66	316	ePd	50 17.50	1.4
N	12s		0.41um				1.1s		19.20nm		4.9mb	TOUF	48.69	308	P	50 15.98	-0.7
E	12s		1.00um						i	49 47.20	5kmX	HFS	48.71	330	eP	50 15.50	-0.8
OBN	35.82	334	iPc	48 32.50	1.1	RSM	44.95	308	P	49 48.50	1.6		0.5s		3.20nm	4.6mb	
	1.0s		49.00nm	5.4mb		GEC2	45.03	315	e(P)	49 47.40	-0.2	Z	16s		682.00um	7.7MszX	
			i	48 50.00	71kmX		0.8s		13.80nm		4.9mb				LR	13 21.00	
CVO	36.03	315	eP	48 35.00	1.6	FVI	45.15	312	P	49 49.00	0.5	BHB	48.75	309	P	50 14.75	-2.1
KMI	36.05	81	Pc	48 33.50	-0.5	KHC	45.17	315	Pc	49 49.50	0.8	DIX	48.76	310	ePd	50 16.40	-0.8
	1.6s		50.00nm	5.2mb			1.5s		26.50nm		4.9mb	RSP	48.78	309	P	50 14.66	-2.5
Z	18s		1.70um	4.9Msz			N	22s	0.80um			PZZ	48.83	308	P	50 15.76	-1.9
			pP	48 40.00	22km		E	22s	0.10um			LANF	48.87	314	P	50 19.02	1.3
NST	36.05	98	eP	48 34.80	1.0	CRE	45.27	308	P	49 49.30	-0.3	LSD	48.88	309	P	50 17.45	-0.6
MLR	36.06	314	eP	48 35.50	1.8	BHG	45.31	313	eP	49 49.70	-0.1	BOD	48.90	34	eP	50 16.30	-1.5
							0.8s		116.00nm		5.9mb		1.5s		32.00nm	5.1mb	
												SURF	49.04	308	P	50 19.00	-0.3
												EMS	49.09	310	iPd	50 19.60	0.0

RRLL	49.09	309 P	50	19.24	-0.5	BLF	64.23	215 iPc	52	07.00	-0.6	TTG	0.88	122 iPg	56	09.39	-0.2
CDF	49.13	313 iPc	50	19.00	-0.8		0.6s	21.43nm			5.4mb			122 iSg	56	22.81	
	0.9s	11.30nm			4.9mb	FRS	65.20	216 iPc	52	13.70	0.1	PLE	0.93	62 iPg	56	10.16	-0.5
LPG	49.16	309 iPc	50	19.80	-0.5		0.6s	26.67nm			5.5mb			62 iSg	56	24.62	
	0.8s	17.05nm			5.1mb	YSS	65.49	48 eP	52	14.50	-0.9	ULC	1.19	142 iPg	56	15.11	0.1
LPL	49.18	310 iPc	50	19.70	-0.7		1.0s	30.00nm			5.4mb			142 iSg	56	33.21	
	0.9s	30.95nm			5.3mb	KIC	67.04	266 P	52	25.18	-0.7	IVA	1.20	91 iPg	56	15.34	0.1
BNI	49.18	309 P	50	19.30	-1.0		1.0s	37.00nm			5.5mb			91 iSg	56	33.44	
RSL	49.27	310 P	50	19.21	-1.8	TIC	67.18	267 P	52	25.84	-0.9	PVY	1.30	103 iPg	56	17.55	0.6
NJ2	49.28	6B Pc	50	21.40	0.4		0.9s	28.50nm			5.4mb			103 iSg	56	36.65	
	Z 16s	0.47um			4.6MszX	LIC	67.36	266 P	52	27.00	-0.8	SKO	2.53	111 ePn	56	38.50	3.9X
LOMF	49.30	312 P	50	21.23	0.1		0.9s	18.50nm			5.2mb	OHR	2.60	133 ePn	56	41.50	5.8X
BSF	49.38	313 iPc	50	21.00	-0.7	Z 20s	0.34um				4.6Msz		S.D. = 0.5	on	9 of	11 obs.	
	0.9s	16.05nm			5.1mb	MGD	67.74	33 eP	52	29.00	-0.5						
HAU	49.69	313 iPc	50	23.40	-0.7	Z 18s	0.80um				5.0Msz						
	0.7s	7.95nm			4.9mb	ILT	77.05	20 i	53	25.00	0.6		% FEB 04, 1993	21h 57m	47.29±1.11s		
	Z 23s	0.30um			4.2MszX						0.6		13.531 N ±12.4km	123.067 E ±13.4km			
VITF	49.96	313 P	50	25.13	-1.0	WB2	82.58	116 eP	53	51.70	-3.2X		DEPTH = 33.0km (normal)				
WTS	50.00	31B eP	50	27.50	1.2		0.8s	18.50nm			5.2mb		LUZON, PHILIPPINE ISLANDS		(249)		
	0.9s	19.80nm			5.1mb	ASPA	84.07	119 iPd	54	01.40	-1.1						
					23km		1.3s	15.60nm			5.1mb	PGP	2.06	269 ePc	58	21.50	1.3
WLF	50.04	315 iPc	50	27.25	0.7	IMA	85.14	14 eP	54	07.24	0.0			eS	58	44.00	
		i			42kmX		0.7s	5.64nm			4.9mb	TGY	2.15	286 iPd	58	20.00	-1.5
NB2	50.20	330 P	50	26.20	-1.5	FBA	87.39	13 eP	54	18.62	0.5			iS	58	47.00	
	0.7s	7.30nm			4.8mb		1.0s	6.64nm			4.9mb	PLP	3.00	141 eP	58	33.50	-0.2
WIT	50.24	319 eP	50	30.00	1.9	BALM	91.95	12 (P)	54	38.81	-1.0			eS	58	49.00	
ENN	50.34	316 eP	50	30.00	1.1	YKA	92.88	359 eP	54	44.00	0.2	CVP	4.32	344 eP	58	53.00	0.7
	0.8s	8.90nm			4.8mb		1.0s	4.00nm			4.8mb			eS	59	40.00	
DOU	51.09	315 Pc	50	35.40	0.8	SIV	127.02	268 (PKP)	00	32.00	-4.5X	PIP	5.32	334 ePd	59	06.00	-0.4

05d 00h

FCH 1.44 82 iP+ 43 36.94 -0.1
 JACH 1.45 54 iP 43 36.98 -0.1
 S.D. = 0.6 on 10 of 10 obs.

& FEB 05, 1993 01h 21m 27.56s
 58.009 N 155.007 W
 DEPTH = 65.4km
 3.7mb (1 obs.)
 ALASKA PENINSULA (12)
 <AEIC>. ML 3.6 (AEIC).

CDD 1.17 37 iP 21 47.33 -1.0
 MCNL 1.23 16 iP 21 48.20 -1.0
 KDC 1.37 100 iPc 21 49.68 -1.3
 SYI 1.51 65 iP 21 51.62 -1.2
 AUI 1.57 31 iP 21 52.53 -1.2
 AUW 1.58 30 iP 21 52.93 -1.0
 AUH 1.59 30 iP 21 53.00 -1.0
 AUP 1.59 31 iP 21 53.06 -1.1
 AUE 1.60 32 iP 21 53.24 -0.9
 AUL 1.60 30 iP 21 53.13 -1.1
 PDB 1.83 13 iP 21 55.83 -1.6
 OPT 1.89 29 eP 21 56.82 -1.4
 XLV 2.24 48 eP 22 01.30 -1.8
 INW 2.28 24 iP 22 01.88 -1.8
 INE 2.29 25 iP 22 02.08 -1.8
 ILIM 2.33 26 iP 22 02.59 -1.8
 RS1 2.72 24 iP 22 08.10 -1.8
 RS2 2.72 24 iP 22 08.15 -1.8
 RSO 2.72 24 iP 22 08.11 -1.8
 RDW 2.73 24 iP 22 08.15 -1.9
 REF 2.76 24 iP 22 08.49 -2.0
 RDN 2.76 24 eP 22 08.02 -2.5
 BRK 2.77 49 iP 22 07.52 -3.0
 NCT 2.77 22 iP 22 08.71 -1.9
 DFR 2.85 24 iP 22 09.69 -2.0
 SVW 3.12 35 eP 22 12.73 -2.8
 NKA 3.35 34 iP 22 17.34 -1.3
 CKL 3.47 22 iP 22 17.98 -2.5
 CKT 3.50 23 eP 22 17.92 -2.9
 SLKM 3.51 42 iP 22 17.29 -3.6
 SPU 3.52 24 iP 22 18.14 -2.9
 BGL 3.52 21 ePd 22 18.59 -2.6
 CKN 3.53 23 eP 22 19.23 -2.0
 CP2 3.55 22 eP 22 18.79 -2.9
 SEW 3.56 51 eP 22 17.23 -4.2
 CRP 3.57 23 eP 22 18.56 -3.4
 MPA 3.82 47 eP 22 21.17 -4.0
 SDN 4.04 23 iP 22 23.39 -4.9
 SUA 4.08 30 eP 22 25.82 -3.2
 PTE 4.19 44 eP 22 26.42 -3.9
 LTI 4.22 58 eP 22 26.57 -4.3
 PMS 4.26 38 P 22 27.60 -3.9
 MTU 4.29 59 eP 22 27.62 -4.2
 SKT 4.35 22 eP 22 29.18 -3.5
 KNIM 4.42 55 iP 22 29.07 -4.5
 PWA 4.48 33 P 22 30.30 -4.1
 PLRM 4.66 37 eP 22 32.06 -4.9
 PMR 4.66 37 eP 22 31.46 -5.5
 KNK 4.76 41 iP 22 33.32 -5.1
 GHO 4.86 36 eP 22 35.08 -4.8
 GLI 4.96 51 eP 22 35.51 -5.7
 HIN 4.98 58 eP 22 36.85 -4.8
 SML 5.08 39 eP 22 37.96 -5.0
 FID 5.15 54 eP 22 38.08 -5.9
 CVA 5.39 58 eP 22 41.87 -5.3
 VLZ 5.41 51 P 22 43.20 -4.2
 SCM 5.44 42 eP 22 42.99 -5.1
 KLU 5.77 49 iP 22 47.55 -5.1
 RAGM 5.82 61 eP 22 48.39 -4.9
 TRF 5.93 21 eP 22 50.46 -4.5
 TOA 6.03 43 P 22 51.40 -4.9
 RND 6.20 27 eP 22 53.35 -5.2
 TZL 6.28 46 eP 22 56.62 -3.0
 SDG 6.53 42 eP 22 59.18 -4.0
 GLB 6.62 54 eP 22 59.19 -5.3
 SNH 6.64 66 eP 23 00.20 -4.4
 CROM 6.66 61 eP 23 00.01 -5.1
 TGL 6.80 61 eP 23 02.18 -4.8

PAX 6.85 39 eP 23 02.33 -5.3
 BALM 7.12 59 eP 23 05.92 -5.5
 YAH 7.21 65 eP 23 08.31 -4.4
 HDA 7.50 28 eP 23 10.79 -5.7
 CCB 7.50 24 eP 23 09.56 -7.0
 CTGM 7.56 61 eP 23 13.06 -4.5
 FBA 7.72 23 eP 23 13.59 -6.1
 YKA 20.29 60 eP 25 53.70 -6.2
 0.6s 2.30nm 3.7mb
 76 obs. associated

& FEB 05, 1993 02h 06m 01.42s
 34.025 N 117.584 W
 DEPTH = 3.5km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.6 (PAS). Felt.

SSK 0.21 334 iPd 06 05.67 0.0
 PEC 0.38 111 iPc 06 08.51 -0.5
 PLM 0.90 138 ePnc 06 17.98 -1.4
 GSC 1.43 27 ePn 06 27.71 -0.6
 ISA 1.79 336 ePn 06 32.52 -0.9
 5 obs. associated

% FEB 05, 1993 03h 18m 49.41±0.88s
 40.833 N ± 7.6km 22.786 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

THE 0.24 146 ePg 18 54.56 0.0
 GRG 0.32 293 ePg 18 56.00 0.0
 KNT 0.34 14 iPg 18 56.40 0.0
 SOH 0.43 91 ePg 18 58.16 -0.1
 SRS 0.67 65 iPg 19 02.88 0.1
 5 obs. associated

% FEB 05, 1993 03h 59m 13.04±1.50s
 40.840 N ± 6.0km 27.678 E ± 19.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MD 2.6 (ISK).

EDC 0.51 164 iPg 59 23.50 0.1
 BNT 0.52 159 ePg 59 22.70 -0.8
 CTT 0.65 61 iPg 59 25.90 -0.1
 DMK 0.98 3 ePg 59 31.60 -0.1
 DST 1.43 149 ePn 59 40.00 0.9
 5 obs. associated

? FEB 05, 1993 05h 05m 43.93±21.67s
 37.654 S ± 61.8km 179.060 W ± 162.km
 DEPTH = 10.0km (geophysicist)
 EAST OF NORTH ISLAND, N.Z. (688)

HBZ 2.10 271 Pc 06 20.00 0.5
 PUZ 2.16 258 Pc 06 19.40 -1.1
 NOZ 2.48 246 P 06 25.60 0.6
 URZ 3.09 258 P 06 33.30 -0.3
 PAHZ 3.29 247 P 06 36.70 0.2
 MOH 3.32 242 eP 06 37.70 0.7
 TAZ 3.55 259 P 06 40.30 0.1
 WHH 3.71 249 P 06 42.10 -0.5
 TTH 3.73 238 eP 06 43.80 1.0
 TEHZ 3.98 233 P 06 46.50 0.2
 WAHZ 4.13 239 P 06 48.20 -0.2
 MNG 5.17 233 P 07 02.10 -1.2
 07 45.80
 12 obs. associated

? FEB 05, 1993 05h 13m 12.03±3.37s
 32.228 S ± 30.2km 70.248 W ± 23.4km
 DEPTH = 100.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)

MD 3.4 (SAN).

JACH 0.54 213 iP 13 28.17 -0.3
 ROCH 0.98 221 iPd 13 32.96 0.2
 PEL 0.98 202 iP+ 13 32.72 0.1
 FCH 1.10 182 iPd 13 34.24 0.1
 PCH 1.41 189 iP 13 37.88 0.3
 TACH 1.54 202 iP+ 13 39.00 -0.1
 LCCH 1.67 221 iP+ 13 41.23 0.4
 CHCH 1.73 191 iP 13 41.70 0.0
 LNV 1.98 209 iP+ 13 44.14 -0.7
 S.D. = 0.4 on 9 of 9 obs.

& FEB 05, 1993 05h 36m 07.71s
 63.067 N 150.841 W
 DEPTH = 128.0km
 CENTRAL ALASKA (1)
 <AEIC>.

TRF 0.46 33 iP 36 26.38 -0.4
 HUR 0.56 99 eP 36 26.63 -0.5
 RND 0.96 68 iP 36 29.98 -0.5
 MCK 1.09 51 eP 36 31.21 -0.4
 SKT 1.14 197 iP 36 31.63 -0.5
 PWA 1.49 162 P 36 36.00 0.1
 GHO 1.58 145 eP 36 37.08 0.1
 SUA 1.61 178 eP 36 37.71 0.3
 PLRM 1.68 151 eP 36 37.90 -0.2
 PMR 1.68 151 eP 36 37.64 -0.5
 NEA 1.71 27 eP 36 37.80 -0.6
 SML 1.72 136 eP 36 38.19 -0.5
 CRP 1.91 199 eP 36 40.31 -0.8
 CP2 1.93 201 eP 36 40.80 -0.5
 PMS 1.93 161 P 36 40.70 -0.4
 BGL 1.95 203 eP 36 41.28 -0.2
 CKN 1.95 199 eP 36 41.41 -0.1
 SPU 1.98 197 eP 36 40.91 -0.9
 CKT 1.98 200 eP 36 41.18 -0.7
 KNK 2.00 145 eP 36 41.76 -0.3
 CKL 2.00 201 eP 36 41.59 -0.6
 SCM 2.05 126 eP 36 42.24 -0.5
 CCB 2.08 39 eP 36 41.94 -1.0
 HDA 2.19 50 eP 36 43.12 -1.3
 FBA 2.28 35 eP 36 45.64 0.1
 NKA 2.34 185 eP 36 48.29 2.0
 TTA 2.36 269 eP 36 44.40 -2.3
 TOA 2.37 112 P 36 46.50 -0.2
 PTE 2.37 158 eP 36 45.86 -0.8
 PAX 2.45 90 iP 36 47.82 0.0
 GLM 2.45 37 eP 36 46.85 -1.0
 SDG 2.49 100 eP 36 48.42 0.1
 SLKM 2.59 173 eP 36 48.74 -0.8
 DFR 2.63 200 eP 36 49.26 -0.9
 MPA 2.68 164 eP 36 49.82 -0.8
 NCT 2.70 202 eP 36 50.92 -0.2
 TZL 2.71 110 eP 36 51.05 0.0
 REF 2.73 200 eP 36 51.00 -0.6
 RDW 2.76 201 eP 36 51.39 -0.5
 RS2 2.77 200 eP 36 51.48 -0.6
 RSO 2.77 200 eP 36 51.51 -0.5
 RS1 2.77 200 eP 36 50.46 -1.6
 KLU 2.79 122 eP 36 50.79 -1.4
 GLI 2.82 139 eP 36 51.50 -1.0
 VLZ 2.88 130 eP 36 52.08 -1.1
 SVW 2.99 231 eP 36 52.94 -1.8
 SEW 3.05 167 eP 36 54.51 -1.0
 KNIM 3.10 150 eP 36 54.44 -1.8
 ILIM 3.16 200 eP 36 56.34 -0.8

05d 05h

LTI 3.36 153 eP 36 58.06 -1.5
 MTU 3.45 152 eP 36 59.31 -1.5
 PDB 3.66 208 eP 37 03.11 -0.6
 GLB 3.67 113 eP 37 02.95 -0.9
 AUL 3.90 200 eP 37 04.72 -2.2
 AUH 3.92 200 eP 37 05.73 -1.5
 MCNL 4.25 205 eP 37 11.17 -0.4
 BALM 4.49 113 eP 37 13.58 -1.3
 SYI 4.54 190 eP 37 14.46 -1.0
 58 obs. associated

• FEB 05, 1993 05h 55m 59.40±0.79s
 16.538 N ± 7.0km 120.827 E ± 11.8km
 DEPTH = 10.0km (geophysicist)
 4.3mb (1 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BAG 0.27 242 iPd 56 05.80 0.7
 SZP 1.07 341 iPd 56 18.00 -1.5
 CVP 1.50 39 eP 56 26.80 0.4
 PIP 1.79 354 iPc 56 31.40 0.9
 QCP 1.91 173 eP 56 10.00 -22.2X
 TGY 2.42 178 eP 56 38.00 -1.7
 PGP 3.02 178 eP 56 49.00 0.8
 YKA 90.12 22 eP 09 01.10 0.3
 0.9s 1.60nm 4.3mb
 S.D. = 1.4 on 7 af 8 obs.

• FEB 05, 1993 06h 00m 19.65±1.23s
 15.143 N ± 16.1km 88.256 W ± 12.3km
 DEPTH = 139.7km (13 depth phases)
 4.6mb (6 obs.)

HONDURAS (72)

PPM 10 65 293 iP 02 51.00 0.8
 iS 03 20.00
 MRX 13.15 292 (P) 03 22.50 0.3
 PRM 19.59 15 eP 04 40.01 0.8
 epP 05 09.25
 UYO 19.75 345 iPc 04 40.00 -0.8
 MIAR 19.91 347 eP 04 45.63 3.2X
 0.7s 16.60nm 4.5mb
 epP 05 15.50
 LHS 20.39 18 eP 04 46.50 -0.8
 epP 05 15.38
 OLY 20.48 352 (P) 04 51.21 3.0X
 epP 05 19.88
 TKL 20.82 10 eP 04 52.63 1.0
 epP 05 21.46 158kmX
 GRT 21.06 357 (P) 04 57.06 3.1X
 epP 05 24.60 146km
 FNO 21.65 339 iPd 05 03.30 3.5X
 MEO 21.65 336 iPc 05 02.90 3.0X
 WMOK 21.69 336 eP 05 03.22 3.0X
 1.0s 33.85nm 4.7mb
 epP 05 33.33 156kmX
 TUL 21.75 343 P 05 03.40 2.6
 LNO 21.75 343 eP 05 03.29 2.6
 e 05 32.29 149km
 RLO 21.79 345 (P) 05 03.40 2.2
 ELC 22.07 358 eP 05 04.57 0.7
 epP 05 33.94 149km
 CEH 22.23 20 eP 05 01.79 -3.7X
 0.7s 19.98nm 4.6mb
 epP 05 31.21 149km
 FVM 22.83 356 (P) 05 12.30 1.0
 0.6s 8.79nm 4.3mb
 epP 05 42.59 152kmX
 NAV 23.06 15 (P) 05 12.20 -1.4
 epP 05 40.23 139km
 ACO 23.56 338 iPd 05 20.20 1.8
 ALQ 25.62 324 P 05 42.09 4.1X
 GOL 28.69 332 P 06 10.00 4.2X
 PV08 29.46 326 (P) 06 13.38 0.6
 epP 06 41.30 130km
 PV10 29.52 326 ePc 06 12.35 -0.9
 epP 06 40.60 132km
 RSNY 31.54 19 (P) 06 23.17 -7.4X
 0.8s 17.60nm 4.9mb
 epP 06 52.79 138km
 ARUT 31.70 320 eP 06 31.45 -0.8
 epP 07 01.49 140km
 RSSD 31.85 338 (P) 06 33.27 -0.3
 epP 07 02.42 135km

DAU 32.18 326 (P) 06 35.12 -1.4
 epP 07 04.72 137km
 EEO 32.33 12 eP 06 35.50 -1.9
 BW06 33.06 331 eP 06 42.74 -1.3
 0.9s 5.24nm 4.3mb
 epP 07 11.75 133km
 HVU 33.96 326 (P) 06 49.67 -2.0
 epP 07 20.45 141km
 ULM 35.56 352 ePd 07 04.40 -0.6
 LMN 36.40 28 eP 07 34.00 21.9X
 LCCM 36.47 332 eP 07 12.90 0.0
 e 07 41.10 124kmX
 e 09 45.50
 DPW 40.95 329 (P) 07 48.36 -1.5
 epP 08 16.18 122kmX
 SIV 40.96 138 P 07 51.40 1.1
 FCC 43.76 356 eP 08 11.00 -1.5
 pP 08 40.00 127kmX
 WR0 138.99 257 ePKP 19 37.00 4.9X
 S.D. = 1.4 on 26 of 38 obs.

FEB 05, 1993 06h 37m 23.74±0.24s
 12.542 N ± 4.8km 141.985 E ± 4.7km
 DEPTH = 50.4km (4 depth phases)
 5.2mb (39 obs.)

SOUTH OF MARIANA ISLANDS (210)

Mw 5.0 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 30S, 44C
 Centroid Location:
 Origin Time 06:37:22.8 0.5
 Lat 12.43N 0.04 Lon 142.00E 0.04
 Dep 15.0 FIX Half-duration 1.1
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.30 0.06 Mtt= 1.31 0.06
 Mff=-0.01 0.07 Mrt= 1.08 0.26
 Mrf= 0.32 0.19 Mtf= 0.11 0.06
 Principal Axes:
 T Val= 1.72 Plg=20 Azm=352
 N 0.01 6 260
 P -1.73 69 155
 Best Double Couple: Mo=1.7*10**17
 NP1: Strike= 93 Dip=25 Slip= -76
 NP2: 258 65 -96

GUMO 2.99 69 eP 38 09.00 -0.9
 eS 38 45.60
 PJG 2.99 69 eP 38 09.00 -0.9
 GUA 3.02 71 eP 38 09.80 -0.5
 eS 38 47.20
 RAB 19.46 148 eP 41 52.00 2.6
 BAG 21.08 283 eP 42 06.00 -0.3
 KAGJ 21.19 333 eP 42 12.40 5.2X
 WKYJ 22.35 346 eP 42 22.90 4.1X
 KUMJ 22.38 335 eP 42 24.10 5.1X
 PMG 22.40 166 eP 42 21.00 1.6
 TKSJ 22.54 343 eP 42 21.60 1.1
 TSRJ 23.53 348 eP 42 30.30 0.1
 CHJJ 23.56 354 eP 42 32.70 2.2
 KAKJ 23.62 356 eP 42 28.10 -2.9
 SHNJ 23.66 337 eP 42 33.70 2.3
 MAT 24.14 353 eP 42 39.00 2.9
 1.8s 90.91nm 5.0mb
 Z 20s 4.26um 4.9MsZ
 eS 46 57.00
 MTMJ 24.23 352 eP 42 42.10 5.0X
 NIJJ 24.74 354 eP 42 41.50 -0.4
 SSE 26.63 317 P 43 00.00 0.5
 Z 20s 2.30um 4.7MsZ
 N 14s 1.10um
 sP 43 20.00
 S 47 24.00
 GZH 29.16 295 eP 43 24.00 1.5
 TIA 32.50 321 eP 43 51.00 -0.8
 Z 32s 2.62um 4.7MsZ
 E 12s 1.17um
 CTA 32.70 173 iP 43 55.00 1.4
 iS 48 45.00
 WR0 33.12 193 iPc 43 55.90 -1.4
 i 44 04.40 29kmX
 SNY 33.30 335 Pd 44 00.00 1.3
 Z 24s 3.37um 5.0MsZ
 E 13s 0.88um
 S 49 11.00
 CN2 34.25 339 eP 44 09.40 2.5
 1.2s 6.60nm 4.4mb

Z 20s 2.02um 4.9MsZ
 N 13s 0.97um
 E 13s 0.67um
 eS 49 26.00
 YSS 34.37 1 eP 44 15.00 7.2X
 Z 18s 1.70um 4.8MsZ
 N 18s 2.00um
 E 16s 0.20um
 e 44 28.00 50km
 eS 49 32.00
 BJI 35.60 325 eP 44 18.00 -0.4
 1.0s 11.00nm 4.7mb
 Z 20s 1.20um 4.7MsZ
 N 18s 1.29um
 eS 56 40.00
 eSS 59 56.00
 GYA 35.92 298 P 44 22.40 0.9
 1.0s 20.00nm 5.0mb
 TIY 36.38 319 eP 44 25.00 -0.2
 Z 20s 1.75um 4.8MsZ
 N 12s 0.74um
 ASPA 36.84 192 eP 44 28.40 -0.7
 0.7s 13.10nm 5.0mb
 Z 23s 3.00um 5.0MsZ
 eS 50 11.30
 XAN 36.89 311 P 44 28.50 -0.0
 0.5s 8.00nm 4.0mb
 Z 26s 2.03um 4.0MsZ
 N 11s 0.47um
 E 16s 0.90um
 pP 44 41.00 3.0mb
 S 44 44.00 0.0
 HHC 38.80 322 eP 44 44.00 0.0
 1.6s 19.00nm 4.0mb
 Z 24s 2.02um 4.0MsZ
 N 15s 0.61um
 E 16s 0.67um
 S 44 44.00 0.0
 KMI 39.05 294 eP 44 44.00 0.0
 1.8s 90.00nm 4.0mb
 Z 20s 1.50um 4.0MsZ
 BTO 39.59 321 eP 44 44.00 0.0
 CD2 39.68 304 eP 44 44.00 0.0
 1.0s 18.00nm 4.0mb
 eS 44 44.00 0.0
 NST 40.66 279 eP 44 44.00 0.0
 8RS 41.05 165 iPd 44 44.00 -0.0
 eS 44 44.00 0.0
 LZH 41.53 311 eP 44 44.00 0.0
 1.6s 55.00nm 4.0mb
 Z 22s 1.53um 4.0MsZ
 N 15s 0.61um
 eS 51 25.00
 eSS 54 26.00
 CHG 41.83 284 eP 45 11.00 0.4
 DZM 41.94 145 iPc 45 11.40 -0.1
 STK 44.17 180 eP 45 28.10 -1.3
 0.9s 2.40nm 3.9mb X
 GTA 45.81 313 P 45 42.00 -0.6
 1.5s 63.00nm 5.3mb
 Z 32s 2.81um 5.0MsZ
 N 14s 0.48um
 pP 45 50.50 28kmX
 eS 52 24.00
 sS 52 39.00
 SS 55 42.00
 COOL 47.60 204 eP 45 50.00 -6.7X
 MGD 47.92 6 eP 46 00.00 1.2
 1.1s 30.00nm 5.2mb
 Z 18s 0.90um 4.8MsZ
 N 18s 0.60um
 e 46 14.00 53km
 e 47 26.00
 e 47 57.00
 eS 52 55.00
 eSSS 57 26.00
 MRWA 48.51 211 eP 46 02.20 -1.5
 0.5s 8.00nm 5.0mb
 ZAK 49.19 328 ePd 46 08.80 0.2
 1.4s 69.00nm 5.5mb
 Z 16s 1.48um 5.1MsZ
 N 16s 0.58um
 E 16s 2.13um
 IRK 49.82 331 ePc 46 13.00 -0.6
 BOD 49.90 341 iPd 46 13.80 -0.2
 1.2s 30.00nm 5.2mb
 TOO 49.95 176 iPd 46 14.40 -0.3

[illegible]

[illegible]

0.9s 60.00nm 5.6mb				THZ 30.57 170 epP 39 13.40 36kmX				pP 44 46.00 36kmX			
GUN 54.15 295 P	36 07.60	0.1		KHZ 31.31 170 P	39 08.40	-1.3		sP 44 51.00			
PKI 54.54 295 P	36 10.00	-0.4		LTZ 31.47 172 P	39 10.50	-1.6	SPA 78.45 180 iPc	44 48.90	-1.1		
1.5s 120.00nm		5.7mb		WR0 31.64 251 iPd	39 14.40	0.6	0.9s 63.64nm		5.6mb		
KKN 54.67 295 P	36 10.80	-0.4		i 39 30.30	66kmX		e 03 33.40				
DMN 54.81 295 P	36 12.00	-0.3		TOO 31.88 212 eP	39 11.00	-4.8X	YAK 78.79 343 eP	45 05.00	13.3X		
1.2s 76.00nm		5.6mb		MOZ 32.43 171 P	39 18.30	-2.0	1.8s 70.00nm				
GKN 55.25 295 P	36 15.20	-0.1		GUA 32.81 319 eP	39 14.80	-9.2X	TTA 79.82 16 (P)	44 56.40	-0.9		
1.2s 86.00nm		5.7mb		GUMO 32.87 319 eP	39 14.60	-9.9X	1.1s 13.18nm		4.8mb		
WMO 55.66 315 Pd	36 18.00	0.1		Z 29s 5.67um	5.1MszX		GTA 79.87 314 Pd	44 58.00	-0.2		
2.0s 34.00nm		5.0mb		e 39 28.00	52km		1.5s 77.00nm		5.4mb		
Z 14s 1.30um		5.2MszX		eP 39 15.10	-9.4X		Z 22s 3.00um		5.6Msz		
pP 36 25.00	23km			BWZ 32.93 175 eP	39 23.00	-1.7	E 12s 0.63um				
sP 36 32.00				ASPA 33.05 244 P	39 25.29	-0.8	pP 45 07.00	29kmX			
HYB 60.99 283 eP	36 55.50	0.0		BFD 33.22 216 iPd	39 27.90	0.6	sP 45 11.50				
SVW 66.00 28 eP	37 27.45	-0.3		0.6s 19.00nm	5.1mb		i 44 58.00	57km			
0.8s 48.47nm		5.7mb		ADE 34.19 223 eP	39 36.60	0.8	ILT 80.05 6 eP	45 10.00	7.0X		
e 37 33.77	20km			TUZ 34.33 176 eP	39 35.30	-1.5	PMR 80.90 20 P				
TTA 66.42 26 eP	37 29.95	-0.5		TAU 35.27 204 eP	39 45.00	0.1	Z 21s 3.61um	5.7Msz			
1.2s 12.78nm		4.9mb		WARB 40.06 243 eP	40 25.00	-0.3	BOD 81.24 335 eP	45 14.20	9.4X		
IMA 68.40 23 eP	37 41.14	-1.9		CGP 45.96 294 eP	41 14.00	0.8	82.50 325 iPc	45 10.80	-0.7		
1.3s 15.24nm		5.0mb		1.0s 50.00nm	5.4mb		1.5s 28.00nm	5.1mb			
PMR 69.14 29 eP	37 45.23	-2.2		MEEK 47.21 244 iPc	41 23.10	0.1	IRK 82.85 327 eP	45 13.00	-0.3		
0.8s 22.84nm		5.4mb		0.5s 72.00nm	5.9mb		e 45 27.30	49km			
BRW 69.23 18 eP	37 45.96	-1.9		HON 47.96 47 P	41 40.00	11.2X	IMA 82.91 15 (P)	45 13.84	0.3		
FBA 70.45 25 eP	37 53.42	-2.0		Z 20s 2.67um	5.2Msz		epP 45 29.31	54km			
0.6s 6.94nm		5.0mb		KLB 48.88 238 eP	41 35.00	-0.9	BALM 82.93 23 eP	45 13.69	0.0		
KLU 70.63 29 eP	37 55.88	-0.8		MRWA 49.91 242 eP	41 43.30	-0.6	LSA 83.15 302 Pc	45 15.80	-0.1		
MAIO 76.47 305 iPc	38 32.20	0.9		0.4s 9.00nm	5.2mb		1.4s 9.00nm	4.6mb			
GMW 84.51 43 eP	39 13.41	-0.2		MUN 50.25 238 eP	41 45.00	-1.4	FBA 83.69 18 eP	45 16.79	-0.6		
e 39 20.55	23km			0.9s 60.00nm	5.6mb		0.7s 15.99nm	5.2mb			
RES 86.24 13 eP	39 23.50	1.8		PPR 51.87 292 eP	42 00.00	1.1	ORV 83.98 48 eP	45 20.24	0.9		
1.0s 6.00nm		4.8mb		KKM 52.85 287 ePc	42 06.60	0.2	epP 45 35.51	53km			
OBN 88.26 326 eP	39 30.00	-1.8		1.6s 464.60nm	6.3mb X		CMB 84.28 49 P	45 30.00	9.0X		
1.2s 31.00nm		5.5mb		BAG 53.13 301 eP	42 09.00	0.5	Z 20s 3.21um	5.7Msz			
Z 24s 2.10um		5.5MszX		1.9s 294.74nm	6.0mb		MOY 84.39 325 eP	45 01.80	-19.3X		
KAF 90.37 335 eP	39 40.20	-1.4		MAT 54.75 332 (P)	42 19.00	-0.8	ISA 84.97 52 eP	45 25.65	1.1		
ZOBO 150.86 101 PKP	46 29.00	-0.2		SSE 60.67 316 P	43 01.00	-0.5	1.2s 22.16nm	5.2mb			
LPB 150.88 101 PKP	46 36.00	7.0X		1.0s 19.00nm	5.2mb		Z 21s 2.69um	5.6Msz			
CNCB 150.97 102 ePKP	46 31.00	1.7		sP 43 15.50			epP 45 40.19	50km			
CCH 152.67 104 (PKP)	46 38.00	6.5X		GZH 62.08 342 eP	43 22.90	12.1X	SSK 85.14 54 eP	45 25.54	0.0		
S.D. = 1.2 on 37 of 39 obs.				NJZ 62.28 304 P	43 13.80	1.2	epP 45 40.82	53km			
FEB 05, 1993 07h 32m 53.08± 0.21s				62.83 315 Pd	43 15.00	-1.0	BMW 85.30 41 (P)	45 25.29	-0.6		
11.628 S ± 3.9km 166.329 E ± 4.9km				1.0s 17.00nm	5.1mb		MTUM 85.43 51 eP	45 27.37	0.5		
DEPTH = 51.1km (19 depth phases)				sP 43 28.00			epP 45 43.28	56km			
5.2mb (37 obs.)				QIZ 63.46 298 eP	43 21.40	1.0	PEC 85.47 54 eP	45 28.02	1.0		
SANTA CRUZ ISLANDS (184)				KGM 64.06 278 eP	43 25.00	0.5	1.2s 24.92nm	5.3mb			
BKM 6.28 163 iP	34 32.12	6.6X		SMY 64.44 5 P	43 40.00	13.8X	epP 45 42.84	51km			
iS 35 51.00				Z 19s 2.08um	5.3Msz		BONR 85.81 50 eP	45 30.18	1.2		
HNR 6.64 289 eP	34 30.00	-0.6		MDJ 65.13 332 eP	43 29.00	-1.8	epP 45 44.87	51km			
eS 35 45.00				WHN 65.20 312 eP	43 32.50	1.0	GSC 86.16 53 eP	45 32.25	1.8		
DZM 10.39 179 iPc	35 22.90	0.6		sP 43 45.50			epP 45 46.74	50km			
iS 37 14.50				TIA 66.43 318 eP	43 37.60	-1.7	TIK 86.75 349 iPd	45 46.50	14.1X		
MBU 13.13 115 ePc	36 13.10	14.0X		CN2 66.53 329 eP	43 38.00	-1.8	2.0s 41.00nm				
SVA 13.38 120 ePc	36 15.20	12.9X		1.2s 31.00nm	5.2mb		e 45 56.00	30kmX			
PMG 18.98 275 eP	37 15.00	1.7		Z 18s 1.49um	5.2Msz		GUN 87.10 299 P	45 35.60	0.1		
BRS 20.20 217 iPd	37 28.00	1.6		epP 43 50.00	41kmX		PKI 87.42 299 P	45 36.40	-0.6		
1.0s 15.00nm		4.3mb		IPM 66.91 280 ePc	43 42.10	-0.7	KKN 87.58 299 P	45 37.00	-0.7		
Z 18s 80.00um		6.1Msz		0.7s 32.30nm	5.5mb		DMN 87.69 299 P	45 38.10	-0.1		
i 37 37.00	34kmX			GYA 69.22 304 P	43 56.60	-0.5	GKN 88.19 299 P	45 39.80	-0.7		
i 37 46.00				1.2s 41.00nm	5.2mb		ARUT 89.45 51 eP	45 47.52	1.2		
iS 41 14.00				pP 44 12.00	55km		epP 46 01.99	49km			
CTA 21.05 244 iPd	37 37.00	1.9		BJI 69.29 321 eP	43 56.00	-1.1	WMO 89.91 315 P	45 48.00	-0.2		
1.5s 79.86nm		4.8mb		1.8s 67.00nm	5.3mb		1.0s 21.00nm	5.4mb			
iPc 37 53.00	73kmX			Z 32s 3.02um	5.3MszX		Z 28s 2.17um	5.4MszX			
iS 41 12.00				N 10s 0.81um			pP 46 01.00	43km			
RMO 22.19 226 iPc	37 48.10	1.6		NNT 70.33 288 eP	44 03.20	-0.7	TUC 90.22 57 eP	45 51.41	1.5		
1.0s 176.00nm		5.4mb		TIY 70.37 317 eP	44 03.50	-0.4	1.0s 5.90nm	4.9mb			
ARMA 23.15 214 eP	37 57.70	1.8		KMI 71.91 301 Pc	44 13.50	-0.1	Z 19s 2.90um	5.7Msz			
0.8s 88.00nm		5.3mb		1.5s 270.00nm	6.0mb		epP 46 06.88	53km			
i 37 58.30	2kmX			Z 24s 3.40um	5.5MszX		MSU 90.60 51 eP	45 52.64	0.9		
RIV 26.09 210 eP	38 26.40	2.6		pP 44 26.00	43km		epP 46 08.36	54km			
CMS 27.37 221 iPc	38 35.90	0.4		KHT 72.04 290 eP	44 14.20	0.0	HVU 90.97 48 eP	45 54.38	1.1		
0.4s 24.00nm		5.2mb		MGD 72.56 352 eP	44 29.00	12.6X	epP 46 09.75	53km			
i 38 51.30	64kmX			HHC 72.64 320 eP	44 18.00	0.5	ePd 45 55.00	-0.2			
BWA 27.95 213 eP	38 40.40	-0.5		1.3s 20.00nm	4.9mb		1.2s 57.10nm	5.9mb			
e 38 55.30	62kmX			pP 44 31.00	45km		GBA 91.63 283 P	45 57.00	0.5		
CNB 28.16 210 iPc	38 43.30	0.5		CHG 72.98 294 ePc	44 19.20	-0.5	SRU 92.00 51 (P)	45 59.83	1.8		
0.9s 38.00nm		5.0mb		1.0s 47.50nm	5.4mb		LCCM 92.60 44 eP	46 01.40	0.8		
CAN 28.35 211 eP	38 44.30	-0.1		CD2 73.41 307 P	44 22.00	-0.1	ELT 93.35 324 eP	46 01.50	-2.1		
i 39 02.50	79kmX			0.9s 24.00nm	5.1mb		1.8s 37.00nm	5.5mb			
NGZ 28.65 165 eP	38 47.00	-0.2		BTO 73.50 319 eP	44 22.50	0.0	SES 94.21 40 eP	46 09.00	1.2		
CNZ 28.66 165 eP	38 47.40	0.2		LZH 75.57 312 iPc	44 35.00	0.4	ALO 94.30 55 P	46 20.00	11.2X		
STK 30.43 225 eP	39 03.20	0.2		1.5s 89.00nm	5.5mb		Z 19s 1.96um	5.6Msz			
0.7s 22.30nm		5.0mb		Z 23s 2.65um	5.5MszX		YKA 95.23 27 eP	46 10.60	-1.5		
				E 15s 1.37um			0.4s 0.50nm	4.3mb			
							GOL 96.03 51 P	46 30.00	13.3X		

05d 07h

GLD	Z 21s	4.13um	5.9Msz	96.15	51 P	46 30.00	12.9X
PRZ	Z 21s	2.74um	5.7Msz	96.23	312 eP	46 33.00	15.6X
BOM	96.97	288 eP	46 20.20	-0.7			
RSSD	97.73	47 P	46 30.00	5.9X			
WMOK	Z 22s	1.90um	5.5Msz	100.51	57 Pdiff	46 50.00	13.2X
MIAR	Z 19s	2.97um	5.8Msz	104.76	57 Pdiff	47 10.00	14.3X
FVM	Z 21s	2.59um	5.7Msz	107.46	54 PKP	51 30.00	13.9X
SLM	Z 20s	4.28um	6.0Msz	107.63	53 PKP	51 30.00	13.6X
HRV	Z 20s	1.71um	5.6Msz	121.33	47 PKP	51 50.00	7.7X
KAF	Z 20s	1.72um	5.7Msz	121.99	339 iPKP	51 42.00	-1.0
CBM	0.9s	10.90nm		122.43	41 PKP	52 00.00	15.7X
SIV	Z 21s	1.34um	5.6Msz	125.66	119 PKP	51 53.00	2.3X
NB2	127.41	345 PKP	52 07.60	14.0X			
KSP	0.7s	1.60nm		133.87	334 ePKP	52 22.90	16.8X
KHC	136.31	334 ePKP	52 30.00	19.1X			
SKO	136.98	321 ePKP	52 20.00	7.7X			
OHR	137.86	320 ePKP	52 27.50	13.4X			
VBY	138.19	329 ePKP	52 12.20	-2.3X			
SSF	141.82	341 ePKP	52 31.10	10.1X			
RJF	144.01	342 ePKP	52 35.50	10.7X			
CAF	144.18	341 ePKP	52 36.60	11.5X			
LFF	144.58	342 ePKP	52 37.90	12.2X			
LPO	144.68	342 ePKP	52 38.20	12.3X			
BCAO	147.34	260 iPKPc	52 33.00	1.8			
EMON	147.84	351 ePKP	52 49.00	17.8X			
STS	148.54	353 ePKP	52 36.00	3.7X			
ERUA	148.83	351 ePKP	52 52.50	19.7X			
ETOR	149.18	343 ePKP	52 33.50	0.0			
GUD	149.91	345 ePKP	52 38.40	3.8X			
EVIA	151.32	342 ePKP	52 40.00	3.2X			
KIC	169.75	240 PKP	52 49.00	-7.8X			

S.D. = 1.0 on 96 of 142 obs.

% FEB 05, 1993 08h 40m 53.87±1.56s
43.693 N ±15.2km 10.589 E ± 8.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PII	0.05	301 P	40 56.00	-0.1
BDI	0.37	1 P	41 01.60	0.1
PGD	0.84	77 P	41 10.80	0.6
SFI	0.94	76 P	41 10.90	-0.9
CRE	0.99	93 P	41 13.00	0.3

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

% FEB 05, 1993 09h 14m 22.42±0.90s
39.104 N ± 7.4km 27.587 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.75	200 iPg	14 36.90	-0.2
DST	0.95	58 iPg	14 41.00	0.4
EZN	1.21	307 iPn	14 45.50	0.5
EDC	1.26	10 ePn	14 44.50	-1.3
BNT	1.28	11 ePn	14 46.50	0.4
KCT	1.29	27 iPn	14 46.50	0.2

S.D. = 0.9 on 6 of 6 obs.
* FEB 05, 1993 09h 52m 48.38±0.92s
13.512 N ±11.0km 123.062 E ±11.2km
DEPTH = 23.9km (2 depth phases)
4.6mb (8 obs.) 4.2Msz (2 obs.)
LUZON, PHILIPPINE ISLANDS (249)

PGP	2.05	270 ePc	53 23.00	1.0
TGY	2.15	286 eP	53 21.50	-2.0
OCP	2.23	300 eP	52 47.50	-37.0X
BAG	3.75	321 eP	53 46.60	0.3
CVP	4.34	344 eP	53 55.00	0.6
PIP	5.33	334 ePc	54 14.50	5.9X
WHN	18.76	336 eP	57 12.50	4.5X
GYA	20.05	312 eP	57 29.00	6.0X
XAN	24.13	330 P	58 04.00	0.4
CD2	24.81	317 eP	58 10.20	0.0
TIY	25.90	340 eP	58 18.20	-2.1
Z 20s	0.75um		4.2Msz	
E 15s	0.44um			
BJI	27.11	348 eP	58 31.50	0.1
SNY	1.4s	33.00nm	4.8mb	
LZH	28.34	326 eP	58 46.50	3.7X
CN2	1.2s	32.00nm	4.9mb	
Z 20s	22.00nm		4.7mb	
0.8s	0.55um		4.2Msz	
GTA	32.95	326 eP	59 04.00	17km
WR0	1.5s	8.00nm	4.4mb	
GUN	35.13	161 eP	59 41.90	-0.4
PKI	37.45	298 P	00 04.00	1.7
ASPA	0.7s	12.00nm	4.8mb	
GKN	37.77	298 P	00 08.20	3.2X
YKA	38.44	164 eP	00 14.80	4.6X
S.D. = 1.2 on 13 of 22 obs.				

* FEB 05, 1993 09h 53m 36.76±1.04s
49.182 N ± 9.5km 6.988 E ±10.0km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

WLF	0.73	312 iP	53 50.00	-1.1
ABH	0.79	27 ePg	53 52.11	0.0
TNS	1.41	42 ePnd	54 03.00	0.5
FEL	1.47	152 ePg	54 04.07	0.6
ENN	1.73	337 iPn	54 08.10	1.1
GEC2	4.43	92 Pn	54 44.50	-1.1

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

? FEB 05, 1993 09h 54m 17.36±1.03s
39.106 N ± 8.9km 27.540 E ±17.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.74	197 iPg	54 31.90	0.0
DST	0.98	59 iPg	54 36.00	0.0
EDC	1.26	11 ePn	54 40.50	-0.3
BNT	1.28	13 ePn	54 41.50	0.4

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

* FEB 05, 1993 09h 55m 57.50±0.96s
39.598 N ±10.2km 20.682 E ± 7.9km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.28	257 ePg	56 03.50	0.2
FNA	1.30	24 ePb	56 21.02	-0.6
AGG	1.40	114 ePb	56 22.42	-0.7
LIT	1.48	70 ePb	56 24.30	0.1
OHR	1.51	3 iPn	56 26.20	1.5
GRG	1.89	44 ePb	56 30.62	0.5
VAY	2.24	39 ePn	56 35.50	0.3
KNT	2.30	47 ePn	56 36.80	0.7
SOH	2.38	58 ePn	56 37.90	0.6
SKO	2.44	13 ePn	56 35.40	-2.6

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

* FEB 05, 1993 09h 59m 15.58s
62.671 N 149.642 W
DEPTH = 72.1km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.31	0 eP	59 27.17	-0.1
RND	0.82	26 eP	59 32.06	-0.3
TRF	0.84	340 eP	59 32.47	-0.2
GHO	0.96	159 eP	59 34.19	0.1
PWA	1.03	186 P	59 35.00	0.2
SML	1.06	144 eP	59 35.21	-0.1
PLRM	1.11	167 eP	59 36.12	0.3
PMR	1.11	167 ePc	59 35.70	-0.1
MCK	1.11	16 eP	59 35.71	-0.2
SKT	1.12	233 iP	59 36.01	0.0
SUA	1.32	204 eP	59 39.03	0.3
SCM	1.37	127 eP	59 39.62	0.3
KNK	1.38	156 eP	59 40.06	0.6
PMS	1.43	178 P	59 40.90	0.8
TOA	1.71	108 P	59 45.00	1.0
PTE	1.84	171 eP	59 46.42	0.9
CRP	1.84	221 eP	59 45.99	0.1
CP2	1.87	222 eP	59 46.41	0.1
SPU	1.88	218 eP	59 46.74	0.5
CKN	1.88	221 eP	59 47.44	1.1
SDG	1.90	93 eP	59 47.24	0.7
CKT	1.91	221 eP	59 47.42	0.7
BGL	1.92	224 eP	59 47.41	0.6
NEA	1.93	7 eP	59 46.04	-0.8
PAX	1.94	79 eP	59 47.68	0.6
CKL	1.95	222 eP	59 47.98	0.7
NKA	2.08	202 eP	59 51.43	2.5
KLU	2.11	122 eP	59 49.06	-0.4
HDA	2.12	33 eP	59 48.91	-0.6
CCB	2.15	22 eP	59 48.96	-0.9
GLI	2.17	145 eP	59 49.53	-0.6
SLKM	2.19	188 eP	59 51.70	1.2
MPA	2.19	176 eP	59 51.16	0.7
VLZ	2.20	133 eP	59 49.89	-0.7
FBA	2.38	19 ePd	59 52.14	-1.0
KNIM	2.50	158 eP	59 54.78	0.0
GLM	2.53	22 eP	59 54.44	-0.8
SEW	2.58	178 eP	59 56.99	1.2
REF	2.63	215 eP	59 57.39	0.6
LTI	2.78	161 eP	59 58.60	0.0
CVA	2.83	137 eP	59 59.09	-0.2
GLB	3.01	112 eP	00 01.26	-0.7
RAGM	3.30	132 eP	00 05.34	-0.7
BALM	3.83	112 eP	00 11.97	-1.4

44 obs. associated

? FEB 05, 1993 10h 12m 51.96±1.47s
37.933 N ±10.8km 31.405 E ±14.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

BCK	0.80	234 iPn	13 06.30	-1.3
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ALT 1.51 318 eSg 13 21.00
 KHL 1.53 285 ePn 13 19.70 0.5
 ELL 1.68 226 ePn 13 23.00 1.4
 BBTk 2.18 29 eP 13 28.50 -0.4
 DST 2.74 308 ePn 13 37.00 0.2
 S.D. = 1.2 on 6 of 6 obs.

* FEB 05, 1993 10h 27m 12.43±1.22s
 19.984 N ± 9.7km 120.921 E ±12.7km
 DEPTH = 78.5 ± 15.5 km
 4.2mb (6 obs.)

PHILIPPINE ISLANDS REGION (248)

PIP 1.67 190 iPc 27 41.00 0.6
 CVP 2.42 159 eP 27 51.00 0.3
 SZP 2.46 190 iPd 28 00.00 8.8X
 HKC 6.71 291 iP 28 49.60 -0.7
 MCO 7.20 288 eP 28 55.70 -1.4
 GZH 7.70 295 P 29 02.00 -2.0
 QIZ 10.49 267 eP 29 42.80 0.7
 NJ2 12.16 352 eP 30 04.50 0.2
 GYA 14.60 299 P 30 37.40 0.9

XAN 1.59 325 P 31 15.20 1.3
 CD2 18.91 308 Pc 31 32.20 2.4
 TIY 19.15 339 eP 31 33.00 0.6
 Z 20s 0.75um
 N 15s 0.69um

BJI 20.40 349 eP 31 44.00 -1.3
 CHG 20.76 270 eP 31 54.00 4.9X
 LZH 21.96 320 eP 32 04.50 3.3X
 Z 1.5s 22.00nm 4.3mb
 20s 0.55um 4.0msz

BTO 22.56 338 eP 32 13.20 6.2X
 GTA 26.55 321 eP 32 51.00 6.2X
 1.5s 7.00nm 4.0mb
 pP 33 01.50 39kmX

WR0 41.88 161 eP 34 55.50 -1.2
 ASPA 45.19 163 eP 35 23.70 0.2
 BRS 56.30 146 eP 37 07.00 19.5X
 KSP 83.56 322 ePd 39 37.10 4.0X
 GEC2 85.92 321 P 40 03.50 18.4X
 0.9s 1.39nm

YKA 86.92 23 eP 39 48.80 -0.8
 RSTA 169.61 242 (PKP) 47 31.00 18.9X
 SIV 175.60 26 ePKP 47 22.00 7.3X
 i 47 55.00

S.D. = 1.3 on 15 of 25 obs.

* FEB 05, 1993 10h 39m 14.47±0.55s
 57.733 S ±15.0km 29.511 W ±13.6km
 DEPTH = 33.0km (normal)
 4.8mb (4 obs.) 4.9msz (2 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

NVL 21.61 144 (P) 44 02.00 -1.0
 FRS 46.74 77 iPd 47 41.70 -0.2
 CNCB 49.84 309 P 48 06.30 -0.6
 ZOBO 50.38 309 P 48 11.30 0.3
 S 55 28.00
 LR 03 16.00

SLR 51.51 77 eP 48 08.60 -10.4X
 LIC 66.77 27 P 50 04.22 -0.3
 KIC 66.97 27 P 50 05.48 -0.3
 TIC 67.17 27 P 50 06.74 -0.4
 VTY 67.18 90 eP 50 08.20 0.8
 AVY 67.41 90 eP 50 10.20 1.3

BCAO 72.98 51 iPd 50 42.10 -0.4
 RSSD 118.84 308 PKP 58 20.00 19.7X
 Z 21s 0.15um 4.6msz
 YKA 136.56 318 ePKP 58 32.00 -1.3
 0.7s 1.50nm

GTA 142.84 97 ePKP 58 45.00 -0.6
 XAN 143.47 112 ePKP 58 45.60 -1.1

NJ2 146.46 126 PKPc 58 53.00 1.3
 TIY 148.11 112 ePKP 58 56.80 2.5X
 KLU 148.75 304 ePKP 58 59.10 4.5X
 BTO 149.07 106 ePKP 59 00.40 4.7X
 TOA 149.09 305 ePKP 59 01.40 6.4X
 TIA 149.17 120 ePKP 58 55.30 -0.6
 PMR 150.22 303 ePKP 59 03.20 6.6X
 SLKM 150.34 301 ePKP 59 02.19 5.3X
 PWA 150.58 303 ePKP 59 04.90 7.7X
 FBA 150.66 310 ePKP 59 02.17 5.0X
 CRP 151.49 302 ePKP 59 03.64 4.9X
 CP2 151.52 301 (PKP) 59 01.37 2.5
 BGL 151.59 301 ePKP 59 05.18 6.3X
 BJI 151.76 114 ePKP 59 00.00 0.4
 IMA 153.31 311 (PKP) 59 07.10 5.9X
 TTA 153.69 304 (PKP) 59 07.52 5.8X

S.D. = 1.1 on 17 of 31 obs.

% FEB 05, 1993 11h 24m 21.84±1.58s
 39.409 N ± 9.7km 16.867 E ±15.1km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

TDS 0.48 302 P 24 30.50 -1.1
 ORI 0.73 334 P 24 38.10 1.9
 MGR 1.25 306 P 24 45.00 0.0
 SOI 1.48 206 P 24 48.70 0.3
 BRT 1.49 10 P 24 47.60 -1.0
 SGO 1.66 314 P 24 51.00 -0.1

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

* FEB 05, 1993 11h 58m 15.26±0.87s
 41.587 N ±14.8km 22.020 E ±12.3km
 DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

ML 2.1 (SKO).

VAY 0.49 123 iPg 58 25.30 0.1
 SKO 0.58 312 ePg 58 27.00 0.0
 GRG 0.69 155 ePg 58 29.10 0.1
 KNT 0.79 122 iPg 58 29.88 -0.7
 SOH 1.26 127 iPg 58 38.92 0.1
 SRS 1.27 111 ePg 58 39.28 0.4
 eSg 58 54.30

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

? FEB 05, 1993 12h 10m 44.29±5.52s
 36.297 N ±46.3km 3.092 W ±11.4km
 DEPTH = 10.0km (geophysicist)

STRAIT OF GIBRALTAR (385)

mbLg 3.2 (MDD).

EGUA 0.66 325 iPg 10 56.61 -0.8
 ENIJ 0.98 46 iPg 11 02.49 -0.4
 ECOG 1.05 339 iPg 11 03.30 -0.9
 EHUE 1.57 15 ePn 11 12.16 -0.1
 EBAN 1.94 344 ePg 11 19.81 2.1
 EHOR 2.30 312 ePn 11 22.70 -0.1
 EVIA 2.38 11 ePg 11 26.82 2.7X
 AVE 4.65 231 iPg 12 28.00 31.8X
 iSg 12 39.50

S.D. = 1.4 on 6 of 8 obs.

? FEB 05, 1993 12h 29m 44.68±1.19s
 30.419 S ± 8.9km 116.828 E ±15.0km
 DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

BAL 0.21 209 iPd 29 49.10 -0.2
 MRWA 1.40 329 eP 30 10.20 0.0
 KLB 1.42 146 eP 30 10.40 -0.1

MUN 1.64 199 eS 30 28.00
 eP 30 14.00 0.3
 eS 30 34.50
 S.D. = 0.4 on 4 of 4 obs.

* FEB 05, 1993 12h 35m 12.89±1.71s
 38.338 N ±11.1km 26.820 E ±13.2km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

MD 3.1 (ISK).

IZM 0.35 80 iPg 35 20.00 -0.2
 CIN 1.24 126 eP 35 24.50 0.0
 EZN 1.53 346 ePn 35 40.20 -0.1
 DST 1.89 48 ePn 35 46.00 0.4
 BNT 2.19 23 ePn 35 50.00 0.2
 KCT 2.25 32 ePn 35 50.40 -0.3

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

? FEB 05, 1993 13h 17m 49.41±3.38s
 36.878 S ±25.3km 176.639 E ±19.6km
 DEPTH = 301.4 ± 28.3 km
 OFF E. COAST OF N. ISLAND, N.Z. (160)

URZ 1.43 165 P 18 31.70 -0.8
 HBZ 1.51 119 eP 18 32.70 -0.3
 PAHZ 2.01 171 P 18 37.30 0.6
 WHH 2.01 183 P 18 36.70 -0.1
 NOZ 2.06 148 P 18 37.30 0.2
 MOH 2.29 170 P 18 39.50 0.5
 MAHZ 2.51 157 P 18 41.40 0.5
 TTH 2.66 177 P 18 42.80 0.5
 WAHZ 2.83 184 P 18 44.10 0.1
 MNG 3.84 193 P 18 54.10 -0.3
 MTW 4.37 191 P 18 59.60 -0.6
 CAW 4.40 196 P 19 00.30 -0.3
 DIW 4.46 208 eP 19 01.40 0.2
 BLW 4.57 191 eP 19 01.70 -0.9
 MRW 4.60 199 P 19 03.00 0.1
 eS 19 55.20

MOW 4.66 193 P 19 03.00 -0.6
 ORZ 5.08 218 P 19 08.60 0.2
 THZ 5.67 210 eP 19 16.30 0.8
 KHZ 6.03 202 P 19 19.90 0.3
 DSZ 6.14 216 eP 19 20.50 -0.5
 LTZ 6.79 208 eP 19 29.30 0.4

S.D. = 0.5 on 21 of 21 obs.

? FEB 05, 1993 13h 28m 26.32±0.64s
 57.588 S ±16.4km 29.131 W ±24.1km
 DEPTH = 33.0km (normal)
 4.9mb (3 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

NVL 21.61 144 eP 33 13.00 -1.8
 1.4s 92.00nm 5.0mb
 e 33 38.00
 e 59 44.00

ZOBO 50.45 308 P 37 21.60 -1.8
 LR 54 22.00
 CSY 52.80 161 P 37 41.09 1.2
 LIC 66.55 26 P 39 15.20 0.3
 0.6s 6.50nm 4.9mb

KIC 66.75 27 P 39 16.60 0.4
 TIC 66.95 26 P 39 17.98 0.4
 BCAO 72.73 51 iPd 39 52.00 -0.8
 0.5s 5.00nm 4.8mb

LCCM 123.71 304 ePKP 47 20.90 -0.4
 DMN 125.78 94 PKP 47 24.40 -1.7
 GKN 125.84 93 PKP 47 24.00 -2.0X
 PKI 125.91 94 PKP 47 23.80 -2.6X
 KKN 126.01 94 PKP 47 23.80 -2.7X
 GUN 126.43 95 PKP 47 26.00 -1.4
 YKA 136.60 318 ePKP 47 42.70 -2.5X
 0.7s 2.40nm

GTA 142.66 97 ePKP 47 54.00 -3.1X
 NJ2 146.38 126 PKPc 48 03.00 -0.4
 SSE 146.55 130 ePKP 48 04.00 0.3
 BALM 147.07 305 (PKP) 48 03.53 -0.2
 TIY 147.97 112 ePKP 48 07.60 1.7
 KLU 148.84 304 ePKP 48 09.95 3.4X
 i 48 15.69

BTO 148.91 105 ePKP 48 10.40 3.0X
 TIA 149.07 119 ePKP 48 09.70 2.1
 TOA 149.17 305 ePKP 48 12.10 5.1X

05d 13h

HHC 149.90 107 ePKP 48 12.40 3.6X
 SLKM 150.44 301 ePKP 48 11.74 2.8X
 FBA 150.72 310 ePKPc 48 12.76 3.6X
 IMA 153.36 311 ePKP 48 15.38 2.2
 TTA 153.78 304 ePKP 48 22.20 8.5X
 S.D. = 1.4 on 16 of 28 obs.

? FEB 05, 1993 13h 42m 38.10± 2.22s
 42.425 N ± 19.7km 24.130 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)

SRS 1.37 197 ePb 43 03.20 0.0
 KNT 1.56 217 ePb 43 05.70 -0.3
 VAY 1.60 227 iPn 43 06.40 -0.1
 SOH 1.70 200 ePn 43 08.70 0.6
 GRG 1.96 222 ePn 43 10.90 -0.8
 SKO 2.05 258 ePn 43 13.40 0.4
 S.D. = 0.5 on 8 of 8 obs.

* FEB 05, 1993 13h 54m 41.35± 0.74s
 23.706 N ± 10.4km 108.101 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHEASTERN CHINA (664)
 ML 4.0 (BJI).

GYA 3.03 335 Pn 55 30.00 -0.4
 GZH 4.86 96 Pn 55 57.00 0.8
 QIZ 4.93 160 ePn 55 56.40 -0.8
 KMI 5.09 287 ePg 56 03.50 3.8X
 XAN 10.32 4 eP 57 12.00 -0.5
 GUN 20.43 287 P 59 23.40 1.4
 PKI 20.81 285 P 59 26.00 0.2
 KKN 20.95 286 P 59 26.00 -1.1
 DMN 21.08 285 P 59 30.20 1.7
 GKN 21.54 286 P 59 31.80 -1.2
 S.D. = 1.3 on 9 of 10 obs.

? FEB 05, 1993 14h 04m 55.01± 3.48s
 13.790 N ± 24.1km 122.569 E ± 26.0km
 DEPTH = 33.0km (normal)
 4.4mb (1 obs.)
 LUZON, PHILIPPINE ISLANDS (249)

PGP 1.60 260 eP 05 22.00 0.7
 TGY 1.62 281 ePd 05 21.00 -0.7
 QCP 1.67 300 eP 05 21.50 -0.9
 BAG 3.24 324 eP 05 46.00 1.1
 CVP 3.96 350 eP 05 55.00 0.0
 BJI 26.75 349 eP 10 33.00 -0.5
 S.D. = 1.0 on 6 of 6 obs.

FEB 05, 1993 14h 17m 29.78± 1.36s
 2.468 N ± 8.5km 128.349 E ± 13.0km
 DEPTH = 202.3 ± 13.4 km
 4.6mb (7 obs.)
 HALMAHERA, INDONESIA (267)

MNI 3.65 254 ePc 18 28.00 0.1
 MTN 15.46 170 eP 20 58.50 -0.4
 WR0 23.10 165 iPd 22 19.20 0.2
 ASPA 26.53 169 iPd 22 50.60 -0.2
 XAN 36.27 332 P 24 15.00 -0.4
 STK 36.40 161 iPd 24 17.00 0.5
 BRS 37.88 143 iP 24 29.00 0.0

TIY 38.00 339 eP 24 30.00 0.1
 BJI 39.00 345 eP 24 37.50 -0.5
 LZH 40.41 329 iPd 24 51.00 1.1
 HHC 41.11 341 eP 24 55.40 -0.1
 GTA 45.01 328 P 25 27.00 0.1
 GUN 47.77 306 P 25 49.20 0.1
 PKI 48.01 306 P 25 50.80 -0.1
 KKN 48.21 306 P 25 52.20 0.0
 DMN 48.27 305 P 25 53.00 0.2
 GKN 48.81 306 P 25 56.60 -0.2
 HYB 51.06 290 eP 26 13.50 -0.4
 S.D. = 0.4 on 18 of 18 obs.

FEB 05, 1993 14h 32m 23.51± 0.55s
 38.703 N ± 9.5km 67.121 E ± 6.1km
 DEPTH = 33.0km (normal)
 4.4mb (13 obs.)
 SOUTHEASTERN UZBEKISTAN (714)

KSH 6.93 81 P 34 06.20 0.7
 FRU 7.03 52 iPn 34 07.00 0.3
 KAT 8.47 277 eP 34 27.00 0.1
 QUE 8.50 181 eP 34 33.20 5.8X
 TLG 9.00 56 eP 34 32.00 -2.2
 PRZ 9.37 63 eP 34 40.00 0.5
 NDI 13.05 137 eP 35 29.00 -0.1
 BRVK 14.52 8 eP 35 43.00 -5.4X
 GRS 16.16 279 eP 36 09.00 -0.8
 WMO 16.28 65 P 36 14.00 2.7X
 GRO 16.82 293 eP 36 20.00 2.1
 GKN 18.08 121 P 36 32.80 -1.1
 KKN 18.65 120 P 36 39.40 -1.6
 DMN 18.65 121 P 36 41.00 0.0
 PKI 18.88 121 P 36 43.00 -0.9
 GUN 18.98 119 P 36 43.60 -1.5
 KIV 19.06 294 P 36 44.00 -1.7

Z 13s 0.09um
 S 40 06.90
 ELT 19.62 36 iPd 36 50.20 -1.7
 LSA 21.76 107 Pd 37 17.60 3.0X
 HYB 23.44 152 eP 37 35.00 4.2X
 GTA 25.33 78 eP 37 51.00 2.1
 GBA 26.62 157 P 38 04.00 3.2X
 MOY 26.90 50 eP 38 03.90 0.8
 ZAK 28.02 54 eP 38 14.30 1.0
 XAN 33.76 85 P 39 05.50 1.2
 TIY 35.34 77 eP 39 19.00 1.2
 BOD 35.78 42 eP 39 19.90 -1.3
 NB2 40.76 322 P 40 01.70 -1.0
 YKA 79.14 1 eP 44 25.70 -0.2
 WR0 85.91 119 iPd 45 03.20 1.7
 ASPA 88.03 123 eP 45 14.20 2.4
 S.D. = 1.4 on 25 of 31 obs.

% FEB 05, 1993 15h 41m 17.41± 0.53s
 40.499 N ± 6.6km 29.247 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

YLV 0.12 55 iPg 41 20.70 0.3
 HRT 0.45 45 eSg 41 22.80
 EYL 0.70 84 iPg 41 30.50 -0.8
 KCT 0.72 250 iPn 41 31.00 -0.7
 DST 1.01 208 iPn 41 36.80 0.2
 BNT 1.02 262 iPn 41 36.20 -0.6
 EDC 1.07 262 iPn 41 37.50 0.0
 ALT 1.59 155 ePn 41 46.50 0.8
 DMK 1.74 320 ePn 41 48.80 1.0
 S.D. = 0.7 on 9 of 9 obs.

FEB 05, 1993 17h 10m 25.08± 0.31s
 39.240 N ± 3.6km 119.547 W ± 2.8km
 DEPTH = 5.0km (geophysicist)
 NEVADA (37)
 ML 3.6 (GS), 3.9 (BRK). Felt
 (111) at Corson City and (11) at
 Reno.

KVN 1.14 99 iPd 10 46.81 -0.2
 CMB 1.37 209 iPd 10 49.31 -1.6
 ORV 1.55 282 iPd 10 52.72 -0.6
 BONR 1.61 142 eP 10 54.09 -0.5
 MEMM 1.64 163 eP 10 55.43 0.8
 MRCM 1.77 152 eP 10 57.38 0.7
 MIN 1.93 306 iPd 11 00.11 1.0
 LMEN 2.03 310 ePn 11 01.87 1.4
 MTUM 2.04 157 eP 11 08.74 0.1
 HMR 2.07 239 eP 11 02.03 1.2
 TNP 2.16 122 ePn 11 01.32 -1.1
 FRI 2.25 183 iPd 11 03.61 0.1
 ARN 2.45 220 ePn 11 06.22 -0.2
 ZSP 2.49 240 eP 11 08.24 1.4X
 BKS 2.51 238 eP 11 08.93 1.7X
 MHC 2.51 222 eP 11 07.35 0.0
 NTYM 2.58 252 ePn 11 08.26 0.1
 COE 2.59 221 ePn 11 08.38 0.0
 WDC 2.66 301 ePn 11 08.58 -0.8
 LBFM 2.76 320 ePn 11 11.66 0.6
 LLA 2.84 203 iPd 11 11.46 -0.5
 SAO 2.89 212 ePd 11 11.81 -0.8
 LGPM 3.02 305 ePn 11 14.39 -0.2
 PKEM 3.20 188 (P) 11 17.94 0.9
 TPNV 3.46 130 ePn 11 21.24 0.3
 ISA 3.67 166 (Pn) 11 25.77 2.0X
 FHC 3.75 296 ePn 11 23.45 -1.4
 BCH 4.07 186 ePn 11 32.13 2.7X
 GSC 4.50 150 eP 11 50.85 15.3X
 ARUT 5.00 105 (P) 11 42.88 0.1
 DUG 5.28 77 eP 11 46.27 -0.4
 HVU 5.75 62 eP 12 00.37 7.0X
 MSU 5.80 95 eP 11 53.13 -1.0
 PLM 6.26 159 (P) 12 01.72 1.1
 SRU 7.01 88 eP 12 11.84 0.7
 PV09 8.16 92 (P) 12 26.09 -1.2X
 PV08 8.53 91 eP 12 32.59 0.1
 S.D. = 0.8 on 30 of 37 obs.

FEB 05, 1993 17h 54m 44.09± 0.76s
 37.105 N ± 6.3km 141.238 E ± 7.2km
 DEPTH = 58.3 ± 4.8 km
 4.7mb (41 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN (228)

KAKJ 1.24 224 iPd 55 04.40 -1.1
 YAMJ 1.43 319 iPd 55 08.90 0.8
 NIJ 1.79 275 iPd 55 13.60 0.5
 OFUJ 2.00 10 iPd 55 16.60 0.6
 CHJJ 2.09 240 iPd 55 16.70 -0.6
 MAT 2.49 258 iPd 55 23.70 0.7

MTMJ	2.80	260	P	55	28.20	0.7	0.8s	26.90nm	5.4mb	e	53	57.00		
IIDJ	3.14	240	P	55	33.60	1.4	QUE	60.79 287 eP	04 52.10 -0.5	CTA	20.89 245 iPd	54 06.00	0.4	
			S	56	09.60		ASPA	60.84 188 eP	05 00.80 8.2X	RMQ	21.93 227 iPc	54 17.30	1.3	
AOMJ	3.52	349	eP	55	39.20	1.8		1.6s 9.70nm	4.7mb		0.9s 40.00nm		4.8mb	
TSRJ	4.52	251	P	55	52.70	1.1	GBA	61.08 265 Pc	04 54.00 -0.5	ARMA	22.82 214 iPd	54 26.20	1.4	
MRRJ	5.32	359	eP	56	03.10	0.4	YKA	63.82 30 eP	05 12.00 0.0		0.9s 50.00nm		4.9mb	
WKYJ	5.42	240	eP	56	03.60	-0.7		0.7s 1.00nm	3.9mb	CMS	27.08 221 iPc	55 05.00	0.2	
HOOJ	5.50	16	eP	56	04.70	-0.6	DAG	65.70 355 eP	05 24.00 0.0		0.8s 50.00nm		5.1mb	
			eS	57	03.50			0.9s 4.20nm	4.4mb	BWA	27.63 213 iPd	55 08.70	-1.1	
KUSJ	6.55	23	eP	56	18.10	-1.9	KAF	68.18 333 iP	05 39.30 -0.6	CNB	27.82 211 eP	55 11.30	-0.3	
			eS	57	26.00			0.6s 7.70nm	4.9mb		0.4s 7.00nm		4.6mb	
TKSJ	6.64	244	eP	56	20.20	-1.0	NUR	69.82 332 iP	05 49.60 -0.3	CAN	28.01 211 iPd	55 13.50	0.2	
ASAJ	7.09	8	P	56	26.30	-1.2		0.5s 5.50nm	4.7mb	WR0	31.53 251 iPc	55 44.90	0.2	
SHNJ	8.77	253	eP	56	42.80	-7.9X	KIV	70.75 311 P	05 56.80 0.7	TOO	31.55 213 iPd	55 45.20	0.5	
KUR	9.53	30	eP	57	01.80	0.7	HFS	73.97 336 eP	06 14.70 0.1	ASPA	32.90 245 eP	55 55.00	-1.6	
			eS	58	40.20			0.4s 1.30nm	4.2mb		0.7s 22.90nm		5.1mb	
KUMJ	9.69	245	eP	57	06.00	2.6	NB2	74.07 337 P	06 15.00 -0.2	BFD	32.91 216 iPc	55 56.60	0.2	
YSS	9.97	6	eP	57	04.70	-2.4		0.8s 6.40nm	4.6mb		0.4s 11.00nm		5.0mb	
KAGJ	10.41	238	eP	57	14.50	1.3	KSP	79.97 328 ePd	06 49.30 1.1	COOL	45.70 238 iPc	57 42.10	-0.7	
MDJ	11.57	314	eP	57	32.50	3.7X	CLL	80.96 330 iP	06 53.60 0.2		0.4s 14.00nm		5.2mb	
	1.2s	52.00nm					PRU	81.35 328 P	06 56.80 1.4	MEEK	47.06 245 iPc	57 53.70	0.2	
			pP	57	40.00		KHC	82.41 328 eP	07 02.00 0.9		0.5s 33.00nm		5.5mb	
CN2	13.75	304	eP	57	58.80	1.2	GEC2	82.58 328 P	07 02.40 0.4	MRWA	49.74 242 eP	58 13.70	-0.5	
	0.8s	7.70nm				4.4mb		0.5s 1.48nm	4.3mb	GUN	87.32 299 P	02 07.60	-0.3	
Z	16s	0.47um				5.0MsZ	GRF	82.94 330 ePc	07 05.30 1.5	PKI	87.63 299 P	02 09.00	-0.4	
			eP	58	12.00			1.2s 25.00nm	5.1mb	KKN	87.80 299 P	02 10.00	-0.1	
SNY	14.43	295	Pc	58	07.20	0.7	ARVI	83.45 304 eP	07 07.80 1.2	DMN	87.90 299 P	02 10.60	0.0	
SSE	17.64	256	P	58	48.00	0.7	PRNI	83.76 303 eP	07 09.40 1.1		0.6s 10.00nm		5.1mb	
	0.7s	8.00nm				4.0mb	VAY	83.90 318 iP	07 09.60 0.8	GKN	88.40 299 P	02 12.40	-0.5	
Z	20s	0.50um				4.6MsZ	SKO	84.03 319 iP	07 10.80 1.3	BCAO	147.29 259 iPKPc	09 04.00	1.6	
NJ2	19.09	261	Pc	59	02.10	-2.7	MBH	84.21 303 eP	07 11.40 0.8					
BJI	19.80	286	eP	59	10.50	-1.8	VBY	84.45 325 eP	07 12.40 1.0					
	1.4s	20.00nm				4.2mb	OHR	84.99 319 eP	07 14.70 0.4					
TIY	22.85	280	eP	59	42.60	-0.6	CDF	85.52 331 eP	07 17.30 0.4					
	20s	0.62um				4.0MsZ		1.0s 12.20nm	5.0mb					
E	15s	0.44um					BSF	86.18 331 eP	07 20.20 0.0					
WHN	23.23	262	eP	59	45.00	-1.8		0.8s 3.75nm	4.6mb					
HHC	23.32	288	Pc	59	48.60	0.9	HAU	86.21 332 eP	07 20.40 0.2					
	1.2s	16.00nm				4.3mb		0.6s 3.45nm	4.7mb					
MGD	23.82	12	eP	59	53.00	0.8	LOR	87.75 333 eP	07 28.20 0.5					
	1.0s	20.00nm				4.6mb		0.8s 4.05nm	4.7mb	KUSJ	0.57 66 iPd	25 21.40	1.4	
			e	00	37.00		LBF	87.95 332 eP	07 28.90 0.2		eS	25 33.10		
CIT	24.49	316	eP	59	57.00	-1.9		1.1s 4.90nm	4.6mb	HODJ	0.72 228 iP+	25 23.10	1.8	
BTO	24.50	288	eP	59	57.40	-1.7	FLN	87.99 336 eP	07 32.30 3.5X		eS	25 36.30		
YAK	25.95	348	iPd	00	12.10	-0.3		0.6s 3.70nm	4.8mb	ASAJ	1.60 322 iP+	25 32.60	1.0	
	1.2s	40.00nm				4.8mb	SSF	88.06 333 eP	07 29.80 0.6	MRRJ	2.21 259 iP+	25 40.60	1.0	
XAN	26.40	273	P	00	15.50	-1.4		1.1s 8.05nm	4.8mb		eS	26 06.70		
	0.6s	10.00nm				4.5mb	SMF	88.28 332 eP	07 31.10 0.8	AOMJ	3.56 231 eP	25 58.70	0.6	
BOD	27.34	328	eP	00	24.80	-0.3		0.9s 5.55nm	4.8mb		eS	26 38.20		
	0.7s	19.00nm				4.8mb	AVF	88.34 333 eP	07 31.20 0.7	OFUJ	4.18 206 eP	26 06.00	-0.5	
LZH	29.92	279	Pc	00	48.50	-0.3		1.1s 7.35nm	4.8mb		eS	26 51.80		
	1.4s	26.00nm				4.8mb	ZOBO	146.78 59 PKP	14 23.80 3.4X	YAMJ	5.58 214 eP	26 25.90	-0.1	
Z	18s	0.30um				4.0MsZ	CNCB	147.24 60 PKP	14 26.00 4.9X		eS	27 28.00		
ZAK	30.11	308	ePc	00	49.00	-1.1				NIIJ	6.80 216 eP	26 43.30	0.5	
	1.0s	10.00nm				4.5mb		S.D. = 1.1 on 83 of 89 obs.		KAKJ	7.28 205 eP	26 47.50	-1.9	
			e	03	52.00						eS	28 04.00		
GYA	31.09	260	iPd	00	57.60	-1.5		* FEB 05, 1993 18h 32m 04.62±0.79s		MAT	7.73 217 eP	26 56.00	0.4	
	0.8s	11.00nm				4.6mb		31.922 N ± 8.0km 131.243 E ±11.7km			0.7s 4.79nm		4.2mb	
			S	06	00.80			DEPTH = 10.0km (geophysicist)			eS	28 21.00		
CD2	31.53	270	eP	01	01.40	-1.5		3.9mb (2 obs.)		CHJJ	7.83 211 eP	26 56.40	-0.5	
GTA	32.41	287	eP	01	09.00	-1.5		KYUSHU, JAPAN (235)			eS	28 20.40		
	1.0s	8.00nm				4.5mb				CN2	13.54 280 eP	28 12.20	-1.0	
			PcP	03	58.00						0.8s 5.80nm		4.1mb	
KMI	34.83	261	Pd	01	30.00	-1.7		KUMJ	0.70 330 iP+	32 18.50 0.0				
	1.5s	50.00nm				5.2mb			S	32 28.30				
TIK	35.19	353	eP	01	32.00	-1.9		KAGJ	0.79 203 iP+	32 21.00 1.0	BJI	21.01 272 eP	29 40.00	-1.3
	1.0s	9.00nm				4.7mb			S	32 32.00			4.4mb	
ILT	38.04	23	iPd	01	57.40	-0.6		SHNJ	2.20 357 eP	32 41.20 -0.5	TIA	21.71 261 eP	29 47.00	-1.4
	1.2s	10.00nm				4.6mb	TKSJ	3.13 48 P	32 55.80 0.9	HHC	24.17 276 eP	30 12.80	0.4	
			e	02	13.00		WKYJ	4.31 57 P	33 11.30 -0.5		1.0s 21.00nm		4.5mb	
WMO	40.68	297	P	02	21.20	0.9	ASPA	55.33 177 eP	41 39.10 -1.8	TIY	24.54 269 eP	30 17.60	1.7	
	1.0s	34.00nm				5.1mb		0.7s 3.20nm	4.5mb	BTO	25.37 277 eP	30 24.00	0.3	
ELT	40.90	311	iPc	02	21.80	0.0	YKA	72.27 26 eP	43 32.60 0.9	XAN	28.68 264 P	30 53.60	-0.2	
	0.8s	30.00nm				5.1mb		0.8s 0.30nm	3.4mb		0.6s 5.00nm		4.3mb	
LSA	42.06	275	iPd	02	32.60	0.4		S.D. = 1.2 on 7 of 7 obs.		LZH	31.50 271 Pd	31 19.20	0.4	
	1.6s	28.00nm				4.8mb					1.2s 30.00nm		4.9mb	
GUN	47.01	275	P	03	12.00	0.2		* FEB 05, 1993 20h 49m 27.09±1.51s		GTA	33.17 279 eP	31 32.50	-0.8	
PKI	47.53	275	P	03	15.80	-0.1		12.036 S ± 8.8km 166.353 E ±12.4km			1.0s 6.00nm		4.4mb	
	0.8s	20.00nm				5.1mb		DEPTH = 73.0 ± 11.8 km		CD2	34.02 263 eP	31 40.60	0.0	
KKN	47.54	276	P	03	15.80	0.0		5.1mb (9 obs.)			0.6s 16.00nm		5.0mb	
DMN	47.76	276	P	03	17.60	0.0		SANTA CRUZ ISLANDS (184)		KMI	38.08 256 Pc	32 16.00	0.9	
GKN	47.96	276	P	03	19.00	0.0				WMO	40.28 291 P	32 32.50	-0.5	
KSH	50.26	294	P	03	37.60	1.1		BKM	5.89 162 iP	50 54.20 0.4	IMA	40.69 34 eP	32 35.24	-0.9
	0.4s	10.00nm				5.2mb			iS	52 28.00			4.6mb	
WR0	57.11	188	iPc	04	26.10	-0.7		SVO	7.04 293 eP	51 10.00 0.4	CRP	41.40 41 eP	32 42.81	0.7
			iP	04	40.80	54kmX		DZM	9.98 180 iPc	51 48.90 -1.2	FBA	43.15 35 eP	32 56.16	0.1
HYB	58.06	268	ePc	04	33.00	-0.8			iS	53 35.20			4.9mb	
							BRS	19.89 218 iP	53 47.00 -8.3X	CHG	44.83 252 eP	33 18.53	94km	
												33 10.80	0.7	

05d 21h

BALM 46.15 40 eP 33 20.01 -0.2
 GUN 48.76 272 P 33 41.00 -0.3
 0.6s 28.00nm 5.4mb
 KKN 49.27 272 P 33 45.20 0.1
 PKI 49.29 272 P 33 45.80 0.4
 DMN 49.50 272 P 33 46.40 -0.5
 GKN 49.62 273 P 33 47.20 -0.5
 RES 56.46 16 eP 34 37.00 -0.5
 0.5s 7.00nm 5.0mb

YKA 57.80 33 eP 34 45.50 -1.5
 0.8s 1.70nm 4.1mb
 CTA 62.67 178 iPd 35 20.00 -0.5
 1.0s 30.00nm 5.2mb
 GBA 63.72 264 P 35 27.00 -0.7
 NEW 64.63 47 eP 35 33.00 -0.3
 1.0s 5.00nm 4.4mb

ORV 67.33 57 eP 35 50.00 -0.6
 DZM 67.84 158 iPc 35 55.00 1.1
 LCCM 68.94 47 eP 36 00.90 0.2
 RMO 69.15 175 iPd 36 12.20 10.5X
 0.7s 71.00nm
 BRS 70.37 172 iPd 36 14.00 4.8X
 TNP 70.87 56 eP 36 13.39 0.8
 0.6s 2.04nm 4.1mb

BW06 72.21 48 iPc 36 19.86 -0.7
 0.5s 2.33nm 4.3mb
 ARMA 73.26 173 eP 36 44.60 96km
 1.1s 37.00nm 19.6X
 RSSD 74.20 44 eP 36 31.70 -0.4
 0.6s 1.81nm 4.1mb

PV10 75.49 51 ePc 36 40.15 0.6
 eP 37 05.28 96km
 PV08 75.58 51 eP 36 40.51 0.3
 SIV 145.70 46 PKP 44 38.00 5.0X
 S.D. = 0.9 on 46 of 50 obs.

FEB 05, 1993 21h 31m 35.84 ± 1.14s
 6.630 S ± 9.7km 154.832 E ± 6.7km
 DEPTH = 71.7 ± 11.5 km
 4.9mb (6 obs.)

SOLOMON ISLANDS (193)

SVO 5.53 117 eP 32 57.00 -0.6
 HNR 5.78 119 eP 33 02.00 1.0
 eS 34 12.00
 LAT 7.78 269 eP 33 27.60 -1.0
 PMG 8.08 250 eP 33 33.00 0.2
 WR0 23.74 234 iPd 36 45.00 2.5
 i 40 30.10

CMS 26.12 198 eP 37 04.50 -0.5
 ASPA 26.30 228 eP 36 55.50 -11.2X
 1.3s 6.70nm
 Z 21s 0.50um 4.0msz
 i 37 06.50

STK 28.00 205 eP 37 21.70 -0.3
 0.6s 7.20nm 4.5mb
 WARB 33.17 231 eP 38 07.40 -0.4
 0.4s 13.00nm 5.1mb
 KLB 42.59 229 eP 39 26.00 -0.6
 MRWA 42.93 234 eP 39 29.40 0.0
 MUN 43.94 230 eP 39 37.00 -0.6
 KMI 59.68 304 eP 41 36.00 0.3
 1.0s 30.00nm 5.4mb

p 41 45.00 29kmX
 CHG 60.60 296 eP 41 42.00 0.2
 LZM 63.94 316 eP 42 05.50 1.5
 1.4s 13.00nm 4.7mb
 GUN 74.79 301 P 43 11.00 0.1
 0.6s 12.00nm 5.0mb

PKI 75.10 301 P 43 13.00 0.3
 KKN 75.27 301 P 43 13.40 -0.1
 DMN 75.37 301 P 43 14.20 0.1
 GKN 75.87 301 P 43 16.80 -0.1
 HYB 79.00 289 eP 43 33.50 -0.6
 YKA 96.09 28 eP 44 55.00 -1.4
 0.7s 2.40nm 4.8mb
 BAO 148.37 135 (PKP) 51 20.00 6.9X
 S.D. = 0.9 on 21 of 23 obs.

* FEB 05, 1993 22h 34m 38.62 ± 1.16s
 38.392 N ± 17.2km 29.276 W ± 10.4km
 DEPTH = 10.0km (geophysicist)
 4.3mb (11 obs.)

AZORES ISLANDS (405)
 Felt (IV) at Copelo, Praia do
 Norte and Ribeira do Cabo; (III)

at Castelo Branco, Horto,
 Ribeirinho and Saloo, Foial.
 Felt (II) throughout the western
 part of Pico.

CALA 0.49 67 iPd 34 49.00 0.4
 eS 34 54.50
 HOR 0.52 75 iPd 34 49.90 0.7
 iS 34 56.20
 PICO 0.68 80 iPd 34 52.80 0.7
 eS 35 00.90

ADH 1.62 80 eP 35 05.20 -2.1
 iS 35 22.70
 PDA 2.92 102 iPd 35 25.30 -0.7
 eS 35 58.50
 LPF 22.61 56 eP 39 41.10 0.6
 0.9s 5.40nm 4.0mb

MFF 22.89 60 eP 39 44.50 1.1
 0.9s 5.55nm 4.1mb
 TCF 24.45 61 eP 39 59.10 0.5
 1.2s 20.85nm 4.6mb
 MAF 24.69 61 eP 40 01.20 0.4
 0.8s 3.65nm 4.1mb
 BGF 24.93 61 eP 40 03.10 0.0
 0.9s 10.95nm 4.5mb

AVF 25.30 60 eP 40 06.30 -0.3
 1.2s 11.30nm 4.4mb
 SSF 25.44 60 eP 40 07.70 -0.3
 0.9s 3.30nm 4.0mb
 SMF 25.62 61 eP 40 09.70 0.1
 1.3s 20.20nm 4.7mb
 LPL 27.54 63 eP 40 26.30 -1.2
 1.8s 29.35nm 4.7mb

LPG 27.55 63 eP 40 26.50 -1.2
 0.6s 1.25nm 3.8mb
 BCAO 54.99 116 ePd 44 14.10 1.5
 1.0s 5.00nm 4.5mb
 BJI 95.77 26 eP 48 06.00 -0.2
 S.D. = 1.0 on 17 of 17 obs.

FEB 05, 1993 22h 57m 23.54 ± 0.58s
 29.248 N ± 10.5km 100.779 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 3.9mb (1 obs.)

SICHUAN, CHINA (307)
 ML 3.6 (BJI).

CD2 3.07 57 iPdnd 58 13.10 0.1
 KMI 4.46 157 ePn 58 33.00 0.0
 Pg 58 41.50
 Sn 59 28.50
 GYA 5.90 117 Pn 58 53.20 -0.1
 LZM 7.29 20 ePg 59 35.00 22.2X
 1.2s 25.00nm

XAN 8.42 53 P 59 32.50 3.9X
 GUN 13.16 268 P 00 34.20 0.7
 PKI 13.63 267 P 00 39.60 -0.1
 KKN 13.71 268 P 00 40.80 0.3
 DMN 13.89 267 P 00 43.60 0.6
 GKN 14.23 269 P 00 46.00 -1.4
 WR0 58.77 142 eP 07 20.50 -3.8X
 GEC2 66.77 314 P 08 17.10 -0.2
 0.6s 0.55nm 3.9mb
 S.D. = 0.7 on 9 of 12 obs.

FEB 05, 1993 23h 00m 32.70 ± 0.92s
 43.415 N ± 5.6km 5.414 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.5 (STR).

GELF 0.03 162 Pg 00 34.56 -0.2
 TREF 0.21 354 Pg 00 36.81 -0.5
 BERF 0.23 117 Pg 00 37.79 0.2
 PUYF 0.24 61 Pg 00 37.04 -0.8
 CDR 0.37 45 e(Pg) 00 39.10 -1.1
 i 00 39.60
 PRAF 0.43 336 Pg 00 41.47 0.0
 TAYF 0.51 66 Pg 00 42.45 -0.6
 GANF 0.68 31 Pg 00 46.17 -0.1
 CALN 1.12 72 Pg 00 54.27 0.4
 TOUF 1.46 65 Pn 00 59.88 0.6
 AURF 1.47 71 Pn 01 00.13 0.8
 Sg 01 18.90

SBF 1.53 72 Pn 01 00.25 0.0
 AUTN 1.57 68 Pn 01 01.63 0.7
 Sg 01 22.56

SAOF 1.65 69 Pn 01 01.72 -0.2
 DOI 1.71 50 Pn 01 05.00 2.2
 eSn 01 26.50
 CKI 2.30 63 P 01 11.00 -0.3
 eSn 01 42.00
 PGF 2.77 107 Pn 01 16.82 -1.2
 S.D. = 0.9 on 17 of 17 obs.

& FEB 05, 1993 23h 49m 50.65s
 60.129 N 140.909 W
 DEPTH = 9.0km
 SOUTHEASTERN ALASKA (19)
 <AEIC>. ML 2.8 (AEIC), 3.0
 (PGC).

PCA 0.33 95 iP 49 58.00 0.6
 YAH 0.48 300 iP 49 59.96 -0.4
 S 50 08.26
 BCPM 0.66 105 iP 50 03.06 -0.9
 iS 50 13.81
 CYK 0.79 267 eP 50 05.43 -0.7
 eS 50 17.47

CTGM 0.86 346 eP 50 06.14 -1.4
 PNL 0.89 121 iP 50 06.55 -1.3
 eS 50 19.93
 SNH 0.97 274 eP 50 08.01 -1.1
 eS 50 22.74
 TGL 1.14 304 iP 50 10.79 -1.4
 BALM 1.15 323 iP 50 10.79 -1.6
 eS 50 27.15

HON 1.23 123 eP 50 11.72 -1.9
 eS 50 29.25
 CROM 1.27 301 eP 50 12.44 -2.1
 eS 50 31.34
 KAIM 1.77 265 eP 50 20.61 -1.1
 HYT 1.83 66 Pn 50 22.50 -0.1
 Sg 50 49.00

RAGM 1.90 279 eP 50 22.25 -1.2
 GLB 1.94 314 eP 50 22.99 -1.2
 eS 50 47.80
 CVA 2.44 282 eP 50 29.48 -1.8
 HIN 2.80 278 eP 50 37.05 0.6
 KLU 2.81 301 eP 50 35.21 -1.4
 VLZ 2.86 293 eP 50 37.73 0.6
 VZW 2.94 291 eP 50 36.70 -1.7
 GLI 3.15 287 eP 50 42.07 0.7
 SDG 3.28 319 eP 50 43.20 -0.1

SCM 3.56 301 eP 50 47.13 -0.2
 KNK 3.92 292 eP 50 52.78 0.5
 PMR 4.28 294 (P) 50 59.00 1.6
 SLKM 4.65 279 eP 51 05.50 2.9
 26 obs. associated

* FEB 06, 1993 00h 54m 28.12 ± 2.09s
 43.806 N ± 6.7km 128.345 W ± 20.9km
 DEPTH = 10.0km (geophysicist)
 3.9mb (5 obs.)
 OFF COAST OF OREGON (30)

FHC 4.41 131 eP 55 35.99 -0.7
 BMW 4.50 52 iPc 55 37.19 -0.7
 ORV 6.65 127 eP 56 08.52 0.2
 ARN 8.27 139 eP 56 28.79 -2.2
 CMB 8.34 131 ePc 56 31.60 -0.3
 NEW 8.99 56 iPd 56 39.16 -1.8
 MEMM 9.41 127 (P) 56 47.13 0.5
 BONR 9.59 124 (P) 56 49.44 0.0

LCCM 11.87 74 eP 57 21.10 0.6
 GSC 12.30 130 (P) 57 26.69 0.5
 SES 13.49 55 eP 57 42.00 0.0
 pP 57 55.00
 BW06 13.73 88 eP 57 45.33 0.0
 0.9s 2.83nm 4.2mb

PV09 15.40 104 eP 58 08.32 1.0
 PV10 15.52 104 (P) 58 09.21 0.4
 PV08 15.71 103 (P) 58 12.37 1.0
 RSSD 17.49 81 eP 58 33.84 0.0
 1.2s 10.72nm 3.9mb
 GOL 17.61 96 eP 58 34.44 -0.9
 0.8s 5.16nm 3.7mb
 GLD 17.70 95 (P) 58 39.55 3.2X
 1.6s 42.17nm 4.3mb

YKA 20.37 18 eP 59 07.70 0.5
 0.8s 3.40nm 3.7mb
 ULM 22.93 62 eP 59 36.50 3.4X
 MEO 24.62 101 iPd 59 51.60 1.9
 FCC 25.77 42 eP 00 05.00 4.7X

S.D. = 1.0 on 19 of 22 obs.
 FEB 06, 1993 01h 03m 04.72±0.81s
 39.474 N ± 7.2km 16.792 E ± 9.1km
 DEPTH = 33.0km (normal)
 SOUTHERN ITALY (390)

TDS 0.40 298 Pc 03 12.30 -1.5
 ORI 0.64 336 P 03 17.10 -0.3
 MGR 1.16 305 P 03 26.30 1.6
 LCI 1.24 46 P 03 27.00 1.2
 BRT 1.44 13 Pc 03 28.70 0.0
 SOI 1.51 203 P 03 30.20 0.4
 SGO 1.57 314 P 03 32.90 2.3
 BAI 1.64 2 P 03 32.00 0.4
 ATN 1.67 219 P 03 31.20 -0.9
 MNO 2.25 227 P 03 40.70 0.1
 OHR 3.47 61 ePn 03 57.50 -0.3
 VBY 6.13 350 iPnd 04 34.90 -0.4
 GEC2 9.63 348 Pn 05 21.50 -2.6
 0.5s 0.38nm 3.9mb X
 S.D. = 1.4 on 13 of 13 obs.

FEB 06, 1993 01h 05m 43.72±0.49s
 31.177 N ± 10.1km 141.734 E ± 6.3km
 DEPTH = 35.1km (6 depth phases)
 4.6mb (15 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT 6.10 332 eP 07 14.00 0.1
 0.5s 36.62nm 5.3mb X
 CN2 18.01 319 eP 08 15.00 -0.3
 1.2s 36.00nm 4.4mb
 Z 15s 0.65um 4.7msz
 SNY 18.02 311 Pd 09 52.00 -0.2
 1.1s 27.00nm 4.3mb
 Z 18s 0.59um
 BJI 22.52 300 eP 10 41.00 -0.6
 1.2s 33.00nm 4.7mb
 WHN 23.50 276 P 10 53.50 2.3
 TIY 24.96 293 eP 11 06.00 0.5
 Z 16s 0.71um 4.3mszX
 E 15s 0.66um
 HHC 26.13 300 eP 11 16.40 0.0
 BTO 27.24 299 eP 11 26.00 -0.5
 XAN 27.72 285 iPc 11 30.50 -0.4
 0.6s 10.00nm 4.7mb
 LZH 31.79 289 eP 12 06.00 -1.3
 1.4s 18.00nm 4.7mb
 IRK 34.44 319 ePc 12 32.00 2.1
 Z 14s 0.25um 4.1mszX
 e 13 02.80 141kmX
 LR 27 54.00
 GTA 34.93 295 eP 12 33.00 -1.5
 1.0s 5.00nm 4.4mb
 CHG 40.45 263 eP 13 20.80 0.0
 WMO 43.97 302 P 13 50.00 0.7
 1.5s 110.00nm 5.4mb
 GUN 48.27 281 P 14 23.60 -0.3
 PKI 48.77 281 P 14 27.60 -0.1
 KKN 48.81 281 P 14 27.80 -0.1
 0.8s 16.00nm 5.1mb
 DMN 49.02 281 P 14 28.00 -1.5
 GKN 49.29 282 P 14 31.60 0.1
 ASPA 55.05 189 iPc 15 13.90 -0.5
 0.4s 9.10nm 5.2mb
 GBA 61.20 269 P 15 58.00 0.4
 MAIO 66.60 299 iPd 16 34.60 1.7
 YKA 68.76 29 eP 16 44.20 -1.7
 1.3s 2.50nm 4.1mb
 NEW 74.19 43 eP 17 17.50 -1.1
 1.0s 8.00nm 4.7mb
 SES 76.51 39 eP 17 32.00 0.2
 LCCM 78.51 43 eP 17 42.90 -0.2
 HFS 79.54 336 eP 17 48.00 -0.2

NB2 0.5s 1.20nm 4.1mb
 79.69 338 P 17 48.60 -0.5
 0.7s 4.00nm 4.5mb
 BW06 81.60 45 eP 17 59.05 -0.7
 0.7s 1.97nm 4.2mb
 OJC 84.06 327 eP 18 16.20 4.3X
 e 18 27.30 36km
 PV09 84.32 48 eP 18 14.22 0.3
 PV10 84.46 48 eP 18 15.19 0.7
 PV08 84.59 48 eP 18 16.46 1.2
 GLD 86.02 45 (P) 18 23.46 1.2
 1.1s 9.94nm 5.0mb
 CLL 86.31 331 e(P) 18 37.00 13.9X
 KHC 87.67 329 eP 18 36.00 6.1X
 e 18 46.00 31km
 GEC2 87.83 329 P 18 47.40 16.7X
 1.0s 1.98nm
 SIV 154.28 59 ePKP 25 36.00 2.3X
 e 26 00.00
 S.D. = 1.0 on 33 of 38 obs.

FEB 06, 1993 01h 14m 08.29±0.30s
 41.257 N ± 3.4km 19.627 E ± 2.8km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 3.6 (TTG). MD 3.7 (ATH).

ULC 0.76 338 iPg 14 23.14 0.0
 iSg 14 39.35
 OHR 0.90 99 iPg 14 25.50 0.0
 iSg 14 36.70
 Lg 14 42.20
 BDV 1.19 330 iPg 14 30.19 -0.2
 iSg 14 53.42
 TTG 1.20 347 iPg 14 30.39 -0.3
 iSg 14 53.84
 PVY 1.36 11 iPnc 14 33.92 0.5
 iSn 14 57.80
 HCY 1.46 325 iPnc 14 35.05 0.4
 iSn 15 00.08
 SKO 1.54 62 ePn 14 33.60 -2.2
 0.3s 754.00nm
 i 14 37.20
 i 14 39.30
 iSg 14 57.80
 Lg 15 00.50
 KEK 1.55 175 ePb 14 36.40 0.5
 LCI 1.57 235 P 14 35.80 -0.4
 NKY 1.62 343 iPnd 14 38.04 0.9
 iSn 15 04.60
 IVA 1.63 7 iPnd 14 37.65 0.5
 iSn 15 04.79
 BRY 1.83 334 iPnc 14 41.23 1.1
 iSn 15 09.67
 BRT 1.87 259 P 14 42.60 2.0
 eSn 15 06.10
 KZN 1.88 120 ePb 14 42.50 1.6
 PLE 2.08 355 iPnd 14 44.32 0.6
 iSn 15 15.67
 BAI 2.09 267 P 14 45.20 1.5
 VAY 2.22 87 iPn 14 45.60 -0.1
 iSn 15 13.30
 Lg 15 22.50
 KKB 2.66 76 iPd 14 53.00 1.0
 ORI 2.70 245 P 14 53.10 0.6
 eSn 15 25.30
 TDS 2.97 239 P 14 56.90 0.5
 VTS 2.99 62 iPd 14 58.00 1.3
 HVAR 3.04 310 iPn 14 58.10 0.8
 MMB 3.10 83 iPc 14 58.00 -0.2
 VLS 3.16 166 ePn 14 57.50 -1.6
 MGR 3.29 251 P 15 02.20 1.3
 eSn 15 38.30
 SGO 3.35 259 P 15 02.50 0.8
 eSn 15 39.90
 GRI 3.46 226 P 15 02.94 -0.4
 BEO 3.61 9 ePn 15 07.00 1.6
 PGB 3.63 68 iPd 15 06.00 0.3
 RZN 3.85 82 iPd 15 59.00 50.0X
 PLD 3.90 76 iP 15 10.00 0.5
 SOI 4.21 222 P 15 12.70 -1.2
 GMB 4.24 224 P 15 13.92 -0.5
 RFI 4.25 272 P 15 16.71 2.2
 SDI 4.39 278 P 15 18.30 1.8
 eSn 16 07.20
 ATN 4.46 227 P 15 15.70 -1.8
 eSn 16 05.50

RDO 4.46 89 ePn 15 17.00 -0.5
 PVL 4.67 63 eP 15 19.00 -1.4
 AQU 4.78 285 P 15 23.10 1.0
 eSn 16 15.50
 VLI 5.21 149 ePn 15 28.00 -0.2
 VBY 5.31 325 iPnc 15 30.00 0.5
 eSn 16 30.70
 PTJ 5.35 331 iP 15 30.40 0.2
 ARV 5.43 297 P 15 31.00 -0.3
 eSn 16 30.90
 ASS 5.48 292 P 15 32.60 0.5
 eSn 16 32.30
 MEU 5.53 223 P 15 29.10 -3.6X
 eSn 16 30.40
 RIY 5.59 319 eP 15 33.70 0.2
 CEY 5.86 322 ePn 15 38.00 0.7
 eSn 16 45.00
 RSM 5.93 299 P 15 38.60 0.4
 CRE 6.15 295 P 15 41.60 0.1
 eSn 16 48.10
 TRI 6.16 318 ePn 15 39.40 -2.1
 eSn 16 48.70
 e 17 29.30
 eRRSg 17 41.00
 VOY 6.33 321 iPnd 15 43.90 -0.1
 eSn 16 55.30
 RBL 6.78 322 P 15 50.60 0.3
 VVI 7.04 315 P 15 53.20 -0.7
 FVI 7.27 319 P 15 56.40 -0.6
 eSn 17 16.80
 CTI 7.51 312 P 15 59.20 -1.3
 eSn 17 21.40
 BOB 8.24 299 P 16 10.50 -0.3
 KHC 8.95 334 eP 16 32.00 11.4X
 e 17 35.00
 ORO 9.53 301 P 16 26.10 -2.5
 LPG 10.29 299 Pn 16 34.90 -4.3X
 Sn 18 14.30
 LPL 10.30 299 Pn 16 36.90 -2.5
 Sn 18 12.40
 BSF 11.27 310 Pn 16 50.50 -1.9
 Sn 18 49.70
 CDF 11.31 313 Pn 16 50.30 -2.7
 S.D. = 1.2 on 58 of 62 obs.

& FEB 06, 1993 01h 20m 48.50s
 36.119 N 117.887 W
 DEPTH = 3.1km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <PAS-P>. ML 2.8 (PAS). 2.9 (GS).

ISA 0.66 226 iPc 21 01.02 -0.6
 eS 21 09.99
 GSC 1.20 132 ePn 21 10.03 -1.5
 MTUM 1.35 336 eP 21 12.76 -1.4
 eS 21 30.63
 TPNV 1.56 57 eP 21 15.54 -1.8
 MEMM 1.76 332 iPd 21 20.55 0.5
 eS 21 42.55
 BONR 1.86 350 ePn 21 20.87 -1.0
 TNP 2.03 15 ePn 21 22.69 -1.5
 ePg 21 25.65
 PHAM 2.06 263 eP 21 23.59 -0.8
 PEC 2.30 165 ePn 21 26.98 -1.0
 CMB 2.77 314 eP 21 36.41 1.8
 eS 22 11.65
 KVN 2.93 357 ePg 21 41.84 4.8
 ARN 3.18 294 ePn 21 40.58 0.2
 12 obs. associated

* FEB 06, 1993 01h 44m 01.74±0.99s
 50.362 N ± 13.9km 18.866 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 2.9 (WAR).

RAC 0.51 237 eP 44 12.00 -0.1
 iS 44 19.80
 OJC 0.61 103 iPg 44 14.30 0.2
 iSg 44 24.00
 SPC 1.48 142 ePn 44 28.20 -0.3
 e(Sg) 44 49.20
 KSP 1.71 287 ePn 44 31.80 0.1
 iPg 44 34.20
 iSg 44 57.70
 VRAC 1.81 235 ePn 44 34.20 1.1
 0.7s 54.10nm

06d 01h

ZST 2.46 209 iSg 44 57.60
eP 44 58.80 16.4X
51 55.20
PRU 2.81 264 eP 44 47.50 0.1
ePg 44 56.80
e 45 23.50
eSg 45 29.00
BRG 3.18 281 iPg 45 02.00 9.3X
iSg 45 43.00
KHC 3.64 252 ePn 44 58.50 -0.9
e 45 10.40
e 45 40.50
Sg 45 55.20
S.D. = 0.7 on 7 of 9 obs.

& FEB 06, 1993 02h 09m 45.50s
36.660 N 89.730 W
DEPTH = 7.0km
NEW MADRID, MISSOURI REGION (486)
<SLM-P>. MD 3.5 (SLM), 3.5
(TEIC). mbLg 3.4 (GS), 3.3
(TUL). Felt (IV) at Sikeston;
(III) at Grayridge, Lilbourn,
Matthews and Pardo; (II) at
Coruthersville and East Prairie.
Also felt at New Madrid. Felt
(IV) in the Bagot-Miston-
Ridgely area, Tennessee.

NMNO 0.16 117 iPc 09 49.66 0.7
DWM 0.24 53 iPd 09 50.77 0.3
eS 09 54.19
LDNO 0.28 152 iPc 09 51.61 0.3
OGTN 0.31 141 iPc 09 52.01 0.2
BBTN 0.35 141 iPc 09 53.47 0.9
ACTN 0.46 133 iPc 09 54.47 -0.3
GRT 0.47 148 iPd 09 54.63 -0.2
HATI 0.48 175 ePc 09 54.50 -0.7
S 10 00.36
CRU 0.57 96 iPc 09 56.16 -0.9
eS 10 03.75
DRTN 0.60 150 iPc 09 57.11 -0.4
eS 10 05.29
UTMA 0.71 121 ePd 09 59.18 -0.5
eS 10 09.17
ELC 0.74 33 ePd 09 58.88 -1.4
WGAR 0.89 205 ePd 10 02.28 -0.5
S 10 14.46
LRDO 1.04 229 ePd 10 04.62 -0.8
eS 10 19.35
GOIL 1.12 55 ePd 10 05.05 -1.6
S 10 19.51
FVM 1.43 337 ePc 10 11.02 -0.9
eS 10 29.92
AFAR 1.55 251 iPd 10 13.24 -0.2
eS 10 34.28
NHIL 1.77 44 ePc 10 16.23 -0.5
S 10 39.90
BPIL 1.79 30 ePc 10 16.81 -0.1
S 10 39.96
OLY 1.82 231 ePd 10 16.93 -0.6
(S) 10 40.27
LGAR 2.14 201 eP 10 20.93 -1.2
MIAR 3.78 237 ePn 10 43.91 -1.5
ePg 10 52.27
S 11 41.52
GBTN 4.57 101 ePn 10 54.23 -2.5
eLg 12 02.92
UYO 4.59 239 iPc 10 55.00 -2.0
TKL 4.92 100 (Pn) 10 58.93 -2.7
FNO 6.38 260 iPc 11 19.30 -2.9
PRM 6.54 111 (P) 11 20.58 -4.0
eLg 13 05.65
JSC 7.31 106 ePn 11 35.02 -0.2
eLg 13 28.71
MEO 7.44 258 iPc 11 32.10 -5.0
ACO 7.57 273 e(P) 11 34.80 -4.1
WMOK 7.61 258 ePn 11 34.55 -4.9
eLg 13 46.39
31 obs. associated

? FEB 06, 1993 02h 14m 08.91 ± 5.66s
41.309 N ± 30.2km 19.720 E ± 39.3km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
FNA 1.36 112 iPb 14 34.64 0.7

IGT 1.83 165 eSb 14 55.70
ePn 14 41.08 0.4
eSn 15 08.20
GRG 2.06 99 ePn 14 44.36 0.4
eSn 15 13.30
KNT 2.40 92 ePn 14 48.96 0.1
eSn 15 21.10
LIT 2.43 119 ePn 14 49.08 -0.2
THE 2.55 104 ePn 14 50.92 0.0
SOH 2.79 99 ePn 14 54.44 0.0
SRS 2.93 92 iPn 14 56.04 -0.3
eSn 15 32.97
AGG 3.04 138 ePn 14 57.28 -0.6
eSn 15 38.00
PAIG 3.31 113 ePn 15 01.60 -0.3
S.D. = 0.4 on 10 of 10 obs.

* FEB 06, 1993 02h 36m 47.10 ± 1.10s
39.810 N ± 16.8km 25.697 E ± 6.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.9 (ISK).

EZN 0.48 88 iPg 36 55.50 -1.4
iSg 37 03.00
ALN 1.12 14 eP 37 07.04 -1.0
OUR 1.42 292 eP 37 11.86 -1.0
PAIG 1.56 275 eP 37 14.36 -0.5
EDC 1.75 71 ePn 37 19.50 1.9
BNT 1.79 72 ePn 37 19.00 0.7
SOH 2.06 380 eP 37 23.76 1.6
DST 2.27 94 ePn 37 25.00 -0.3
S.D. = 1.5 on 8 of 8 obs.

FEB 06, 1993 02h 44m 36.04 ± 0.33s
39.760 N ± 3.7km 19.685 E ± 2.7km
DEPTH = 6.9 ± 2.5 km
3.5mb (3 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 4.0 (ATH), 3.8 (ROM), 3.5
(TTG).

KEK 0.10 118 iPg 44 36.70 -1.7
IGT 0.55 114 ePg 44 47.30 0.2
eSg 44 58.80
LCI 1.45 294 P 45 02.50 -0.1
eSn 45 24.10
OHR 1.60 32 iPn 45 06.60 1.8
i 45 10.30
iSg 45 33.00
Lg 45 35.50
FNA 1.65 51 ePb 45 06.10 0.5
iSb 45 32.80
KZN 1.69 71 ePb 45 07.20 1.0
eSb 45 31.20
VLS 1.73 156 ePb 45 06.50 -0.2
eSb 45 31.20
AGG 2.18 109 ePn 45 13.92 0.7
eSn 45 44.80
LIT 2.18 80 ePn 45 13.56 0.2
eSn 45 45.44
BRT 2.20 301 P 45 14.70 1.1
eSn 45 45.60
ULC 2.23 352 iPnc 45 14.48 0.6
iSn 45 45.66
GRG 2.39 59 ePn 45 16.24 -0.1
ORI 2.51 278 P 45 19.10 1.2
eSn 45 50.60
BAI 2.54 303 P 45 19.00 0.6
SKO 2.58 30 iPn 45 19.70 0.8
i 45 23.40
iSg 45 57.00
Lg 46 12.70
TDS 2.58 269 P 45 20.60 1.6
BDV 2.60 346 iPnd 45 19.41 0.2
iSn 45 53.41
TTG 2.69 353 iPnc 45 20.98 0.6
iSn 45 56.34
VAY 2.70 54 iPn 45 21.30 0.7
GRI 2.70 251 P 45 20.76 0.0
KNT 2.82 59 ePn 45 22.12 -0.3
iSn 46 02.00
HCY 2.83 342 iPnc 45 22.44 -0.1
iSn 45 58.61
PVY 2.84 4 iPnc 45 24.33 1.6
iSn 46 01.21
SOH 3.00 68 ePn 45 24.84 -0.1

PAIG 3.08 86 ePn 45 26.10 0.1
NKY 3.09 351 iPnc 45 27.18 0.9
iSn 46 05.78
IVA 3.11 3 iPnd 45 28.06 1.5
iSn 46 07.88
MGR 3.20 278 P 45 29.90 2.2
BRY 3.25 345 iPnc 45 28.39 -0.2
iSn 46 09.34
SRS 3.28 64 ePn 45 29.24 0.4
SOI 3.30 240 P 45 28.70 -0.4
eSn 46 06.00
GMB 3.38 243 P 45 30.29 -0.1
SGO 3.45 285 P 45 32.80 1.6
PLE 3.57 357 ePn 45 34.01 0.9
iSn 46 18.44
ATH 3.62 118 ePn 45 32.70 -1.0
ATN 3.66 245 P 45 34.00 -0.3
eSn 46 16.40
VLI 3.97 139 ePn 45 39.00 0.3
HVAR 4.19 326 iPn 45 42.40 0.6
MEU 4.58 236 P 45 44.00 -3.4X
eSn 46 37.60
RFI 4.61 291 P 45 51.04 3.3X
SDI 4.86 295 P 45 53.10 1.7
AQU 5.41 301 P 46 00.50 1.3
CVT 5.78 251 P 46 02.53 -1.7
ASS 6.23 304 P 46 11.80 1.1
ARV 6.28 309 P 46 10.80 -0.6
VBY 6.60 332 ePn 46 15.20 -0.7
eSn 47 31.40
PTJ 6.72 337 eP 46 13.60 -4.0X
RSM 6.82 310 P 46 19.00 0.1
eSn 47 34.40
CRE 6.96 306 P 46 21.50 0.5
eSn 47 38.10
CEY 7.12 329 ePn 46 22.40 -0.7
eSn 47 42.00
SFI 7.17 308 P 46 24.20 0.3
PGD 7.23 307 P 46 24.90 0.0
TRI 7.37 326 e(Pn) 46 23.20 -3.4X
e(Sn) 47 45.50
VOY 7.57 328 iPnd 46 28.20 -1.3
eSn 47 53.40
RBL 8.04 328 P 46 35.00 -1.0
FVI 8.49 326 P 46 42.30 0.1
CTI 8.61 319 P 46 43.00 -1.1
BOB 9.09 307 P 46 49.50 -1.1
GEC2 10.04 337 Pn 47 01.00 -2.7
Sn 48 51.50
LPG 11.12 305 Pn 47 18.50 -0.2
Sn 49 05.00
LPL 11.14 305 Pn 47 18.30 -0.6
Sn 49 04.60
BSF 12.31 315 Pn 47 33.50 -1.2
Sn 49 41.50
HFS 20.74 352 eP 49 17.00 -2.5
0.4s 1.10nm 3.5mb
NB2 21.94 349 P 49 30.00 -1.8
0.7s 2.30nm 3.7mb
YKA 71.68 340 eP 55 58.50 -1.6
0.5s 0.10nm 3.2mb
S.D. = 1.1 on 61 of 65 obs.

% FEB 06, 1993 03h 31m 03.77 ± 0.50s
41.715 S ± 4.8km 173.732 E ± 4.7km
DEPTH = 79.8 ± 9.7 km
SOUTH ISLAND, NEW ZEALAND (162)

CCW 0.36 96 Pd 31 16.80 0.2
THZ 0.62 265 Pd 31 17.70 -1.2
S 31 26.40
TCW 0.65 39 Pd 31 18.40 -0.6
KHZ 0.72 191 P 31 21.00 1.2
eS 31 31.90
MRW 0.88 57 Pd 31 21.70 0.1
WEL 0.89 61 P 31 21.90 0.2
S 31 34.10
DIW 0.92 9 P 31 21.00 -1.2
CAW 1.17 59 Pd 31 25.30 0.1
MOW 1.18 76 Pd 31 25.30 0.0
KIW 1.23 47 P 31 26.40 0.4
QRZ 1.27 314 Pc 31 26.30 -0.1
S 31 41.40
BLW 1.35 76 Pd 31 27.40 -0.1
MTW 1.44 68 Pd 31 28.40 -0.3
DSZ 1.44 268 Pd 31 29.40 0.6
LTZ 1.52 225 P 31 30.90 1.1

MNG 1.72 51 P 31 48.80
 BSZ 2.12 26 eP 31 32.20 -0.2
 MQZ 2.14 201 P 31 39.10 1.3
 S 31 37.60 -0.5
 S 32 02.50
 NRZ 2.38 4 eP 31 42.20 0.8
 NGZ 2.91 30 eP 31 49.40 0.5
 WHH 3.53 38 eP 31 57.50 0.1
 LMZ 3.85 237 eP 32 02.40 0.6
 BWZ 3.98 224 eP 32 02.70 -0.9
 ODZ 4.02 213 eP 32 03.40 -0.7
 S 32 46.70
 URZ 4.32 38 eP 32 07.20 -1.2
 S 32 52.10

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

% FEB 06, 1993 03h 48m 15.33±1.89s
 38.203 N ±13.4km 27.262 E ±21.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 3.0 (ISK).

IZM 0.19 0 iPg 48 18.30 -1.4
 eSg 48 20.30
 CIN 0.89 132 ePg 48 32.00 -0.3
 iSg 48 47.00
 DST 1.76 37 ePn 48 47.00 0.9
 EZN 1.78 336 ePn 48 47.00 0.7
 EDC 2.19 12 ePn 48 52.00 -0.3
 KCT 2.21 22 ePn 48 55.30 2.7X
 S.D. = 1.3 on 5 of 6 obs.

FEB 06, 1993 04h 21m 56.52±1.29s
 6.025 S ±11.3km 153.886 E ±6.6km
 DEPTH = 72.4 ±13.4 km
 5.1mb (5 obs.)

NEW BRITAIN REGION, P.N.G. (192)

SVO 6.65 118 eP 23 34.00 0.3
 e(S) 25 53.00
 LAT 6.87 264 eP 23 36.80 0.0
 HNR 6.89 120 eP 23 37.00 -0.1
 e(S) 26 20.00
 PMG 7.46 243 eP 23 45.00 0.0
 eS 25 13.00
 DZM 20.05 144 iPd 26 25.20 -1.3
 BRS 21.28 183 iP 26 39.00 0.1
 ASPA 26.03 226 eP 27 25.90 1.1
 XAN 58.25 316 Pc 31 44.50 -1.5
 0.8s 12.00nm 5.1mb
 KMI 58.56 304 eP 31 49.50 0.9
 1.5s 30.00nm 5.2mb
 CHG 59.49 296 eP 31 55.20 0.4
 CD2 60.35 311 iPd 32 00.20 -0.3
 0.8s 35.00nm 5.5mb X
 LZH 62.86 316 Pd 32 17.50 0.1
 1.4s 37.00nm 5.2mb
 GTA 67.28 317 P 32 45.00 -0.9
 1.0s 19.00nm 5.0mb
 GUN 73.68 301 P 33 25.40 0.3
 PKI 73.98 301 P 33 27.20 0.3
 KKN 74.15 301 P 33 27.60 -0.1
 DMN 74.25 301 P 33 29.00 0.7
 GKN 74.76 301 P 33 29.20 -1.9
 FBA 82.62 21 iP 34 13.80 1.0
 0.6s 0.90nm 3.9mb X
 YKA 96.00 28 eP 35 17.70 1.1
 0.8s 0.40nm 4.0mb
 BAO 149.46 135 ePKP 41 38.00 2.6X
 S.D. = 0.9 on 20 of 21 obs.

? FEB 06, 1993 05h 07m 09.89±3.32s
 15.589 S ±74.6km 72.249 W ±37.5km
 DEPTH = 119.9 ±23.2 km
 4.5mb (2 obs.)

SOUTHERN PERU (117)

ZOBO 4.02 101 iPc 08 12.00 0.7
 S 09 10.00
 LPB 4.10 104 P 08 13.20 1.1
 1.0s 340.00nm
 CNCB 4.28 107 Pc 08 14.00 -0.7
 CCH 6.12 108 P 08 39.00 -0.7
 SIV 10.77 94 P 09 41.00 -1.0
 i 09 46.00
 BAO 23.36 93 eP 12 09.10 0.4
 e 12 22.90

LIC 69.99 77 P 18 11.00 0.2
 0.6s 10.00nm 4.8mb
 KIC 70.30 77 P 18 13.00 0.3
 e 18 27.00
 YKA 84.60 342 eP 19 30.30 -0.3
 0.7s 2.20nm 4.2mb
 S.D. = 0.9 on 9 of 9 obs.

* FEB 06, 1993 05h 15m 32.69±0.89s
 6.562 S ±11.3km 147.127 E ±8.3km
 DEPTH = 19.4 ±9.9 km
 4.3mb (1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
 ML 4.3 (PMG).

LAT 0.16 231 iPc 15 36.80 -0.5
 FINC 0.73 94 eP 15 46.20 -0.3
 YYY 1.19 285 eP 15 54.40 -0.1
 eS 16 15.00
 MDG 1.87 314 eP 16 04.50 0.5
 PMG 2.83 179 eP 16 18.80 1.1
 eS 17 02.00
 ASPA 21.23 215 eP 20 19.20 -0.7
 0.5s 5.90nm 4.3mb
 S.D. = 1.1 on 6 of 6 obs.

FEB 06, 1993 06h 51m 29.29±0.55s
 17.999 S ±9.8km 167.696 E ±8.3km
 DEPTH = 10.0km (geophysicist)
 4.8mb (9 obs.) 4.4Msz (1 obs.)
 VANUATU ISLANDS (186)

BKM 0.62 58 iPd 51 41.60 -0.1
 PVC 0.64 66 iP 51 42.50 0.4
 iS 51 52.50
 DZM 4.22 196 iPc 52 34.00 -1.1
 iS 53 27.90
 HNR 11.36 318 eP 54 12.00 -2.8X
 SVO 11.66 318 eP 54 19.00 0.2
 BRS 16.63 233 iP 55 28.00 3.9X
 RMO 19.44 241 iPd 55 59.70 0.6
 1.0s 60.00nm 4.8mb
 CTA 20.37 261 iPc 56 09.00 0.0
 1.8s 90.91nm 4.8mb
 CNB 23.72 220 iPd 56 44.10 1.7
 1.2s 49.00nm 5.0mb
 BWA 23.74 223 eP 56 41.70 -0.8
 i 56 54.50
 CMS 23.91 232 eP 56 44.90 0.7
 0.8s 17.00nm 4.7mb
 CAN 23.95 220 eP 56 46.00 1.5
 i 57 05.70
 STK 27.32 235 iPc 57 16.10 -0.2
 1.0s 4.10nm 4.1mb
 ASPA 32.03 254 iPc 57 56.20 -2.3
 1.3s 11.50nm 4.6mb
 Z 18s 0.70um 4.4Msz
 KMI 76.38 302 Pc 03 24.50 3.3X
 1.8s 50.00nm 5.3mb
 HHC 78.33 320 eP 03 34.40 2.9X
 1.2s 12.00nm 4.8mb
 GTA 85.22 314 P 04 08.00 0.5
 1.0s 6.00nm 4.8mb
 GEC2 142.71 331 PKP 11 08.90 4.3X
 VBY 144.26 326 ePKP 11 06.20 -1.0
 BCAO 146.96 250 iPKPd 11 15.90 3.2X
 1.2s 21.00nm
 ic 12 08.00
 S.D. = 1.2 on 14 of 20 obs.

FEB 06, 1993 06h 59m 32.92±0.45s
 56.811 N ±4.8km 151.589 W ±5.2km
 DEPTH = 10.0km (geophysicist)
 4.8mb (20 obs.)
 KODIAK ISLAND REGION (13)
 ML 4.2 (PMR), 3.9 (AEIC). Felt
 (111) at Kodiak.

KDC 1.06 333 eP 59 52.23 -0.6
 S 00 16.56
 SYI 1.86 347 eP 00 05.99 1.0
 CDD 2.39 334 eP 00 14.45 1.7
 XLV 2.65 359 eP 00 17.51 1.0
 AUI 2.71 340 eP 00 19.52 2.2
 eS 00 50.25
 AUE 2.73 340 eP 00 19.39 1.9
 AUP 2.74 340 eP 00 19.59 1.8

AUH 2.74 340 eP 00 19.49 1.6
 AUW 2.75 340 eP 00 20.11 2.2
 AUL 2.76 340 eP 00 19.63 1.6
 MCNL 2.79 330 eP 00 19.67 1.2
 OPT 2.98 344 eP 00 22.23 1.1
 BRK 2.99 7 eP 00 20.99 -0.2
 INE 3.35 347 eP 00 26.81 0.3
 ILIM 3.36 348 eP 00 26.64 0.1
 INW 3.37 347 eP 00 27.30 0.6
 RS1 3.71 351 eP 00 31.69 0.0
 RS2 3.71 351 eP 00 31.81 0.1
 REF 3.74 352 eP 00 31.89 -0.1
 RDW 3.74 351 eP 00 31.83 -0.2
 RDN 3.76 351 eP 00 32.49 0.1
 SLKM 3.78 10 eP 00 31.41 -1.1
 NCT 3.83 350 eP 00 32.93 -0.3
 DFR 3.84 352 eP 00 32.52 -0.8
 MPA 3.87 17 eP 00 33.08 -0.6
 NKA 3.95 3 eP 00 36.11 1.3
 PTE 4.28 17 eP 00 38.55 -0.9
 SPU 4.39 357 eP 00 40.21 -1.0
 CKT 4.42 356 eP 00 40.92 -0.6
 CKL 4.42 355 eP 00 41.20 -0.4
 CKN 4.44 356 eP 00 41.61 -0.2
 CPAM 4.47 357 eP 00 42.11 -0.1
 CP2 4.48 356 eP 00 42.04 -0.5
 CRP 4.48 356 eP 00 42.50 0.0
 BGL 4.49 355 eP 00 42.70 0.2
 PMS 4.57 12 iPd 00 43.50 -0.2
 SUA 4.69 5 eP 00 44.03 -0.5
 SVW 4.79 336 ePc 00 46.30 -0.5
 PMR 4.96 14 eP 00 47.04 -0.5X
 SKT 5.19 0 eP 00 51.50 -0.5
 SDN 5.20 257 eP 00 54.50 1.2X
 TOA 5.98 25 eP 00 00.00 0.5
 TTA 6.53 342 eP 00 00.00 -0.4X
 PCA 6.80 56 eP 00 00.00 0.0
 BCPM 7.03 58 eP 00 00.00 0.0
 PNL 7.04 61 eP 00 00.00 0.0
 HON 7.23 63 eP 00 00.00 0.0
 FBA 8.32 11 eP 00 33.34 -0.3X
 IMA 9.34 355 eP 00 44.40 0.2
 YKA 19.32 58 eP 00 00.00 0.4
 1.1s 6.30nm
 RMW 20.39 105 eP 00 00.00 0.4
 NEW 22.43 98 eP 00 30.00 0.0
 1.2s 22.59nm
 SES 24.61 88 eP 00 33.00 0.9
 pP 00 44.00 3.2kmX
 BONR 28.96 116 eP 00 30.40 1.0
 BW06 30.01 100 eP 00 44.00 0.1
 0.7s 2.02nm
 SRU 32.08 106 eP 00 51.74 2.6kmX
 eP 00 03.75 1.6
 RSSD 32.14 93 eP 00 11.55 27kmX
 0.6s 3.32nm 4.4mb
 PV09 33.26 105 eP 00 12.00 29kmX
 eP 00 13.49 0.9
 PV10 33.40 105 eP 00 21.24 27kmX
 eP 00 15.08 1.3
 esP 00 23.00 27kmX
 PV08 33.47 104 eP 00 29.50
 eP 00 15.30 0.9
 GLD 34.46 100 (P) 00 22.92 26kmX
 FVM 43.82 88 (P) 00 22.14 -0.6
 0.8s 9.38nm 4.7mb
 CN2 51.33 293 eP 08 37.20 -1.8
 1.0s 14.00nm 4.8mb
 HHC 60.37 300 eP 08 44.50 24kmX
 1.0s 13.00nm 5.0mb
 NB2 61.72 9 P 09 51.00 -2.1
 0.8s 2.10nm 4.4mb
 EKA 65.31 19 P 10 24.00 7.3X
 2.0s 81.70nm 5.6mb
 GTA 66.91 307 eP 10 26.00 -1.3
 1.5s 14.00nm 4.9mb
 pP 10 33.00 22kmX
 WMQ 68.11 318 eP 10 33.00 -1.7
 DOU 71.65 16 Pc 11 03.90 7.8X
 MOX 72.01 11 e(P) 11 06.40 8.1X
 BRG 72.02 10 e(P) 11 06.20 7.9X
 FLN 72.09 20 eP 11 05.40 6.7X
 1.0s 8.40nm 4.8mb
 KSP 72.25 8 eP 11 00.50 0.9

06d 07h

WLF	72.30	15	iPd	11	07.20		
GRR	72.38	20	eP	11	07.50	8.1X	
	0.8s		7.80nm			4.8mb	
LPF	72.68	20	eP	11	09.40	7.2X	
	1.0s		13.40nm			5.0mb	
GRF	72.91	12	eP	11	12.00	8.4X	
CDF	73.68	14	eP	11	05.40	-2.8	
	1.0s		15.00nm			5.0mb	
KHC	73.71	10	eP	11	16.50	8.2X	
GEC2	74.00	10	P	11	10.90	0.8	
	0.8s		1.42nm			4.1mb	
			e	11	17.30		
			e	11	21.00		
SPC	74.15	6	eP	11	18.90	7.9X	
BSF	74.18	15	eP	11	08.60	-2.5	
	1.2s		10.70nm			4.8mb	
LOR	74.28	17	eP	11	11.60	0.0	
	0.9s		10.00nm			4.8mb	
GYA	74.35	294	eP	11	11.80	-0.6	
SSF	74.43	17	eP	11	12.50	0.1	
	1.0s		24.60nm			5.2mb	
LBF	74.58	17	eP	11	11.80	-1.6	
	0.9s		6.20nm			4.6mb	
SMF	74.89	17	eP	11	14.90	-0.2	
	1.1s		13.45nm			4.9mb	
ZST	74.94	8	e(P)	11	15.20	-0.1	
KBA	75.72	11	iPc	11	01.70	-18.4X	
	0.9s		8.70nm				
			i	11	28.30		
LFF	76.00	20	eP	11	19.00	-2.4	
	1.1s		29.05nm			5.3mb	
GUN	82.70	311	P	11	58.80	0.5	
KKN	83.05	312	P	11	58.20	-1.7	
GKN	83.12	312	P	12	00.60	0.4	
PKI	83.19	311	P	12	01.00	0.2	
DMN	83.28	312	P	12	01.80	0.6	
S.D. = 1.2 on 77 of 95 obs.							

% FEB 06, 1993 07h 05m 34.35±0.64s
40.326 N ± 5.9km 23.910 E ± 5.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR	0.06	81	iPg	05	35.74	-0.8	
PAIG	0.44	204	ePg	05	43.10	-0.1	
			eSg	05	49.98		
SOH	0.65	320	ePg	05	46.98	-0.4	
			eSg	05	56.82		
SRS	0.83	343	ePg	05	50.42	0.1	
			eSg	06	02.80		
LIT	1.11	259	ePg	05	55.42	0.2	
			eSg	06	12.20		
KNT	1.14	318	ePg	05	55.46	-0.2	
			eSg	06	12.90		
GRG	1.31	299	ePb	05	58.90	0.3	
ALN	1.72	70	ePb	06	05.46	0.9	
S.D. = 0.6 on 8 of 8 obs.							

FEB 06, 1993 07h 34m 55.29±0.45s
32.243 S ± 7.8km 69.331 W ± 5.7km
DEPTH = 120.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)
MD 3.7 (SAN).

MDZ	0.76	148	eP	35	16.40	0.9	
			iS	35	31.90		
RTCL	0.88	31	ePd	35	16.80	0.2	
			S	35	32.20		
JACH	1.15	247	iP	35	19.29	0.0	
			iS	35	37.69		
RTLL	1.17	39	ePc	35	19.50	0.1	
			S	35	36.00		
FCH	1.35	217	iP+	35	22.52	0.8	
			iS	35	42.97		
PEL	1.45	231	iP	35	22.47	-0.1	
			iS	35	42.61		
ROCH	1.59	242	iP	35	23.87	-0.6	
			iS	35	44.92		
SAN	1.65	223	iP	35	24.98	0.1	
			iS	35	48.09		
PCH	1.70	216	iP	35	26.22	0.7	
			iS	35	49.51		
TACH	1.95	223	iP	35	28.46	-0.1	
			iS	35	53.83		
CHCH	2.02	213	iP	35	30.22	0.7	
			iS	35	56.49		

LCCH	2.25	236	iP	35	31.98	-0.4	
			iS	35	57.79		
LNv	2.44	225	iP	35	33.99	-0.9	
			iS	36	03.35		
RFA	2.62	164	ePc	35	36.30	-1.0	
			S	36	06.30		
MRA	3.07	94	ePc	35	43.20	0.0	
TCA	4.14	79	iPd	35	57.10	-0.5	
			(S)	36	42.00		
S.D. = 0.6 on 16 of 16 obs.							

* FEB 06, 1993 08h 49m 27.14±1.08s
51.514 N ± 8.8km 6.451 E ± 11.7km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.4 (BNS).

WTS	0.53	25	iPg	49	37.60	-0.3	
	0.6s		63.40nm				
BNS	0.71	140	iPg	49	39.80	-1.4	
	1.0s		198.00nm				
			Sg	49	48.70		
ENN	0.82	204	ePg	49	42.00	-1.0	
	0.5s		17.80nm				
			i	49	43.10		
			i	49	45.90		
			iSg	49	52.00		
WIT	1.31	6	ePn	49	57.00	5.7X	
TNS	1.81	135	ePnc	50	05.40	6.8X	
			eSn	50	20.20		
DOU	1.84	220	iP	49	59.30	0.2	
			i	50	05.80		
			iS	50	21.00		
WLF	1.86	186	iPd	50	00.52	1.2	
			iS	50	23.29		
GRF	3.54	119	ePg	50	24.50	1.2	
			eSg	51	20.00		
S.D. = 1.4 on 6 of 8 obs.							

FEB 06, 1993 09h 18m 58.33±0.74s
39.250 N ± 8.1km 119.502 W ± 5.7km
DEPTH = 5.0km (geophysicist)
NEVADA (37)
ML 2.9 (GS).

KVN	1.11	100	eP	19	18.52	-1.2	
CMB	1.40	210	eP	19	23.17	-1.4	
ORV	1.58	282	eP	19	27.33	0.3	
BONR	1.60	144	(Pn)	19	28.36	0.8	
			ePg	19	30.53		
MEMM	1.64	164	eP	19	28.51	0.6	
MMPM	1.68	167	eP	19	29.64	0.8	
MRCM	1.76	153	(Pn)	19	30.81	0.9	
MTUM	2.03	158	(P)	19	33.77	0.0	
LMEM	2.05	310	(Pn)	19	34.66	0.7	
HMR	2.10	239	(P)	19	34.10	-0.5	
TNP	2.13	122	ePn	19	34.80	-0.5	
			ePg	19	38.90		
ARN	2.48	221	ePn	19	39.64	-0.5	
			ePg	19	43.40		
TPNV	3.44	131	(Pn)	19	55.19	1.3X	
S.D. = 0.9 on 12 of 13 obs.							

% FEB 06, 1993 09h 53m 55.53±0.87s
39.113 N ± 7.5km 27.615 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM	0.77	201	iPg	54	10.50	0.0	
			iSg	54	23.00		
DST	0.93	58	ePn	54	13.20	-0.1	
EZN	1.23	306	ePn	54	18.40	0.1	
BNT	1.26	11	ePn	54	18.60	-0.4	
KCT	1.27	27	iPn	54	19.60	0.5	
S.D. = 0.4 on 5 of 5 obs.							

FEB 06, 1993 10h 08m 07.38±0.97s
38.546 N ± 7.6km 30.972 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ALT	0.84	307	iPg	08	22.50	-1.2	
			eSg	08	35.00		
BCK	1.12	196	ePn	08	28.40	-0.1	
KHL	1.16	259	ePn	08	29.50	0.4	

GPA	1.81	344	ePn	08	39.00	0.1	
BBTK	1.90	46	eP	08	40.00	-0.2	
			eS	09	06.50		
YLV	2.37	329	ePn	08	48.00	1.1	
S.D. = 1.0 on 6 of 6 obs.							

? FEB 06, 1993 10h 43m 18.97±0.91s
31.500 S ± 14.8km 67.781 W ± 7.9km
DEPTH = 33.0km (normol)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.41	255	ePc	43	27.80	-0.4	
			S	43	35.80		
RTLL	0.61	286	eP	43	31.70	0.5	
			S	43	40.20		
RTCB	0.87	271	eP	43	38.00	3.1X	
			(S)	43	48.20		
RTPR	1.62	43	ePc	43	45.30	-0.2	
			S	44	03.80		
MRA	1.98	118	ePc	43	51.00	0.2	
			S	44	14.10		
S.D. = 0.7 on 4 of 5 obs.							

% FEB 06, 1993 11h 14m 44.67±0.97s
39.334 N ± 7.5km 27.692 E ± 11.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM	0.99	200	iPg	15	03.50	0.0	
			iSg	15	16.00		
EDC	1.02	7	ePg	15	03.50	-0.5	
			eSg	15	16.50		
BNT	1.04	10	ePg	15	04.50	0.3	
KCT	1.05	29	iPn	15	04.60	0.2	
EZN	1.17	295	ePn	15	06.50	0.1	
S.D. = 0.4 on 5 of 5 obs.							

FEB 06, 1993 11h 22m 12.54±0.76s
47.290 N ± 6.3km 10.866 E ± 5.5km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.0 (FUR), 1.9 (VIE).

MOTA	0.17	71	iPg	22	16.50	0.0	
			iSg	22	20.80		
SQTA	0.24	106	iPg	22	18.30	0.5	
			iSg	22	24.10		
OGA	0.44	166	iPg	22	21.40	-0.1	
WATA	0.49	84	iPg	22	22.20	-0.2	
			iSg	22	32.60		
WTTA	0.52	93	iPg	22	23.00	-0.2	
			iSg	22	33.70		
FUR	0.92	17	iPg	22	30.20	0.1	
KBA	1.70	96	iPg	22	46.40	3.8X	
			iSg	23	12.10		
FEL	2.02	288	ePn	22	47.11	0.0	
S.D. = 0.3 on 7 of 8 obs.							

FEB 06, 1993 12h 03m 57.84±0.37s
51.399 N ± 9.8km 176.768 W ± 4.6km
DEPTH = 39.5km (8 depth phases)
4.8mb (23 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (III) on Adak.

ADK	0.49	6	iPd	04	09.85	1.5	
SMY	5.79	287	eP	05	24.40	1.0	
SDN	10.49	62	eP	06	29.80	1.2	
SVW	15.18	42	eP	07	33.52	2.7X	
	0.9s	115.91nm				5.1mb	
KDC	15.39	56	(P)	07	35.15	1.6	
	0.5s	19.11nm				4.6mb	
TTA	16.03	36	eP	07	43.18	1.3	
	0.7s	16.99nm				4.3mb	
BGL	16.63	44	eP	07	50.68	1.2	
SLKM	17.32	48	iPd	07	57.43	-0.6	
IMA	18.78	30	eP	08	15.11	-1.0	
	0.9s	7.03nm				3.9mb	
KLU	19.62	47	eP	08	24.45	-1.2	
TOA	19.70	45	ePc	08	27.80	1.4	
FBA	20.16	37	eP	08	27.66	-3.4X	
	0.7s	9.43nm				4.2mb	
BALM	21.18	50	(P)	08	41.20	-0.6	
BRW	21.93	17	(P)	08	45.47	-3.6X	
YKA	34.29	47	eP	10	40.00	-2.0	
	0.6s	2.30nm				4.3mb	

MAT 35.05 263 eP 10 49.00 0.3
0.8s 10.45nm 4.8mb
RMW 35.26 74 eP 10 51.72 1.2
epP 11 02.94 40km
DPW 37.22 72 eP 11 07.60 0.6
NEW 37.68 71 iPd 11 11.26 0.4
0.6s 26.57nm 5.3mb
epP 11 22.42 40km
esP 11 27.66
SES 40.21 65 ePd 11 31.20 -0.6
LCCM 42.00 71 eP 11 46.70 0.0
TNP 43.17 84 eP 11 57.63 1.2
0.9s 6.18nm 4.3mb
HVU 43.71 77 eP 12 01.73 1.0
BW06 45.08 73 iPc 12 11.85 0.0
0.5s 6.07nm 4.7mb
ipP 12 22.79 38km
GSC 45.18 87 iPc 12 13.87 1.3
MSU 46.04 80 eP 12 20.74 1.3
SRU 46.68 78 eP 12 24.53 0.1
RSSD 47.57 69 eP 12 30.40 -1.1
0.6s 8.40nm 4.9mb
ePcP 14 00.18
e 14 12.95
PV09 47.91 78 ePc 12 34.70 0.4
PV10 48.05 78 eP 12 36.01 0.7
epP 12 47.64 41km
PV08 48.16 77 eP 12 36.37 0.1
HHC 48.90 287 eP 12 43.00 1.3
0.8s 7.00nm 4.7mb
GOL 49.45 74 iPd 12 46.98 0.9
0.5s 5.51nm 4.8mb
epP 12 57.64 37km
GLD 49.51 74 eP 12 47.52 1.1
0.9s 7.13nm 4.7mb
BTO 49.98 288 eP 12 50.20 0.2
TIY 50.34 283 eP 12 53.00 0.3
XAN 54.90 282 iPc 13 26.00 -0.7
0.8s 15.00nm 5.1mb
LZH 56.60 288 eP 13 39.00 -0.1
1.0s 15.00nm 5.0mb
PcP 14 34.50
WMOK 56.67 75 iPc 13 38.77 -0.6
0.8s 6.66nm 4.7mb
epP 13 50.64 41km
FVM 59.38 66 iPc 13 56.44 -1.9
0.6s 36.61nm 5.7mb
UYO 59.65 72 iPd 13 59.90 -0.3
MIAR 59.91 71 ePc 14 01.25 -0.8
0.8s 14.22nm 5.1mb
epP 14 12.72 39km
CD2 60.21 283 iPd 14 04.20 0.0
1.0s 26.00nm 5.3mb
OLY 60.49 69 eP 14 03.46 -2.5
ELC 60.55 66 eP 14 04.58 -1.7
epP 14 16.18 40km
GYA 61.58 278 iPc 14 13.00 -0.6
1.0s 25.00nm 5.3mb
KMI 64.98 279 Pc 14 36.00 -0.1
1.0s 60.00nm 5.6mb
pP 14 44.00 26kmX
NAV 65.26 61 eP 14 36.77 -0.8
PRM 66.74 64 eP 14 46.33 -0.7
LHS 67.32 63 eP 14 49.69 -1.0
HFS 68.50 354 eP 14 55.20 -2.4
0.5s 1.50nm 4.3mb
HBF 68.71 64 (P) 14 57.60 -1.7
CHG 72.01 278 eP 15 19.30 -0.2
NNT 76.23 273 eP 15 43.30 -0.6
HYB 85.39 292 eP 16 32.90 0.5
ASPA 86.38 224 P 16 38.79 1.8
KIC 122.06 9 PKP 22 40.40 -9.3X
S.D. = 1.1 on 53 of 57 obs.

? FEB 06, 1993 12h 05m 29.02±1.91s
6.595 S ±21.5km 147.633 E ±17.0km
DEPTH = 60.0 ±18.2 km
3.9mb (1 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

FINC 0.22 96 iPc 05 38.60 -0.1
LAT 0.63 264 iPc 05 41.80 -0.7
YYYY 1.69 282 eP 05 57.60 0.8
PMG 2.83 190 iPd 06 13.30 0.5
eS 06 52.00
ASPA 21.50 216 eP 10 14.30 -0.5
0.8s 4.30nm 3.9mb

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

% FEB 06, 1993 12h 39m 18.27±0.99s
39.498 N ±8.1km 26.861 E ±8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

EZN 0.53 309 iPg 39 29.00 0.1
eSg 39 34.50
IZM 1.14 164 ePn 39 39.50 -0.2
EDC 1.15 42 ePn 39 39.50 -0.2
BNT 1.18 43 ePn 39 39.50 -0.8
KCT 1.37 56 ePn 39 44.60 1.1
S.D. = 1.0 on 5 of 5 obs.

% FEB 06, 1993 12h 41m 37.33s
60.660 N 146.874 W
DEPTH = 15.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

FID 0.21 65 eP 41 42.15 -0.3
GLI 0.25 334 iPd 41 42.84 -0.1
eS 41 47.21
HIN 0.32 145 iPc 41 44.28 0.0
eS 41 50.40
VZW 0.43 21 iPd 41 45.58 -0.6
S 41 52.59
KNIM 0.53 234 iPc 41 47.07 -0.7
eS 41 54.88
VLZ 0.54 29 ePc 41 47.34 -0.6
eS 41 55.29
CVA 0.57 101 iPc 41 47.80 -0.6
eS 41 56.88
MTU 0.78 210 ePd 41 51.50 -0.5
LTI 0.79 219 eP 41 51.45 -0.8
eS 42 01.44
KLU 0.96 29 ePc 41 53.96 -1.2
eS 42 06.34
PTE 1.08 282 iPc 41 55.85 -1.2
S 42 10.27
KNK 1.08 315 iPc 41 56.30 -0.9
eS 42 11.06
RAGM 1.12 103 eP 41 56.93 -1.0
eS 42 10.88
SCM 1.20 350 eP 41 57.71 -1.5
S 42 13.24
MPA 1.24 263 iPc 41 58.30 -1.6
S 42 14.12
MID 1.27 168 P 42 00.10 -0.2
SML 1.35 329 ePc 42 00.44 -1.2
SEW 1.40 248 ePc 42 00.44 -1.7
S 42 17.97
PMS 1.44 295 P 42 01.70 -1.1
PLRM 1.44 311 eP 42 01.62 -1.2
PMR 1.44 311 eP 42 01.27 -1.5
eS 42 22.24
TOA 1.49 13 eP 42 02.91 -0.7
GHO 1.49 319 iPc 42 02.82 -0.8
TZL 1.56 26 eP 42 03.84 -0.6
SLKM 1.66 266 iPc 42 04.62 -1.4
GLB 1.68 61 iPc 42 05.12 -1.3
PWA 1.76 306 eP 42 07.00 -0.5
CROM 1.84 85 eP 42 07.45 -1.3
SDG 1.98 18 eP 42 09.86 -0.8
TGL 1.99 85 ePd 42 08.99 -1.9
SUA 2.05 295 eP 42 10.54 -1.2
BALM 2.25 78 ePc 42 12.54 -2.1
SPU 2.58 284 ePc 42 17.00 -2.3
SKT 2.61 303 eP 42 17.75 -1.9
CPAM 2.64 285 eP 42 18.34 -1.8
CRP 2.65 286 eP 42 18.59 -1.7
CKT 2.66 284 eP 42 18.26 -2.2
BGL 2.76 285 eP 42 19.33 -2.5
DFR 2.87 271 eP 42 20.37 -3.0
REF 2.88 269 eP 42 20.99 -2.7
RS2 2.91 269 eP 42 21.19 -2.9
NCT 2.99 271 ePc 42 22.34 -2.7
42 obs. associated

FEB 06, 1993 12h 42m 51.66±0.18s
56.522 S ±5.7km 25.765 W ±5.7km
DEPTH = 33.0km (normal)
5.3mb (15 obs.) 5.5msz (33 obs.)
SOUTH SANDWICH ISLANDS REGION (153)
Mw 5.7 (HRV).

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 42S, 87C
Centroid Location:
Origin Time 12:42:59.9 0.2
Lat 56.44S 0.03 Lon 25.30W 0.04
Dep 15.7 1.6 Half-duration 1.7
Moment Tensor: Scale 10**17 Nm
Mrr= 2.76 0.07 Mtt=-0.15 0.09
Mff=-2.61 0.08 Mrt=-1.27 0.22
Mrf= 3.39 0.42 Mtf= 1.12 0.08
Principal Axes:
T Val= 4.50 Plg=64 Azm=250
N 0.28 0 159
P -4.77 26 69
Best Double Couple: Mo=4.6*10**17
NP1: Strike=158 Dip=19 Slip= 89
NP2: 339 71 90

AIA 20.35 229 eP 47 29.00 1.6
NVL 21.43 146 eP 47 37.00 -1.4
1.2s 126.00nm 5.2mb
Z 18s 7.60um 5.1msz
N 16s 2.40um
E 16s 5.50um
ePP 48 03.00
ePPP 48 30.00
eS 51 34.00
eSS 53 24.00
LPA 30.71 301 eP+ 49 04.00 -1.4
Z 20s 2.84um 4.9msz
SPA 33.66 180 iPd 49 30.70 -0.5
0.9s 550.00nm 6.5mb X
Z 23s 5.93um 5.2msz X
i 57 02.50
RFA 36.11 289 ePd 49 49.40 -2.9
BMA 36.39 331 eP 49 56.60 2.0
e 50 03.20
TCA 36.85 297 iPd 49 57.50 -1.0
VAO 36.92 326 eP 50 01.50 2.4
e 50 07.50
e 50 12.50
BLE 37.68 72 iPc 50 06.00 0.7
1.1s 126.58nm 5.7mb
MDZ 37.78 290 eP 50 08.30 2.0
PEL 38.54 288 iP 50 12.00 -0.6
RTLL 38.81 292 iPd 50 14.00 -0.9
RTCB 38.86 292 iPc 50 14.50 -0.9
CYA 39.82 298 eP 50 31.50 8.2X
FSA 41.89 300 iPc 50 39.50 -0.7
BAO 44.17 328 eP 51 00.90 1.8
e 51 02.00
e 51 13.00
e 52 45.90
FRS 44.46 75 iPc 50 59.70 -1.4
0.8s 33.58nm 5.2mb
YJA 44.98 303 ePc 51 06.00 0.1
BLF 45.43 75 iPc 51 08.70 -0.4
1.1s 27.03nm 5.1mb
CRZF 46.90 112 eP 51 30.00 9.7X
eS 58 22.00
eSS 01 43.00
SIV 48.48 312 P 51 37.00 4.0X
SLR 49.24 75 iPd 51 36.70 -2.2
1.4s 58.14nm 5.4mb
Z 20s 9.93um 5.8msz
CCH 49.43 305 eP 51 38.00 -2.6
CNCB 50.77 304 iPc 51 52.20 1.0
LPB 51.07 304 Pc 51 54.50 1.2
1.0s 420.00nm 6.4mb
Z 22s 2.22um 5.1msz
PS 59 11.00
LR 07 40.00
ZOBO 51.30 304 iPc 51 55.30 0.1
1.66um 5.1msz
LR 07 48.00
CSY 53.18 160 eP 52 08.50 0.5
0.8s 36.60nm 5.4mb
BUL 53.97 71 iPd 52 11.90 -2.6
MTD 58.31 71 iPc 52 42.40 -3.3X
NNA 59.17 298 iPd 52 51.20 -0.4
1.2s 117.19nm 5.9mb
Z 18s 0.69um 4.8msz
LIC 64.81 23 P 53 27.68 -1.5
0.6s 9.00nm 5.1mb
KIC 65.00 23 P 53 29.40 -1.0
VTY 65.10 87 eP 53 33.10 1.8

& FEB 06, 1993 13h 45m 37.40s
62.627 N 151.831 W
DEPTH = 14.6km
CENTRAL ALASKA (1)
<AEIC>. ML 2.4 (AEIC), 3.0
(PMR).

SLKM 2.26 159 eS 46 33.76
eP 46 14.52 -0.3
eS 46 45.90
SVW 2.36 231 eP 46 16.16 0.0
eS 46 48.18
TOA 2.69 99 eP 46 23.90 2.9
FBA 2.90 36 eP 46 22.30 -1.6
KLU 3.01 110 eP 46 26.24 0.8
IMA 3.55 348 eP 46 31.09 -2.1
BALM 4.77 105 eP 46 51.26 0.7
YKA 17.01 74 eP 49 35.30 -0.5
0.4s 0.10nm 2.3mb
14 obs. associated

FEB 06, 1993 14h 08m 02.28± 0.30s
7.470 S ± 5.4km 133.704 E ± 7.5km
DEPTH = 33.0km (normal)
4.9mb (14 obs.)

ARU ISLANDS REGION, INDONESIA (204)

MTN 5.91 205 eP 09 28.50 -1.4
SWI 7.00 340 ePd 09 40.50 -4.7X
is 10 56.50
PMG 13.45 99 eP 11 11.00 -2.3
ASPA 16.11 179 iPc 11 43.60 -4.4X
epP 11 52.00
eS 14 37.30
CTA 17.47 137 iPc 12 08.00 2.8X
1.0s 32.50nm 4.4mb
e 12 22.00
CGP 18.19 330 eP 12 14.00 -0.1
WARB 19.79 199 eP 12 30.30 -2.6
0.4s 25.00nm 4.9mb
KKM 22.01 307 ePd 12 56.20 0.4
1.2s 88.80nm 5.1mb
RMO 23.72 145 iPc 13 13.40 1.1
0.7s 76.00nm 5.3mb
MEEK 23.86 215 eP 13 13.40 -0.3
STK 25.38 164 eP 13 28.00 -0.2
0.5s 13.50nm 4.8mb
HNR 26.03 96 eP 13 33.00 -1.4
CMS 26.44 156 eP 13 40.00 1.9
BRS 26.82 140 iPc 13 42.50 0.8
ADE 27.75 171 eP 13 50.50 0.5
ARMA 28.35 146 eP 13 56.00 0.4
1.0s 21.00nm 4.8mb
BWA 30.06 155 eP 14 11.80 1.0
BFD 30.64 166 iPc 14 15.90 0.0
1.0s 34.00nm 5.1mb
CAN 31.07 155 eP 14 19.50 -0.2
TOO 31.82 162 iPc 14 27.10 0.9
0.3s 17.00nm 5.4mb
GYA 42.73 323 P 15 59.00 0.6
CHG 43.09 308 eP 16 01.20 -0.1
MAT 43.98 5 eP 16 07.00 -1.2
0.9s 10.00nm 4.6mb
TIY 49.14 338 eP 16 48.40 -0.6
LZH 51.62 329 eP 17 08.80 0.7
2.0s 41.00nm 5.0mb
HHC 52.22 339 eP 17 13.80 1.3
GTA 56.22 329 eP 17 41.00 -0.8
1.0s 19.00nm 5.1mb
GUN 58.06 309 P 17 54.60 -0.7
PKI 58.25 309 P 17 56.60 0.0
KKN 58.46 309 P 17 58.00 0.1
DMN 58.51 309 P 17 58.60 0.3
GKN 59.06 309 P 18 02.40 0.3
WMO 65.83 325 P 18 46.50 -0.3
1.0s 8.40nm 4.8mb
YAK 69.35 358 iP 19 08.50 0.2
0.9s 41.00nm 5.5mb
YKA 106.53 27 ePd diff 22 15.00 0.7
0.4s 0.10nm 4.2mb
GEC2 115.12 321 PKP 26 41.00 -1.1
0.7s 0.75nm 5.1mb
e 29 50.80
YJA 145.04 148 ePKPd 27 40.00 0.7
CNCB 147.72 138 PKP 27 46.90 2.9X
LPB 147.84 138 PKP 27 48.90 4.9X
ZOBO 148.00 138 PKP 27 45.90 1.4
1.0s 22.50nm
CCH 148.46 142 PKP 27 51.10 6.3X
SIV 152.48 148 ePKP 27 56.00 5.5X
S.D. = 1.0 on 35 of 42 obs.

? FEB 06, 1993 14h 52m 51.92± 7.70s
31.966 S ± 58.1km 71.576 W ± 21.5km

DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.7 (SAN).

JACH 1.10 131 iP 53 12.33 -0.3
is 53 27.29
ROCH 1.11 155 iP 53 12.69 -0.2
is 53 29.10
PEL 1.39 148 iP 53 17.20 -0.2
is 53 36.20
LCCM 1.50 180 iPd 53 17.76 -1.2
FCH 1.74 142 iP+ 53 22.35 -0.3
is 53 46.11
TACH 1.77 162 iP 53 22.67 -0.1
PCH 1.88 152 iP 53 25.09 0.7
is 53 49.43
LNV 1.99 176 iP 53 26.64 0.7
is 53 52.96
CHCH 2.11 159 iP 53 28.58 0.8
is 53 56.72

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

% FEB 06, 1993 15h 04m 27.20± 0.85s
39.120 N ± 7.1km 27.676 E ± 8.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

IZM 0.79 204 iPg 04 42.60 0.0
isSg 04 55.10
DST 0.88 56 ePn 04 44.00 -0.2
EDC 1.23 7 ePn 04 49.50 -0.6
KCT 1.24 25 iPn 04 51.00 0.7
BNT 1.25 9 ePn 04 50.40 0.0
EZN 1.26 304 iPn 04 50.70 0.1

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

FEB 06, 1993 15h 16m 31.40± 0.34s
43.986 N ± 3.3km 7.549 E ± 2.8km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)
ML 2.3 (LDG), 2.1 (GEN).

SAOF 0.00 91 Pg 16 32.59 -0.7
Sg 16 33.23
AUTN 0.09 276 Pg 16 33.73 -0.5
Sg 16 35.48
SBF 0.15 214 Pg 16 35.08 0.2
Sg 16 37.78
AURF 0.19 238 Pg 16 35.30 -0.3
Sg 16 38.99
TOUF 0.22 277 Pg 16 36.22 0.0
Sg 16 39.58
ENR 0.26 339 P 16 36.88 0.0
S 16 40.63
IMI 0.26 107 P 16 37.15 0.3
S 16 41.41
STV 0.30 328 P 16 37.61 -0.2
S 16 41.50
ROB 0.39 37 P 16 39.76 0.4
S 16 45.03
FIN 0.52 65 P 16 42.55 0.5
S 16 49.64
PZZ 0.61 328 P 16 43.29 -0.5
S 16 51.11
FRF 0.78 237 Pg 16 46.60 0.0
Sg 16 57.20
BHB 0.88 347 P 16 47.68 -0.6
PCP 0.91 52 P 16 49.65 0.9
LMR 1.00 230 Pg 16 51.20 0.9
Sg 17 03.90
LRG 1.01 239 Pg 16 51.10 0.6
Sg 17 04.70
CDR 1.33 257 eP 16 56.40 0.5
e 17 14.30
PGF 1.79 143 Pn 17 01.10 -1.5
Sn 17 22.30

S.D. = 0.7 on 18 of 18 obs.

& FEB 06, 1993 15h 24m 04.14s
63.088 N 150.723 W
DEPTH = 128.5km
4.7mb (27 obs.)
CENTRAL ALASKA (1)
<AEIC>. Felt (III) at Tolkeetna.

TRF 0.41 28 iPd 24 22.49 -0.6

HUR 0.51 102 ePd 24 22.64 -0.7
CUT 0.72 163 ePc 24 24.96 0.2
RND 0.90 68 ePd 24 25.89 -0.5
MCK 1.03 50 ePd 24 27.19 -0.4
SKT 1.17 199 iPc 24 28.37 -0.6
eS 24 45.52
PWA 1.50 164 P 24 32.20 -0.2
GHO 1.56 147 iPc 24 33.08 -0.2
SUA 1.63 180 ePc 24 33.72 -0.4
NEA 1.66 25 ePc 24 33.57 -0.8
PLRM 1.68 153 iPc 24 33.75 -0.7
PMR 1.68 153 ePd 24 33.43 -1.1
SML 1.70 138 ePd 24 34.13 -0.7
PMS 1.93 163 P 24 37.00 -0.6
CRP 1.95 201 iPc 24 36.82 -1.2
CPAM 1.96 201 ePc 24 37.55 -0.5
CP2 1.96 202 iPc 24 37.41 -0.8
KNK 1.99 147 iPc 24 37.67 -0.7
BGL 1.99 204 iPc 24 37.95 -0.5
CKN 1.99 201 ePc 24 38.21 -0.2
SPU 2.01 199 iPc 24 37.93 -0.8
CKT 2.02 201 ePc 24 38.08 -0.7
SCM 2.02 127 ePd 24 38.06 -0.7
CCB 2.03 38 ePc 24 38.10 -0.7
CKL 2.04 202 iPc 24 38.67 -0.5
HDA 2.14 50 ePd 24 39.77 -0.4
MDM 2.18 29 ePc 24 40.11 -0.6
eS 25 06.38
FBA 2.23 34 iPc 24 40.41 -0.9
THY 2.27 79 eP 24 43.12 1.2
TOA 2.32 113 P 24 42.50 -0.1
CFI 2.36 143 eP 24 43.18 0.2
eS 25 09.44
NKA 2.37 186 ePc 24 44.71 1.7
PTE 2.37 159 ePc 24 42.10 -1.0
eS 25 11.96
PAX 2.40 90 ePd 24 43.46 -0.1
GLM 2.41 36 ePc 24 43.12 -0.5
SDG 2.44 101 ePd 24 43.83 -0.3
SLKM 2.60 175 ePc 24 45.32 -0.8
eS 25 16.05
TZL 2.67 111 eP 24 47.05 0.1
DFR 2.67 201 ePc 24 46.59 -0.5
MPA 2.69 165 eP 24 46.29 -0.9
NCT 2.74 203 ePc 24 47.79 -0.3
KLU 2.76 123 ePc 24 46.82 -1.4
RDN 2.76 201 eP 24 47.98 -0.3
RDW 2.80 202 iPc 24 48.54 -0.3
GLI 2.80 141 iPc 24 47.38 -1.3
RS2 2.81 201 ePc 24 48.62 -0.4
RSO 2.81 201 ePc 24 48.62 -0.4
RS1 2.81 201 ePc 24 48.71 -0.3
VZW 2.83 134 ePc 24 47.74 -1.4
VLZ 2.85 132 ePc 24 47.81 -1.5
eS 25 21.83
SVW 3.04 231 ePd 24 50.95 -1.0
DOT 3.05 76 ePd 24 51.24 -0.8
SEW 3.06 168 ePc 24 51.01 -1.0
FID 3.09 138 eP 24 51.00 -1.5
KNIM 3.09 151 ePc 24 50.70 -1.9
ILIM 3.20 200 eP 24 53.65 -0.4
INE 3.24 201 eP 24 54.26 -0.4
INW 3.24 202 eP 24 54.40 -0.2
IMA 3.25 338 iPc 24 53.81 -1.0
BRLK 3.34 181 eP 24 55.37 -0.5
LTI 3.35 155 iPc 24 54.29 -1.7
HIN 3.36 141 eP 24 54.71 -1.5
MTU 3.44 153 eP 24 55.79 -1.4
CVA 3.47 135 eP 24 56.45 -1.1
TMW 3.51 83 eP 24 57.14 -0.9
GLB 3.63 114 eP 24 58.89 -0.9
is 25 40.20
OPT 3.65 200 ePd 25 00.14 0.1
PDB 3.71 208 eP 25 00.39 -0.3
AUL 3.94 201 eP 25 04.83 0.9
RAGM 3.95 131 eP 25 02.62 -1.4
AUE 3.96 200 eP 25 04.39 0.4
AUW 3.96 201 eP 25 04.17 0.1
AUH 3.96 201 eP 25 04.42 0.2
AUI 3.99 200 eP 25 05.27 0.8
FYU 4.21 31 ePc 25 06.90 -0.5
MID 4.24 148 P 25 07.10 -0.7
CROM 4.28 120 eP 25 07.57 -1.1
MCNL 4.29 206 eP 25 07.32 -1.3
TGL 4.40 119 ePc 25 08.81 -1.4
CDD 4.41 200 eP 25 09.79 -0.4
BALM 4.45 114 iPc 25 09.42 -1.4

HCY	1.57	326	iPgc	13	03.70	0.2	SBF	0.75	238	Pg	21	13.00	0.5	BAI	0.80	53	P	44	23.50	0.8		
			iSg	13	26.22					Sg	21	22.80					eSg	44	34.50			
IVA	1.73	5	iPg	13	06.40	0.5	DOI	0.80	288	P	21	12.90	-0.5	BRT	0.93	75	P	44	23.70	-0.9		
			iSg	13	29.31					eSg	21	21.10					eSg	44	36.40			
NKY	1.74	343	iPnd	13	06.36	0.3	PZZ	0.90	286	P	21	14.64	-0.5	S.D. = 0.9 on 5 of 5 obs.								
			iSn	13	29.15					S	21	26.50		FEB 06, 1993 19h 18m 02.91± 0.47s								
BRY	1.94	335	iPnd	13	09.82	0.7	BHB	0.95	308	P	21	15.38	-0.4	19.416 N ± 5.9km 65.175 W ± 6.0km								
			iSn	13	35.48					S	21	27.74		DEPTH = 10.0km (geophysicist)								
PLE	2.19	355	iPnc	13	13.71	1.1	FRF	1.40	240	Pg	21	23.40	0.2	4.5mb (3 obs.)								
			iSn	13	40.91					Sg	21	42.20		PUERTO RICO REGION (90)								
S.D. = 0.7 on 11 of 11 obs.							LMR	1.61	235	Pg	21	26.00	-0.2	ML 4.6 (FDF).								
										Sg	21	45.90										
FEB 06, 1993 18h 15m 23.48± 1.06s							LRG	1.63	241	Pg	21	27.80	1.3	LPR	1.28	211	P	18	26.30	-0.4		
31.782 S ± 6.0km 71.897 W ± 10.4km										Sg	21	48.10		CPD	1.54	207	P	18	30.40	-0.1		
DEPTH = 33.0km (normol)							LPG	1.66	318	Pg	21	30.40	3.2	SJG	1.59	216	iP	18	31.00	-0.2		
NEAR COAST OF CENTRAL CHILE (135)										Sg	21	49.10		APR	1.76	237	P	18	34.00	0.4		
MD 4.5 (SAN).							S.D. = 1.1 on 15 of 15 obs.							LRS	1.94	235	P	18	36.00	-0.2		
							% FEB 06, 1993 18h 23m 34.87± 0.93s							PORP	1.94	226	P	18	36.30	0.1		
IHA	1.26	170	ePn	15	45.10	0.3	44.296 N ± 8.7km 8.297 E ± 8.4km							MGP	2.29	233	P	18	41.50	0.1		
			iPg	15	47.70		DEPTH = 10.0km (geophysicist)							MGH	3.89	133	eP	19	08.50	4.5X		
			iSn	16	01.50		NORTHERN ITALY (545)										S	19	55.00			
			iSg	16	04.60		ML 2.0 (GEN).							BPA	3.94	126	eP	19	04.50	-0.2		
ROCH	1.40	148	iP+	15	46.95	-0.2	FIN	0.11	216	P	23	37.73	0.0	MGG	5.06	133	eP	19	21.00	0.3		
JACH	1.42	129	iPd	15	46.83	-0.5				S	23	39.38		TOV	10.56	206	eP	20	39.00	1.5		
			iS	16	05.64		PCP	0.30	36	P	23	41.21	0.0				eS	22	29.80			
PEL	1.70	143	iPd	15	51.35	0.0				S	23	45.14		SDV	11.73	208	eP	20	53.10	-0.4		
			iS	16	14.66		ROB	0.31	270	P	23	41.44	0.2				e(S)	23	06.00			
LCCH	1.71	171	iP	15	51.11	-0.3				S	23	45.60		SIV	35.42	173	P	25	04.20	2.9X		
			iS	16	13.76		IMI	0.48	217	P	23	44.73	0.0	ZOBO	35.60	185	P	25	03.10	-0.4		
SAN	1.97	148	iP	15	56.03	0.9				S	23	52.10					LR	35	28.00			
TACH	2.03	157	iP	15	56.25	0.1	ENR	0.63	264	P	23	47.39	-0.3	CNCB	36.10	185	P	25	06.20	-1.5		
			iS	16	23.29		STV	0.70	266	P	23	48.80	0.0	LCCM	46.47	315	eP	26	33.30	1.2		
FCH	2.05	139	iP	15	56.46	-0.2	S.D. = 0.2 on 6 of 6 obs.							SES	47.58	322	eP	26	41.00	0.3		
RTBS	2.09	87	ePc	15	58.40	1.6	FEB 06, 1993 18h 40m 37.29± 0.29s							YKA	54.71	334	eP	27	32.20	-2.2		
			S	16	26.50		40.948 N ± 2.8km 22.406 E ± 2.5km										0.5s	0.90nm	4.1mb			
PCH	2.17	148	iPd	15	58.15	0.0	DEPTH = 10.0km (geophysicist)							PGC	54.80	316	ePd	27	51.00	15.8X		
			iS	16	27.22		GREECE (364)										0.5s	34.00nm				
LVN	2.21	169	eP	15	57.79	-0.7	ML 3.1 (SKO).							KIC	60.05	94	P	28	12.80	-0.1		
			iS	16	28.02		GRG	0.01	336	ePg	40	40.28	1.1	DAG	61.87	11	eP	28	24.00	-0.3		
CHCH	2.39	154	iP	16	01.21	0.0				eSg	40	43.00					0.7s	2.74nm	4.5mb			
CACH	2.57	155	iP	16	04.57	0.7	VAY	0.39	18	iPg	40	45.40	0.1	BCAO	82.62	88	ePd	30	29.60	1.2		
RTCB	2.66	84	iPc	16	06.20	1.2				iSg	40	50.40					1.0s	5.00nm	4.6mb			
			S	16	40.50		KNT	0.43	60	ePg	40	46.32	0.3	CNB	145.69	235	ePKP	37	44.60	0.9		
MDZ	2.80	114	eP	16	10.40	3.4X				iSg	40	53.96		S.D. = 0.9 on 20 of 23 obs.								
			iS	16	56.80		THE	0.53	126	ePg	40	48.90	0.9	& FEB 06, 1993 19h 41m 32.66s								
RTCV	2.86	92	iPc	16	09.00	1.2				eSg	40	57.50		59.025 N 152.822 W								
			iS	16	49.00		SOH	0.73	100	iPg	40	51.64	0.0	DEPTH = 68.0km								
RTLL	2.96	82	iPc	16	10.50	1.2				eSg	41	03.00		SOUTHERN ALASKA (2)								
			iS	16	48.00		FNA	0.80	258	ePg	40	52.48	-0.4	<AEIC>. ML 2.7 (AEIC).								
CFA	3.12	88	ePc	16	12.80	1.2				eSg	41	02.00		CDD	0.44	258	eP	41	44.17	-0.7		
			S	16	54.20		LIT	0.85	176	ePg	40	53.28	-0.4	AUE	0.44	320	eP	41	44.60	-0.3		
RFA	4.14	137	ePc	16	24.70	-1.3				eSg	41	06.10		AUI	0.44	315	eP	41	44.34	-0.6		
			(S)	17	29.70		SRS	0.91	79	ePg	40	54.48	-0.3				eS	41	53.28			
RTPR	4.85	74	eP	16	35.40	-0.6				eSg	41	07.50		AUH	0.47	317	eP	41	44.79	-0.5		
			(S)	17	30.30		MMB	1.18	57	iPg	40	59.00	-0.4	SYI	0.47	151	iP	41	44.54	-0.6		
MRA	5.29	98	ePd	16	40.80	-1.4	OHR	1.23	278	iPg	41	00.10	-0.1				eS	41	53.44			
CYA	6.25	59	eP	17	04.00	8.2X				iSg	41	16.60		AUL	0.48	319	eP	41	44.91	-0.3		
TCA	6.25	88	iPd	16	53.10	-2.8	SKO	1.25	325	iPg	41	22.10		AUW	0.48	316	eP	41	44.89	-0.4		
			(S)	18	08.00					Lg	41	00.60	0.0	OPT	0.66	342	eP	41	46.82	-0.4		
FSA	7.67	44	eP	17	14.00	-1.6				0.3s	125.00nm					eS	41	57.82				
SIV	18.55	35	P	19	40.00	0.3	OUR	1.35	117	ePb	41	02.17	0.1	XLV	0.71	52	eP	41	46.95	-0.8		
GBA	146.59	116	PKP	35	02.00	-0.1	PAIG	1.41	136	ePb	41	03.20	0.2	MCNL	0.80	282	eP	41	48.12	-0.7		
HYB	149.68	111	ePKP	35	08.00	1.0				eSb	41	23.20					eS	41	59.62			
S.D. = 1.1 on 25 of 27 obs.							VTS	1.75	20	iPd	41	08.00	0.0	PDB	1.04	318	eP	41	50.89	-0.9		
							RZN	1.89	66	iP	41	10.00	-0.1				eS	42	04.59			
FEB 06, 1993 18h 20m 57.70± 1.09s							AGG	1.92	182	ePb	41	10.60	0.2	INE	1.05	353	eP	41	51.25	-0.8		
44.266 N ± 6.4km 8.316 E ± 9.0km							PGB	2.07	39	iP	41	12.00	-0.6				eS	42	05.36			
DEPTH = 10.0km (geophysicist)							IGT	2.13	229	ePn	41	13.10	-0.2	INW	1.06	352	eP	41	51.39	-0.8		
NORTHERN ITALY (545)							KDZ	2.37	72	eP	41	17.00	0.1				eS	42	05.66			
ML 2.2 (GEN).							ALN	2.76	90	ePn	41	21.72	-0.6	ILIM	1.06	356	eP	41	51.36	-0.8		
							S.D. = 0.5 on 20 of 20 obs.									eS	42	05.73				
FIN	0.10	234	P	21	00.18	-0.2	% FEB 06, 1993 18h 44m 07.91± 0.87s							BRK	1.24	52	eP	41	54.15	-0.3		
			S	21	01.78		40.637 N ± 11.9km 16.023 E ± 8.6km									eS	42	10.17				
CKI	0.16	351	P	21	01.00	-0.4	DEPTH = 33.0km (normol)							KDC	1.29	172	(P)	41	52.43	-2.7		
			eSg	21	03.50		SOUTHERN ITALY (390)		RS1	1.44	1	eP	41	57.12	-0.2	RSO	1.44	1	eP	41	56.84	-0.5
PCP	0.32	31	P	21	03.62	-0.8				eS	42	15.04					eS	42	15.04			
			S	21	07.96		SGO	0.55	262	P	44	19.00	-0.2	RS2	1.44	1	eP	41	56.74	-0.7		
ROB	0.32	275	P	21	03.84	-0.6				eSg	44	29.00					S	42	15.57			
			S	21	08.24		MGR	0.61	216	P	44	20.20	0.1	RDW	1.46	0	eP	41	57.23	-0.4		
IMI	0.47	221	P	21	06.82	-0.5				eSg	44	28.70					S	42	15.80			
			S	21	13.45		ORI	0.66	150	P	44	21.00	0.2	REF	1.47	2	iP	41	57.37	-0.4		
ENR	0.65	267	P	21	09.89	-0.8				eSg	44	29.30					eS	42	15.71			
			S	21	18.49																	
STV	0.71	269	P	21	11.40	-0.4																

06d 19h

NCT 1.54 358 eP 41 58.25 -0.4
 eS 42 17.83
 RDT 1.57 8 eP 41 57.74 -1.2
 DFR 1.57 2 eP 41 58.77 -0.3
 NKA 1.90 24 eP 42 02.99 -0.4
 SLKM 1.99 40 eP 42 03.81 -0.9
 CKL 2.19 6 eP 42 07.23 -0.4
 SPU 2.20 10 eP 42 07.21 -0.4
 BGL 2.26 5 eP 42 07.72 -0.8
 CPAM 2.26 8 P 42 08.47 -0.1
 MPA 2.29 49 eP 42 08.68 -0.1
 SVW 2.52 327 P 42 11.00 -1.1
 PTE 2.66 44 eP 42 12.24 -1.7
 PMS 2.76 35 P 42 14.60 -0.9
 KNIM 2.90 61 eP 42 15.19 -2.2
 PLRM 3.16 34 eP 42 19.40 -1.7
 PMR 3.16 34 (P) 42 17.95 -3.1
 KNK 3.24 40 eP 42 20.11 -2.1
 GHO 3.37 33 eP 42 22.55 -1.5
 SML 3.57 37 eP 42 24.53 -2.3
 VZW 3.75 54 eP 42 27.59 -1.7
 KLU 4.24 51 eP 42 33.23 -3.0

42 obs. associated

% FEB 06, 1993 22h 01m 30.56±0.74s
 40.220 N ± 7.5km 29.531 E ± 6.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

YLV 0.37 341 iPg 01 37.40 -0.7
 EYL 0.59 54 iPg 01 42.10 -0.5
 iSg 01 52.40
 GPA 0.60 83 ePg 01 43.40 0.7
 eSg 01 52.90
 KCT 0.90 272 iPg 01 48.00 0.2
 eSg 02 01.70
 DST 0.93 229 iPg 01 46.80 -1.5
 eSg 01 58.80
 BNT 1.24 277 ePn 01 55.20 1.6
 ALT 1.25 159 ePn 01 54.00 0.2

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

FEB 06, 1993 22h 12m 00.36±0.70s
 38.234 N ± 6.0km 22.885 E ± 9.7km
 DEPTH = 33.0km (normal)

GREECE (364)

ML 3.0 (ATH).

ATH 0.71 111 ePb 12 14.50 0.6
 AGG 0.90 331 ePg 12 17.40 0.7
 eSg 12 28.10
 VLI 1.51 178 ePb 12 25.00 -0.4
 PAIG 1.80 20 ePb 12 29.42 -0.1
 KZN 2.24 338 ePn 12 35.00 -1.0
 OUR 2.26 22 ePb 12 35.70 -0.5
 SOH 2.61 8 ePn 12 40.78 -0.4
 GRG 2.74 352 ePn 12 44.20 1.2
 FNA 2.80 336 ePn 12 46.66 2.8X
 KNT 2.92 0 ePn 12 45.90 0.3
 eSn 13 19.30
 SRS 2.93 11 ePn 12 45.06 -0.6
 VAY 3.09 356 ePn 12 44.30 -3.7X
 OHR 3.29 331 ePn 12 51.00 0.1

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

% FEB 06, 1993 22h 56m 13.77±1.47s
 38.031 N ± 26.8km 14.156 E ± 9.1km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

GIB 0.11 248 P 56 16.20 -0.5
 eSg 56 18.50
 MNO 0.44 103 P 56 22.20 -0.5
 eSg 56 28.10
 MCT 0.58 226 P 56 26.00 0.4
 eSg 56 33.00
 ATN 1.04 82 P 56 33.40 0.0
 eSg 56 48.80
 SOI 1.50 88 P 56 41.30 0.6
 eSg 57 02.00

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

* FEB 06, 1993 23h 26m 55.19±3.86s
 33.347 S ± 8.1km 70.391 W ± 18.1km
 DEPTH = 93.7 ± 32.5 km
 CHILE-ARGENTINA BORDER REGION (127)

MD 3.6 (SAN).

FCH 0.09 77 iP 27 08.77 -0.3
 iS 27 19.69
 SAN 0.25 245 iP 27 09.23 0.0
 iS 27 20.36
 PCH 0.29 201 iP 27 09.39 0.1
 iS 27 20.46
 PEL 0.32 309 iPd 27 09.56 0.2
 iS 27 20.84
 TACH 0.55 236 iP 27 10.87 -0.1
 iS 27 23.59
 CHCH 0.62 200 iP 27 11.46 -0.2
 iS 27 24.62
 ROCH 0.64 306 iP 27 12.11 0.1
 iS 27 25.47
 JACH 0.68 346 iP+ 27 12.17 -0.1
 iS 27 26.03
 CACH 0.79 193 iP 27 13.72 0.4
 iS 27 28.16
 LCCH 0.99 262 iP 27 15.48 0.1
 LNV 1.05 234 iP 27 15.49 -0.4

S.D. = 0.3 on 11 of 11 obs.

% FEB 06, 1993 23h 36m 24.98±1.14s
 41.234 S ± 7.7km 172.533 E ± 6.9km
 DEPTH = 244.6 ± 11.9 km

SOUTH ISLAND, NEW ZEALAND (162)

ORZ 0.41 360 P 36 57.00 0.1
 S 37 17.60
 THZ 0.60 152 Pc 36 57.90 0.4
 S 37 19.40
 DSZ 0.75 227 P 36 58.20 -0.3
 DIW 1.14 68 P 37 00.20 -0.3
 TCW 1.32 90 P 37 01.60 -0.1
 CCW 1.37 113 P 37 02.30 0.2
 KHZ 1.40 148 Pc 37 02.30 0.0
 S 37 27.40
 LTZ 1.56 187 Pc 37 03.70 0.1
 S 37 29.40
 MRW 1.64 91 Pc 37 04.00 -0.2
 S 37 30.00
 WEL 1.69 93 P 37 04.40 -0.1
 KIW 1.84 79 Pc 37 05.80 0.0
 CAW 1.92 87 P 37 06.50 -0.1
 MOW 2.06 96 P 37 07.90 0.0
 BLW 2.22 94 P 37 09.60 0.2
 MTW 2.24 89 P 37 09.80 0.2
 MNG 2.32 76 P 37 10.30 -0.1
 S 37 41.60
 BSZ 2.32 53 eP 37 10.50 0.1
 MOZ 2.47 178 P 37 11.50 -0.4
 S 37 44.00
 LMZ 3.46 223 P 37 22.80 0.2
 URZ 4.61 51 eP 37 36.30 0.0

S.D. = 0.2 on 20 of 20 obs.

& FEB 07, 1993 01h 38m 36.02s

57.114 N 155.035 W
 DEPTH = 38.4km
 4.1mb (5 obs.)
 ALASKA PENINSULA (12)
 <AEIC>. ML 3.8 (AEIC). Felt (iv)
 at Larsen Bay.

KDC 1.52 64 eP 38 59.66 -1.4
 CDD 1.97 22 iP 39 06.39 -1.2
 S 39 30.33
 SYI 2.06 42 eP 39 07.62 -1.3
 S 39 32.30
 MCNL 2.11 10 iP 39 08.39 -1.3
 AUI 2.38 20 eP 39 13.09 -0.4
 eS 39 40.86
 AUH 2.41 20 eP 39 13.80 -0.1
 AUW 2.41 19 eP 39 13.40 -0.4
 AUE 2.42 21 eP 39 13.55 -0.4
 AUL 2.43 20 eP 39 13.86 -0.2
 OPT 2.72 20 eP 39 18.09 -0.2
 PDB 2.72 9 iP 39 16.73 -1.5
 S 39 45.94
 XLV 2.93 35 P 39 18.70 -2.5
 INW 3.13 18 eP 39 22.96 -1.2
 INE 3.13 18 eP 39 23.01 -1.2
 ILIM 3.17 19 eP 39 23.36 -1.3
 BRLL - 3.44 38 eP 39 27.20 -1.3
 SDN 3.53 242 eP 39 34.35 4.6

RS1 3.56 18 eP 39 29.25 -1.1
 RS2 3.56 18 eP 39 29.47 -1.0
 RSO 3.56 19 eP 39 29.22 -1.2
 RDW 3.57 18 eP 39 29.01 -1.5
 REF 3.60 19 eP 39 29.46 -1.4
 RDN 3.61 18 eP 39 30.24 -0.8
 NCT 3.63 17 eP 39 29.53 -1.7
 DFR 3.70 18 eP 39 31.04 -1.2
 SVW 4.02 356 eP 39 34.61 -2.2
 NKA 4.14 27 eP 39 37.70 -0.7
 SEW 4.19 42 eP 39 35.14 -3.9
 SLKM 4.22 34 eP 39 36.69 -3.0
 CKL 4.32 18 eP 39 39.18 -1.9
 CKT 4.35 18 eP 39 39.29 -2.2
 SPU 4.36 19 eP 39 39.30 -2.3
 CKN 4.38 18 eP 39 39.45 -2.3
 BGL 4.38 17 eP 39 40.05 -1.8
 CP2 4.40 18 eP 39 38.22 -4.1
 CPAM 4.41 18 eP 39 40.45 -1.9
 CRP 4.42 18 eP 39 40.15 -2.4
 MPA 4.49 39 eP 39 40.05 -3.3
 LTI 4.77 49 eP 39 43.78 -3.5
 MTU 4.82 50 eP 39 44.36 -3.7
 PTE 4.88 37 eP 39 45.12 -3.7
 SUA 4.89 25 eP 39 46.35 -2.7
 KNIM 5.00 46 eP 39 46.34 -4.2
 PMS 5.01 32 P 39 47.00 -3.7
 HIN 5.53 50 eP 39 53.74 -4.3
 CFI 5.53 39 eP 39 53.90 -4.1
 GLI 5.58 44 eP 39 54.13 -4.5
 BALM 7.63 54 eP 40 22.81 -4.7
 FBA 8.56 21 eP 40 36.17 -4.2
 IMA 9.01 4 (P) 40 43.66 -3.0
 YKA 20.76 58 eP 43 11.30 -4.3
 0.4s 0.60nm 3.3mb
 RMW 22.29 101 (P) 43 33.25 2.0
 NEW 24.34 95 (P) 43 51.50 0.4
 0.9s 6.14nm 4.1mb
 epP 44 06.00 61kmX
 8W06 31.92 97 eP 44 58.59 -1.6
 1.0s 1.67nm 3.9mb
 SRU 33.98 103 eP 45 17.90 -0.1
 epP 45 33.05 61kmX
 RSSD 34.04 90 eP 45 17.50 -1.0
 1.0s 2.98nm 4.2mb
 PLM 35.16 116 eP 45 29.05 0.9
 PV08 35.37 101 eP 45 29.30 -0.8
 epP 45 44.62 60kmX
 NB2 61.69 8 P 48 47.70 -4.3
 0.8s 1.70nm 4.2mb
 59 obs. associated

FEB 07, 1993 02h 39m 50.18±0.57s
 18.625 S ± 4.3km 169.315 E ± 6.1km
 DEPTH = 251.8 ± 5.5 km
 4.7mb (17 obs.)

VANUATU ISLANDS (186)

PVC 1.30 313 iP 40 27.20 -0.3
 iS 40 56.50
 BKM 1.39 313 iP 40 27.50 -0.7
 iS 40 56.50
 DZM 4.36 218 iPc 40 58.90 0.0
 iS 41 54.70
 HNR 12.88 314 eP 42 44.50 -1.3
 SVO 13.18 314 eP 42 52.00 2.6
 BRS 17.53 237 iPc 43 40.00 -0.2
 1.0s 5.00nm 4.0mb
 ARMA 19.89 230 eP 44 05.00 0.8
 1.0s 14.00nm 4.4mb
 HBZ 20.48 159 eP 44 11.40 1.6
 RMO 20.52 244 iPd 44 11.30 0.9
 0.5s 22.00nm 4.9mb
 URZ 20.71 162 eP 44 13.50 1.4
 PAHZ 21.25 163 P 44 19.50 2.0
 NOZ 21.32 161 P 44 19.00 1.0
 CTA 21.80 262 iPc 44 25.00 2.1
 0.8s 14.93nm 4.6mb
 WAHZ 21.87 165 P 44 24.20 0.8
 TEHZ 22.25 165 eP 44 27.10 0.0
 MNG 22.55 168 P 44 29.90 -0.1
 KIW 22.68 169 P 44 31.00 -0.2
 TCW 22.91 170 P 44 34.10 0.7
 CAW 22.95 169 P 44 33.10 -0.7
 MRW 23.00 170 P 44 33.50 -0.8
 MTW 23.08 168 P 44 33.60 -1.4
 THZ 23.27 173 eP 44 37.20 0.4

BLW	23.27	168	P	44	34.40	-2.5	TIG	145.26	320	iPKPd	58	57.72	-1.6	SBF	150.59	333	iPKPc	59	11.90	4.1X
MOW	23.28	169	eP	44	34.80	-2.2	BRY	145.43	321	iPKPd	58	59.13	-0.7		0.9s	17.35nm				
KHZ	23.99	172	eP	44	43.70	0.2	KBA	145.45	331	iPKPd	58	59.00	-0.8	LSF	150.66	343	iPKPc	59	12.20	4.4X
LTZ	24.21	175	P	44	45.10	-0.5	ULC	145.52	319	iPKPd	58	57.36	-2.5X		0.6s	6.75nm				
CMS	24.77	234	iPc	44	50.90	0.1	YRH	145.53	354	ePKP	58	58.20	-1.3	MFF	150.78	345	ePKP	59	12.70	4.8X
STK	28.24	237	eP	45	21.50	-0.7	FUR	145.55	334	ePKP	58	57.60	-2.1X		0.6s	6.60nm				
	0.6s	7.90nm			4.5mb		BDV	145.61	320	iPKPd	58	58.46	-1.5	PGF	150.89	329	iPKPc	59	13.10	4.7X
		e		46	07.20		LJU	145.62	328	ePKP	58	59.00	-0.9		0.7s	22.40nm				
ASPA	33.35	255	iPd	46	05.10	-1.7					00	06.00		FRF	151.17	333	ePKP	59	13.30	4.7X
	0.5s	127.80nm			5.8mb	X	VBY	145.63	327	i(PKP)	59	00.50	0.6		0.9s	9.15nm				
WARB	40.02	251	eP	47	01.80	-0.7	HCV	145.71	320	iPKPd	58	59.11	-1.0	LMR	151.41	333	iPKPc	59	14.00	5.0X
KMI	78.01	302	Pd	51	24.00	1.1	RBL	145.81	330	PKP	58	59.40	-0.9		0.7s	6.50nm				
	1.0s	30.00nm			5.0mb		ETA	145.82	355	ePKP	59	01.10	1.1	RJF	151.52	342	ePKP	59	14.40	5.3X
HHC	79.80	319	eP	51	32.80	0.8	VOY	145.95	329	ePKP	59	00.00	-0.6		0.6s	2.45nm				
	1.0s	10.00nm			4.5mb		SNF	146.02	343	PKP	59	02.10	1.8	LFF	152.08	343	ePKP	59	15.80	5.9X
SVW	84.29	16	eP	51	54.58	0.0	FVI	146.07	331	PKP	59	00.40	-0.1		0.8s	7.95nm				
	1.2s	66.55nm			5.3mb		WTTA	146.09	332	iPKPd	59	01.40	0.5	LPO	152.19	342	ePKP	59	16.00	5.9X
SLKM	85.35	19	eP	51	58.55	-1.2									0.7s	5.20nm				
CP2	85.35	18	(P)	51	58.50	-1.5	ECB	146.19	356	ePKP	59	01.00	0.4	S.D. = 1.1 on 116 of 160 obs.						
ARN	85.57	48	eP	52	01.69	0.3	WLF	146.21	340	iPKPc	59	01.61	0.9	% FEB 07, 1993 02h 46m 39.99±5.10s						
YAK	86.29	342	iPd	52	04.00	-0.3	LANF	146.23	338	PKP	59	00.74	-0.1	16.525 N ±41.3km 99.637 W ±14.8km						
	1.5s	55.00nm			5.2mb		DOU	146.30	342	PKPc	59	01.40	0.6	DEPTH = 10.0km (geophysicist)						
LGPM	86.34	45	iPc	52	05.77	0.6								NEAR COAST OF GUERRERO, MEXICO (58)						
ORV	86.61	46	ePc	52	06.22	-0.1	ECP	146.34	355	ePKP	59	01.10	0.3							
SSK	87.01	53	eP	52	08.61	0.0														
ISA	87.04	51	iPc	52	08.50	-0.1	WLS	146.87	338	PKP	59	02.53	0.6	ACX	0.40	328	iP	46	48.50	0.3
	0.8s	10.91nm			4.7mb		CDF	146.90	338	PKP	59	02.97	1.0		iS			46	51.00	
LBFM	87.17	45	ePd	52	09.87	0.6	SLE	146.99	336	ePKPc	59	02.80	0.7	PPM	2.70	21	(P)	47	24.50	-0.3
PEC	87.28	53	eP	52	09.46	-0.3	CTI	147.00	331	PKP	59	03.50	1.2		(S)			47	56.00	
	0.5s	7.72nm			4.8mb		FEL	147.08	337	PKP	59	03.25	0.9	UNM	2.82	9	iP	47	27.00	0.7
PLM	87.28	54	eP	52	10.08	0.1	ECH	147.11	338	PKP	59	03.33	1.1		iS			47	55.00	
GSC	88.12	52	eP	52	13.84	0.0	OSS	147.18	333	iPKPc	59	04.30	1.7	OXX	2.85	78	iP	47	36.00	9.5X
BONR	88.14	49	eP	52	13.42	-0.7	ZLA	147.26	336	ePKPc	59	03.70	1.1		iS			48	11.00	
GLA	88.72	55	eP	52	17.16	0.5	MOF	147.43	337	PKP	59	04.34	1.5	MRX	3.49	335	iP	47	34.00	-1.4
BMV	88.75	40	eP	52	16.37	-0.1	LLS	147.52	335	ePKPc	59	04.60	1.4		iS			48	06.50	
KVN	88.75	48	eP	52	17.39	0.6	VITF	147.52	339	PKP	59	04.54	1.7	CGX	4.82	312	(P)	47	55.00	0.5
TNP	88.97	49	eP	52	18.00	0.1	BSF	147.57	338	ePKP	59	04.80	1.7		S.D. = 1.2 on 5 of 6 obs.					
	0.9s	5.08nm			4.4mb															
SHW	89.22	40	eP	52	19.19	0.4	HAU	147.58	338	iPKPc	59	04.80	1.8	& FEB 07, 1993 03h 25m 48.00s						
FBA	89.47	17	eP	52	17.38	-2.0								34.228 N 116.762 W						
	1.0s	7.56nm			4.6mb		LOMF	147.96	337	PKP	59	05.91	2.2X	DEPTH = 6.0km (geophysicist)						
GMW	89.53	39	eP	52	20.13	0.1	BCAO	148.16	247	iPKPc	59	07.00	2.1X	SOUTHERN CALIFORNIA (43)						
LON	89.74	40	eP	52	20.54	-0.5								<PAS-P>. ML 3.0 (PAS).						
MCW	90.04	38	eP	52	23.43	1.1														
RNW	90.08	39	ePc	52	22.67	0.1	TMA	148.18	334	ePKPc	59	06.50	2.3X	PEC	0.47	225	eP	25	56.61	-0.9
ARUT	91.59	51	eP	52	29.99	0.1	ARV	148.21	326	PKP	59	07.30	3.2X	SSK	0.77	269	iPc	26	02.15	-1.4
TUC	91.61	57	eP	52	30.24	0.2	VAI	148.41	334	PKP	59	06.50	2.2X	PLM	0.88	185	eP	26	03.91	-1.4
	1.1s	14.43nm			4.9mb		SFI	148.47	328	PKP	59	08.20	3.7X	GSC	1.07	358	eP	26	07.56	-1.0
MSU	92.79	50	eP	52	35.98	0.5	PGD	148.57	328	PKP	59	08.40	3.5X		eS			26	22.01	
NEW	93.26	40	eP	52	37.29	0.1	MMK	148.60	335	ePKPc	59	08.10	3.1X	GLA	2.00	125	(Pn)	26	20.40	-2.3
	1.0s	6.00nm			4.6mb		ASS	148.65	326	PKP	59	07.70	2.8X		ePg			26	24.75	
SRU	94.21	50	eP	52	41.96	0.0	AQU	148.74	324	PKP	59	08.50	3.4X	BONR	3.92	342	(Pn)	26	52.21	1.8
PV09	95.02	51	(P)	52	47.35	1.5	DIX	148.80	335	ePKPc	59	08.70	3.4X		ePg			27	01.36	
PV10	95.05	51	eP	52	45.96	0.0	FLN	148.82	347	iPKPc	59	07.70	2.8X	6 obs. associated						
PV08	95.40	51	eP	52	47.58	-0.1														
YKA	100.09	27	ePd iff	53	06.60	-1.3	MME	148.84	330	PKP	59	08.10	2.7X	FEB 07, 1993 04h 04m 59.55±0.98s						
	0.8s	3.00nm			4.8mb		LDF	148.90	346	iPKPc	59	07.90	2.9X	45.891 N ±8.3km 14.806 E ±8.4km						
RSSD	100.39	47	(Pd iff)	53	10.93	1.0								DEPTH = 10.0km (geophysicist)						
	1.0s	4.65nm			4.9mb		ORO	148.94	334	PKP	59	08.60	3.2X	NORTHWESTERN BALKAN REGION (383)						
NB2	134.87	345	PKP	58	39.10	-1.1	BDI	148.98	329	PKPc	59	07.20	1.8	MD 2.8 (LJU).						
	0.7s	1.00nm					BOB	148.98	332	PKP	59	08.80	3.4X	LJU	0.24	309	iPgc	05	04.70	-0.1
MOX	143.45	336	ePKP	58	53.00	-3.1X	LOR	149.04	341	iPKPc	59	08.60	3.3X		iSg			05	08.30	
	1.6s	22.00nm												CEY	0.31	240	ePg	05	07.30	1.4
VAY	143.72	316	iPKP	58	53.30	-3.5X	GRR	149.26	347	iPKPc	59	09.00	3.4X		iSg			05	13.50	
KHC	143.83	333	ePKP	58	54.30	-2.5X								VBY	0.50	141	iPg	05	09.50	-0.2
	1.2s	12.50nm					LBF	149.26	340	iPKPc	59	09.30	3.6X		iSg			05	16.90	
		e		59	23.50									VOY	0.65	283	iPgc	05	12.00	-0.6
GRF	144.37	335	ePKPc	58	56.00	-1.7	PII	149.27	329	PKP	59	07.70	2.0		eSg			05	22.50	
IVA	144.62	320	iPKPd	58	57.17	-1.2	SSF	149.34	341	iPKPc	59	09.50	3.7X	TRI	0.75	256	ePg	05	12.70	-1.5
PLE																				

07d 05h

Data Used: GDSN
 L.P.B.: 34S, 60C
 Centroid Location:
 Origin Time 05:02:52.9 0.5
 Lat 28.75S 0.07 Lon 176.66W 0.05
 Dep 19.5 3.1 Half-duration 1.2
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.75 0.04 Mtt= 0.04 0.06
 Mff=-0.79 0.06 Mrt= 0.32 0.10
 Mrf= 1.06 0.21 Mtf=-0.24 0.04
 Principal Axes:
 T Val= 1.32 Plg=63 Azm=288
 N 0.10 1 196
 P -1.42 27 106
 Best Double Couple: Ma=1.4*10**17
 NP1:Strike=193 Dip=18 Slip= 86
 NP2: 17 72 91

SVA 11.78 338 eP 05 51.20 14.9X
 THZ 15.04 211 eP 06 13.10 -6.3X
 KHZ 15.31 208 eP 06 13.00 -9.8X
 S 08 55.00
 DSZ 15.54 213 eP 06 20.40 -5.5X
 LTZ 16.14 210 eP 06 26.60 -7.0X
 DZM 16.57 291 iPc 06 44.00 4.7X
 BKM 17.77 307 iP 06 57.50 3.4X
 BRS 26.71 266 iPc 08 28.20 1.9
 0.7s 4.00nm 4.2mb X
 eS 12 54.00
 CAN 29.37 249 e(P) 08 51.00 0.7
 i 08 55.50 16km
 e 09 07.40
 BWA 29.83 251 e(P) 08 52.60 -1.8
 i 09 06.10 53kmX
 RMO 30.41 267 iPd 09 00.50 0.9
 0.8s 24.00nm 5.1mb
 CTA 34.56 277 iPd 09 35.50 -0.3
 0.8s 10.26nm 4.8mb
 STK 35.69 255 P 09 46.09 0.7
 ASPA 44.13 265 iPc 10 53.70 -1.7
 0.6s 22.90nm 5.2mb
 Z 21s 6.90um 5.5MsZ
 CSY 56.67 207 eP 12 29.00 -1.2
 0.5s 20.70nm 5.4mb
 SPA 61.00 180 iPc 13 01.20 0.7
 0.8s 20.83nm 5.3mb
 MAT 77.77 324 eP 14 41.00 -2.6
 1.5s 47.22nm 5.3mb
 eS 24 44.00
 BCH 83.47 44 eP 15 13.67 -0.3
 epP 15 20.74 22km
 SSE 84.01 310 eP 15 20.00 3.3X
 Z 20s 0.90um 5.1MsZ
 ISA 84.76 44 eP 15 20.47 0.0
 1.5s 32.11nm 5.3mb
 GLA 85.38 48 eP 15 23.98 0.4
 epP 15 30.87 22km
 GSC 85.55 45 eP 15 24.20 -0.2
 epP 15 31.14 22km
 ORV 85.63 40 eP 15 24.83 0.2
 epP 15 31.19 20km
 NJ2 86.16 310 Pc 15 28.70 1.3
 Z 22s 0.30um 4.6MsZ
 BONR 86.38 43 eP 15 29.38 0.6
 TUC 87.61 51 eP 15 34.64 0.1
 1.2s 23.82nm 5.4mb
 WHN 88.36 306 eP 15 43.00 5.0X
 ARUT 89.22 45 eP 15 42.67 0.4
 BMW 89.57 34 eP 15 43.49 0.0
 epP 15 50.83 23km
 CN2 89.73 322 eP 15 45.00 0.7
 1.6s 58.00nm 5.6mb
 Z 20s 0.61um 5.0MsZ
 TIA 89.83 312 eP 15 44.40 -0.5
 Z 33s 1.34um 5.2MsZ
 MSU 90.45 45 eP 15 48.43 0.4
 epP 15 55.37 22km
 GMW 90.54 33 eP 15 48.00 0.1
 GYA 91.76 299 P 15 53.80 -0.4
 SRU 91.84 46 eP 15 53.52 -0.8
 ALQ 92.07 51 eP 15 55.02 -0.5
 1.3s 11.27nm 5.1mb
 HVU 92.09 42 eP 15 55.49 0.1
 PV10 92.35 47 eP 15 56.34 -0.4
 BJI 92.71 315 eP 15 59.00 1.0
 1.8s 76.00nm 5.8mb
 Z 22s 0.43um 4.9MsZ

PV08 92.71 47 (P) 15 58.03 -0.5
 HHA1 93.26 41 (P) 16 01.36 0.7
 TIY 93.75 311 eP 16 03.00 0.0
 Z 30s 0.94um 5.1MsZ
 KMI 94.11 296 eP 16 04.00 -1.1
 pP 16 15.50 37kmX
 XAN 94.12 307 eP 16 06.00 1.2
 LCCM 95.09 40 eP 16 08.20 -0.9
 GOL 95.45 47 P 16 20.00 9.0X
 Z 18s 0.74um 5.2MsZ
 GLD 95.57 47 P 16 20.00 8.5X
 Z 18s 0.55um 5.1MsZ
 CD2 96.23 302 eP 16 16.60 2.1
 LPB 97.67 114 P 16 22.00 0.1
 Z 18s 0.69um 5.2MsZ
 LR 48 34.00
 ZOBO 97.78 113 P 16 24.00 1.4
 SKS 27 08.00
 LR 48 42.00
 RSSD 98.68 44 (P) 16 28.96 3.5X
 1.0s 9.56nm 5.3mb
 Z 19s 1.20um 5.4MsZ
 LZH 98.74 306 eP 16 30.00 4.1X
 1.5s 20.00nm 5.5mb
 Z 22s 0.46um 4.9MsZ
 GTA 103.13 308 Pd iff 16 50.00 4.5X
 Z 20s 0.58um 5.1MsZ
 GUN 108.83 292 PKP 21 00.00 -16.6X
 KSH 120.40 301 ePKP 21 36.50 -1.5
 KAF 143.69 342 ePKP 22 16.70 -4.1X
 OBN 144.67 327 ePKP 22 19.00 -3.7X
 1.5s 98.00nm
 e 22 22.00
 e 23 07.00
 e 23 25.00
 NUR 145.46 341 iPKP 22 20.40 -3.4X
 0.8s 40.10nm
 NB2 147.66 353 PKP 22 28.40 0.9
 0.8s 5.60nm
 UPP 147.76 346 iPKP 22 30.30 2.7X
 HFS 148.21 350 ePKP 22 28.30 0.0
 0.5s 3.90nm
 GAZ 150.46 295 ePKP 22 31.00 -1.5
 BCAO 151.37 214 iPKPc 22 34.50 -0.1
 1.0s 30.00nm
 ic 22 42.00
 HRI 151.84 287 ePKP 22 41.00 6.1X
 MML 152.09 285 ePKP 22 41.60 6.4X
 KAS 152.29 304 ePKP 22 42.00 6.8X
 PRNI 152.31 280 ePKP 22 41.90 6.4X
 CSS 153.78 291 ePKP 22 51.00 13.6X
 KSP 156.17 339 ePKP 22 50.00 9.9X
 e 23 07.70
 e 23 18.00
 BRG 156.83 342 ePKP 22 50.80 9.8X
 e 23 09.80
 S.D. = 1.0 on 44 of 70 obs.

% FEB 07, 1993 05h 51m 38.79± 0.83s
 30.307 S ± 7.2km 116.814 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 WESTERN AUSTRALIA (590)

BAL 0.31 197 iPd 51 45.00 -0.3
 IS 51 49.00
 MRWA 1.30 327 iPc 52 02.90 0.1
 eS 52 29.00
 KLB 1.52 148 eP 52 06.60 0.6
 eS 52 28.00
 MUN 1.74 197 eP 52 05.30 -4.0X
 eS 52 23.80
 COOL 3.78 100 eP 52 43.00 4.6X
 eS 53 26.00
 WARB 9.59 67 eP 54 00.00 0.1
 eS 55 43.00
 FORT 9.71 96 eP 54 01.00 -0.5
 eS 55 49.00
 S.D. = 0.6 on 5 of 7 obs.

% FEB 07, 1993 07h 46m 00.02± 0.94s
 41.761 N ± 10.3km 13.726 E ± 11.0km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SDI 0.09 129 Pd 46 02.50 -0.1
 eSg 46 05.00

AQU 0.64 338 P 46 11.60 -1.3
 eSg 46 21.10
 RMP 0.77 274 P 46 15.00 0.0
 eSg 46 26.00
 ASS 1.53 329 P 46 28.00 0.6
 ARV 1.83 342 P 46 33.00 1.2
 eSn 46 55.90
 SFI 2.56 328 P 46 42.00 -0.2
 PGD 2.58 326 P 46 42.40 -0.2
 S.D. = 0.9 on 7 of 7 obs.

? FEB 07, 1993 08h 31m 44.65± 1.08s
 39.111 N ± 10.6km 27.584 E ± 19.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

IZM 0.76 200 iPg 31 59.40 -0.1
 iSg 32 10.40
 DST 0.95 58 iPn 32 02.50 -0.2
 BNT 1.27 12 ePn 32 07.80 -0.4
 KCT 1.28 27 iPn 32 08.90 0.4
 S.D. = 0.7 on 4 of 4 obs.

% FEB 07, 1993 08h 47m 07.58± 0.85s
 44.308 N ± 8.1km 8.269 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.7 (GEN).

FIN 0.11 204 P 47 10.55 0.1
 S 47 12.10
 ROB 0.29 267 P 47 13.80 0.2
 S 47 18.33
 PCP 0.31 40 P 47 13.98 0.0
 S 47 18.56
 IMI 0.48 215 P 47 17.32 -0.1
 ENR 0.61 263 P 47 19.97 -0.1
 S 47 28.72
 STV 0.68 265 P 47 21.03 -0.1
 S.D. = 0.2 on 6 of 6 obs.

FEB 07, 1993 09h 18m 53.79± 0.41s
 57.406 N ± 4.0km 142.871 W ± 2.4km
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 ML 3.5 (AEIC), 3.3 (PGC).

KAIM 2.65 343 eP 19 37.61 0.3
 eS 20 04.29
 CYK 2.69 4 eP 19 38.51 0.6
 S 20 06.92
 MID 2.73 319 P 19 39.20 0.8
 SNH 2.78 0 iP 19 39.58 0.3
 S 20 09.40
 PNL 2.91 37 iP 19 41.32 0.3
 HQN 2.94 44 iP 19 41.45 0.1
 S 20 13.66
 PCA 3.02 26 iP 19 43.07 0.5
 S 20 14.65
 YAH 3.02 11 iP 19 43.42 0.7
 eS 20 16.11
 BCPM 3.06 32 iP 19 43.47 0.4
 RAGM 3.13 343 iP 19 44.04 -0.1
 SGAM 3.33 340 iP 19 47.22 0.2
 CROM 3.36 358 P 19 47.20 -0.4
 CVA 3.48 336 eP 19 48.39 -0.7
 S 20 26.18
 HIN 3.54 329 iP 19 50.06 0.1
 MTU 3.60 318 eP 19 50.72 0.0
 BALM 3.65 4 iP 19 51.75 0.1
 eS 20 31.53
 CTGM 3.66 12 iP 19 51.82 0.1
 LTI 3.71 318 eP 19 51.78 -0.5
 FID 3.84 332 eP 19 54.47 0.3
 KNIM 3.88 321 eP 19 54.10 -0.7
 eS 20 36.55
 GLB 4.08 354 iP 19 57.22 -0.3
 GLI 4.11 330 eP 19 57.81 -0.1
 VZW 4.12 334 eP 19 57.78 -0.4
 VLZ 4.14 336 eP 19 57.60 -0.7
 SEW 4.36 311 eP 20 00.86 -0.7
 KLU 4.38 340 eP 20 01.60 -0.4
 HYT 4.40 37 Pn 20 03.70 1.4
 MPA 4.57 315 eP 20 03.77 -0.7
 PTE 4.70 320 iP 20 05.55 -0.8
 BRK 4.81 303 eP 20 08.92 0.9

TZL	4.83	346	eP	20	08.46	0.2
SLKM	4.91	312	eP	20	08.96	-0.5
KNK	4.93	327	eP	20	10.18	0.6
PMS	5.15	321	P	20	12.00	-0.8
KDC	5.19	278	P	20	15.10	1.8
SYI	5.21	287	eP	20	14.73	1.2
SML	5.21	330	eP	20	13.51	-0.2
PMR	5.27	325	eP	20	13.46	-1.0
GHO	5.35	327	eP	20	15.94	0.3
NKA	5.46	311	eP	20	19.10	2.0
PWA	5.55	323	P	20	18.20	-0.2
SUA	5.72	319	eP	20	19.93	-0.9
ILIM	5.90	301	eP	20	22.86	-0.4
AUH	5.90	294	eP	20	24.33	1.0
AUL	5.90	294	eP	20	22.85	-0.4
CDD	5.90	290	eP	20	24.03	0.7
REF	5.95	305	eP	20	24.07	-0.1
RSO	5.96	305	eP	20	24.34	0.0
RS1	5.96	305	eP	20	24.33	0.0
RS2	5.97	305	eP	20	24.31	-0.1
INW	5.97	301	eP	20	24.90	0.5
DFR	5.99	306	eP	20	24.67	0.0
RDW	6.00	305	eP	20	24.77	-0.1
SPU	6.04	313	eP	20	24.54	-0.7
NCT	6.09	306	eP	20	25.72	-0.3
CKT	6.11	312	eP	20	26.01	-0.3
CKN	6.11	313	eP	20	26.57	0.3
CPAM	6.11	313	eP	20	26.26	-0.1
CRP	6.13	313	eP	20	26.85	0.2
CKL	6.16	312	eP	20	26.64	-0.4
CP2	6.16	313	eP	20	26.50	-0.6
BGL	6.22	312	eP	20	27.14	-0.7
MCNL	6.30	291	eP	20	29.86	0.8
SKT	6.34	320	eP	20	29.09	-0.5
PDB	6.38	297	eP	20	29.65	-0.5
VIB	7.21	121	Pn	20	41.00	-0.8
CWB	7.53	120	Pn	20	45.30	-0.9

S.D. = 0.7 an 67 of 67 obs.

% FEB 07, 1993 10h 37m 12.38±0.92s
 39.057 N ± 9.5km 27.621 E ± 11.5km
 DEPTH = 33.0km (normal)

TURKEY (366)
 MD 2.7 (ISK).

IZM	0.72	203	iPg	37	26.00	-0.1
DST	0.95	55	ePn	37	29.50	0.0
EZN	1.26	308	ePn	37	34.00	0.2
BNT	1.32	10	ePn	37	33.80	-0.8
KCT	1.32	25	iPn	37	35.30	0.7

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

% FEB 07, 1993 10h 39m 31.65±0.91s
 39.141 N ± 7.9km 27.538 E ± 9.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.8 (ISK).

IZM	0.77	196	iPg	39	46.50	-0.3
DST	0.96	61	ePn	39	50.50	0.5
EZN	1.16	306	ePn	39	53.80	0.5
BNT	1.25	14	ePn	39	53.80	-1.0
KCT	1.27	29	iPn	39	55.60	0.3

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

FEB 07, 1993 11h 08m 19.39±0.35s
 44.378 N ± 3.5km 147.593 E ± 2.5km
 DEPTH = 107.9 ± 3.3 km
 5.3mb (104 obs.)

KURIL ISLANDS (221)

Mw 5.0 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 9S, 10C

Centroid Location:

Origin Time 11:08:18.7 1.2

Lat 44.40N 0.13 Lon 148.44E 0.20

Dep 95.2 7.7 Half-duration 1.0

Moment Tensor; Scale 10**16 Nm

Mrr=1.26 0.34 Mtt=-0.52 0.58

Mff=-0.74 0.43 Mrt=-3.24 0.44

Mrf=0.32 0.46 Mtf=-2.07 0.62

Principal Axes:

T Vol= 3.97 Plg=47 Azm= 20

N 0.08 29 253

	P	-4.05	28	146
	Best Double Couple: Mo=4.0*10**16			
	NP1: Strike=187 Dip=31 Slip= 21			
	NP2: 79 79 120			
SHO	0.77	228	iPnc	08 39.30 1.0
			i	08 52.80
KUR	0.88	13	iPnd-	08 41.00 1.6
KUSJ	2.45	240	iP+	08 59.20 0.5
			eS	09 27.00
ASAJ	3.57	268	iPd	09 17.10 3.3X
HOJ	3.72	239	iP+	09 17.60 1.8
			eS	09 59.30
YSS	4.32	309	iPnd-	09 25.20 1.2
Z	13s		0.70um	
E	13s		0.80um	
MRRJ	5.14	250	eP	09 36.70 1.5
			eS	10 33.20
OFUJ	6.90	222	P	09 58.30 -1.2
			eS	11 10.80
YAMJ	8.41	225	eP	10 18.60 -1.5
			eS	11 46.00
SKR	8.52	39	ePn	10 19.40 -2.2
NIJ	9.65	225	eP	10 35.60 -1.2
OKH	9.68	343	ePn	10 38.50 1.5
KAKJ	9.93	217	eP	10 38.40 -2.1
			eS	12 21.20
MAT	10.59	226	eP	10 48.00 -1.4
	0.9s		12.60nm	4.7mb X
			eS	12 41.00
CHJJ	10.60	221	eP	10 48.00 -1.4
			eS	12 39.40
MTMJ	10.77	227	eP	10 51.70 -0.1
PET	11.31	36	ePn	10 55.00 -3.7X
MDJ	12.86	277	eP	11 18.40 -0.8
MGD	15.87	6	iPc+	11 55.50 -2.0
	1.0s		220.00nm	5.4mb
CN2	15.92	276	eP	11 58.80 0.5
	0.8s		10.00nm	4.1mb X
Z	16s		0.47um	4.6mszX
E	15s		0.23um	
SNY	17.71	270	Pc	12 21.00 0.7
	1.0s		16.00nm	4.2mb X
SEY	18.77	7	eP	12 30.00 -2.4
SMY	19.35	55	eP	12 38.90 0.3
	0.8s		623.67nm	6.0mb
YAK	20.53	336	iPc	12 47.00 -3.7X
	0.9s		598.00nm	5.9mb
			epP	13 12.00 135kmX
			i	13 16.00
			iPPP	13 25.00
			iS	16 26.00
			eSS	17 15.00
			i	24 02.00
BJI	23.59	270	eP	13 22.00 1.0
	1.2s		52.00nm	4.8mb
			eS	17 26.00
CIT	23.74	301	eP	13 21.00 -1.4
TIA	24.52	261	Pc	13 31.30 1.3
BOD	24.63	315	iPc	13 28.30 -2.4
	0.7s		33.00nm	4.9mb
ADK	24.80	60	(P)	13 31.89 -0.5
	0.9s		51.56nm	5.0mb
NJ2	25.58	251	eP	13 43.40 3.6X
HHC	26.61	275	P	13 50.40 1.0
	1.0s		45.00nm	5.0mb
TIY	27.19	268	eP	13 55.20 0.6
Z	12s		0.36um	4.2mszX
N	11s		0.26um	
BTO	27.80	275	eP	14 00.50 0.4
TIK	28.80	348	iPc	14 03.50 -5.1X
	1.0s		18.00nm	4.7mb
Z	22s		0.60um	4.2msz
			e	14 57.00
			i	17 14.00
ILT	29.44	25	iPd	14 11.00 -3.4X
	1.2s		16.00nm	4.6mb
			i	17 17.50
ZAK	30.24	297	iPc	14 20.50 -1.1
	1.2s		16.00nm	4.6mb
			e	14 50.70
XAN	31.43	264	eP	14 32.00 -0.3
MOY	31.56	300	eP	14 31.00 -2.1
LZH	34.07	271	iPc	14 56.20 0.8
	1.2s		100.00nm	5.5mb
			S	20 12.00
GTA	35.51	279	P	15 08.00 0.5

	1.2s	26.00nm	5.0mb	
CD2	36.79	264	iPc	15 18.60 0.4
	1.0s		33.00nm	5.2mb
SVW	36.87	43	iPc	15 19.34 0.8
	0.8s		98.96nm	5.8mb
			e	16 07.10
			iPcP	17 38.49
IMA	37.98	35	iPc	15 27.76 -0.2
	0.8s		49.37nm	5.5mb
			ePcP	17 41.46
BGL	38.43	42	eP	15 32.20 0.5
CP2	38.50	42	eP	15 33.06 0.6
CRP	38.54	42	iPc	15 33.20 0.5
KDC	38.64	48	iPc	15 32.56 -0.8
	0.8s		47.09nm	5.4mb
NRI	38.68	331	iPd	15 29.30 -4.2X
	1.2s		51.00nm	5.2mb
			e	17 02.00
			e	17 43.00
SLKM	39.54	43	eP	15 40.01 -0.8
PMR	39.98	42	eP	15 43.76 -0.5
	0.9s		55.74nm	5.4mb
FBA	40.40	36	iPc	15 48.00 0.2
	0.9s		46.36nm	5.3mb
			e	16 18.97
KLU	41.52	42	iPc	15 57.24 0.2
WMO	42.16	291	iPc	16 03.00 0.4
	1.0s		56.00nm	5.3mb
			eS	22 14.00
BALM	43.29	42	iPd	16 11.91 0.3
LSA	46.49	271	P	16 38.50 0.6
	1.2s		23.00nm	4.9mb
CHG	47.76	254	ePc	16 48.00 0.6
			eSg	19 40.00
FRU	51.20	296	iPc	17 14.00 0.5
	2.0s		90.00nm	5.4mb
			e	17 39.00
			e	24 24.00
GUN	51.30	273	P	17 15.00 0.2
KKN	51.80	273	P	17 18.20 -0.2
PKI	51.83	273	P	17 18.80 0.0
	1.1s		56.00nm	5.5mb
KSH	51.96	291	P	17 20.50 1.2
	1.0s		50.00nm	5.5mb
DMN	52.03	273	P	17 20.50 0.3
	0.8s		72.00nm	5.7mb
GKN	52.13	274	P	17 21.00 0.2
SVE	52.91	316	ePc	17 24.70 -1.3
	1.9s		60.00nm	5.3mb
ARU	54.10	317	eP	17 33.00 -1.8
RES	54.28	17	ePd	17 34.80 -1.0
	1.0s		50.00nm	5.5mb
YKA	55.10	34	P	17 41.10 -0.8
	0.8s		22.00nm	5.2mb
KEV	58.24	339	iP	18 02.00 -2.1
	0.7s		33.40nm	5.5mb
SDF	60.04	338	iP	18 14.00 -2.5
VGB	61.23	53	eP	18 24.99 0.0
DPW	61.32	50	iPc	18 24.99 -0.6
NEW	61.68	49	iPd	18 27.59 -0.4
	1.0s		51.70nm	5.5mb
LBFM	63.01	58	iPc	18 37.18 0.1
SES	63.57	44	iPc	18 39.80 -0.6
	0.9s		45.00nm	5.4mb
			pP	

07d 11b

PTI	67.63	52	iPc	19	07.43	0.8			1.2s	110.00nm	5.5mb	ARV	83.61	329	Pc	20	36.60	0.0			
TNP	67.86	58	iPc	19	08.19	0.0		ACO	79.22	49	iPd	20	13.50	-0.3	UYO	83.63	47	iPc	20	36.70	-0.2
	0.8s	20.18nm			5.1mb		ENN	79.56	336	iPc	20	15.30	-0.1	SFI	83.65	330	Pc	20	38.20	1.5	
		e		19	34.58				0.8s	29.80nm	5.2mb	PGD	83.73	330	Pc	20	38.40	0.9			
HVU	68.11	53	iPc	19	09.89	0.3		DMU	79.70	345	eP	20	16.00	-0.1	MME	83.83	330	Pc	20	38.80	0.8
UPP	68.33	335	iP	19	08.70	-1.7			1.1s	116.00nm	5.6mb	ELC	83.83	42	eP	20	37.84	0.0			
DUG	69.11	54	iPc	19	15.92	0.1		BHG	80.01	331	eP	20	18.50	0.6	CRE	83.86	329	Pc	20	38.30	0.3
	0.8s	15.92nm			4.9mb				0.8s	22.00nm	5.0mb	SMF	83.87	336	iPc	20	38.10	0.2			
NB2	69.13	339	P	19	14.10	-1.3		FUR	80.18	332	eP	20	19.30	0.5		0.8s	53.45nm		5.5mb		
	0.9s	35.00nm			5.2mb		DLF	80.20	345	eP	20	18.70	0.0	RSL	83.88	334	P	20	38.29	0.1	
TPNV	69.17	58	eP	19	16.34	0.1			1.1s	87.00nm	5.5mb	AVF	83.88	336	iPc	20	38.10	0.2			
	0.9s	29.86nm			5.1mb		SNF	80.25	337	iPc	20	18.96	-0.1		0.9s	37.65nm		5.3mb			
BW06	69.26	50	iPc	19	15.98	-0.7		DCN	80.30	345	eP	20	19.20	0.0	LSD	83.92	333	P	20	38.86	0.4
	0.8s	20.31nm			5.0mb				1.1s	87.00nm	5.5mb	LPF	83.94	339	iPc	20	38.60	0.5			
KIV	69.58	312	P	19	19.60	1.1		KBA	80.40	330	iPd	20	20.80	0.7		1.1s	66.65nm		5.5mb		
	1.1s	186.00nm			5.8mb				0.8s	28.90nm	5.1mb	BDI	83.98	330	P	20	38.20	-0.3			
DAU	69.87	53	iPc	19	20.81	0.2		PTJ	80.43	328	iP	20	19.90	-0.3	FIR	83.99	330	eP	20	39.00	0.5
GSC	69.90	60	iPc	19	20.49	-0.1		EEO	80.44	31	eP	20	22.00	1.9	LPL	84.00	333	eP	20	39.40	0.6
ARUT	70.32	56	ePc	19	23.29	0.1		WLF	80.48	336	Pc	20	22.00	1.8		0.8s	29.95nm		5.3mb		
EMUT	70.52	53	iPc	19	24.59	0.1		DOU	80.54	337	P	20	20.70	0.1	LPG	84.01	333	eP	20	39.60	0.6
GRS	70.54	306	iPc	19	24.80	0.3		LANF	80.59	334	P	20	21.00	0.1		0.8s	36.15nm		5.3mb		
	1.3s	50.00nm			5.2mb		ETA	80.71	344	eP	20	21.60	0.2	ASS	84.08	329	Pc	20	39.20	0.1	
PEC	70.59	61	iPc	19	24.11	-0.6		WATA	80.80	331	iPc	20	22.40	0.2	OLY	84.14	45	iPc	20	39.48	0.1
	0.8s	18.34nm			5.0mb		WTTA	80.84	331	iPc	20	22.80	0.4	RSP	84.15	333	P	20	38.17	-1.3	
MSU	70.59	55	iPc	19	25.41	0.5			0.7s	30.80nm	5.2mb	BGF	84.24	336	eP	20	40.60	0.9			
ULM	70.81	37	ePc	19	27.50	1.8		RBL	80.86	330	Pc	20	2								

07d 11h

TCA 151.64 74 iPKP 28 02.60 6.8X
S.D. = 0.8 on 261 of 276 obs.

& FEB 07, 1993 11h 26m 21.75s
63.395 N 152.836 W
DEPTH = 0.3km
CENTRAL ALASKA (1)
<AEIC>. ML 2.9 (AEIC).

TRF	1.15	86	iP	26 43.38	-0.9
			eS	26 59.75	
HUR	1.51	105	eP	26 48.13	-2.0
			eS	27 10.81	
SKT	1.54	156	iP	26 49.87	-0.7
			eS	27 13.47	
MCK	1.78	77	eP	26 54.57	0.6
			eS	27 18.52	
RND	1.79	88	eP	26 54.33	0.1
			eS	27 18.71	
NEA	2.04	53	eP	26 58.48	0.8
			S	27 25.58	
BGL	2.15	174	eP	26 57.96	-1.4
CP2	2.16	172	eP	27 01.06	1.4
CRP	2.16	171	eP	26 58.11	-1.5
SUA	2.17	152	eP	27 01.01	1.3
CPAM	2.17	171	eP	26 58.94	-0.8
CKN	2.20	172	eP	27 01.48	1.4
CKL	2.22	174	eP	27 00.00	-0.4
CKT	2.22	172	eP	27 00.72	0.3
PWA	2.22	141	P	27 01.80	1.4
SPU	2.25	170	eP	27 00.40	-0.4
GHO	2.44	130	eP	27 03.46	0.0
PLRM	2.50	135	eP	27 04.75	0.5
PMR	2.50	135	eP	27 01.25	-3.0
CCB	2.55	58	eP	27 07.16	2.2
			S	27 39.26	
MDM	2.56	50	eP	27 06.91	1.8
SML	2.62	125	iP	27 06.96	0.9
SVW	2.64	211	eP	27 06.65	0.3
PMS	2.64	143	P	27 07.10	0.7
FBA	2.68	53	(Pn)	27 03.52	-3.3
IMA	2.71	353	eP	27 02.99	-4.4
HDA	2.79	66	eP	27 08.55	0.0
			S	27 45.64	
DFR	2.81	178	eP	27 07.45	-1.5
NCT	2.84	181	eP	27 07.83	-1.5
KNK	2.85	132	eP	27 09.65	0.3
REF	2.92	179	eP	27 09.05	-1.4
RDW	2.92	180	eP	27 09.23	-1.3
RS2	2.94	179	eP	27 11.10	0.3
RSO	2.94	179	eP	27 09.27	-1.6
RS1	2.95	179	eP	27 09.58	-1.3
SCM	2.99	119	eP	27 11.92	0.6
PTE	3.11	143	eP	27 12.87	0.0
SLKM	3.15	156	eP	27 12.87	-0.7
TOA	3.33	110	P	27 16.80	0.7
MPA	3.35	149	eP	27 16.98	0.7
PDB	3.68	191	eP	27 18.64	-2.4
KLU	3.74	118	eP	27 20.69	-1.3

42 obs. associated

% FEB 07, 1993 11h 41m 20.68±1.00s
38.690 N ± 9.8km 27.484 E ± 13.6km
DEPTH = 33.0km (normal)

TURKEY (366)
MD 2.7 (ISK).

IZM	0.34	211	iPg	41 29.00	0.0
			iSg	41 35.00	
DST	1.28	44	iPn	41 42.40	0.1
EZN	1.45	322	ePn	41 44.80	0.0
EDC	1.68	10	ePn	41 48.50	0.3
BNT	1.70	11	ePn	41 48.00	-0.4

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

& FEB 07, 1993 12h 18m 17.10s
62.171 N 150.414 W
DEPTH = 0.7km
CENTRAL ALASKA (1)
<AEIC>. ML 2.5 (AEIC).

CUT	0.24	16	P	18 23.20	1.2
SKT	0.56	250	P	18 28.60	0.3
			S	18 36.80	
PWA	0.58	154	P	18 29.60	0.9
			S	18 36.30	
SUA	0.73	193	P	18 32.20	0.6

GHO	0.81	119	P	18 43.70	
			S	18 32.70	-0.6
			S	18 44.70	
PLRM	0.84	133	P	18 33.70	-0.2
			S	18 45.80	
PMR	0.84	133	eP	18 33.37	-0.5
			eS	18 45.42	
HUR	0.89	24	P	18 33.70	-1.1
			S	18 45.20	
PMS	1.01	156	P	18 36.90	-0.3
			S	18 50.80	
SML	1.05	109	P	18 37.00	-0.8
			S	18 51.80	
KNK	1.20	128	P	18 39.70	-0.7
CRP	1.23	223	eP	18 40.04	-0.9
			eS	18 56.86	
CP2	1.26	225	eP	18 40.97	-0.5
			eS	18 58.13	
SPU	1.26	219	P	18 40.90	-0.6
			S	18 58.80	
CKN	1.27	222	P	18 41.70	0.2
TRF	1.29	3	P	18 40.70	-1.2
			S	18 57.40	
CKT	1.30	222	P	18 41.70	-0.3
			S	18 59.50	
BGL	1.31	227	eP	18 41.68	-0.6
CKL	1.34	224	P	18 42.40	-0.4
RND	1.43	29	P	18 43.20	-1.1
			S	19 01.70	
PTE	1.47	152	P	18 45.20	0.4
			S	19 04.60	
NKA	1.49	196	P	18 47.00	2.0
SCM	1.50	102	P	18 44.00	-1.3
			S	19 03.70	
SLKM	1.67	177	P	18 47.00	-0.7
MPA	1.76	163	P	18 49.70	0.7
			S	19 13.20	
DFR	1.93	216	P	18 51.20	-0.2
TOA	1.99	90	P	18 52.20	-0.2
REF	2.02	214	P	18 52.50	-0.4
NCT	2.02	218	P	18 53.00	0.2
RDW	2.05	215	P	18 53.20	-0.2
GLI	2.05	128	P	18 53.50	0.3
RS2	2.05	214	P	18 54.00	0.6
RSO	2.05	214	P	18 53.70	0.3
RS1	2.06	214	P	18 54.20	0.8
SEW	2.13	167	P	18 56.00	1.8
VZW	2.16	119	P	18 57.20	2.5
VLZ	2.21	116	P	18 56.20	0.8
KLU	2.24	106	P	18 55.70	-0.3
KNIM	2.24	144	P	18 55.40	-0.5
TZL	2.35	91	P	18 58.00	0.5
FID	2.37	125	P	18 58.50	0.7
PAX	2.43	68	P	19 00.10	1.4
ILIM	2.43	212	P	19 00.40	1.6
LTI	2.47	149	P	18 58.90	-0.3
SVW	2.70	249	(P)	19 00.95	-1.6
			eS	19 42.36	
FBA	2.98	22	(P)	19 05.26	-1.2
GLB	3.22	100	P	19 10.30	0.4
BALM	4.02	103	eP	19 19.92	-1.4
IMA	4.17	341	eP	19 21.02	-2.3

49 obs. associated

? FEB 07, 1993 12h 40m 17.08±1.90s
29.580 S ± 18.4km 175.948 W ± 25.2km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)

KERMADEC ISLANDS REGION (177)

SVA	12.50	335	eP	43 15.60	0.1
DZM	17.51	291	iPc	44 20.90	0.4
ARMA	28.04	260	eP	46 09.50	2.0
CAN	30.03	250	e(P)	46 38.60	13.4X
			i	46 56.30	
BWA	30.50	252	eP	46 28.70	-0.7
			e	46 48.30	
CTA	35.45	277	iP	47 12.00	-0.5
STK	36.40	255	eP	47 22.30	1.9
			0.9s	3.00nm	
ASPA	44.94	265	iPd	48 29.90	-1.1
			1.0s	13.00nm	4.8mb
			19s	3.80um	5.3msz
WB2	45.85	270	iPd	48 36.50	-1.6
			0.5s	9.60nm	5.0mb
WRA	45.86	270	P	48 37.20	-1.0
			0.4s	0.90nm	4.0mb

MAT	78.61	324	(P)	52 36.00	18.9X
BJI	93.60	315	eP	53 34.00	3.0X
FBA	96.70	12	e(P)	53 45.00	0.4
			1.0s	0.70nm	4.1mb
OBN	145.48	327	iPKPc	59 55.00	2.2X
			1.2s	48.00nm	
			e	00 06.50	
NUR	146.12	342	ePKP	59 58.00	4.3X
NB2	148.18	353	PKP	00 01.20	4.1X
			0.9s	4.50nm	
HFS	148.76	351	ePKP	00 06.40	8.4X
			0.5s	1.60nm	
BCAO	151.48	211	iPKPc	00 10.00	6.5X
			0.8s	25.00nm	
			id	00 15.20	
			ic	00 46.00	
KVT	151.64	303	ePKP	00 23.00	20.0X
KSP	156.86	340	ePKPd	00 42.60	32.8X
			e	01 12.20	
CLL	157.28	345	e(PKP)	00 43.00	32.7X
BRG	157.47	343	ePKP	00 45.30	34.8X
			e	01 09.60	
KHC	159.16	342	ePKP	00 17.50	4.9X
			e	00 53.50	
			e	01 22.60	
GEC2	159.39	342	PKP	00 54.30	41.4X
			0.8s	0.32nm	
			e	00 59.30	

S.D. = 1.4 on 10 of 24 obs.

FEB 07, 1993 12h 56m 00.56±0.33s
51.241 N ± 7.9km 178.063 W ± 4.0km
DEPTH = 33.0km (normal)
4.7mb (29 obs.) 4.4msz (1 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.07	53	iPd	56 20.32	1.0
SMY	5.07	290	eP	57 23.80	7.7X
SDN	11.28	62	(P)	58 41.65	-0.7
SVW	15.84	43	eP	59 42.88	0.4
			0.8s	35.38nm	4.6mb
KDC	16.15	56	eP	59 46.50	0.1
			0.3s	8.35nm	4.3mb
BGL	17.32	45	eP	00 03.25	2.1
CRP	17.42	45	eP	00 04.37	1.9
SLKM	18.03	48	eP	00 09.55	-0.4
IMA	19.33	31	eP	00 24.86	-0.8
			1.1s	20.20nm	4.3mb
KLU	20.33	47	eP	00 36.34	0.0
TOA	20.39	45	eP	00 37.10	0.2
FBA	20.77	37	eP	00 40.40	-0.4
			0.4s	4.62nm	4.2mb
BALM	21.91	50	eP	00	

07d 13h

XAN 54.14 282 P 05 24.00 -0.5
 LZH 55.87 287 eP 05 37.50 0.2
 1.2s 36.00nm 5.3mb
 Z 24s 0.27um 4.3MsZ
 sP 05 47.50
 GTA 56.05 292 Pd 05 38.50 0.0
 1.0s 24.00nm 5.2mb
 Z 20s 0.29um 4.4MsZ
 WMOK 57.49 74 iPc 05 47.72 -1.0
 0.6s 3.80nm 4.6mb
 e 06 03.04
 FVM 60.19 65 eP 06 05.45 -1.9
 0.5s 11.02nm 5.3mb
 OLY 61.31 68 eP 06 13.27 -1.7
 ELC 61.36 65 ePd 06 13.85 -1.4
 NB2 67.82 355 P 06 54.40 -2.5
 0.9s 2.80nm 4.4mb
 KHC 79.51 352 eP 08 05.00 -0.1
 LDF 80.53 1 iPd 08 11.00 0.6
 0.8s 5.25nm 4.6mb
 KBA 81.57 352 iPc 08 16.00 -0.2
 1.0s 14.80nm 5.0mb
 SSF 82.07 359 iPd 08 18.90 0.4
 1.0s 4.60nm 4.5mb
 LBF 82.14 359 iPd 08 18.80 -0.1
 0.9s 2.60nm 4.3mb
 WRA 82.24 225 P 08 20.40 0.8
 0.8s 0.20nm 3.2mb X
 AVF 82.34 359 iPd 08 20.00 0.1
 1.0s 3.40nm 4.4mb
 SMF 82.48 359 iPd 08 20.80 0.1
 1.0s 6.20nm 4.6mb
 MFF 82.52 1 iPd 08 21.20 0.4
 0.8s 4.85nm 4.6mb
 TCF 82.85 360 iPd 08 22.80 0.2
 0.7s 1.20nm 4.1mb
 LSF 82.89 0 iPd 08 23.00 0.2
 0.5s 3.00nm 4.6mb
 RJF 83.84 0 iPd 08 28.00 0.4
 0.8s 4.55nm 4.7mb
 LFF 84.20 1 iPd 08 29.10 -0.3
 0.9s 10.95nm 5.0mb
 CAF 84.21 360 iPd 08 29.20 -0.4
 1.0s 5.40nm 4.7mb
 LPO 84.46 1 iPd 08 30.20 -0.5
 0.9s 7.85nm 4.9mb
 ASPA 85.70 223 P 08 38.00 0.9
 SLR 147.56 312 iPKPc 15 42.10 2.0X
 1.1s 25.32nm
 S.D. = 0.9 on 56 of 59 abs.

* FEB 07, 1993 13h 02m 44.45±0.85s
 21.736 N ±25.9km 94.806 E ±23.1km
 DEPTH = 121.6 ± 15.8 km
 4.0mb (2 obs.)

MYANMAR (296)

CHG 4.85 126 ePnd 03 56.00 -0.5
 eSg 04 42.20
 BDT 5.97 138 eP 04 12.00 0.2
 0.6s 67.90nm 5.1mb X
 KHT 7.79 152 eP 04 36.00 -0.6
 NST 7.86 139 eP 04 38.50 0.9
 GUN 10.17 309 P 05 09.00 0.1
 PKI 10.33 306 P 05 11.20 0.2
 KKN 10.54 307 P 05 13.50 -0.2
 0.4s 21.00nm 5.3mb X
 DMN 10.58 305 P 05 14.20 0.0
 GKN 11.14 306 P 04 21.60 -59.9X
 HFS 67.00 328 eP 13 26.10 0.1
 0.5s 1.50nm 4.2mb
 Z 16s 3.27um 5.6MsZ
 LR 48 14.00
 NB2 68.15 329 P 13 33.00 -0.2
 0.6s 1.00nm 3.9mb
 S.D. = 0.5 on 10 of 11 abs.

FEB 07, 1993 13h 27m 42.01±0.08s
 37.634 N ± 1.7km 137.245 E ± 1.6km
 DEPTH = 10.6km (geophysicist)
 6.3mb (176 abs.) 6.2MsZ (27 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN(226)
 Mw 6.6 (GS), 6.3 (HRV), Ms 5.9
 (BRK). Mo=1.0*10**19 Nm (PPT).
 At least sixteen people injured
 and some damage in Ishikawa,
 Toyoma and Niigata Prefectures.

Landslides occurred at Suzu.
 Maximum intensity IV (JMA)
 reported at Wajima. Felt
 throughout much of central
 Honshu. Two events about 1.5
 seconds apart. Depth from
 broadband displacement
 seismograms, based on second
 event.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=10 Dip=50 Slip= 75
 NP2: 213 42 107
 Principal Axes:
 T P1g=78 Azm=219
 P 4 111

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

RADIATED ENERGY

No. of sta: 24 Focal mech. F
 Energy 7.8±1.4*10**13 Nm

MOMENT TENSOR SOLUTION

Dep 6 No. of sta: 31

Moment Tensor: Scale 10**18 Nm

Mrr= 6.84 Mtt=-1.60

Mff=-5.24 Mrt=-0.77

Mrf= 4.96 Mtf= 2.43

Principal axes:

T Val= 8.61 P1g=70 Azm=272

N -0.59 8 160

P -8.02 18 67

Best Double Couple: Mo=8.3*10**18

NP1: Strike=145 Dip=28 Slip= 73

NP2: 344 64 99

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 37S, 99C M.W.: 28S, 54C

Centroid Location:

Origin Time 13:27:49.4 0.1

Lat 37.74N 0.01 Lon 137.21E 0.01

Dep 15.0 BDY Half-duration 3.7

Moment Tensor: Scale 10**18 Nm

Mrr= 3.47 0.02 Mtt=-0.92 0.03

Mff=-2.56 0.02 Mrt=-0.02 0.12

Mrf= 0.09 0.13 Mtf=-1.38 0.02

Principal Axes:

T Val= 3.48 P1g=89 Azm=242

N -0.14 1 30

P -3.34 1 120

Best Double Couple: Mo=3.4*10**18

NP1: Strike=211 Dip=44 Slip= 91

NP2: 29 46 89

MTMJ 1.14 157 P 28 04.00 0.7
 MAJO 1.34 144 ePnd 28 06.59 0.0
 MAT 1.34 144 iPc 28 06.10 -0.5
 iS 28 24.60
 NIJJ 1.45 105 P 28 07.30 -0.9
 IIDJ 2.22 166 P 28 20.40 1.1
 YAMJ 2.27 75 P 28 19.30 -0.8
 TSRJ 2.33 206 P 28 22.30 1.5
 KAKJ 2.75 120 P 28 26.70 -0.1
 WKYJ 3.66 202 iP+ 28 41.20 1.3
 eS 29 38.40
 OFUJ 3.76 66 P 28 41.40 0.1
 AOMJ 3.80 39 P 28 42.40 0.6
 TKSJ 4.47 216 iPd 28 54.20 2.9
 SHK 4.82 231 ePc 28 58.20 1.9
 0.9s 1680.67nm
 MRRJ 5.61 30 eP 29 07.30 -0.1
 SHNJ 6.09 237 P 29 17.30 3.2X
 eS 30 30.70
 SAP 6.25 29 eP 29 18.00 1.6
 iS 30 36.30
 HOOJ 6.63 42 P 29 22.90 1.1
 VLA 6.83 325 iPc 29 24.00 -0.6
 0.8s 420.00nm 6.6mb
 iS 30 40.00
 KUMJ 7.32 228 P 29 33.40 2.0
 ASAJ 7.66 31 P 29 37.70 1.6
 KUSJ 7.89 44 P 29 37.90 -1.5
 eS 31 04.50
 KAGJ 8.30 221 P 29 47.40 2.2
 MDJ 9.05 323 eP 29 57.50 2.0

1.0s 620.00nm 6.9mb
 S 31 41.00
 YSS 10.21 22 ePnc 30 12.47 1.0
 CN2 10.86 308 eP 30 20.60 0.2
 1.2s 89.00nm 6.0mb
 N 11s 431.00um
 E 11s 94.00um
 eP 30 28.00
 eS 32 29.00
 KUR 11.00 43 iPc+ 30 20.00 -2.3
 1.0s 1130.00nm 7.2mb
 Z 14s 153.90um 4.7MsZ
 N 14s 172.80um
 E 14s 202.50um
 iS 32 18.00
 SNY 11.32 296 Pd 30 29.00 2.2
 2.0s 1680.00nm 7.0mb
 N 11s 199.00um
 E 13s 258.00um
 pP 30 34.80
 sP 30 38.80
 DL2 12.34 281 Pc 30 45.00 4.5X
 1.0s 1020.00nm 7.0mb
 N 10s 422.00um
 SSE 14.77 249 ePnc 31 16.37 3.8X
 2.0s 2520.00nm 6.4mb
 N 14s 400.00um
 E 14s 282.00um
 SP 31 25.50
 eS 34 12.92
 NJ2 16.09 255 Pc 31 31.00 1.3
 1.4s 220.00nm 5.1mb X
 N 12s 327.00um
 E 14s 182.00um
 TIA 16.16 271 Pc 31 33.80 3.2X
 N 11s 134.00um
 E 11s 248.00um
 BJI 16.59 285 ePc 31 39.68 3.6X
 1.5s 1730.00nm 6.0mb
 E 10s 235.00um
 eS 34 49.94
 HIA 17.18 318 ePc 31 45.78 2.4
 TATO 18.42 231 iPc 32 00.89 1.9
 SKR 18.71 40 eP 32 01.20 -1.2
 0.9s 1640.00nm 6.2mb
 Z 16s 82.80um 4.9MsZ
 N 16s 62.10um
 E 16s 26.10um
 eS 35 26.00
 TIY 19.63 278 iPd 32 14.70 1.1
 1.4s 1300.00nm 6.0mb
 E 10s 63.40um
 HHC 20.13 287 Pc 32 18.50 -0.4
 1.4s 540.00nm 5.7mb
 Z 18s 76.10um 6.1MsZ
 N 10s 84.70um
 E 12s 133.00um
 PP 32 43.00
 S 35 58.00
 WHN 20.21 256 iPd 32 21.00 1.4
 1.5s 1150.00nm 6.0mb
 N 12s 333.00um
 OZH 20.30 237 Pc 32 20.00 -0.6
 1.5s 2700.00nm 6.4mb
 Z 16s 61.70um 6.1MsZ
 N 14s 88.40um
 E 14s 101.00um
 iS 36 10.00
 BTO 21.30 286 iPd 32 30.00 -1.0
 1.6s 210.00nm 5.3mb X
 N 13s 96.80um
 E 13s 91.70um
 sP 32 43.00
 PP 33 01.00
 PET 21.39 37 eP+ 32 30.00 -1.6
 1.1s 1600.00nm 6.3mb
 Z 16s 93.00um 6.3MsZ
 N 17s 42.00um
 E 16s 45.00um
 eS 36 31.00
 CIT 21.95 318 iPc 32 37.00 -0.3
 XAN 23.20 270 ePc 32 49.20 -0.7
 1.2s 170.00nm 5.5mb
 Z 12s 138.00um 6.6MsZ
 N 12s 39.50um
 E 12s 198.00um
 ec 32 50.52

CVP	24.03	218	eP	37 03.00						MDG	43.40	168	eP	35 38.50	-7.8X																								
	2.0s	5443.00nm		32 59.00	1.1					GUN	43.80	273	P	35 49.80	-0.2																								
MGD	24.09	17	iPc+	32 57.00	-1.1					RAB	43.87	158	eP	35 56.00	5.9X																								
	1.2s	900.00nm								PKI	44.32	273	P	35 53.80	-0.5																								
Z	14s	53.00um								KKN	44.33	273	P	35 53.80	-0.4																								
N	14s	84.00um								PRZ	44.52	295	iPd-	35 56.00	0.5																								
E	14s	21.00um									1.2s	460.00nm																											
				33 11.00							Z	16s	192.30um																										
				33 32.00							N	16s	133.50um																										
				36 34.00							E	16s	128.20um																										
				37 14.00																																			
ENH	24.11	261	ePc	32 58.67	0.1																																		
				33 00.74																																			
				37 21.56																																			
PIP	24.13	222	ePd	33 01.00	2.2																																		
	1.0s	166.00nm																																					
YAK	24.85	352	iPc	33 03.50	-2.0																																		
	1.5s	2430.00nm																																					
				33 28.00																																			
				33 46.00	220kmX																																		
				37 22.00																																			
				38 44.00																																			
SZP	24.86	221	ePd	33 11.00	5.1X																																		
GUMO	24.89	162	Pc	33 05.74	-0.5																																		
	1.4s	1313.00nm																																					
Z	23s	23.40um																																					
				33 09.00																																			
				37 30.93																																			
PJG	24.89	162	eP	33 04.20	-2.1																																		
				33 09.30																																			
GUA	24.95	162	eP	33 04.20	-2.6																																		
	1.5s	1444.44nm																																					
Z	20s	70.92um																																					
HKC	25.06	239	iP	33 09.30	1.5																																		
				37 42.00																																			
GZH	25.12	242	Pc	33 07.00	-1.3																																		
	1.8s	1770.00nm																																					
Z	12s	102.00um																																					
N	12s	113.00um																																					
E	12s	172.00um																																					
BOD	25.26	331	iPc	33 08.70	-0.7																																		
	1.0s	775.00nm																																					
MCO	25.60	240	eP	33 08.90	-4.1X																																		
BAG	25.75	219	eP	33 13.00	-1.6																																		
				37 49.00																																			
LZH	26.69	277	ePc	33 22.37	-0.8																																		
	1.8s	2550.00nm																																					
Z	15s	291.00um																																					
E	12s	168.00um																																					
				33 24.19																																			
				34 05.00																																			
				38 00.25																																			
				38 12.00																																			
OCP	27.03	216	eP	33 15.00	-11.1X																																		
IRK	27.23	313	eP+	33 26.50	-1.3																																		
	1.3s	351.00nm																																					
Z	14s	108.18um																																					
E	14s	106.00um																																					
				33 46.00																																			
				34 22.00																																			
ZAK	27.30	309	iPc+	33 28.20	-0.1																																		
	1.2s	766.00nm																																					
				34 21.00																																			
TLY	27.44	312	ePc	33 29.35	-0.3																																		
				33 30.93																																			
TGY	27.56	216	eP	33 27.00	-4.1X																																		
PGP	28.08	215	ePc	33 35.00	-0.7																																		
	1.6s	185.00nm																																					
GYA	28.10	256	iPc	33 34.80	-1.1																																		
	1.0s	360.00nm																																					
Z	20s	67.50um																																					
N	13s	90.20um																																					
E	13s	52.60um																																					
				38 22.00																																			
CD2	28.37	266	iPc	33 37.00	-1.3																																		
	18s	106.00um																																					
N	10s	96.80um																																					
MOY	29.03	311	ePc	33 43.30	-0.6																																		
	1.4s	324.00nm																																					
GTA	29.21	285	iPc	33 45.00	-0.8																																		
	1.0s	240.00nm																																					
Z	12s	240.00um																																					
E	12s	120.00um																																					
				33 50.00	17kmX																																		
				33 57.00																																			
				34 40.00																																			
SMY	29.66	47	eP	38 40.00																																			
QIZ	30.25	240	(P)	33 53.80	-1.4																																		
N	16s	107.00um																																					
E	16s	100.00um																																					
				39 08.16																																			
CGP	31.19	205	eP	34 02.00	-1.4																																		
	1.5s	156.00nm																																					
KMI	31.81	257	ePc	34 07.84	-1.3																																		
	1.9s	1220.00nm																																					
Z	18s	134.00um																																					
N	13s	120.00um																																					
E	14s	167.00um																																					

11-11-11

07d 13h									
VRAC	78.77	325	iPc	39	46.80	0.8			
	1.7s	3841.90nm			7.2mb				
KCT	78.78	312	eP	39	45.70	-0.6			
BRG	78.80	327	iPc	39	46.30	0.1			
	1.7s	560.00nm			6.3mb				
		i		39	47.80				
		i		39	51.20				
		iS		49	44.00				
SHMJ	78.82	303	P	39	49.17	2.5			
ISA	78.85	54	ePc	39	46.09	-0.7			
	1.7s	342.73nm			6.1mb				
		ec		39	47.41				
		iS		49	44.41				
		ePS		50	23.40				
CLL	78.88	328	iPc	39	46.30	-0.3			
	1.3s	700.00nm			6.5mb				
		eS		49	45.00				
BUD	78.92	322	iPd	39	47.20	0.3			
BNT	78.96	313	iP	39	47.70	0.4			
JARJ	78.99	302	P	39	49.69	2.0			
EDC	79.00	313	iP	39	47.50	0.0			
SRO	79.03	323	iPc	39	48.10	0.6			
		e(S)		50	02.80				
DST	79.03	312	iP	39	47.40	-0.3			
TIM	79.04	320	iPc	39	49.00	1.4			
CSS	79.04	306	eP	39	47.80	-0.1			
MDSJ	79.15	302	P	39	46.37	-2.2			
CSTJ	79.17	301	P	39	50.65	2.0			
PRU	79.19	326	iPc	39	48.60	0.3			
	1.4s	463.30nm			6.3mb				
Z	13s	111.70um			7.4MszX				
N	13s	41.40um							
E	13s	60.00um							
		e		40	20.20				
		PP		42	51.00				
		eSKS		49	57.00				
		eSP		50	28.00				
		PKKP		58	38.00				
DIM	79.22	315	iPc	39	49.00	0.4			
SALJ	79.31	302	P	39	51.11	1.7			
KHL	79.32	310	iP	39	48.40	-1.0			
ZST	79.33	324	iPc	39	49.90	0.8			
		i		40	16.00				
DUG	79.43	47	iPc	39	50.76	0.7			
	1.2s	289.67nm			6.2mb				
TPNV	79.44	51	ePc	39	50.79	0.6			
	1.0s	352.69nm			6.3mb				
		ec		39	52.28				
		e		39	54.59				
		ed		39	55.92				
MASJ	79.45	302	P	39	52.22	2.0			
KDZ	79.55	315	eP	39	51.00	0.5			
BW06	79.56	43	iPc	39	50.49	-0.3			
	1.1s	361.05nm			6.3mb				
MKRJ	79.61	302	P	39	53.08	2.0			
VKA	79.65	324	iPc	39	51.20	0.4			
Z	13s	59.70um			7.1MszX				
PGB	79.65	316	eP	39	51.00	0.0			
PLD	79.65	316	P	39	51.00	0.1			
ALN	79.69	314	eP	39	51.30	0.1			
PPCY	79.73	306	eP	39	51.60	0.1			
UZD	79.76	322	iP	39	51.30	-0.2			
DSI	79.78	302	iPc	39	52.20	0.4			
RDO	79.82	315	eP	39	52.50	0.6			
RZN	79.92	315	iPc	39	53.00	0.3			
SOP	79.95	324	iP	39	53.80	1.3			
MOX	79.95	328	iPc+	39	52.60	0.2			
	1.6s	561.00nm			6.3mb				
		eS		50	00.00				
PAS	79.98	55	Pc	39	53.97	1.1			
		iS		49	58.00				
		eSKS		50	08.18				
BEO	80.07	320	iP	39	53.00	-0.1			
ELL	80.08	309	iP	39	53.40	-0.2			
HOF	80.10	328	iPc	39	53.30	0.1			
GSC	80.13	53	ePc	39	54.40	0.6			
		ec		39	55.72				
		ec		39	57.38				
		ed		39	59.53				
		eS		49	58.65				
		eSKS		50	13.30				
		ePS		50	41.44				
VTS	80.14	317	iPc	39	54.00	0.2			
DAU	80.18	46	iPc	39	55.07	0.8			
DHLJ	80.22	301	P	39	56.28	2.1			
WIT	80.23	332	ePc	39	54.50	0.7			
		e		42	56.00				
		e		43	10.00				
EZN	80.24	313	iP	39	53.90	-0.2			
KHC	80.25	326	iPc	39	54.50	0.4			
	1.3s	407.00nm			6.3mb				
N	14s	46.30um							
E	14s	76.00um							
		e		40	09.00				
		e		40	51.50				
		PP		42	57.50				
		SKS		50	06.00				
		e		51	11.00				
		ePKKP		58	40.50				
SSK	80.25	54	ePc	39	54.41	-0.2			
KPL	80.36	341	eP	39	54.50	0.1			
GEC2	80.41	326	Pc	39	54.90	-0.1			
	1.1s	187.88nm			6.0mb				
		e		42	37.40				
		e		42	44.00				
		e		58	29.50				
		PKKP		58	35.20				
		PKKP		58	37.90				
		PKKP		58	43.70				
		P'P'		06	38.40				
KSB	80.41	340	eP	39	53.80	-0.9			
MMB	80.53	316	iPc	39	56.00	0.2			
WET	80.54	327	iPc	39	56.20	0.6			
ARUT	80.62	49	iPc	39	57.09	0.6			
IZM	80.62	312	iP	39	55.50	-0.8			
PRK	80.65	313	eP	39	58.20	1.9			
KSL	80.69	309	eP	39	57.20	0.6			
TAU	80.69	173	iPc	39	57.40	1.2			
KKB	80.70	316	P	39	57.00	0.4			
PEC	80.80	54	iPc	39	57.00	-0.3			
	1.1s	216.57nm			6.1mb				
KMR	80.80	325	iP+	39	57.40	0.4			
		i		01	00.00				
WTS	80.82	332	iPc	39	56.80	-0.2			
	1.0s	355.10nm			6.3mb				
		e		42	56.50				
		e		43	01.00				
		e		43	13.50				
EMUT	80.83	46	iPc	39	58.36	0.7			
GRF	80.84	328	iPc	39	58.10	0.9			
	1.4s	1842.00nm			6.9mb				
Z	16s	35.00um			6.8MszX				
		e		40	03.90				
MSU	80.90	48	iPc	39	59.22	1.2			
SRS	80.93	316	iP	39	57.02	-0.8			
AYN	81.01	299	iPc	39	58.70	0.3			
MBH	81.22	301	iPc	39	59.80	0.1			
OUR	81.24	315	eP	40	00.70	1.3			
SOH	81.26	315	eP	39	59.02	-0.6			
KNT	81.28	316	eP	39	59.78	0.1			
PLM	81.33	55	iPc	40	00.49	0.2			
DBN	81.35	332	iP+	40	00.00	0.3			
Z	20s	12.00um			6.2Msz				
		ePP		43	10.00				
		eS		50	20.00				
		ePS		51	20.00				
		eSS		56	05.00				
		eSSS		59	44.00				
VAY	81.36	316	iP	40	00.50	0.5			
	1.2s	546.00nm			6.5mb				
EKA	81.41	338	Pc	39	59.80	-0.2			
	1.2s	235.20nm			6.1mb				
PFO	81.43	54	ePc	40	00.78	0.1			
		ec		40	02.27				
		ed		40	04.42				
		ed		40	05.74				
		iS		50	12.76				
ESK	81.43	338	ePc	40	00.12	0.0			
		ec		40	01.45				
		eS		50	17.97				
		ePS		50	51.07				
SRU	81.47	47	iPc	40	01.41	0.5			
BNS	81.50	331	iPc	40	01.30	0.8			
Z	12s	57.40um			7.2MszX				
		PP		43	10.00				
		PPP		44	57.50				
		S		50	12.50				
		SS		56	26.30				
SKO	81.52	317	iPc	40	01.60	0.7			
	1.0s	317.00nm			6.3mb				
		i		40	11.00				
		i		40	17.20				
		i		40	27.10				
		i		41	02.60				
		iS		50	18.00				
		i		50	38.50				
PTJ	81.53	323	iPc	40	00.80	-0.2			
RSSD	81.54	40	iPd	40	00.53	-0.7			
	1.5s	493.82nm			6.3mb				
Z	20s	8.47um			6.1Msz				
TNS	81.58	330	ePc	40	00.60	-0.5			
ZAG	81.58	323	iPc	40	01.00	-0.1			
THE	81.61	315	iP	40	02.58	1.3			
BHG	81.61	326	iPc	40	02.10	0.9			
	1.4s	960.00nm			6.7mb				
PLE	81.66	319	iPc						

GLA	82.83	54	iPd	40	08.58	0.7	ASS	85.21	323	Pc	40	19.90	0.1	STV	86.76	326	P	40	24.75	-2.7	
SRBF	82.84	329	P	40	08.45	0.9	DIX	85.26	328	iPc	40	20.50	0.2	IMI	86.77	326	P	40	26.31	-1.2	
WIM	82.87	339	ePc	40	07.30	-0.4	FIR	85.34	324	iPc	40	21.00	0.7	SURF	86.79	327	P	40	27.31	-0.5	
PV08	82.91	46	iPc	40	09.18	0.6				iPP	43	40.00		SAOF	86.86	326	P	40	27.05	-0.8	
WLF	82.93	330	iPc	40	08.15	0.2				iS	50	45.00		AUTN	86.91	326	P	40	27.54	-0.8	
SNF	82.96	332	iPc	40	07.87	-0.3	ORX	85.37	327	P	40	20.04	-0.6	PLDF	86.92	330	P	40	28.32	0.1	
ATH	82.99	313	eP	40	09.50	1.0	ORO	85.38	327	P	40	19.80	-0.8	BWZ	86.95	157	P	40	28.10	0.2	
			ePP	43	21.20		AQU	85.39	322	Pc	40	21.30	0.6	LPF	86.97	333	iPc	40	28.40	0.1	
			eScS	50	28.80		MNG	85.39	152	P	40	19.90	-0.5		1.2s	847.35nm			6.8mb		
CWF	83.06	336	eP	40	08.20	-0.4	KIW	85.39	152	P	40	19.40	-1.0	TOUF	86.97	326	P	40	27.54	-1.1	
AGG	83.06	315	eP	40	07.18	-1.8	BOB	85.40	326	Pc	40	20.80	0.1	AURF	87.04	326	P	40	27.91	-0.9	
OGA	83.08	326	iPc	40	09.40	0.2	BDI	85.43	325	P	40	20.00	-0.9	AGO	87.05	330	P	40	28.92	0.2	
	1.5s	735.00nm				6.7mb	THZ	85.46	154	P	40	19.90	-0.9	SSB	87.11	329	P	40	28.78	-0.3	
VVI	83.12	325	Pc	40	08.60	-0.6	TCW	85.46	153	P	40	19.70	-1.0	MAF	87.13	330	iPc	40	29.50	0.3	
STR	83.14	329	P	40	09.56	0.4	EMS	85.48	328	iPc	40	21.00	-0.2		1.2s	545.05nm			6.7mb		
DOU	83.18	332	Pc	40	09.10	-0.2	ORI	85.53	319	Pc	40	22.20	0.8	REVF	87.14	326	P	40	28.26	-1.0	
Z	12s	27.10um				6.8MszX	MRW	85.64	153	P	40	21.00	-0.6	SOI	87.20	317	Pc	40	29.50	-0.1	
			PP	43	19.00		CAW	85.66	152	P	40	20.30	-1.4	TCF	87.22	331	iPc	40	29.70	0.1	
			PPP	45	15.00					e	40	29.10			1.3s	263.55nm			6.3mb		
			ScS	50	36.00		SDI	85.67	321	Pc	40	21.80	-0.3	GMB	87.23	318	P	40	29.78	-0.2	
			PS	51	28.00		PII	85.72	324	Pc	40	21.30	-0.9		1.3s	136.10nm			6.0mb		
			e	51	35.00		LOR	85.77	330	iPc	40	22.20	-0.2	COLF	87.26	329	P	40	29.71	-0.1	
HVAR	83.27	321	iPc	40	09.20	-0.7				1.1s	504.00nm			PGF	87.34	324	P	40	29.60	-0.7	
WME	83.42	338	ePc	40	10.30	-0.2				Z	21s	12.80um		CALN	87.34	326	P	40	29.23	-1.1	
	1.3s	184.00nm				6.1mb	SGO	85.76	320	P	40	20.72	-1.8	PYM	87.35	330	P	40	30.19	-0.1	
CTI	83.43	325	Pc	40	09.80	-1.0				1.2s	255.30nm			ATN	87.45	318	P	40	29.62	-1.2	
WLS	83.44	329	P	40	10.66	-0.1	LSD	85.87	327	P	40	23.42	0.1		1.1s	40.80nm			5.6mb		
CDF	83.48	329	P	40	10.91	-0.1	MTW	85.87	152	P	40	22.20	-0.5	PMO	87.48	111	iPd	40	34.80	3.7X	
SLE	83.48	328	iPc	40	10.70	-0.2	TUC	85.88	52	ePc	40	24.10	0.8	LSF	87.51	331	iPc	40	30.90	-0.1	
LIBD	83.55	329	P	40	11.59	0.4				1.9s	519.01nm				1.3s	452.00nm			6.6mb		
HLW	83.56	303	iP+	40	12.00	0.4					ec	40	25.59		TPT	87.67	111	iPd	40	35.90	3.9X
			epP	40	26.00	48kmX					e	40	27.24		LBL	87.68	329	P	40	31.99	0.1
			ePP	43	33.00		RFI	85.89	321	P	40	23.88	0.8	AFR	87.73	114	iPd	40	36.20	4.0X	
			eSKS	50	34.00					1.5s	752.70nm			LRG	87.81	327	iPc	40	31.90	-0.5	
			e	50	59.00		TDS	85.89	318	Pc	40	23.50	0.3		1.4s	341.55nm			6.5mb		
			eS	51	12.00		RSL	85.91	328	P	40	22.83	-0.5	MFF	87.85	332	iPc	40	32.90	0.3	
FEL	83.59	328	P	40	11.34	-0.3	MGR	85.95	319	Pc	40	22.60	-0.8		1.2s	516.50nm			6.7mb		
OSS	83.61	326	iPc	40	12.10	0.3	LBF	85.95	330	iPc	40	23.00	-0.4	CDR	87.89	327	ePc	40	32.40	-0.4	
YRC	83.63	338	ePc	40	11.30	-0.2				1.1s	307.70nm				e	40	33.50				
ECH	83.68	329	P	40	11.77	-0.2	PCP	85.98	326	P	40	23.06	-0.6			e(PP)	43	58.00			
NPS	83.69	310	eP	40	13.30	1.1	LPL	86.00	328	iPc	40	23.90	0.0	PPT	87.89	114	iPd	40	37.00	3.9X	
DMU	83.73	340	iPc	40	12.20	0.1				1.1s	266.65nm			Z	33s	9775.00um			9.0MszX		
	1.4s	475.00nm				6.5mb	MOW	86.00	152	P	40	22.60	-0.8	PPN	87.97	114	iPd	40	36.10	2.7	
ZLA	83.75	328	iPc	40	12.20	-0.1	LPG	86.01	328	iPc	40	24.10	0.1		1.2s	316.60nm			6.5mb		
GOL	83.97	44	P	40	20.00	6.1X				1.1s	275.45nm			MNO	88.03	318	P	40	33.63	-0.2	
Z	20s	6.00um				6.0Msz	BLW	86.04	152	P	40	23.10	-0.5		1.2s	185.90nm			6.3mb		
LLS	83.97	327	iPc	40	13.70	0.0	RSP	86.07	327	P	40	23.79	-0.3	TVO	88.27	114	iPd	40	37.20	2.3	
MOF	83.98	329	P	40	13.38	-0.2	SSF	86.07	330	iPc	40	23.80	-0.1		1.2s	637.90nm			6.8mb		
KEK	83.99	317	eP	40	10.00	-3.7X				1.1s	459.10nm			RJF	88.30	330	iPc	40	35.00	0.2	
YRH	84.01	338	ePc	40	13.30	-0.2	RMP	86.14	322	P	40	24.30	-0.1		1.4s	315.40nm			6.4mb		
GLD	84.01	43	iPc	40	15.17	1.2	FLN	86.15	334	iPc	40	23.90	-0.4	Z	23s	20.02um			6.5MszX		
	1.3s	524.11nm				6.6mb				1.2s	367.75nm			GIB	88.34	319	P	40	35.50	0.3	
Z	18s	5.06um				5.9Msz	Z	21s	14.15um					CAF	88.40	330	iPc	40	35.70	0.4	
VDL	84.06	327	iPc	40	14.50	0.4	LDF	86.16	333	iPc	40	24.00	-0.3		1.5s	298.75nm			6.4mb		
BBS	84.13	328	P	40	14.24	0.0				1.4s	587.25nm			MEU	88.52	317	P	40	36.65	0.6	
BSF	84.13	329	P	40	13.98	-0.4	RDP	86.17	322	P	40	25.00	0.4		1.2s	143.80nm			6.1mb		
VITF	84.15	330	P	40	14.06	-0.3	CKI	86.19	326	Pc	40	23.70	-0.9	PZI	88.58	317	P	40	36.47	0.2	
DLF	84.15	339	iPc	40	14.30	0.1	SMF	86.28	330	iPc	40	24.80	-0.2		0.9s	114.90nm			6.2mb		
	1.2s	493.00nm				6.6mb				1.3s	491.00nm			LFF	88.91	331	iPc	40	38.10	0.4	
HAU	84.18	329	iPc	40	14.30	-0.2	JLP	86.30	335	ePc	40	25.00	0.0	LPO	88.95	330	iPc	40	38.20	0.3	
	1.1s	225.65nm				6.3mb	BHB	86.31	327	P	40	22.97	-2.2		1.2s	181.50nm			6.2mb		
Z	19s	13.10um				6.3Msz	JRS	86.34	335	ePc	40	24.90	-0.3	ERC	89.05	319	P	40	39.08	0.5	
SAL	84.27	326	Pc	40	14.70	-0.2				1.2s	112.00nm				0.9s	39.60nm			5.7mb		
VLI	84.30	313	eP	40	14.30	-0.9	AVF	86.36	330	iPc	40	25.20	-0.1	ACO	89.51	42	iPd	40	40.20	-0.5	
DCN	84.32	340	iPc	40	15.10	0.1				1.1s	670.05nm			MTHF	89.86	329	P	40	42.24	0.0	
	1.4s	784.00nm				6.7mb	JVM	86.36	335	eP	40	25.20	-0.1	EEO	90.00	24	eP	40	45.00	2.2	
LOMF	84.50	329	P	40	16.02	-0.2	JSA	86.37	335	ePc	40	25.30	0.0	PERF	90.09	328	P	40	42.79	-0.5	
MDI	84.50	326	P	40	14.90	-1.2	FIN	86.39	326	P	40	24.16	-1.5	LSPF	90.11	329	P	40	43.51	0.1	
ORZ	84.50	154	P	40	16.00	0.1	BNI	86.39	327	P	40	25.40	-0.3	VDCF	90.21	328	P	40	45.06	1.2	
			e	40	24.30		RRL	86.45	327	P	40	25.71	-0.5	ETER	90.25	328	iPc	40	43.34	-0.7	
LCI	84.54	318	P	40	16.10	-0.3	ROB	86.48	326	P	40	24.93	-1.1	PTS	90.29	319	P	40	44.72	0.4	
BAI	84.55	319	P	40	16.00	-0.4	MSZ	86.49	159	P	40	27.00	1.3		1.3s	373.20nm			6.5mb		
BRT	84.55	319	Pc	40	16.40	0.0	ARO	86.50	282	ePd	40	26.00	-0.6	LESF	90.29	329	P	40	44.52	0.3	
ETA	84.59	339	eP	40	16.70	0.3	CME	86.50	337	ePc	40	26.20	0.2	GRBF	90.35	329	P	40	44.31	-0.3	
TMA	84.61	327	iPc	40	16.60	-0.3	DOI	86.58	327	P	40	24.10	-2.5	TRGS	90.45	329	P	40	44.98	-0.2	
VLS	84.63	315	eP	40	16.90	0.0	GRR	86.60	334	iPc	40	26.50	0.0	EPF	90.67	330	iPc	40	45.80	-0.2	
RSM	84.66	323	Pc</																		

07d 13h

ELIZ 91.29 331 iPc 40 49.23 0.4
 FNO 91.52 42 iPc 40 50.80 0.8
 EGRA 91.63 330 iPc 40 49.74 -0.6
 ECR1 92.13 331 iPc 40 53.13 0.3
 ESEL 92.31 327 eP 40 53.03 -0.5
 CCM 92.41 36 ePc 40 54.41 0.4
 ec 40 55.57
 ed 40 59.37
 ePP 44 29.17
 iS 51 55.67
 EBR 92.46 329 iPd 40 55.50 1.3
 ePP 44 36.00
 EROQ 92.49 329 iPc 40 53.99 -0.4
 FVM 92.85 36 iPc 40 55.83 -0.3
 1.1s 85.15nm 6.1mb
 i 41 18.51
 EMON 93.14 335 eP 40 57.45 0.1
 RSNY 93.30 22 ePc 40 58.09 0.0
 1.1s 80.91nm 6.0mb
 Z 20s 9.04um 6.2Msz
 ETOR 93.49 330 iPc 40 58.95 -0.1
 ERUA 94.00 334 iPd 41 01.54 0.2
 STS 94.03 336 eP 41 02.88 1.5
 MIAR 94.06 40 ePc 41 01.64 0.0
 0.9s 72.05nm 6.0mb
 ec 41 03.13
 ECHE 94.10 329 iPc 41 01.68 -0.2
 OLY 94.35 38 eP 41 03.02 0.0
 GUD 94.45 332 iPc 41 03.31 -0.3
 LMN 94.56 15 eP 41 07.50 3.7X
 GRT 94.72 36 eP 41 04.83 0.2
 PAB 95.48 331 ePc 41 07.41 -0.9
 ec 41 08.90
 eHPP 45 01.28
 iPP 45 01.61
 eS 51 52.00
 EVIA 95.53 329 iPd 41 08.84 0.3
 EPLA 95.67 333 iPd 41 09.36 0.3
 EALH 95.75 328 eP 41 09.12 -0.3
 HRV 96.03 21 ePc 41 11.24 0.6
 1.7s 196.46nm 6.3mb
 ec 41 12.57
 ed 41 15.88
 eHPP 45 06.44
 ePP 45 06.77
 eS 52 25.93
 EHUE 96.27 329 eP 41 10.81 -1.1
 EBAN 96.45 330 eP 41 12.26 -0.4
 PNJ 96.72 23 iP 41 15.69 2.0
 GMTN 96.73 23 iP 41 16.06 2.2
 ENIJ 96.84 328 iPd 41 14.91 0.5
 ECOG 97.13 329 eP 41 15.02 -0.8
 ELUQ 97.17 330 eP 41 15.65 -0.3
 EHOR 97.32 331 iPd 41 16.00 -0.5
 EGUA 97.51 329 iPd 41 18.11 0.7
 NAV 97.56 30 eP 41 17.69 0.0
 GBTN 97.56 33 eP 41 17.54 -0.1
 TKL 97.75 33 eP 41 18.57 0.0
 CVL 97.86 28 eP 41 20.81 1.9
 EPRU 98.06 330 iPd 41 20.18 0.3
 EVAL 98.10 332 iPc 41 20.90 0.9
 EJIF 98.60 330 eP 41 22.09 -0.2
 NAI 99.05 275 ePc 41 26.50 1.6
 Z 22s 4.81um 6.0Msz
 PP 45 28.00
 PPP 47 32.00
 SKS 51 50.00
 PS 54 32.00
 PPS 59 42.00
 SS 59 58.00
 AVY 100.93 255 ePdiff41 33.40 0.1
 VTY 101.17 255 ePdiff41 34.50 0.2
 PAF 104.92 219 Pdiff 41 59.00 9.0X
 ePP 46 15.00
 eSP 55 09.00
 SS 01 57.00
 SSS 04 45.00
 BAO 109.48 292 iPdiffer42 10.60 -0.7
 1.3s 16.00nm
 id 46 10.00
 ic 46 43.00
 MTD 112.32 266 iPKPc 46 19.60 -0.5
 i 47 01.00
 CRZF 113.26 229 ePdiff42 33.00 5.7X
 CIR 114.65 262 iPKPc 46 31.50 7.0X
 i 47 23.00
 BUL 116.52 264 ePKP 46 37.30 9.1X

i 47 40.10
 i 57 20.00
 SLR 119.69 259 iPKPc+46 32.60 -1.5
 0.6s 23.33nm
 Z 20s 13.48um 6.6Msz
 TIC 123.63 313 PKPc 46 40.74 -1.0
 1.2s 81.50nm
 e 48 18.00
 KIC 123.70 313 PKPc 46 40.94 -1.0
 1.2s 112.00nm
 FRS 123.91 256 iPKPc 46 39.50 -2.4X
 0.7s 41.10nm
 LIC 123.97 313 PKPc 46 41.48 -1.0
 1.3s 115.50nm
 e 48 20.00
 TOV 126.46 34 iPKPc 46 47.20 -0.1
 SDV 126.88 35 iPKPc 46 47.30 -1.0
 SPA 127.44 180 iPKPc 46 47.10 -0.6
 1.2s 128.17nm
 Z 20s 2.70um 5.9Msz
 i 48 50.00
 e 59 34.00
 CUM 128.12 27 ePKP 46 34.00 -16.4X
 NVL 136.56 203 ePKP 47 02.00 -2.8X
 1.2s 96.00nm
 Z 20s 3.00um 6.0Msz
 E 20s 1.50um
 e 47 17.00
 e 47 30.00
 e 49 48.00
 e 50 39.00
 e 52 47.00
 e 02 10.00
 NNA 140.25 59 ePKP 47 05.32 -7.9X
 1.3s 15.38nm
 Z 20s 1.42um 5.7Msz
 eSKS 54 29.43
 eSDIF 58 42.83
 ARE 147.06 58 iPKPc 47 28.00 2.8X
 ZOBO 149.13 53 iPKPc 47 29.00 0.1
 1.8s 433.50nm
 LR 39 08.00
 LPB 149.34 54 PKPc 47 30.30 1.4
 1.0s 400.00nm
 Z 20s 4.26um 6.2Msz
 LR 39 28.00
 AIA 149.60 162 e(PKP) 47 31.00 3.7X
 CNCB 149.62 54 PKPc 47 31.10 1.6
 CCH 151.21 52 PKP 47 33.00 1.4
 SIV 153.04 42 iPKPc 47 39.00 5.1X
 YJA 155.07 58 ePKPc 47 37.60 0.6
 PEL 156.83 87 ePKP 47 37.00 -1.6
 FSA 157.20 66 ePKP 47 40.10 0.9
 BDF 157.65 13 ePKPc 47 42.40 2.2
 ePKPob48 13.69
 RTCB 157.73 82 ePKPc 47 40.50 0.7
 RTLL 157.93 81 ePKPc 47 40.20 0.2
 RFA 159.08 90 ePKPc 47 39.80 -1.4
 TCA 160.95 77 iPKPc 47 44.00 0.7
 RIFB 162.02 15 ePKP 47 46.10 1.5
 e 48 32.30
 CDCB 162.58 6 ePKP 47 46.20 1.0
 e 48 27.80
 PPD 162.78 28 ePKP 47 46.50 1.2
 VAO 164.97 15 ePKP 47 50.80 3.4X
 e 47 56.00
 e 48 42.40
 BMA 165.06 5 ePKP 47 47.70 0.2
 e 48 45.50
 RSTA 165.99 24 ePKP 48 04.70 16.6X
 e 49 04.60
 e 52 47.40
 LPA 167.45 82 ePKP+ 47 49.00 0.1
 Z 20s 7.09um
 ePP 52 45.00
 S.D. = 0.9 on 673 of 713 obs.
 * FEB 07, 1993 14h 07m 10.02±1.52s
 37.660 N ±11.7km 137.448 E ±13.3km
 DEPTH = 46.5 ± 12.8 km
 4.7mb (2 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN(226)
 MTMJ 1.11 165 iP+ 07 29.20 -0.3
 S 07 44.30
 MAT 1.27 151 iPc 07 31.10 -0.6
 iS 07 48.20

NIIJ 1.31 108 P 07 31.80 -0.3
 S 07 49.20
 CHJJ 2.03 142 P 07 43.40 1.0
 S 08 10.30
 YAMJ 2.11 75 P 07 43.10 -0.4
 IIDJ 2.21 170 P 07 45.20 0.2
 S 08 17.10
 TSRJ 2.42 210 P 07 48.00 0.0
 S 08 23.50
 KAKJ 2.62 123 P 07 53.60 2.7X
 S 08 28.50
 OFUJ 3.61 66 P 08 05.30 0.5
 S 08 59.30
 TKSJ 4.59 218 P 08 25.70 7.0X
 S 09 24.70
 WB2 57.37 183 eP 16 55.50 -0.4
 0.5s 7.60nm 5.0mb
 WRA 57.37 183 P 16 56.20 0.3
 0.5s 1.80nm 4.4mb
 S.D. = 0.6 on 10 of 12 obs.
 FEB 07, 1993 14h 32m 37.17±0.66s
 38.175 N ± 6.0km 22.836 E ± 6.1km
 DEPTH = 33.0km (normal)
 3.5mb (5 obs.)
 GREECE 364)
 MD 3.5 (ATH).
 ATH 0.72 106 ePg 32 51.50 0.6
 AGG 0.93 335 ePg 32 51.50 -1.5
 eSg 33 00.20
 VLI 1.46 177 ePb 33 00.00 -0.5
 VLS 1.77 271 ePn 33 01.10 0.8
 PAIG 1.87 20 ePb 33 01.00 0.1
 LIT 1.94 352 ePb 33 01.00 0.0
 eSb 33 10.00
 KZN 2.28 339 ePn 33 11.00 0.2
 OUR 2.33 22 ePn 33 11.00 0.2
 iSn 33 40.00
 SOH 2.67 8 ePn 33 11.00 0.0
 eSn 33 40.00
 GRG 2.80 353 ePn 33 40.00 0.0
 KEK 2.82 304 ePb 33 40.00 0.0
 FNA 2.84 337 ePn 33 40.00 0.0
 eSn 33 40.00
 PRK 2.89 67 ePg 33 40.00 0.0
 KNT 2.98 1 ePn 33 40.00 -0.2
 SRS 3.00 11 ePn 33 40.00 -0.5
 VAY 3.15 356 iPn 33 40.00 -0.2
 EZN 3.18 58 eP 33 40.00 1.0
 OHR 3.33 332 iPn 33 40.00 0.6
 i 33 40.00
 iSn 34 07.20
 i 34 14.00
 Lg 34 38.00
 MMB 3.48 11 eP 33 40.00 -0.3
 IZM 3.49 85 eP 33 40.00 -4.5X
 TDS 5.28 288 P 33 52.30 -3.5X
 ORI 5.31 293 P 33 53.60 -2.7X
 PVL 5.38 20 eP 33 54.00 -3.2X
 MGR 5.99 291 P 34 02.50 -3.3X
 SGO 6.30 295 P 34 08.60 -1.6
 MLR 7.67 17 eP 34 32.00 2.5X
 GEC2 12.55 331 Pn 35 40.70 4.6X
 0.6s 0.34nm 3.6mb
 SMF 16.35 307 eP 36 28.90 3.1X
 0.8s 2.15nm 3.3mb
 LBF 16.41 308 eP 36 28.40 1.9
 0.8s 2.70nm 3.4mb
 SSF 16.74 308 eP 36 31.90 1.3
 0.9s 2.60nm 3.4mb
 MAF 17.00 305 eP 36 35.00 1.0
 1.1s 6.60nm 3.7mb
 S.D. = 1.1 on 24 of 37 obs.
 FEB 07, 1993 14h 48m 31.76±0.63s
 15.018 N ± 5.2km 58.303 W ± 4.4km
 DEPTH = 15.2 ± 4.7 km

4.6mb (10 obs.)
NORTH ATLANTIC OCEAN (402)
ML 4.9 (FDF). MD 4.5 (TRN).

CRM	2.54	264	iPc	49	12.53	-0.5
MVM	2.55	260	iPc	49	13.22	0.0
			S	49	42.70	
BIM	2.72	260	iPc	49	15.75	0.0
			S	49	47.40	
FDF	2.77	264	eP	49	15.96	-0.4
			S	49	47.60	
SLB	2.91	246	eP	49	21.00	2.7
MGG	3.04	288	eP	49	20.00	-0.1
SVB	3.35	239	eP	49	25.00	0.5
			eS	50	05.00	
FCV	3.40	237	eP	49	26.00	0.7
			eS	50	01.50	
PAG	3.41	288	eP	49	25.00	-0.4
			S	50	03.00	
BPA	3.97	301	eP	49	33.10	-0.2
MGG	4.13	295	eP	49	35.60	0.0
CPB	4.27	308	eP	49	36.19	-1.4
NEV	4.61	298	eP	49	42.64	0.1
TRN	5.29	215	iPd	49	51.93	-0.2
			eS	50	46.01	
TCE	5.46	218	eP	49	54.91	0.4
			eS	50	51.56	

CUM	7.30	232	iP	50	02.00	-18.3X
TOV	12.37	246	eP	51	28.60	-1.6
SDV	13.51	245	iPc	51	44.10	-1.5
ZOBO	32.58	198	eP	55	04.00	-1.6
SRU	51.51	308	eP	57	39.90	0.7
BW06	51.72	313	eP	57	40.55	-0.3
	0.9s	3.41nm			4.3mb	
TIC	52.88	93	P	57	49.60	-0.1
LIC	52.97	94	P	57	50.40	0.1
KIC	53.22	93	P	57	52.20	0.1
GLA	54.03	300	(P)	57	58.84	1.0
SES	55.09	322	eP	58	06.00	0.6
BONR	57.34	306	eP	58	23.51	1.4
FLN	57.75	41	eP	58	24.00	-0.4
	0.8s	5.90nm			4.7mb	
NEW	58.27	318	eP	58	28.29	0.2
	0.8s	4.17nm			4.5mb	
LSF	58.51	45	eP	58	29.70	0.0
	1.1s	7.35nm			4.7mb	
CAF	58.63	46	eP	58	30.80	0.2
	1.1s	7.35nm			4.7mb	
TCF	58.98	45	eP	58	33.50	0.4
AVF	59.85	44	eP	58	39.10	0.1
	1.4s	8.70nm			4.7mb	
SSF	60.00	44	eP	58	40.00	0.0
	1.0s	6.00nm			4.7mb	
SMF	60.15	45	eP	58	41.20	0.1
	1.0s	5.00nm			4.6mb	
LOR	60.27	44	eP	58	41.90	0.0
	1.0s	4.60nm			4.6mb	
LBF	60.30	44	eP	58	42.10	-0.1
GEC2	67.01	43	P	59	25.50	-0.8
	0.7s	0.49nm			3.8mb	

S.D. = 0.8 on 37 of 38 obs.

% FEB 07, 1993 15h 01m 33.80±0.88s
39.075 N ± 8.6km 27.530 E ± 11.2km
DEPTH = 33.0km (normol)

TURKEY (366)
MD 2.7 (ISK).

Izm	0.71	197	iPg	01	47.50	0.1
			iSg	01	59.00	
DST	1.00	58	iPn	01	51.30	-0.3
EZN	1.20	309	ePn	01	54.00	-0.3
EDC	1.30	11	ePn	01	55.50	-0.2
BNT	1.31	13	iPn	01	56.60	0.6

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

FEB 07, 1993 15h 09m 28.01±0.93s
37.549 N ± 7.5km 137.601 E ± 10.2km
DEPTH = 56.8 ± 12.6 km
4.5mb (3 obs.)

NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ	0.98	170	P	09	44.40	-1.5
			S	09	59.10	
MAT	1.12	154	iPd	09	46.60	-1.1
			eS	10	04.00	

NIJ	1.16	105	P	09	48.30	0.1
			S	10	06.20	
CHJJ	1.87	143	P	09	59.20	1.1
			S	10	26.60	
YAMJ	2.03	71	eP	10	00.20	-0.1
IIDJ	2.08	173	P	10	02.30	1.2
			S	10	32.90	
TSRJ	2.39	213	P	10	06.10	0.6
KAKJ	2.46	122	P	10	10.60	4.2X
OFUJ	3.55	63	P	10	22.40	0.6
			eS	11	18.00	
AOMJ	3.70	35	P	10	23.60	-0.4
			eS	11	21.70	
LZH	26.98	277	eP	15	06.50	0.1
	1.4s	26.00nm			4.6mb	
			sP	15	10.00	
WB2	57.26	184	eP	19	11.50	-0.5
	0.6s	4.40nm			4.7mb	
WRA	57.27	184	P	19	11.90	-0.1
	0.7s	0.80nm			3.9mb	

S.D. = 0.9 on 12 of 13 obs.

FEB 07, 1993 15h 38m 23.13±0.40s
13.671 N ± 5.2km 120.807 E ± 7.3km
DEPTH = 110.5km (3 depth phases)
4.8mb (22 obs.)

MINDORO, PHILIPPINE ISLANDS (250)

PGP	0.22	140	iPc	38	39.50	-0.5
TGY	0.45	16	eP	38	50.60	10.6X
OCQ	1.00	15	iPc	38	24.00	-20.6X
BAG	2.73	355	eP	39	06.00	-0.5
SZP	3.87	355	eP	39	23.00	1.3
CVP	4.13	14	eP	39	27.00	1.8
	1.0s	396.00nm				
PIP	4.63	358	ePd	39	33.00	0.9
CGP	6.44	143	eP	40	03.00	6.1X
	0.5s	10.00nm			4.4mb X	
TSM	9.76	198	ePd	40	46.00	4.0X
SSE	17.35	1	Pc	42	20.50	0.8
	1.0s	21.00nm			4.3mb	
GVA	18.37	316	P	42	32.00	-0.3
	1.0s	29.00nm			4.5mb	
NJ2	18.38	355	Pc	42	32.20	0.0
NST	20.10	278	eP	42	51.20	0.9
KMI	20.47	307	Pc	42	55.50	1.1
	1.5s	90.00nm			4.9mb	
		pP	43	14.50	94kmX	
CHG	21.60	287	ePc	43	06.00	0.5
	1.0s	32.50nm			4.6mb	
TIA	22.69	352	Pd	43	16.70	0.7
XAN	22.97	334	iPd	43	18.60	-0.2
	1.0s	31.00nm			4.6mb	
CD2	23.25	320	eP	43	21.40	-0.1
	1.0s	100.00nm			5.1mb	
TIY	25.08	344	Pd	43	38.50	-0.5
BJI	26.58	352	eP	43	52.50	-0.1
	1.3s	40.00nm			4.8mb	
LZH	27.02	329	Pc	43	56.50	-0.4
	1.5s	110.00nm			5.2mb	
	Z 25s	0.43um			3.9mszX	

HHC	28.26	345	P	44	07.60	-0.3
	1.0s	23.00nm			4.8mb	
BTO	28.44	343	eP	44	08.50	-1.1
GTA	31.62	328	P	44	37.00	-0.7
	1.0s	38.00nm			5.1mb	
LSA	31.71	305	Pc	44	39.60	0.5
	1.2s	46.00nm			5.1mb	
GUN	35.45	299	P	45	10.80	-0.3
PKI	35.76	298	P	45	13.00	-0.7
KKN	35.93	299	P	45	14.20	-0.8
WRA	35.96	158	P	45	15.10	0.1
WB2	35.96	158	eP	45	14.50	-0.6
	0.5s	12.00nm			5.0mb	
		i	45	39.00	105km	
DMN	36.03	298	P	45	15.20	-0.7
GKN	36.53	299	P	45	19.20	-0.8
ASPA	39.26	161	iPd	45	44.30	1.7
	0.9s	10.50nm			4.6mb	
WMO	41.29	323	P	46	00.00	0.8
	2.0s	34.00nm			4.8mb	
GBA	42.11	275	Pc	46	07.00	0.9
KSH	46.97	312	P	46	46.50	1.6
	0.7s	40.00nm			5.3mb	
YAK	48.70	6	iPc	46	56.00	-1.8
	1.0s	30.00nm			5.1mb	
BRS	51.26	143	e(P)	47	42.00	24.1X

QUE	52.13	298	eP	47	24.80	0.2
MAIO	58.98	304	iPc	48	13.60	0.0
	0.8s	18.30nm			5.2mb	
IMA	75.79	25	eP	49	58.95	0.5
	0.8s	6.07nm			4.5mb	
		eP	50	27.56	112km	
FBA	78.33	26	eP	50	12.40	0.1
	0.8s	4.75nm			4.4mb	
		(pP)	50	41.63	114km	
AVY	78.92	247	eP	50	17.30	0.7
JVI	79.10	300	eP	50	17.90	0.6
VTY	79.14	247	eP	50	18.40	0.7
PRNI	79.66	299	eP	50	20.90	0.6
SAGI	79.97	299	eP	50	22.40	0.5
CSS	80.26	304	eP	50	22.60	-0.8
UPP	84.79	330	iP	50	43.90	-2.1
HFS	86.55	331	eP	50	52.30	-2.5
	0.4s	1.20nm			4.2mb	
NB2	87.33	333	P	50	56.60	-2.0
	0.7s	2.90nm			4.4mb	
BRG	89.83	323	e(P)	51	11.20	0.6
GEC2	90.72	321	P	51	14.40	-0.5
	0.8s	2.04nm			4.3mb	
		e	51	51.00	143kmX	
		e	52	00.40		

S.D. = 1.0 on 48 of 53 obs.

FEB 07, 1993 16h 22m 08.07±1.21s
2.821 N ± 7.1km 128.946 E ± 10.0km
DEPTH = 44.6 ± 11.6 km
4.9mb (11 obs.) 4.4msz (2 obs.)

HALMAHERA, INDONESIA				(267)		
MNI	4.33	252	ePc	23	13.50	0.4
			eS	24	12.50	
SWI	4.33	148	ePc	23	11.50	-1.6
	0.5s		3.00nm			
CGP	7.02	323	eP	23	52.00	1.1
	2.0s		230.00nm			5.6mb X
WB2	23.24	167	iPc	27	13.40	1.0
	0.8s		27.30nm			4.8mb
GZH	25.19	324	P	27	31.00	-0.1
ASPA	26.77	170	iPd	27	46.50	0.7
	0.7s		13.90nm			4.7mb
CHG	33.38	301	eP	28	44.20	-0.5
XAN	36.24	331	eP	29	08.00	-1.0
MUN	36.66	198	eP	29	11.00	-1.4
CD2	36.70	322	eP	29	12.30	-0.5
TIY	37.89	338	eP	29	22.60	-0.2
BJI	38.82	344	eP	29	30.00	-0.4
	1.0s		11.00nm			4.6mb
SNY	39.13	354	eP	29	34.20	1.2
	Z 13s		1.67um			5.1MszX
	N 11s		0.66um			
	E 13s		1.14um			
ARMA	39.52	148	iPd	29	38.60	2.1
	0.3s		4.00nm			4.7mb
LZH	40.42	328	Pc	29	45.00	1.0
	1.4s		32.00nm			4.9mb
	Z 20s		0.30um			4.1Msz
			pP	29	54.50	32kmX
CN2	40.92	356	eP	29	51.40	3.6X
LSA	44.70	311	Pc	30	20.40	1.1
	1.0s		7.00nm			4.4mb
GTA	45.02	328	P	30	21.00	-0.4
	Z 18s		0.86um			4.7Msz
GUN	48.05	306	P	30	45.60	-0.1
PKI	48.30	305	P	30	47.20	-0.4
	0.8s		13.00nm			5.0mb
KKN	48.49	305	P	30	48.60	-0.3
	0.8s		24.00nm			5.3mb
DMN	48.56	305	P	30	49.40	-0.1
	0.8s		27.00nm			5.3mb
GKN	49.09	305	P	30	53.40	-0.1
	0.8s		24.00nm			5.3mb
GBA	51.99	285	P	31	15.00	-0.5
YAK	59.06	0	eP	32	04.50	-1.2
	1.1s		30.00nm			5.3mb
KSH	60.22	315	eP	32	15.20	0.9
MAIO	71.82	307	eP	33	28.00	-0.5
ZOBO	158.52	130	PKP	41	45.00	-18.5X
			LR	09	40.00	
SIV	163.61	144	PKP	42	08.00	0.0
			i	42	14.00	

07d 16h

49.359 N \pm 3.4km 128.597 W \pm 4.1km
 DEPTH = 10.0km (geophysicist)
 4.8mb (24 obs.) 5.0Msz (2 obs.)
 VANCOUVER ISLAND REGION (25)

BPBC	0.96	34	Pn	29 32.02	0.7
			Sn	29 48.52	
EDB	1.09	61	Pnc	29 34.26	0.8
HOLB	1.32	13	Pn	29 36.41	-0.9
			Sn	29 55.58	
ETB	1.35	88	Pn	29 37.65	0.0
PHC	1.54	29	Pn	29 40.58	0.1
			Sn	30 02.27	
GDR	1.72	75	Pn	29 43.45	0.4
			Sn	30 07.97	
BTB	2.01	86	Pnc	29 47.29	-0.2
OZB	2.08	100	Pn	29 46.95	-1.3
CBB	2.20	71	Pn	29 50.71	0.6
ALB	2.47	91	Pn	29 53.24	-0.5
PFB	2.85	104	Pn	29 57.57	-1.8
NAB	3.01	91	Pn	30 01.63	0.1
SHB	3.09	84	Pn	30 02.46	-0.3
BIB	3.46	87	Pn	30 07.08	-0.8
PGC	3.46	100	P	30 07.00	-0.9
	1.2s			13.50nm	
VGZ	3.61	103	Pn	30 07.82	-2.2
WHB	3.74	76	Pn	30 12.67	0.7
MCW	3.85	98	eP	30 13.17	-0.4
HNB	3.94	89	Pn	30 14.20	-0.5
GMW	4.27	113	eP	30 18.59	-0.9
			e	31 06.14	
BMW	4.62	127	eP	30 24.59	0.1
RMW	4.91	110	eP	30 27.75	-0.8
LON	5.25	117	eP	30 32.40	-0.9
SHW	5.33	124	eP	30 34.06	-0.6
VGB	6.55	123	eP	30 48.66	-3.1X
DPW	7.05	98	eP	30 56.71	-2.0
NEW	7.66	94	eP	31 06.03	-1.2
FHC	9.16	157	eP	31 25.83	-2.2
LBFM	9.30	147	eP	31 30.58	0.5
LGPM	9.37	152	eP	31 30.73	-0.4
WDC	9.77	152	eP	31 37.04	0.6
LMEM	10.12	148	eP	31 41.93	0.4
ORV	11.03	150	eP	31 53.27	-0.4
SES	11.38	78	ePc	31 57.70	-0.8
	1.3s			184.00nm	6.2mb X
LCCM	11.82	101	eP	32 03.80	-0.9
HHA I	12.73	112	eP	32 17.81	0.9
KVN	12.75	140	eP	32 18.80	1.7
PTI	12.98	114	eP	32 21.59	1.4
ARN	13.05	154	eP	32 19.36	-1.6
COE	13.10	155	(P)	32 19.67	-1.9
HVU	13.41	118	eP	32 26.98	1.1
BONR	13.60	143	eP	32 30.24	1.7
MEMM	13.61	146	eP	32 26.27	-2.1
TNP	13.94	140	eP	32 32.34	-0.5
BALM	14.05	332	eP	32 34.31	0.2
DUG	14.45	123	(P)	32 40.92	1.4
	1.1s			58.82nm	5.1mb
BW06	14.75	109	eP	32 44.90	1.4
	1.4s			206.64nm	5.5mb
DAU	15.17	120	eP	32 49.52	0.4
TPNV	15.30	140	eP	32 52.86	2.2
	1.0s			72.27nm	5.0mb
KLU	15.57	328	eP	32 52.96	-0.9
ISA	15.57	148	eP	32 54.15	0.1
	1.0s			18.91nm	4.3mb
EMUT	15.82	120	eP	33 02.07	4.5X
ARUT	15.91	131	eP	33 59.88	1.3
MSU	16.01	126	eP	33 00.37	0.5
TOA	16.08	329	eP	33 01.40	1.0
SRU	16.47	122	eP	33 09.72	4.0X
GSC	16.50	144	eP	33 06.47	0.4
SLKM	16.61	320	(P)	33 05.51	-1.7
PMR	16.80	325	eP	33 09.80	0.3
	1.7s			193.99nm	5.0mb
RSSD	17.60	98	eP	33 18.64	-1.2
	1.4s			150.16nm	4.9mb
PEC	17.63	147	eP	33 20.27	0.1
	1.0s			23.16nm	4.3mb
PV09	17.68	121	eP	33 22.46	1.4
PV10	17.82	121	eP	33 23.92	1.2
PV08	17.90	120	eP	33 23.70	-0.1
PLM	18.22	147	eP	33 26.80	-0.8
FBA	18.61	334	eP	33 32.90	1.0
	2.2s			501.80nm	5.3mb
GOL	19.10	112	eP	33 39.08	0.6

GLD	1.4s			46.68nm	4.5mb
	19.16	111	eP	33 39.99	0.9
	1.6s			152.44nm	5.0mb
SVW	19.22	318	eP	33 38.37	-1.1
	1.2s			73.21nm	4.8mb
GLA	19.25	143	eP	33 40.70	0.5
ULM	21.05	75	eP	34 02.00	2.9
IMA	21.19	331	eP	33 59.20	-1.4
	1.9s			326.70nm	5.4mb
TUC	21.63	135	eP	34 06.03	0.8
	1.2s			47.56nm	4.8mb
ALQ	21.73	123	eP	34 05.67	-0.7
	1.6s			125.67nm	5.1mb
FCC	22.10	52	eP	34 13.50	3.9X
ACO	24.80	110	iPd	34 37.40	1.2
WMOK	26.31	113	eP	34 49.87	-0.6
	1.0s			27.67nm	4.9mb
MEQ	26.40	112	iPc	34 51.50	0.3
OCO	26.59	110	e(P)	35 00.00	7.1X
FNO	26.81	110	iPd	34 55.40	0.5
RES	29.07	18	eP	35 19.00	4.0X
UYO	29.34	108	iPd	35 17.40	-0.5
OLY	30.37	103	(P)	35 26.77	-0.2
ELC	30.73	98	eP	35 29.46	-0.7
			e	35 35.37	
EEO	32.77	76	eP	35 50.50	2.5
RSNY	36.55	76	(P)	36 20.19	-0.2
	1.4s			28.80nm	4.9mb
Z	18s			2.58um	5.1Msz
CVL	37.36	88	(P)	36 27.78	0.6
			e	36 34.14	
LHS	37.88	95	eP	36 30.97	-0.7
			e	36 37.42	
CBN	37.94	87	eP	36 37.00	4.9X
LMN	42.02	70	eP	37 09.50	3.8X
YAK	52.79	325	eP	38 31.00	1.0
	0.8s			30.00nm	5.3mb
	N 18s			0.50um	
	E 16s			0.40um	
TOV	62.51	108	eP	39 38.80	-0.3
SDV	62.69	109	eP	39 39.40	-1.0
NB2	65.30	20	P	40 00.60	3.8X
	0.7s			1.60nm	4.3mb
SLL	66.27	19	eP	40 03.70	0.8
	0.5s			2.30nm	4.6mb
IRK	69.23	328	eP	40 26.50	4.9X
	2.0s			23.00nm	5.0mb
BRG	75.14	23	eP	41 02.20	5.6X
LOR	75.32	31	eP	40 56.30	-1.4
	1.6s			8.70nm	4.6mb
Z	22s			0.68um	4.9Msz
SSF	75.38	32	eP	40 56.80	-1.2
	1.4s			6.10nm	4.5mb
KSP	75.76	22	eP	41 00.00	-0.2
KHC	76.63	24	eP	41 05.00	-0.1
			e	41 26.50	
			e	41 40.00	
GEC2	76.92	25	P	41 08.80	1.9
	0.6s			0.21nm	3.4mb X
LPL	77.81	30	eP	41 18.30	6.3X
	0.9s			2.30nm	4.3mb
LPG	77.84	30	eP	41 19.50	7.3X
	1.1s			3.90nm	4.4mb
LPB	84.56	123	eP	41 51.00	3.0
CNCB	84.85	123	P	41 54.00	4.4X
MAIO	94.41	353	eP	42 29.00	-5.3X
	S.D. = 1.1			on 92 of 107 obs.	
	* FEB 07, 1993 16h 31m 32.40 \pm 2.03s				
	2.837 N \pm 10.4km 128.867 E \pm 18.6km				
	DEPTH = 59.8 \pm 15.8 km				
	4.2mb (2 obs.)				
	HALMAHERA, INDONESIA (267)				
MNI	4.26	251	eP	32 36.20	0.0
			eS	33 39.00	
CGP	6.96	324	eP	33 14.00	0.0
WB2	23.27	167	iPc	36 35.70	0.1
	0.4s			6.70nm	4.4mb
ASPA	26.80	170	eP	37 08.80	-0.1
	2.6s			12.20nm	4.0mb
GUN	47.97	306	P	40 08.00	0.2
PKI	48.22	305	P	40 09.40	-0.3
KKN	48.41	305	P	40 11.00	0.0
DMN	48.49	305	P	40 11.80	0.2
GKN	49.02	305	P	40 15.60	0.0
	S.D. = 0.2			on 9 of 9 obs.	

% FEB 07, 1993 16h 44m 36.23 \pm 4.32s
 45.082 S \pm 9.2km 166.129 E \pm 35.6km
 DEPTH = 33.0km (normal)
 OFF W. COAST OF S. ISLAND, N.Z. (161)
 ML 4.0 (WEL).

MSZ	1.34	73	eP	44 58.70	0.0
			eS	45 12.80	
BCZ	1.52	128	Pd	45 01.50	0.2
TLC	2.09	94	P	45 09.60	-0.1
MMCZ	2.13	89	P	45 10.60	0.3
CMCZ	2.23	93	P	45 12.00	0.3
MHZ	2.23	91	P	45 12.20	0.5
SBCZ	2.25	91	P	45 12.50	0.5
LSCZ	2.29	92	P	45 13.10	0.5
TUZ	2.61	111	eP	45 16.40	-0.6
BWZ	2.73	80	P	45 19.10	0.5
ODZ	3.20	91	P	45 24.30	-1.0
			S	45 55.20	
EWZ	3.74	67	eP	45 33.90	1.0
MOZ	4.87	76	eP	45 47.40	-1.7
LTZ	4.99	65	eP	45 50.40	-0.5
DSZ	5.31	53	eP	45 55.20	-0.1
QRZ	6.33	50	eP	46 09.00	0.2
	S.D. = 0.7			on 16 of 16 obs	

FEB 07, 1993 17h 06m 05.00 \pm 0.17s
 37.734 N \pm 3.1km 137.233 E \pm 8.0km
 DEPTH = 16.9km (6 depth phases)
 4.8mb (36 obs.) 4.9Msz (2 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN (26)

MTMJ	1.22	159	P	06 27.00	-0.3
			S	06 44.00	
MAT	1.41	148	iPd	06 29.00	-0.7
			iS	06 44.00	
NIIJ	1.46	109	P	06 50.50	-0.9
			S	06 50.50	
CHJJ	2.18	140	P	06 44.00	-0.1
YAMJ	2.23	78	P	06 44.00	-0.5
IIDJ	2.31	167	P	06 47.00	0.0
			eS	07 15.50	
TSRJ	2.43	206	P	06 45.00	0.5
			eS	07 15.50	
KAKJ	2.78	122	eP	06 45.00	-0.6
OFUJ	3.71	67	P	07 04.00	0.5
			S	08 00.50	
AOMJ	3.71	40	P	07 04.00	0.0
WKYJ	3.76	202	eP	07 04.00	0.5
TKSJ	4.57	216	eP	07 17.50	1.8
SHK	4.90	231	eP	07 22.00	1.5
MRRJ	5.52	31	eP	07 29.40	0.3
SHNJ	6.16	236	P	07 40.30	2.1
HOIJ	6.54	43	eP	07 44.40	0.8
KUMJ	7.40	227	P	07 56.70	1.1
ASAJ	7.56	31	eP	07 59.30	1.5
KUSJ	7.80	44	eP	08 00.50	-0.7
MDJ	8.99	322	eP	08 21.10	3.4X
CN2	10.82	308	eP	08 47.20	4.3X
	1.2s			43.00nm	5.6mb
Z	14s			1.36um	3.9Msz X
N	11s			1.02um	
E	11s			0.69um	
			eS	10 56.00	
SSE	14.83	248	Pc	09 43.50	7.2X
	1.2s			25.00nm	4.5mb
Z	20s			1.00um	5.8Msz
N	10s			0.50	

Z	14s	1.18um	4.4MszX	GLA	82.75	54	eP	18	30.95	0.7	CVA	3.86	342	eP	07	27.09	-0.5		
E	14s	1.95um		PV08	82.83	46	eP	18	31.53	0.6				S		08	08.75		
		pP	10	49.50	21km	CDF	83.40	329	iPc	18	33.10	-0.3	HIN	3.87	336	eP	07	27.56	
		eS	14	34.00			1.2s	14.30nm		5.0mb	LTJ	3.94	325	eP	07	28.99	0.4		
BTO	21.29	286	eP	10	55.00	1.2	BSF	84.06	329	iPc	18	36.10	-0.6	KNIM	4.15	328	iP	07	31.66
	N	15s	0.74um				1.4s	9.60nm		4.8mb				eS		08	15.14		
	E	13s	0.64um				HAU	84.10	329	iPc	18	36.20	-0.6	BALM	4.17	7	eP	07	31.97
XAN	23.23	269	eP	11	12.20	-0.7		0.7s	3.40nm		4.7mb			S		08	14.67		
YAK	24.76	351	eP	11	25.00	-2.4	LBF	85.88	330	iPc	18	45.00	-0.8	FID	4.19	338	eP	07	33.09
	1.8s	70.00nm				5.0mb		1.1s	7.35nm		4.8mb		CTGM	4.20	13	eP	07	32.54	
	Z	15s	0.50um			4.1MszX	LPL	85.93	328	iPc	18	45.90	-0.4	GLI	4.43	336	eP	07	35.16
	N	14s	1.00um					0.9s	4.40nm		4.7mb		VZW	4.48	340	eP	07	35.90	
	E	13s	0.50um				LPG	85.94	328	iPc	18	46.00	-0.4	VLZ	4.51	341	eP	07	36.12
LZH	26.70	277	eP	11	45.00	-1.1		0.9s	4.90nm		4.7mb		SEW	4.53	318	eP	07	36.41	
	Z	18s	1.16um			4.5Msz	SSF	86.00	330	iPc	18	45.80	-0.5		S		08	24.97	
	E	15s	0.60um					1.0s	7.60nm		4.8mb		GLB	4.56	357	iP	07	36.89	
		pP	11	49.00	14km	FLN	86.07	334	iPc	18	45.80	-0.8		S		08	24.21		
		S	16	30.00			1.2s	9.80nm		4.9mb		MPA	4.77	321	eP	07	39.95		
GYA	28.14	255	iPd	11	57.80	-1.4	LDF	86.08	333	iPc	18	46.00	-0.7		S		08	30.72	
	1.0s	9.60nm				4.5mb		1.1s	11.50nm		5.0mb		KLU	4.79	345	eP	07	40.01	
		pP	12	03.60	20km	SMF	86.21	330	iPc	18	46.80	-0.6	PTE	4.94	326	eP	07	42.72	
CD2	28.40	266	eP	12	03.20	1.8		1.4s	13.50nm		5.0mb			eS		08	35.42		
GTA	29.20	285	eP	12	07.50	-1.1	AVF	86.28	330	iPc	18	47.30	-0.4	SLKM	5.09	318	eP	07	45.66
	1.2s	10.00nm				4.5mb		1.0s	13.40nm		5.1mb		SYI	5.14	293	P	07	50.50	
		sP	12	19.00			GRR	86.52	334	iPc	18	48.40	-0.4	KNK	5.23	332	eP	07	47.17
KMI	31.85	257	eP	12	32.00	-0.4		1.1s	14.90nm		5.1mb		TZL	5.26	349	eP	07	47.12	
	1.2s	30.00nm				5.1mb	ALO	86.61	48	ePd	18	51.12	1.3	SCM	5.35	339	eP	07	49.10
	Z	14s	0.70um			4.5MszX		1.2s	6.93nm		4.7mb		TOA	5.41	346	P	07	51.50	
		pP	12	37.00	17km	LPF	86.89	333	iPc	18	50.50	-0.1	SML	5.54	335	eP	07	51.20	
WMO	37.57	295	eP	13	21.00	0.1		1.1s	14.90nm		5.1mb		GHO	5.65	332	eP	07	53.61	
	Z	16s	0.52um			4.4Msz	MAF	87.06	330	iPc	18	51.50	0.0						
		eP	13	27.20	-0.3		1.2s	12.50nm		5.0mb				S.D. = 0.6 on 32 of 33 obs.					
CHG	38.33	251	eP	13	27.20	-0.3	MFF	87.77	332	iPc	18	54.90	0.0						
GUN	43.82	273	P	14	12.40	-0.6		0.9s	7.20nm		5.0mb								
PKI	44.34	273	P	14	15.20	-2.0	ZOBO	149.06	53	PKP	25	55.00	3.5X						
KKN	44.34	273	P	14	16.60	-0.5	LPB	149.26	54	ePKP	26	07.00	15.5X						
DMN	44.56	273	P	14	19.20	0.3	CNCB	149.54	54	PKP	25	57.30	5.2X						
GKN	44.76	274	P	14	19.80	-0.6	CCH	151.13	52	(PKP)	26	01.00	6.8X						
SVW	46.96	38	eP	14	38.50	1.3	SIV	152.96	42	PKP	25	57.00	0.5						
KSH	47.11	292	eP	14	39.00	0.2		S.D. = 0.9 on 91 of 100 obs.											
	Z	20s	1.20um			4.9Msz													
IMA	47.77	31	ePc	14	44.10	0.4													
FBA	50.28	32	eP	15	02.59	-0.2													
	1.2s	7.64nm				4.6mb													
WB2	57.43	183	iPc	15	53.90	-2.0													
	0.6s	10.50nm				5.0mb													
		i	15	58.80	16km														
WRA	57.43	183	P	15	54.20	-1.7													
	0.5s	4.00nm				4.7mb													
QUE	57.58	285	eP	15	56.80	-0.5	BDV	0.16	230	iPg	20	53.44	-0.5						
GBA	58.01	262	P	15	59.00	-1.1	TTG	0.20	77	iPg	20	54.73	-0.1						
MAIO	60.34	295	eP	16	16.00	-0.2													
ASPA	61.15	184	iPc	16	20.70	-0.9	HCY	0.37	280	iPg	20	57.82	-0.3						
	1.2s	15.00nm				5.0mb													
KAF	66.14	331	eP	16	52.50	-1.4	NKY	0.43	1	iPg	20	59.50	0.2						
NB2	72.23	336	P	17	30.20	-1.3													
	1.1s	15.30nm				5.0mb	ULC	0.46	156	iPg	20	58.52	-1.4						
LCCM	76.20	42	eP	17	54.90	0.0													
OJC	76.58	324	eP	17	56.90	0.2	BRY	0.61	327	iPg	21	02.82	-0.1						
KVN	76.91	51	eP	18	00.60	1.6													
SPC	77.08	323	eP	18	00.60	0.8	PVY	0.76	74	iPg	21	04.94	-1.0						
BONR	77.46	52	eP	18	02.93	0.7													
KSP	77.73	326	eP	18	03.20	0.1	IVA	0.83	54	iPg	21	06.40	-0.8						
TNP	78.05	51	eP	18	06.19	0.8													
	1.0s	9.69nm				4.8mb	PLE	0.99	17	iPg	21	09.78	-0.2						
BRG	78.73	327	eP	18	08.40	-0.1													
CLL	78.80	328	iPc	18	08.60	-0.3	OHR	1.86	133	ePn	21	25.30	1.8						
	1.1s	16.00nm				5.0mb	SKO	1.87	102	ePn	21	25.00	1.5						
SRO	78.96	323	eP	18	10.30	0.4													
PRU	79.12	326	P	18	10.90	0.2	HVAR	2.03	294	e(Pn)	21	26.80	0.8						
ZST	79.26	324	eP	18	11.50	0.0		S.D. = 1.1 on 12 of 12 obs.											
BW06	79.47	44	iPc	18	12.51	-0.6													
	1.0s	7.28nm				4.6mb													
MOX	79.88	328	eP	18	15.00	0.2													
KHC	80.18	326	P	18	16.90	0.4													
	1.2s	8.00nm				4.6mb													
		e	18	28.50	38kmX														
GEC2	80.34	326	Pd	18	17.50	0.1													
	1.1s	3.58nm				4.3mb													
		e	18	21.60	13km														
GRF	80.77	328	ePc	18	20.30	0.7	KAIM	3.08	350	eP	07	16.77	0.3						
	1.1s	17.00nm				5.0mb	SNH	3.29	4	eP	07	19.78	0.2						
MSU	80.82	48	eP	18	21.59	1.3	PNL	3.46	35	iP	07	22.02	0.1						
SRU	81.39	47	ePc	18	23.48	0.3	HQN	3.48	41	eP	07	22.14	0.0						
KBA	81.81	325	iP	18	24.90	-0.4	RAGM	3.56	349	eP	07	23.19	-0.1						
	1.0s	7.10nm				4.7mb	YAH	3.57	13	iP	07	23.72	0.1						
PV09	82.60	46	eP	18	30.41	0.7	PCA	3.58	26	eP	07	23.74	0.0						
PV10	82.74	47	eP	18	31.35	1.0	BCPM	3.62	31	eP	07	24.08	-0.1						
							SCAM	3.73	346	eP	07	25.90	0.1						
							MTU	3.83	326	iP	07	27.37	0.2						
														</					

07d 18h

HHC 18.66 309 Pc 54 20.00 0.2
1.0s 28.00nm 4.5mb
BTO 19.60 307 eP 54 29.50 -0.5
GYA 21.41 265 P 54 49.60 1.0
LZH 23.08 291 eP 55 05.00 0.1
1.0s 47.00nm 4.8mb
CD2 23.10 278 eP 55 05.40 0.3
0.8s 32.00nm 4.8mb
GTA 26.73 298 eP 55 40.00 0.7
1.5s 21.00nm 4.4mb
WMO 36.38 304 P 57 03.00 -0.7
1.5s 7.90nm 4.4mb
PP 58 32.00
GUN 38.97 278 P 57 26.20 0.3
PKI 39.46 278 P 57 31.20 1.2
KKN 39.51 278 P 57 31.00 0.7
WRA 50.14 175 P 58 56.50 1.8
0.8s 0.50nm 3.6mb X
IMA 56.89 28 eP 59 44.50 0.3
1.2s 8.71nm 4.7mb
KAF 69.92 331 iP 01 07.60 -1.9
NUR 71.38 330 iP 01 16.50 -1.8
0.7s 9.20nm 4.8mb
HFS 76.14 333 eP 01 43.80 -2.2
0.4s 3.60nm 4.6mb
NB2 76.54 334 P 01 46.60 -1.7
0.7s 8.90nm 4.8mb
OJC 79.16 322 eP 02 03.00 0.2
BRG 81.76 325 e(P) 02 16.80 0.3
ZST 81.78 322 eP 02 16.20 -0.4
CLL 81.95 326 iPc 02 17.40 -0.1
0.8s 14.00nm 4.9mb
PRU 82.02 324 eP 02 18.00 0.2
KHC 83.05 324 eP 02 23.40 0.1
MOX 83.05 326 eP 02 23.60 0.4
GEC2 83.16 324 P 02 24.00 0.1
1.1s 2.10nm 4.0mb
e 16 50.70
GRF 83.86 325 iPc 02 28.10 0.7
1.3s 22.00nm 5.0mb
ed 02 29.80
EKA 85.93 336 Pd 02 36.90 -0.7
0.7s 5.90nm 4.7mb
CDF 86.65 326 eP 02 40.80 -0.5
0.6s 2.80nm 4.5mb
BW06 88.64 40 eP 02 51.70 0.4
1.3s 3.28nm 4.3mb
LPG 88.93 324 eP 02 51.70 -0.9
0.6s 1.80nm 4.4mb
LBF 89.23 327 eP 02 53.30 -0.4
0.9s 3.30nm 4.5mb
SSF 89.40 327 eP 02 53.30 -1.1
0.7s 1.75nm 4.4mb
SMF 89.54 327 eP 02 54.00 -1.1
0.6s 2.45nm 4.6mb
AVF 89.67 327 eP 02 54.70 -1.0
0.5s 0.85nm 4.2mb
LDF 89.91 330 eP 02 55.60 -1.2
0.7s 4.50nm 4.8mb
GRR 90.39 330 eP 02 57.90 -1.1
0.8s 8.35nm 5.0mb
TCF 90.58 327 eP 02 59.80 -0.1
0.5s 0.85nm 4.3mb
LPF 90.74 330 eP 03 00.10 -0.5
0.7s 5.20nm 4.9mb
LSF 90.92 327 eP 03 00.60 -0.9
0.5s 2.25nm 4.7mb
MFF 91.43 329 eP 03 03.40 -0.4
1.0s 12.40nm 5.2mb
PV09 91.72 43 eP 03 08.13 2.4
eP 03 30.96 84km
PV10 91.85 43 iPd 03 09.34 3.1X
eP 03 31.49 81km
S.D. = 1.0 on 57 of 59 obs.

? FEB 07, 1993 19h 04m 40.48±0.66s
5.318 S ± 9.9km 153.871 E ± 9.7km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
NEW IRELAND REGION, P.N.G. (190)

LAT 6.96 259 iPd 06 23.30 0.5
PMG 7.80 238 eP 06 34.00 -0.5
DZM 20.63 145 iPc 09 20.00 0.1
WB2 23.92 231 iPc 09 52.80 0.3
0.7s 3.60nm 4.0mb
CHG 59.17 295 eP 14 47.00 6.0X

LZH 62.34 316 eP 15 03.00 0.5
1.4s 26.00nm 5.2mb
GUN 73.30 301 P 16 11.40 -0.1
PKI 73.61 301 P 16 13.00 -0.3
KKN 73.78 301 P 16 13.90 -0.2
DMN 73.88 301 P 16 14.60 -0.1
GKN 74.39 301 P 16 17.30 -0.2
S.D. = 0.4 on 10 of 11 obs.

FEB 07, 1993 20h 17m 35.04±0.85s
44.581 N ± 7.6km 10.530 E ± 6.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.8 (LDG).

MME 0.41 162 P 17 45.00 1.6
eSg 17 51.00
BDI 0.52 175 P 17 46.20 0.6
eSg 17 52.70
BOB 0.79 284 P 17 54.50 4.0X
eSg 18 06.00
PII 0.86 180 P 17 50.90 -0.7
eSg 18 02.80
PGD 1.11 129 P 17 55.20 -0.8
SFI 1.16 124 P 17 56.80 0.2
eSg 18 09.90
PCP 1.42 269 P 18 15.33 14.4X
S 18 24.76
CTI 1.67 28 P 18 04.50 0.0
FIN 1.71 258 P 18 15.65 10.6X
S 18 26.96
ROB 1.93 262 P 18 16.02 7.8X
S 18 33.09
IMI 2.01 251 P 18 16.34 6.8X
S 18 33.14
ORX 2.09 301 P 17 50.23 -20.4X
S 18 00.03
ENR 2.26 262 P 18 25.40 12.3X
PGF 2.32 209 Pn 18 11.70 -2.2
Sn 18 38.50
STV 2.32 263 P 18 25.17 11.2X
SBF 2.34 253 Pn 18 15.40 1.2
Sn 18 41.60
FRF 2.98 251 Pn 18 23.50 0.3
Sn 18 56.70
LMR 3.16 248 Pn 18 24.80 -0.9
Sg 19 00.60
LRG 3.21 251 Pn 18 27.20 0.7
Sg 19 02.00
S.D. = 1.2 on 11 of 19 obs.

? FEB 07, 1993 20h 43m 30.87±5.86s
32.003 S ± 50.9km 70.249 W ± 31.5km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

JACH 0.74 203 iP 43 49.13 0.1
iS 44 02.09
ROCH 1.16 214 iP 43 53.48 -0.2
iS 44 09.76
PEL 1.20 198 iPd 43 54.07 0.2
iS 44 09.05
FCH 1.32 182 iP 43 55.47 -0.2
iS 44 13.89
MDZ 1.47 127 eP 44 19.10 21.9X
PCH 1.63 188 iP 43 58.71 -0.5
iS 44 19.49
TACH 1.74 199 iP 44 00.34 -0.3
LCCH 1.84 217 iP 44 01.90 0.0
CHCH 1.95 190 iP 44 04.18 0.8
iS 44 27.50
S.D. = 0.5 on 8 of 9 obs.

? FEB 07, 1993 21h 03m 14.44±1.02s
44.321 N ± 11.9km 8.227 E ± 8.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

FIN 0.11 187 P 03 17.45 0.1
S 03 19.05
ROB 0.26 264 P 03 21.20 1.3
S 03 25.32
PCP 0.32 46 P 03 21.11 0.0
S 03 25.50
ENR 0.59 261 P 03 26.10 -0.3

STV 0.65 264 P 03 26.42 -1.1
S.D. = 1.2 on 5 of 5 obs.

% FEB 07, 1993 21h 13m 05.52±0.92s
44.299 N ± 8.7km 8.289 E ± 8.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

FIN 0.11 213 P 13 08.50 0.1
S 13 10.15
ROB 0.30 269 P 13 12.30 0.5
S 13 16.42
PCP 0.30 37 P 13 11.89 0.0
S 13 15.83
IMI 0.48 217 P 13 15.32 0.0
S 13 22.55
ENR 0.63 264 P 13 17.89 -0.3
S 13 26.99
STV 0.69 266 P 13 19.08 -0.2
S 13 29.19
S.D. = 0.4 on 6 of 6 obs.

? FEB 07, 1993 21h 15m 00.43±6.47s
45.064 N ± 28.0km 2.992 E ± 46.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

CAF 0.67 258 Pg 15 12.90 -0.9
Sg 15 23.30
RJF 1.07 283 Pg 15 20.70 0.1
Sg 15 36.40
MAF 1.20 346 Pg 15 22.30 -0.4
Sg 15 39.30
LPO 1.34 254 Pg 15 25.80 0.7
Sg 15 45.00
TCF 1.34 336 Pg 15 25.60 0.5
Sg 15 44.50
S.D. = 0.9 on 5 of 5 obs.

* FEB 07, 1993 22h 01m 48.29±0.84s
38.218 N ± 8.0km 22.798 E ± 13.3km
DEPTH = 28.1 ± 6.6 km
GREECE (364)
ML 3.3 (ATH).

ATH 0.76 108 eP 02 03.50 0.5
AGG 0.88 336 ePg 02 04.20 -0.5
eSg 02 14.20
VLI 1.50 176 eP 02 12.70 -0.9
VLS 1.74 269 eP 02 20.30 3.2X
LIT 1.90 353 ePb 02 18.80 -0.5
KZN 2.23 339 eP 02 23.80 -0.4
SOH 2.64 9 ePn 02 29.16 -0.7
GRG 2.75 354 ePn 02 31.70 0.2
FNA 2.79 337 ePn 02 34.24 2.2
KNT 2.94 1 ePn 02 33.52 -0.6
SRS 2.96 12 ePn 02 33.52 -0.9
VAY 3.10 357 ePn 02 37.00 0.5
OHR 3.28 333 ePn 02 38.00 -0.9
S.D. = 1.1 on 12 of 13 obs.

* FEB 07, 1993 22h 10m 30.58±1.15s
3.242 S ± 9.5km 139.718 E ± 8.0km
DEPTH = 114.3 ± 11.1 km
4.9mb (5 obs.)
IRIAN JAYA, INDONESIA (201)

WWKK 3.92 96 eP 11 28.40 -1.5
MDG 6.37 108 eP 12 06.00 2.6
SWI 8.78 285 ePc 12 37.50 1.3
PMG 9.60 130 eP 12 46.00 -1.3
MTN 12.78 221 eP 13 28.00 -1.2
0.4s 50.00nm 5.5mb
WB2 17.41 197 eP 14 27.50 -0.3
eS 17 35.30
WRA 17.41 197 P 14 28.00 0.1
ASPA 21.07 195 iPd 15 07.50 0.2
e 15 31.90
eS 18 55.00
RMO 24.69 160 iPd 15 43.70 1.3
1.0s 75.00nm 5.1mb
WARB 26.03 208 iPd 15 54.10 -0.8
0.5s 27.00nm 5.1mb
STK 28.54 177 iPc 16 16.80 -0.7

07d 22h

0.6s 7.70nm 4.5mb				TPNV 0.53 298 ePc 53 34.06 0.2				ZOBO 146.77 139 PKP 44 29.20 -8.1X			
ADE 31.58 182 eP	16 44.50	0.1		GSC 1.68 214 iPd	53 53.76	0.4		CCH 147.19 143 (PKP)	44 31.00	-6.6X	
BWA 32.07 166 eP	16 49.50	0.9		TNP 1.85 319 iPc	53 55.27	-0.8		SIV 151.12 149 PKP	44 43.40	0.1	
CAN 33.06 166 eP	16 57.30	0.0		ARUT 2.08 58 ePnd	53 57.94	-1.3		S.D. = 0.9 on 7 of 11 abs.			
BFD 33.87 176 eP	17 03.80	-0.4			ePg 54 00.43			? FEB 08, 1993 01h 39m 03.05± 1.00s			
	i 17 05.00			MTUM 2.41 287 ePnd	54 03.92	-0.2		38.298 N ±10.8km 22.933 E ±10.8km			
MUN 36.13 215 eP	17 23.50	0.1			ePg 54 08.35			DEPTH = 33.0km (normal)			
IMA 83.66 22 eP	22 46.20	-1.3			eS 54 40.75			GREECE (364)			
	1.0s 3.25nm 4.2mb			BONR 2.45 302 iPc	54 04.25	-0.4		ML 3.4 (ATH).			
BALM 86.99 28 (P)	23 02.41	-1.6		MRCM 2.47 294 ePn	54 04.54	-0.4		ATH 0.70 117 eP 39 16.30 -0.1			
CNCB 146.15 127 PKP	30 00.40	0.9			ePg 54 09.02			VLS 1.85 267 eP 39 33.30 0.3			
LPB 146.21 126 ePKP	30 01.00	1.6			eS 54 42.50			KZN 2.20 336 eP 39 36.90 -1.1			
ZOBO 146.32 126 PKP	30 00.00	0.1		ISA 2.50 246 ePnd	54 04.98	-0.2		VAY 3.03 355 ePn 39 50.40 0.6			
SIV 151.93 133 PKP	30 17.80	10.0X			ePg 54 10.98			OHR 3.26 330 ePn 39 52.50 -0.5			
S.D. = 1.2 on 21 of 22 abs.					eS 54 44.01			SKO 3.84 343 ePn 40 02.20 0.9			
? FEB 07, 1993 22h 27m 34.40± 4.88s				MEMM 2.79 291 ePn	54 08.85	-0.4		i 40 14.00			
30.063 S ±45.0km 68.012 W ±23.4km					ePg 54 15.61			i 40 58.50			
DEPTH = 33.0km (normal)				SSK 2.99 214 ePn	54 13.10	0.9		Lg 41 23.00			
SAN JUAN PROVINCE, ARGENTINA (137)					ePg 54 20.27			S.D. = 1.0 on 6 of 6 obs.			
RTPR 1.32 101 iPd	27 57.80	1.2		KVN 3.04 321 (Pn)	54 13.26	0.3		* FEB 08, 1993 02h 49m 42.16± 3.03s			
RTLL 1.32 197 iPd	27 57.00	0.2		PEC 3.06 204 eP	54 13.60	0.5		16.131 N ± 8.9km 60.780 W ±22.4km			
	S 28 18.50			MSU 3.31 56 ePn	54 15.83	-1.0		DEPTH = 10.0km (geophysicist)			
CFA 1.55 187 ePd	28 00.90	0.8			ePg 54 24.14			LEEWARD ISLANDS (92)			
	S 28 26.10			PLM 3.48 197 ePd	54 19.79	0.5		ML 2.7 (FDF). MD 3.0 (TRN).			
RTCB 1.57 205 iPc	27 59.60	-0.8		GLA 3.70 169 ePn	54 21.85	-0.4		SFG 0.42 287 iPc 49 51.85 1.2			
	S 28 22.50			CMB 3.99 291 ePn	54 25.76	-0.6		MGG 0.56 248 iPc 49 53.57 0.1			
MRA 3.06 140 eP	28 21.70	0.1			eS 55 28.11			S 49 57.50			
TCA 3.21 114 iPd	28 22.20	-1.5		DUG 4.14 32 ePn	54 29.46	0.9		SEG 0.75 291 eP 49 56.90 0.1			
	S 29 03.20			SRU 4.72 58 ePn	54 37.38	0.5		DOG 0.81 263 iPd 49 57.25 -0.7			
S.D. = 1.3 on 6 of 6 obs.					ePg 54 50.10			PAG 0.87 263 eP 49 58.00 -1.0			
% FEB 07, 1993 23h 16m 20.35± 2.79s				ARN 4.74 280 (Pn)	54 37.96	0.9		S 50 06.50			
33.648 S ± 6.6km 71.787 W ±22.1km					eS 55 49.13			MDN 1.01 216 iP 50 01.73 0.5			
DEPTH = 21.1 ± 7.5 km				EMUT 4.92 49 ePn	54 40.47	0.7		S 50 12.26			
NEAR COAST OF CENTRAL CHILE (135)					eSg 55 57.26			BPA 1.38 312 iP 50 07.11 -0.3			
MD 3.6 (SAN).				DAU 5.06 42 ePn	54 42.83	1.0		S 50 22.27			
LCCH 0.25 46 iP	16 26.44	0.1			ePg 54 57.52			MGH 1.50 293 eP 50 09.10 0.0			
	iS 16 32.41			ORV 5.41 304 eP	54 45.61	-0.9		S.D. = 0.8 on 8 of 8 obs.			
LNV 0.44 134 iP	16 29.39	0.1			eS 56 10.75			* FEB 08, 1993 03h 11m 24.07± 1.89s			
TACH 0.71 91 iP	16 33.88	0.0		PV09 5.49 69 ePn	54 46.52	-1.3		15.093 N ± 5.2km 60.258 W ±19.1km			
	iS 16 45.30				ePg 55 05.06			DEPTH = 33.0km (normal)			
ROCH 0.94 44 iP	16 37.59	-0.4			(S) 56 11.73			LEEWARD ISLANDS (92)			
	iS 16 51.79			PV10 5.52 70 ePn	54 48.57	0.3		ML 3.3 (FDF). MD 3.5 (TRN).			
SAN 0.96 79 iP	16 38.79	0.6			ePg 55 03.40			CRM 0.72 242 iPd 11 37.49 -0.3			
CHCH 0.99 107 iP	16 38.20	-0.5			eS 56 11.48			S 11 46.50			
PEL 1.05 62 iP	16 39.77	0.0		HVU 5.54 23 ePn	54 49.00	0.5		MVM 0.82 229 iPd 11 39.09 -0.1			
	iS 16 55.74				ePg 55 05.26			S 11 49.10			
PCH 1.06 89 iP	16 39.75	-0.3		PV08 5.87 69 ePn	54 53.95	0.7		FDF 0.93 248 iPd 11 40.53 -0.3			
CACH 1.09 116 iP	16 40.73	0.2			eS 56 24.86			S 11 51.70			
	iS 16 58.18			TUC 5.95 136 ePn	54 53.20	-0.9		BIM 0.97 234 iPd 11 41.41 0.0			
FCH 1.29 76 iP	16 43.56	0.0			ePg 55 13.38			S 11 53.40			
	iS 17 04.27			PTI 6.66 21 ePg	55 26.22	22.0X		MDN 1.12 282 eP 11 43.56 0.0			
JACH 1.39 46 iP	16 44.77	0.1		HMAI 7.05 20 ePg	55 34.57	24.9X		S 11 57.09			
	iS 17 05.06			BW06 7.68 36 eP	55 19.52	1.0		MGG 1.31 309 eP 11 46.30 0.1			
S.D. = 0.3 on 11 of 11 obs.					ePg 55 45.66			SFG 1.47 322 eP 11 47.60 -0.8			
* FEB 08, 1993 00h 23m 00.88± 2.73s				ALO 7.68 100 ePn	55 17.89	-0.7		SLB 1.47 211 eP 11 48.72 0.1			
61.022 N ± 8.1km 4.326 E ±23.9km					ePg 55 45.54			S 12 06.01			
DEPTH = 10.0km (geophysicist)				LCCM 9.56 16 eP	56 14.90	30.3X		DOG 1.61 306 eP 11 51.00 0.4			
SOUTHERN NORWAY (535)				S.D. = 0.8 on 29 of 32 abs.				PAG 1.66 304 eP 11 51.80 0.5			
MD 2.2 (BER).				? FEB 08, 1993 01h 24m 57.06± 1.88s				S 12 10.50			
SUE 0.21 80 iPd	23 06.41	0.9		8.944 S ±21.5km 133.910 E ±14.1km				SVB 2.05 208 eP 11 57.53 0.6			
FOO 0.67 31 iPc	23 14.64	0.4		DEPTH = 33.0km (normal)				S 12 21.57			
	iS 23 24.73			4.7mb (2 abs.)				FCV 2.15 207 iP 11 57.95 -0.4			
ASK 0.69 141 iPc	23 15.22	0.7		ARAFURA SEA (208)				eS 12 22.07			
	eS 23 24.08			MTN 4.74 215 eP	26 09.00	0.9		S.D. = 0.5 on 12 of 12 abs.			
EGD 0.87 149 eP	23 18.09	0.4			eS 27 20.00			% FEB 08, 1993 03h 13m 34.29± 1.03s			
	eS 23 29.23				eS 28 24.30	0.5		17.109 N ±10.6km 99.492 W ± 9.9km			
HYA 0.92 80 iPd	23 19.09	0.7		ASPA 14.64 180 eP	28 24.30	0.5		DEPTH = 10.0km (geophysicist)			
ODD1 1.59 133 eP	23 28.74	-0.5			0.50um			GUERRERO, MEXICO (59)			
	eS 23 48.56			Z 17s	28 32.60			ACX 0.42 236 iPc 13 42.55 -0.4			
MOL 2.18 43 eP	23 37.61	-0.1			epP 31 15.90			iS 13 47.71			
NRA0 3.54 92 Pn	23 54.28	-2.7		CTA 16.28 134 P	28 45.00	0.0		PPM 2.11 23 (P) 14 09.38 -1.2			
	Pg 24 02.34				eS 29 11.00	-1.4		(S) 14 44.02			
	Sg 24 47.63				0.4s 15.00nm	4.5mb		UNM 2.23 8 iP 14 12.00 -0.1			
S.D. = 1.4 on 8 of 8 abs.				FORT 22.40 193 eP	29 54.00	-0.2		iS 14 44.00			
FEB 08, 1993 00h 53m 23.13± 0.27s				RMO 22.42 143 iPd	29 54.50	0.1		OXX 2.65 90 iP 14 18.62 0.6			
36.701 N ± 3.3km 115.662 W ± 2.6km					0.7s 26.00nm	4.8mb		iS 14 52.12			
DEPTH = 5.0km (geophysicist)				CNCB 146.48 140 PKP	44 28.90	-7.9X		MRX 3.04 328 iP 14 24.45 1.1			
CALIFORNIA-NEVADA BORDER REGION (40)				LPB 146.61 139 PKP	44 29.20	-7.6X		iS 15 00.08			
ML 3.8 (GS). Felt (III) at Las Vegas, Nevada.											

08d 03h

CGX 4.57 305 (P) 14 52.68 7.5X
S.D. = 1.3 on 5 of 6 obs.
FEB 08, 1993 03h 38m 59.79±0.60s
37.578 N ± 6.1km 137.443 E ± 5.0km
DEPTH = 30.5 ± 5.6 km
4.7mb (24 obs.) 4.0Msz (1 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ 1.03 164 iPd 39 16.30 -2.0
MAT 1.20 149 iPd 39 19.10 -1.5
NIIJ 1.29 105 iPd 39 21.00 -0.7
CHJJ 1.97 140 P 39 32.20 0.5
IIDJ 2.13 170 P 39 33.80 -0.2
YAMJ 2.14 73 P 39 33.50 -0.6
TSRJ 2.35 210 P 39 36.60 -0.5
KAKJ 2.58 121 P 39 40.30 -0.1
OFUJ 3.65 64 P 39 55.60 0.1
WKYJ 3.67 205 eP 39 56.40 0.5
AOMJ 3.75 37 P 39 57.40 0.5
TKSJ 4.53 219 P 40 10.20 2.2
SHK 4.91 233 eP 40 13.60 0.1
SHNJ 6.19 238 eP 40 31.80 0.3
KUMJ 7.40 229 eP 40 49.70 1.3
YSS 10.21 21 eP 41 27.50 0.3

1.0s 40.00nm 5.6mb
Z 12s 0.50um 5.6Msz
CN2 11.02 308 eP 41 40.00 1.6
1.0s 6.90nm 4.8mb
Z 16s 1.12um 4.5MszX
N 12s 0.47um
E 12s 0.96um
SSE 14.90 249 P 42 35.00 5.1X
1.0s 8.00nm 4.0mb
Z 14s 0.90um 4.4MszX
N 10s 0.70um

BJI 16.76 285 eP 42 56.00 2.3
1.3s 32.00nm 4.3mb
Z 12s 0.36um 5.4Msz
N 10s 0.41um
TIY 19.79 278 Pc 43 30.40 -0.2
Z 14s 1.43um
E 15s 0.89um
HHC 20.29 287 eP 43 36.20 0.4
Z 18s 0.61um 4.0Msz
BTO 21.47 287 eP 43 51.00 3.2X
N 12s 0.42um
E 13s 0.38um

XAN 23.36 270 P 44 05.70 -0.8
MGD 24.10 16 eP 44 12.00 -1.4
YAK 24.93 351 eP 44 21.00 -0.4
BOD 25.38 330 eP 44 23.10 -2.6
1.5s 16.00nm 4.4mb
LZH 26.86 277 eP 44 41.00 1.3
1.5s 38.00nm 4.8mb
Z 16s 0.63um 4.3MszX
E 14s 0.43um
esS 49 30.00

ZAK 27.45 309 eP 44 42.60 -2.1
2.2s 39.00nm 4.7mb
Z 13s 0.88um 4.5MszX
E 12s 0.58um
TIK 34.41 355 eP 45 44.50 -1.4
ILT 38.84 25 eP 46 21.00 -2.3
GUN 43.96 273 P 47 03.60 -2.7
GKN 44.90 274 P 47 12.40 -1.3
IMA 47.84 31 eP 47 36.59 0.3
1.2s 8.71nm 4.7mb

SVE 52.63 318 ePd 48 13.00 0.1
ARU 53.83 317 ePd 48 21.00 -0.6
HYB 55.07 266 eP 48 30.00 -1.3
GBA 58.12 263 P 48 52.00 -1.0
ASPA 61.01 184 eP 49 10.60 -2.1
1.1s 7.00nm 4.7mb
KIV 68.13 309 P 49 58.10 -0.9
1.4s 32.00nm 5.2mb
Z 16s 0.10um 4.1MszX

NB2 72.43 336 P 50 20.30 -4.4X
1.2s 8.30nm 4.6mb
ORV 74.49 52 (P) 50 36.70 -0.4
LCCM 76.23 42 eP 50 48.00 0.9

OJC 76.79 324 eP 50 49.90 0.0
HHAJ 77.59 45 eP 50 56.84 2.2
KSP 77.93 326 eP 50 56.00 -0.2
TNP 78.05 51 eP 50 59.09 1.8
1.0s 10.00nm 4.8mb
CLL 79.01 328 iPd 51 02.10 0.1
1.4s 11.00nm 4.7mb
BW06 79.49 44 eP 51 04.41 -0.8
1.0s 5.59nm 4.5mb

KHC 80.38 326 P 51 10.60 1.0
1.1s 4.60nm 4.4mb
GEC2 80.54 326 Pd 51 10.60 0.1
1.4s 4.53nm 4.3mb
MSU 80.82 48 eP 51 13.92 1.6
GRF 80.97 328 ePd 51 13.90 1.3
2.6s 134.00nm 5.5mb

SRU 81.39 47 eP 51 15.95 0.7
PV09 82.61 47 ePd 51 23.49 1.7
PV10 82.75 47 eP 51 24.12 1.7
PV08 82.84 46 eP 51 24.70 1.7
CDF 83.60 329 eP 51 25.60 -0.8
1.4s 9.60nm 4.8mb
LOR 85.89 330 eP 51 36.90 -0.9
1.1s 5.60nm 4.7mb

LPL 86.13 328 eP 51 39.70 0.4
0.9s 3.30nm 4.6mb
LPG 86.14 328 eP 51 39.90 0.5
1.0s 3.80nm 4.6mb
SSF 86.20 330 eP 51 38.40 -0.9
1.3s 7.95nm 4.8mb

AVF 86.48 330 eP 51 39.80 -0.9
1.2s 6.55nm 4.7mb
MAF 87.26 330 eP 51 44.20 -0.3
1.2s 10.70nm 5.0mb
ZOBO 149.04 54 PKP 58 47.90 4.5X
LPB 149.24 54 ePKP 58 45.00 1.6
CNCB 149.52 54 ePKP 58 47.00 3.0X
CCH 151.12 52 ePKP 59 01.00 14.9X
SIV 152.98 42 PKP 58 56.00 7.6X
S.D. = 1.3 on 61 of 68 obs.

FEB 08, 1993 04h 24m 47.20±0.15s
4.834 S ± 3.4km 101.916 E ± 3.0km
DEPTH = 29.8km (30 depth phases)
5.9mb (92 obs.) 5.6Msz (46 obs.)
SOUTHERN SUMATERA, INDONESIA (274)
Mw 5.7 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 42S, 90C
Centroid Location:
Origin Time 04:24:51.3 0.3
Lat 5.24S 0.03 Lon 101.91E 0.04
Dep 24.3 2.4 Half-duration 1.8
Moment Tensor: Sc0e 10**17 Nm
Mrr= 1.68 0.11 Mtt=-1.71 0.10
Mff= 0.03 0.16 Mrt= 3.58 0.38
Mrf=-1.42 0.20 Mtf= 1.41 0.10

Principal Axes:
T Val= 4.01 Plg=59 Azm= 14
N 0.77 5 113
P -4.77 31 206
Best Double Couple: Mo=4.4*10**17
NP1: Strike=313 Dip=15 Slip= 111
NP2: 112 76 84

KGM 6.95 12 ePc 26 31.40 1.8
0.9s 158.00nm 6.0mb
e 28 18.90
e 29 51.80
KLM 7.89 358 eP 26 51.00 8.2X
IPM 9.39 355 ePc 27 02.10 -1.6
1.2s 150.10nm 6.1mb
e 30 27.00
e 28 05.00 -1.4
e 30 35.90
KKM 17.91 53 ePc 28 58.50 2.6
1.2s 274.80nm 5.3mb
e 29 39.20
e 29 05.30 4.4X
KHT 19.77 350 eP 29 15.00 -3.0X
NST 20.45 355 eP 29 24.00 -1.1
BDT 22.12 353 eP 29 42.00 -0.1
1.0s 144.90nm 5.4mb
PPR 22.17 49 ePc 29 44.00 1.5
1.5s 445.00nm 5.7mb
CHG 23.68 353 iPc 29 57.00 -0.3

1.5s 397.92nm 5.7mb
eS 34 10.50
QIZ 24.96 18 iPc 30 10.50 0.8
N 15s 8.03um
E 15s 9.74um
PGP 26.25 46 ePc 30 23.40 1.6
1.2s 84.00nm 5.2mb
DAV 26.42 64 ePc 30 24.00 0.7
1.5s 888.89nm 6.2mb
TGY 26.65 45 eP 30 22.00 -3.5X
QCP 27.11 44 eP 30 27.00 -2.7
BAG 28.04 41 eP 30 38.00 -0.3
eS 35 38.00

PIP 29.49 38 eP 30 52.00 0.8
HKC 29.52 24 eP 30 52.00 0.7
KMI 29.79 2 Pc 30 55.00 1.0
1.8s 450.00nm 6.0mb
Z 15s 21.30um 5.9MszX
N 16s 13.20um
E 16s 26.30um
pP 31 02.50 26km
sP 31 08.50
s 35 52.00
sS 36 07.00
SS 37 28.00

CVP 29.79 41 eP 30 54.00 0.1
GZH 29.91 21 P 30 55.00 0.2
Z 18s 20.30um 5.8Msz
N 13s 4.69um
E 13s 7.14um
MTN 29.92 107 eP 30 53.50 -1.5
0.4s 42.00nm 5.6mb
GBA 30.43 307 Pc 30 59.00 -0.5
GYA 31.44 8 iPc 31 08.00 -0.5
1.2s 95.00nm 5.5mb
Z 16s 18.20um 5.8MszX
N 13s 14.50um
E 13s 4.32um
pP 31 22.60 59kmX
PP 32 16.00

WARB 31.78 134 eP 31 10.00 -1.4
HYB 31.95 314 iPc 31 12.70 -0.3
1.2s 100.00nm 5.6mb
i 31 27.00 57kmX
eS 36 22.00
QZH 33.75 28 eP 31 32.00 3.6X
N 16s 8.65um
E 16s 8.51um
CD2 35.59 3 iPc 31 43.60 -0.6
1.6s 330.00nm 6.0mb
Z 16s 25.40um 6.1MszX
N 17s 25.00um
s 37 18.50
LSA 35.86 344 iPc 31 47.90 0.9
1.4s 400.00nm 6.2mb
Z 26s 5.42um 5.2MszX
N 15s 3.88um
pP 31 56.00 27km
s 37 23.00
sS 37 38.00
ScS 42 03.00

PKI 35.94 335 Pc 31 48.20 0.6
GUN 36.04 335 Pc 31 49.40 0.9
ASPA 36.06 124 eP 31 48.00 -0.4
0.9s 58.90nm 5.5mb
Z 23s 6.80um 5.4MszX
eP 31 56.90 30km
eS 37 24.50

DMN 36.11 334 Pc 31 47.60 -1.3
KKN 36.19 335 Pc 31 50.40 0.9
GKN 36.65 334 Pc 31 54.40 1.0
BOM 37.12 310 iPc 31 57.00 -0.1
eS 37 16.00
WHN 37.13 18 Pc 31 58.00 0.9
1.5s 130.00nm 5.6mb
Z 16s 20.10um 6.0MszX
N 16s 10.00um
E 13s 3.68um

XAN 39.23 9 iPc 32 14.00 -0.7
1.4s 350.00nm 5.9mb
Z 15s 16.50um 6.0MszX
N 14s 13.90um
E 14s 6.49um
pP 32 20.00 20km
PP 33 47.00
PcP 34 23.00
PcS 38 08.00

NJ2			S	38	15.00	
			ScS	42	20.00	
	40.07	23	Pc	32	22.00	0.4
	1.4s					5.0mb
	Z 16s					5.8MszX
SSE			S	38	28.00	
			Pc	32	23.50	0.9
	40.19	26				5.8mb
	1.5s					5.7Msz
	Z 18s					
LZH			S	38	48.00	
			iPc	32	28.50	1.1
	40.74	2				6.0mb
	1.5s					6.0Msz
	Z 18s					
NDI			pP	32	40.00	41kmX
			sP	32	43.50	
			PcP	34	30.00	
			ScP	38	16.50	
			PcS	38	19.50	
			S	38	35.00	
			sS	38	52.00	
			SS	41	35.00	
			ScS	42	29.50	
	40.93	326	iPc	32	29.00	0.2
TIA			eS	38	38.00	6.0mb
			eP	32	47.00	-0.7
	43.24	18				5.1mb
	1.2s					5.9Msz
	Z 19s					
TIY			PP	34	33.00	
			eS	39	16.00	
			iPd	32	49.80	0.5
	43.45	12				5.8mb
	1.4s					6.0MszX
MDG			pP	33	00.00	35km
			S	39	18.00	
			eP	32	51.00	-0.6
	43.69	93				0.6
	44.07	358	iPc	32	55.00	
GTA			pP	33	04.00	30km
			sP	33	10.00	
			S	39	22.00	
			sS	39	45.00	
			ScS	42	50.00	
PMG			eP	33	02.00	-0.9
			eP	33	05.20	1.3
	45.25	36				0.5
	45.32	136	eP	33	05.00	-0.4
	45.70	113	iPc	33	07.20	
CTA			iPd	33	09.00	0.6
	45.82	9				6.1mb
	1.6s					
	N 15s					
	E 15s					
KUMJ			pP	33	16.50	25km
			PP	34	54.50	
			S	39	49.00	
			SS	43	03.50	
	46.21	34	eP	33	11.00	-0.4
HHC			iPc	33	13.80	1.5
	46.31	10				6.4mb
	1.4s					6.0Msz
	Z 18s					
	N 15s					
GUMO			PP	35	02.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
PJG			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.42	66				1.1
	46.54	15	eP	33	15.00	6.4mb
	1.5s					6.1Msz
BJI			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS	40	12.00	
			eP	33	09.20	-4.0X
	46.40	66				4.6MszX
VLA			eP	33	09.70	-3.5X
	46.40	66				-3.9X
	46.54	15	eP	33	15.00	1.1
	1.5s					6.4mb
	Z 18s					6.1Msz
VLA			iPd	33	09.00	
			S	39	56.00	
			sS			

08d 04h

	N	16s	3.90um				1.3s	147.00nm	5.8mb				i	08	42.80					
	E	16s	5.60um					e	36	29.30	37km	VAY	85.20	312	iP	37	21.50	-0.7		
			eS	44	06.00			e	36	42.00		GRG	85.26	312	iP	37	21.50	-1.1		
DZM	64.61	112	iPc	35	23.90	-0.8		e	39	05.00		GZR	85.82	316	ePd	37	26.00	0.7		
BAK	65.51	319	eP	35	12.00	-18.0X		eS	45	46.00		LVV	85.89	321	eP	37	27.00	1.5		
			eS	44	04.00			ePS	46	23.00					e	40	51.00			
SHE	66.48	318	iPc	35	36.50	0.3	SVST	74.24	313	eP	36	24.00	0.4			e	47	55.00		
Z	18s		1.00um			5.1Msz	NRI	74.68	355	iPc+	36	24.00	-1.3	SKO	86.15	313	iP	37	26.70	-0.3
N	18s		1.50um					1.5s	266.00nm					i			37	37.50	34km	
E	18s		2.00um					e	36	39.00	53kmX	APA	86.42	339	iPc	37	28.10	0.4		
			iS	44	26.00			(PPP)	39	11.00		OHR	86.48	312	eP	37	22.00	-6.7X		
GRS	67.50	316	iPc	35	41.60	-1.4			40	58.00		UZH	86.76	319	iPc	37	30.20	0.4		
	1.3s	110.00nm				5.8mb	PET	74.72	32	eP	36	25.00	-0.8		2.0s	215.00nm			6.0mb	
			e	38	10.00			1.5s	267.00nm					e	40	53.20				
			iS	44	36.60				eS	46	20.00			e	48	00.00				
MAW	68.04	195	P	35	55.09	9.4X	TRHT	74.99	314	eP	36	27.70	-0.2		eSS	53	45.00			
MTA	69.53	318	iPc+	35	55.80	0.5	MGD	75.18	23	iPc+	36	28.00	-0.4	BEO	87.33	315	eP	37	33.50	0.9
	1.0s	200.00nm				6.2mb		1.0s	120.00nm			KAF	87.56	333	iP	37	34.00	0.7		
Z	20s	0.50um				4.8Msz		Z	15s	4.40um			0.6s	16.00nm				5.5mb		
N	20s	0.50um						N	15s	1.30um		NUR	87.94	331	iP	37	35.50	0.3		
E	20s	0.50um						E	15s	3.40um			0.5s	9.40nm				5.4mb		
			e	36	17.00	81kmX				36	36.00	26km	SPC	88.19	319	eP	37	36.90	0.0	
			e	38	31.00					e	36	47.00	WAR	88.22	323	eP	37	36.00	-0.7	
			iS	45	01.80					ePPP	41	00.00			e	48	22.00			
			e	45	45.00					46	00.00		OJC	88.65	320	eP	37	39.50	0.7	
			eSS	49	17.00					eS	46	24.00			1.3s	81.00nm		5.9mb		
GRO	69.71	320	iP	35	56.00	-0.3				e	46	48.00			i		37	39.80	1kmX	
	1.5s	320.00nm				6.2mb	CSS	75.46	308	eP	36	30.60	0.0	BUD	88.73	318	eP	37	39.00	-0.3
N	20s	2.00um					HLW	75.73	302	eP	36	31.50	-0.7	UZD	88.90	317	eP	37	40.80	0.7
E	20s	2.00um								eS	46	11.00		SDF	88.91	338	iP	37	40.20	0.4
			i	36	20.00	93kmX	ANN	75.83	319	eP	36	35.00	2.6	SRO	89.25	318	eP	37	35.30	-6.4X
MTD	69.80	254	iPc	35	54.30	-3.2X		Z	20s	1.20um					i		37	42.50	22km	
			i	36	03.30	29km				eS	46	05.00			i		38	25.60		
			i	36	23.80		FRS	75.98	241	iPd	36	39.20	5.6X	KEV	89.32	340	iP	37	42.00	0.3
CIR	69.93	250	iPc	35	56.00	-2.2		1.3s	67.31nm					1.0s	58.00nm				5.8mb	
			i	36	04.00	26km	KAS	77.05	314	eP	36	38.70	-0.8	ORI	89.61	310	P	37	45.31	1.7
			i	36	18.00		BBTK	77.31	312	eP	36	40.00	-1.0		1.2s	267.40nm			6.4mb	
SVE	70.00	337	iPc	35	58.00	0.1	SIM	77.97	318	eP+	36	44.00	-0.3	RAC	89.65	320	eP	37	45.00	1.5
	2.4s	660.00nm				6.3mb		Z	24s	1.00um			TDS	89.65	310	Pc	37	45.20	1.4	
Z	23s	3.00um				5.5MszX				eS	46	32.00		SOI	89.69	308	Pc	37	44.80	0.8
N	23s	1.50um					TIK	78.33	8	iPc	36	44.00	-1.8	GMB	89.85	308	P	37	46.25	1.3
E	23s	2.00um						1.8s	330.00nm					1.3s	59.90nm				5.7mb	
			eS	45	04.00					i	36	53.00	29km	ZST	90.11	318	iPc	37	46.30	0.5
			e	45	56.00					i	39	37.00			e		41	29.10		
			eSS	49	25.00					iPPP	41	37.00		ILT	90.46	22	iPc+	37	46.00	-0.9
YAK	70.00	14	iPc+	35	56.50	-1.3				iS	46	34.00			2.2s	129.00nm			5.8mb	
	1.7s	446.00nm				6.3mb	GPA	79.24	312	eP	36	50.00	-1.5	Z	20s	2.90um			5.7Msz	
Z	18s	6.20um				5.9Msz	MOS	79.89	329	iPc	36	54.00	-0.5	N	16s	0.60um				
N	17s	3.30um						2.0s	900.00nm				E	20s	3.10um					
E	17s	3.50um								eS	46	53.00				e	38	03.00	60kmX	
			i	36	06.00	30km				e	47	05.00				i	41	18.00		
			eS	45	03.00		OBN	80.17	328	iPc	36	56.00	0.0			eS	48	16.00		
			e	45	56.00			1.5s	350.00nm						i	48	30.00			
WAJH	70.32	300	ePc	36	00.50	0.1				i	37	07.00	36km	VRAC	90.58	319	iPc	37	48.60	0.8
ARU	70.52	336	iPc+	36	00.80	-0.2				iS	46	58.00			2.4s	485.50nm			6.4mb	
	2.0s	1200.00nm				6.6mb				eSS	52	04.00		ZAG	90.60	316	iPc	37	49.30	1.3
Z	22s	3.00um				5.5Msz	IZM	81.06	310	iP	37	00.30	-0.9	PTJ	90.62	316	iPc	37	48.90	0.6
N	22s	2.00um					CFR	82.08	317	eP	37	07.00	0.8	MNO	90.75	308	P	37	50.47	1.3
E	22s	2.50um					KIS	82.08	319	iPc+	37	06.50	0.3		0.5s	9.30nm			5.4mb	
			i	36	14.00	46kmX				i	37	17.00	33km	KSP	90.95	321	iPc	37	50.30	0.7
			e	36	23.00					eP	37	07.40	-1.4		1.5s	88.00nm			5.9mb	
			eSS	38	36.00		ALN	82.54	312	eP	37	07.40	-1.4			i	38	01.60	36km	
			eS	45	10.00		SMY	83.17	36	P	37	20.00	8.3X			e	41	13.50		
			ePS	45	39.00			Z	19s	2.04um						e	40	13.50		
AYN	71.55	302	iPc	36	07.70	-0.1	VRI	83.22	317	iPc	37	13.00	0.8	VBY	91.07	315	eP	37	50.00	-0.2
PYA	71.72	319	iPc+	36	07.00	-1.6	BUC1	83.34	316	ePd	37	18.00	5.2X	UPP	91.27	330	eP	37	51.00	0.2
	Z	20s	1.50um			5.3Msz	MLR	83.66	317	iPc	37	15.40	0.8	LJU	91.63	316	eP	37	53.50	0.7
			iS	45	24.00		PTT	83.70	318	eP	37	13.50	-1.1	PRU	91.97	320	Pc	37	55.20	0.9
			iPS	46	04.00		BCAO	83.79	275	iPc	37	15.10	-0.7		1.5s	24.90nm			5.4mb	
KIV	71.92	319	P	36	09.60	-0.3		1.0s	140.00nm						e		38	08.50	44kmX	
	1.5s	177.00nm				5.9mb				ic	37	25.00	31km			e	40	13.50		
Z	19s	1.90um				5.4Msz				ic	37	49.00				PP	41	34.60		
			e	36	20.70	37km				ic	38	46.00		VOY	92.07	316	eP	37	54.00	-1.0
			S	45	28.60		PAIG	84.10	311	iP	37	17.14	0.4	RBL	92.33	316	P	37	56.30	0.2
SHWJ	72.40	304	P	36	13.20	0.1	SRS	84.40	312	eP	37	17.36	-0.9	GEC2	92.43	319	Pc	37	56.90	0.4
MASJ	72.61	305	P	36	14.50	0.3	SOH	84.52	312	eP	37	28.40	9.5X		1.4s	23.84nm			5.4mb	
BUL	72.68	251	eP	36	21.30	6.4X	MNK	84.74	325	iP	37	19.00	-0.6			pP	38	06.70	31km	
MBH	72.74	303	iPc	36	14.80	-0.2		1.0s	264.00nm					BRG	92.43	321	iPc	37	57.20	0.8
DSI	72.84	305	iPc	36	15.40	0.0				eS	47	40.00			1.6s	70.00nm			5.8mb	
RMN	73.15	304	iPc	36	17.50	0.1	PUL	85.01	331	ePc	37	22.00	1.2			i	38	06.50	29km	
SLR	73.18	245	iPd	36	24.00	6.3X				i	37	34.00	39km			eS	49	00.00		
	0.9s	75.63nm				5.7mb				e	40	38.00		KBA	92.53	317	iPd	37	57.10	-0.1
BHL	73.31	307	P	36	16.00	-2.3				e	47	48.00			1.0s	7.50nm			5.1mb	
			S	45	46.00		SPA	85.19	180	iPc	37	22.00	0.1			i	38	10.00	43kmX	
ADI	73.41	306	eP	36	19.30	0.6		1.2s	34.51nm					KHC	92.53	319	Pc	37	57.50	0.6
SOC	73.73	318	eP	36	18.00	-2.3		Z	20s	0.90um				Z	18s	1.80um			5.6Msz	

N 18s	0.70um				MSU 134.37	38 ePKP	44 02.67	-2.1X			iPKPbc44	38.51		
E 18s	1.60um				RSSD 134.70	26 ePKP	44 04.17	-1.0			ePKPab44	44.96		
	e	38 10.50	43kmX		Z 20s	1.58um		5.7Msz			e	44 54.84		
	e	38 29.50				iSKP	47 33.58			PRM	150.63	7 PKP	44 38.60 5.9X	
	e	41 28.00				i	47 50.78			CGX	151.20	57 (PKP)	44 41.50 7.3X	
FVI 92.88	316 P	38 08.60	10.1X		GLA 135.73	46 ePKP	44 08.27	1.0		SGS	151.70	4 (PKP)	44 34.69 0.4	
FVI 92.88	316 P	37 59.10	0.6		PV09 136.20	36 ePKPc	44 08.99	0.6				ePKPbc44	41.14	
CLL 93.05	321 iPc	37 59.30	0.1		PV10 136.34	36 ePKP	44 09.25	0.7		MRX	153.07	55 (PKP)	44 38.50 1.9	
	1.6s	39.00nm	5.6mb			e	44 20.63			SIV	153.32	219 PKP	44 38.00 0.9	
	e	38 08.00	27km			e	44 29.47					i	44 49.00	
HFS 93.27	330 eP	37 59.40	-0.6		C8M 137.19	350 PKP	44 20.00	10.5X		UNM	154.88	53 (PKP)	44 42.00 2.5X	
	1.4s	72.10nm	5.9mb		Z 20s	1.68um		5.8Msz		CCH	154.97	208 ePKP	44 49.00 9.3X	
CTI 93.63	316 P	38 02.50	0.3		GOL 137.43	32 PKP	44 20.00	9.4X		PPM	155.47	53 (PKP)	44 41.00 0.4	
WTTA 93.70	317 iPd	38 02.50	-0.1		Z 22s	1.71um		5.7Msz		CNCB	156.29	205 PKP	44 43.40 1.6	
MOX 93.89	320 iPc	38 03.60	0.5		GLD 137.48	31 PKP	44 20.00	9.4X		LPB	156.59	205 PKP	44 48.50 6.5X	
	1.9s	62.00nm	5.7mb		Z 21s	3.10um		6.0Msz		Z 20s		2.13um		6.0Msz
Z 18s	1.00um	5.3Msz			LMN 137.54	346 ePKP	44 13.50	3.3X			LR	40 20.00		
	eS	49 11.00			VAO 138.90	226 (PKP)	44 17.00	3.5X		ZOBO	156.82	205 PKP	44 42.30 -0.3	
GRF 94.10	319 ePc	38 05.10	1.0		TUC 138.99	44 ePKP	44 15.03	1.6			1.4s	75.05nm		
	1.7s	80.00nm	5.9mb		Z 20s	0.92um		5.5Msz		Z 24s		0.91um		5.5MszX
Z 21s	0.90um	5.2Msz				iSKP	47 47.69				SKS	55 44.00		
NB2 94.53	331 P	38 05.00	-0.9		ALQ 140.18	38 iPKPd	44 16.68	1.0			LR	40 38.00		
	1.4s	36.00nm	5.6mb		Z 20s	0.24um		4.9Msz		ARE	157.86	197 e(PKP)	45 01.00 17.6X	
TNS 95.90	320 ePc	38 12.80	0.3			eSKP	47 49.66			OXX	158.05	55 (PKP)	44 45.00 1.5	
LPG 97.04	315 eP	38 17.40	-0.6		RSNY 140.32	356 (PKP)	44 17.48	2.1X			S.D. = 0.9	on 249 of 309 obs.		
	1.0s	3.80nm	4.9mb X			ePP	47 02.84							
LPL 97.05	315 eP	38 17.40	-0.6			iSKP	47 50.23							
	1.4s	9.60nm	5.1mb			ePKP	44 19.20	1.3						
BRW 98.19	19 eP	38 22.39	0.1		MDZ 141.48	193 ePKP	44 19.20	1.3						
IMA 100.23	24 ePdiff	38 31.62	-0.2		TCA 141.79	199 e(PKP)	44 22.00	3.5X						
	1.2s	11.97nm	5.3mb		HRV 142.04	352 PKP	44 30.00	11.5X						
	(pP)	38 45.41			Z 22s	1.40um		5.7Msz						
HON 101.12	69 Pdiff	38 50.00	13.4X		RTCB 142.81	193 ePKP	44 25.70	5.4X		KGM	6.98	11 eP	20 25.00 0.1	
Z 20s	0.73um	5.2Msz			ACO 142.86	29 iPKPc	44 15.50	-4.6X		CHG	23.73	353 eP	23 55.60 4.9X	
DAG 101.45	348 ePdiff	38 35.50	-1.3		PNJ 143.91	355 ePKP	44 18.66	-3.0X		GYA	31.48	8 P	25 01.00 -0.4	
	1.5s	33.33nm	5.7mb		BAO 143.93	235 ePKP	44 20.00	-2.6X		CD2	35.63	3 eP	25 36.60 -0.5	
PMR 103.20	28 Pdiff	38 50.00	5.1X			e	44 35.00			LSA	35.92	344 Pc	25 40.40 0.3	
Z 19s	1.65um	5.6Msz				e	44 42.90				1.2s	12.00nm		4.7mb
SIT 111.39	30 PKP	43 30.00	10.2X			e	45 04.10			ASPA	35.98	124 iPc	25 40.10 -0.1	
Z 19s	1.80um	5.7Msz				e	45 04.10				0.6s	8.20nm		4.8mb
MCW 122.12	33 ePKP	43 40.24	-0.5		GMTN 143.94	355 iPKP	44 19.32	-2.4X		PKI	36.02	334 P	25 40.60 -0.2	
GMW 122.78	35 ePKPc	43 42.81	0.9		WMOK 144.61	30 iPKP	44 21.37	-1.8		GUN	36.12	335 P	25 41.60 0.0	
LON 123.78	35 ePKP	43 44.21	0.2			epPKP	44 31.67			DMN	36.18	334 P	25 42.00 -0.1	
FCC 124.80	10 ePKP	43 48.00	2.6X		MEO 144.67	30 iPKPd	44 21.50	-1.7		KKN	36.26	334 P	25 42.40 -0.3	
VGB 125.06	36 ePKP	43 46.90	0.4		FNO 144.86	28 iPKPd	44 22.70	-0.8			0.8s	34.00nm		5.3mb
DPW 125.10	32 ePKP	43 46.72	0.2		FVM 145.14	17 iPKPc	44 22.81	-1.1		GKN	36.73	334 P	25 46.60 0.1	
NEW 125.41	31 ePKP	43 47.14	0.0		Z 19s	9.31um		6.6Msz		XAN	39.26	9 Pc	26 07.00 -0.5	
Z 20s	2.92um	5.9Msz			MCWV 145.30	2 ePKP	44 23.72	-0.4			0.8s	5.50nm		4.5mb
WDC 126.58	42 PKP	44 00.00	10.4X		Z 21s	1.74um		5.8Msz			pP	26 15.40	28kmX	
Z 20s	1.17um	5.6Msz			ELC 146.13	16 ePKP	44 25.63	0.1		LZH	40.79	2 Pc	26 20.50 0.3	
LBFM 126.62	40 ePKP	43 50.52	0.6			epPKP	44 38.89				1.2s	30.00nm		5.0mb
SES 126.83	26 ePKP	43 49.00	-0.8		CBN 146.78	359 ePKP	44 28.70	2.1X		Z 18s		0.49um		4.4Msz
LMEM 127.24	41 ePKP	43 51.41	0.3			e	44 45.00				sP	26 41.50		
	epPKP	44 00.95			CVL 147.01	1 ePKP	44 27.00	0.1		TIY	43.48	12 Pc	26 42.80 0.7	
ORV 127.78	42 ePKP	43 51.57	-0.4			iPKPab44	28.89			GTA	44.12	358 P	26 47.50 0.2	
	epPKP	44 01.65				epPKP	44 40.98				1.2s	16.00nm		4.7mb
HMR 128.27	44 PKP	43 34.50	-18.3X		GRT 147.03	17 ePKP	44 27.59	0.6		HHC	46.35	10 Pc	27 05.60 0.6	
CMB 129.30	43 PKP	44 10.00	15.1X			ePKPob44	29.20				1.0s	24.00nm		5.1mb
Z 19s	0.80um	5.4Msz			OLY 147.07	20 ePKP	44 26.28	-0.9		Z 16s		2.37um		5.2MszX
LCCM 129.70	30 ePKP	43 55.50	-0.1			ePKPab44	28.92			N 15s		0.91um		
PKEM 130.46	45 (PKP)	43 58.00	1.0		UYO 147.09	25 iPKPc	44 26.70	-0.5		E 17s		1.69um		
MTUM 130.89	43 ePKP	43 58.99	0.8		FSA 147.11	200 ePKPd	44 30.10	2.7X		BJI	46.57	15 eP	27 07.50 0.9	
HHA I 131.17	33 ePKP	43 59.70	1.3		MZX 147.11	54 (PKP)	44 29.00	1.5		WMO	50.16	347 P	27 34.00 -0.6	
	iSKP	47 22.69			MIAR 147.13	24 ePKP	44 26.96	-0.3			1.0s	28.00nm		5.2mb
	e	47 37.74				ePKPab44	29.65			Z 16s		1.30um		5.0MszX
TNP 131.41	42 ePKP	43 59.86	0.7			epPKP	44 39.42				sP	27 49.00		
	iSKP	47 23.29			NAV 147.58	4 ePKP	44 26.76	-1.2		CN2	52.88	21 Pc	27 54.20 -0.7	
	i	47 38.34				ePKP	44 39.76				1.0s	23.00nm		5.2mb
PTI 131.46	34 ePKP	44 00.30	1.3		BLA 147.71	3 ePKP	44 30.91	2.7X		MDJ	55.15	24 eP	28 11.20 -0.3	
ISA 131.81	45 PKP	44 10.00	10.2X		GBTN 148.80	10 ePKP	44 30.53	0.6		GEC2	92.51	319 PKP	31 49.40 0.5	
Z 20s	1.17um	5.6Msz				iPKPbc44	33.75				0.9s	1.08nm		4.3mb
HVU 131.94	35 ePKP	44 00.56	0.6			epPKP	44 43.44			UYO	147.10	26 iPKPd	38 21.50 2.4X	
	epPKP	44 11.31				ePKPbc44	43.44				S.D. = 0.5	on 20 of 22 obs.		
	iSKP	47 25.16			TKL 148.88	9 ePKP	44 30.50	0.4						
	i	47 40.57				(pPKP)	44 43.66							
ULM 132.32	15 ePKP	44 02.50	2.3X		CEH 149.08	2 PKP	44 40.00	9.7X						
TPNV 132.67	42 ePKP	44 03.30	1.8		Z 19s	1.10um		5.7Msz						
	eSKP	47 28.13			HJA 149.50	203 e(PKP)	44 37.00	5.7X						
DUG 132.93	37 ePKP	44 02.65	0.8		LHS 150.39	5 ePKP	44 32.99	0.7						
	e	47 20.75				iPKPbc44	37.61							
	iSKP	47 28.41				ipPKP	44 53.39							
BW06 133.03	32 ePKP	43 59.18	-2.9X		LHS 150.39	5 PKP	44 37.70	5.4X		GUMO	10.50	171 e(P)	35 07.80 1.6	
	ePP	46 18.52			YJA 150.47	204 ePKPc	44 34.30	0.9		KAKJ	12.42	348 P	35 30.20 -1.8	
	eSKP	47 42.55			JSC 150.55	5 ePKP	44 33.11	0.5		CHJJ	12.52	344 P	35 32.40 -1.0	
DAU 133.70	35 ePKP	44 04.09	0.5			iPKPbc44	38.13			KAGJ	13.07	306 eP	35 52.00 11.3X	
ARUT 134.02	40 ePKP	44 03.92	-0.1		PRM 150.63	7 ePKP	44 32.82	0.1		MAT	13.20	342 eP		

FEB 08, 1993 05h 32m 34.87±0.29s
 24.037 N ± 5.2km 143.257 E ± 4.6km
 DEPTH = 35.3km (9 depth phases)
 5.2mb (48 obs.) 5.0Msz (13 obs.)
 VOLCANO ISLANDS REGION (213)

08d 05h

KUMJ	13.83	310	eP	36	02.00	11.3X	LZH	35.93	299	eP	39	33.50	-0.7	1.0s	28.51nm	5.3mb					
YAMJ	14.36	350	eP	35	57.50	-0.1		1.5s	35.00nm			5.1mb		NDI	58.69	290	iPc	42	31.80	0.3	
OFUJ	15.06	355	eP	36	04.30	-2.4	Z	18s	1.33um			4.8Msz		FRU	58.71	307	iPc	42	32.80	1.3	
MRRJ	18.43	355	eP	36	56.60	7.4X	E	14s	0.87um						1.4s	80.00nm	5.6mb				
KUSJ	19.05	3	eP	37	02.30	5.5X			sP	39	39.00			Z	18s	1.30um	5.1Msz				
ASAJ	20.04	359	P	37	17.10	9.4X			eS	45	15.00			N	18s	1.30um					
SSE	20.77	295	Pc	37	14.00	-1.3	MGD	36.42	6	eP	39	39.00	1.2	E	18s	1.00um					
	1.0s	120.00nm			5.2mb		KMI	36.77	280	Pc	39	42.50	1.1			e	42	48.40	58kmX		
Z	18s	5.40um			5.0Msz			1.5s	230.00nm			5.8mb		CAN	59.28	175	eP	42	44.50	9.1X	
N	18s	2.10um					Z	20s	1.40um			4.7Msz		FBA	59.57	27	e(P)	42	37.00	-0.1	
E	16s	3.70um					N	15s	1.30um						0.8s	1.20nm	4.1mb	X			
CVP	20.98	257	eP	37	15.20	-2.4	E	15s	0.90um					KLU	60.04	32	eP	42	39.79	-0.6	
	1.0s	87.00nm			5.1mb			pP	39	47.50	17kmX			HYB	60.43	277	ePc	42	43.40	-0.3	
VLA	21.22	337	iPc	37	21.00	1.2		sP	39	52.00					1.3s	90.00nm	5.7mb				
	1.8s	172.00nm			5.1mb		YAK	39.07	350	eP	40	00.00	0.1	BALM	61.74	32	(P)	42	50.71	-1.4	
Z	17s	1.20um			4.4MszX			1.0s	126.00nm			5.6mb		GBA	62.69	273	Pd	42	59.00	0.1	
N	16s	1.00um					Z	16s	2.10um			5.1MszX		BOM	65.15	281	eP	43	14.50	-0.4	
							N	16s	1.50um						eS	51	58.00				
								eS	45	57.00				SVE	66.24	323	ePc	43	22.00	0.7	
							GTA	39.61	303	P	40	04.00	-1.0		2.0s	120.00nm	5.6mb				
								1.8s	51.00nm			5.0mb		Z	18s	1.40um	5.2Msz				
							Z	16s	1.72um			5.0MszX		N	18s	0.60um					
BAG	22.57	255	eP	37	33.00	-0.7	E	12s	0.52um					E	18s	1.00um					
								pP	40	12.00	27km			QUE	67.04	294	eP	43	28.00	0.8	
YSS	22.93	359	eP-	37	29.00	-7.8X	BOD	39.69	336	iPc	40	05.30	0.2	ARU	67.42	323	eP	43	29.00	0.2	
Z	14s	2.50um			4.8MszX			1.4s	50.00nm			5.1mb			1.5s	280.00nm	6.1mb				
N	15s	2.50um					ZAK	40.56	321	iPc	40	12.20	-0.2		Z	16s	1.50um	5.3MszX			
E	15s	1.20um						1.4s	46.00nm			5.0mb		N	14s	0.50um					
							Z	14s	1.18um			4.9MszX		E	16s	1.50um					
							E	14s	1.06um						e	43	39.00	32km			
NJ2	22.94	296	Pc	37	36.80	-0.1		eS	46	20.00				MAIO	71.40	302	iPc	43	55.00	1.2	
Z	16s	2.62um			4.8MszX		IRK	40.84	324	eP	40	15.00	0.3	ASH	71.81	304	eP	43	57.00	0.9	
N	15s	2.31um						1.2s	25.00nm			4.8mb			1.5s	240.00nm	6.0mb				
E	15s	4.10um						e	40	20.00	17kmX		KAT	73.01	306	eP	44	06.00	2.9X		
MDJ	23.36	335	eP	37	41.00	0.0		e	40	32.00				RES	74.79	14	eP	44	18.00	5.2X	
	1.1s	56.00nm			5.0mb		NST	41.27	267	eP	40	19.50	0.8		1.0s	5.00nm	4.5mb				
Z	18s	5.39um			5.0Msz		CHG	41.45	272	ePc	40	20.30	0.1	GMW	75.21	44	eP	44	15.77	0.0	
N	16s	1.65um						1.3s	55.29nm			5.1mb		APA	75.27	338	iPd	44	16.70	1.1	
E	16s	3.50um					BDT	41.83	269	eP	40	24.00	0.8	LON	76.11	45	(P)	44	21.26	0.3	
DL2	23.58	314	eP	37	42.00	-1.2		1.0s	89.70nm			5.5mb		VGB	77.22	46	(P)	44	25.80	-1.3	
	0.8s	33.00nm			4.9mb		MOY	42.43	322	eP	40	28.00	0.3	SDF	77.64	339	iP	44	29.30	0.4	
Z	15s	1.77um			4.7MszX			1.3s	36.00nm			4.9mb		LBFM	77.98	50	(P)	44	32.45	0.9	
N	15s	2.02um					KHT	42.97	266	eP	40	33.80	1.2	DPW	77.99	43	eP	44	32.01	0.7	
E	15s	1.59um					LSA	46.51	289	Pc	41	03.30	1.9	NEW	78.51	42	eP	44	33.04	-1.1	
SNY	24.14	322	iPc	37	48.00	-0.6		1.2s	40.00nm			5.3mb			1.2s	25.43nm	5.1mb				
	1.2s	130.00nm			5.3mb		ASPA	48.28	192	P	41	12.19	-2.5	MOS	78.77	326	eP	44	38.00	2.7	
Z	14s	1.36um			4.6MszX		TIK	48.33	354	iPc	41	15.00	0.5		Z	18s	3.60um	5.7Msz			
N	12s	1.51um						1.2s	30.00nm			5.2mb		N	17s	2.90um					
E	13s	1.14um					Z	16s	1.50um			5.1MszX		E	17s	4.00um					
								ePPP	43	55.00				ORV	78.91	52	eP	44	36.52	0.0	
								eS	48	15.00				OBN	79.58	326	eP	44	39.00	-0.7	
CN2	24.54	328	eP	37	53.20	0.8		e	51	03.00					Z	18s	3.60um	5.8Msz			
	1.2s	36.00nm			4.8mb		WMO	49.18	308	Pc	41	21.00	-0.6	N	16s	1.60um					
Z	18s	3.64um			4.9Msz			1.7s	97.00nm			5.6mb		E	16s	1.90um					
N	15s	2.38um					Z	18s	1.36um			5.0Msz			i	44	55.50	59kmX			
E	15s	2.26um						ScP	46	37.00				GRS	80.14	309	eP	44	44.00	0.7	
								eS	48	25.00					1.5s	70.00nm	5.4mb				
								ScS	51	09.00				PYA	80.57	314	eP	44	46.00	0.7	
TIA	25.57	304	eP	38	01.90	-0.4	ILT	49.65	18	eP	41	27.00	2.3		1.5s	70.00nm	5.4mb				
	1.6s	67.00nm			5.0mb			i	41	38.50	41km			KAF	80.64	335	iP	44	45.50	0.3	
Z	18s	3.59um			4.9Msz		RMO	50.51	174	eP	41	29.30	-2.4		0.5s	4.60nm	4.7mb				
E	18s	3.94um					DZM	51.08	152	iPc	41	33.60	-2.6	KIV	80.85	314	P	44	48.10	1.2	
							ELT	51.46	320	iPc	41	38.00	-0.7		2.1s	125.00nm	5.5mb				
WHN	26.45	291	Pd	38	13.00	2.6		Z	15s	1.00um			5.0MszX	SES	81.21	39	eP	44	49.00	0.5	
	1.4s	170.00nm			5.5mb			eS	49	00.00				BONR	81.84	52	(P)	44	54.16	1.7	
Z	20s	2.49um			4.8Msz		BRS	51.95	169	iP	41	38.00	-4.7X		GSC	84.03	54	(P)	45	03.45	0.0
BJI	27.81	311	eP	38	20.50	-2.2	TTA	55.62	29	eP	42	08.62	-0.8	MNK	84.72	328	eP	45	02.00	-4.4X	
	1.5s	52.00nm			5.0mb			2.0s	47.96nm			5.2mb		DUG	84.73	48	eP	45	07.15	0.2	
Z	16s	1.46um			4.7MszX		NRI	55.69	339	ePd	42	09.00	-0.7		0.8s	3.92nm	4.6mb				
N	14s	0.90um						1.5s	64.00nm			5.4mb		ARUT	85.38	51	(P)	45	09.20	-1.1	
								e	42	21.00	42km			MSU	85.94	50	eP	45	13.95	0.8	
TIY	29.61	305	eP	38	38.50	-0.6			e	44	13.00			EMUT	86.27	48	eP	45	15.15	0.4	
Z	15s	2.36um			4.9MszX		BGL	56.92	31	(P)	42	18.81	0.0	HFS	86.61	337	eP	45	14.70	-1.0	
N	15s	1.38um					IMA	57.40	26	eP	42	21.95	-0.2		0.9s	9.70nm	5.1mb				
HHC	31.34	310	eP	38	53.00	-1.4		1.1s	5.61nm			4.5mb			Z	16s	0.56um	5.1MszX			
	1.2s	34.00nm			5.0mb		BRW	57.94	19	(P)	42	24.90	-0.7		LR	24	55.00				
XAN	31.50	296	P	38	55.00	-0.8	KSH	58.01	303	P	42	28.50	1.7	NB2	86.80	339	P	45	16.50	-0.2	
BTO	32.34	309	P	39	02.50	-0.7		0.7s	60.00nm			5.8mb			1.0s	20.70nm	5.3mb				
	N	15s	1.54um					Z	16s	1.40um			5.2MszX	SRU	86.80	48	eP	45	16.92	-0.4	
	E	16s	2.64um					E	16s	3.38um				PV10	88.17	49	eP	45	24.65	0.6	
GYA	33.12	282	iPc	39	10.00	-0.1			pP	42	38.00	31km		TUC	89.85	55	eP	45	32.85	1.0	
	1.0s	44.00nm			5.3mb				PP	44	37.00				1.5s	12.46nm	5.0mb				
Z	20s	2.38um			4.9Msz			S	50	26.00				OJC	90.77	328	eP	45	36.00	0.4	
N	18s	1.55um						sS	50	32.00				ALQ	91.69	50	eP	45	41.54		

BRG 93.07 331 eP 49 21.80
 CLL 93.18 331 eP 45 46.60 0.4
 PRU 93.43 330 eP 45 49.50 1.7
 Z 15s 0.80um 5.3mszX
 KHC 94.48 330 P 49 29.50
 N 14s 1.50um 5.6mszX
 E 14s 0.60um
 1.30um
 GEC2 94.62 329 P 46 20.40 103kmX
 1.2s 2.37nm 4.5mb
 BCAO 119.22 290 ePKPc 45 58.90 20kmX
 1.0s 15.00nm 51 35.10 12.3X
 id 52 31.00
 BRU 124.62 59 ePdiff 47 47.96 -20.7X
 ARE 146.61 84 ePKP 52 10.00 -3.9X
 MDZ 150.52 115 ePKP 52 24.90 5.6X
 CCH 151.75 82 ePKP 52 11.00 -10.8X
 SIV 155.81 75 (PKP) 52 07.00 -20.1X
 e 52 18.00

S.D. = 1.1 on 100 of 117 obs.

* FEB 08, 1993 06h 23m 54.62±3.63s
 33.096 S ±12.1km 70.522 W ±15.4km
 DEPTH = 82.6 ± 31.4 km

CHILE-ARGENTINA BORDER REGION (127)
 MD 3.6 (SAN).

PEL 0.15 251 iP+ 24 07.11 0.2
 FCH 0.30 140 iP 24 07.53 -0.3
 SAN 0.37 198 iP 24 07.97 0.1
 JACH 0.42 352 iP 24 08.14 -0.1
 ROCH 0.43 287 iP 24 08.68 0.2
 PCH 0.52 179 iP 24 08.98 -0.1
 TACH 0.66 212 iP 24 10.23 0.0
 CHCH 0.84 187 iP 24 11.88 -0.4
 LCCH 0.96 246 iP 24 13.81 0.3
 CACH 1.02 184 (P) 24 15.41 0.9
 LNV 1.13 221 iP 24 14.99 -0.7
 MDZ 1.42 82 eP 24 37.80 18.3X
 S.D. = 0.5 on 11 of 12 obs.

* FEB 08, 1993 08h 58m 58.78±1.66s
 34.810 N ± 9.3km 141.923 E ± 9.0km
 DEPTH = 30.0 ± 10.0 km
 4.3mb (8 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 1.99 315 iP+ 59 30.50 -0.5
 CHJJ 2.69 298 P 59 41.00 0.0
 IIDJ 3.35 283 P 59 51.00 0.6
 NIJJ 3.39 317 P 59 51.50 0.6
 MAT 3.48 301 eP 59 53.00 0.7
 YAMJ 3.68 336 eP 59 54.30 -0.7
 MTMJ 3.79 299 eP 59 57.10 0.5
 OFUJ 4.27 357 P 00 00.40 -2.9
 TSRJ 4.92 280 eP 00 12.70 0.1
 ASAJ 9.31 3 eP 01 08.60 -5.4X
 KUMJ 9.52 259 P 01 17.40 0.5
 BJI 21.07 292 eP 03 47.50 4.8X
 Z 16s 0.58um 4.1mszX
 N 12s 0.37um
 TIY 23.91 286 eP 04 12.00 1.1

Z 15s 2.60um 4.8mszX
 N 16s 1.50um
 S 08 27.50
 HHC 24.65 293 eP 04 19.00 0.9
 1.0s 11.00nm 4.4mb
 Z 16s 0.59um 4.2mszX
 N 17s 0.85um
 E 15s 0.70um
 eS 08 32.00
 BTO 25.81 292 eP 04 28.50 -0.5
 XAN 27.17 278 eP 04 40.00 -1.5
 Z 16s 0.88um 4.4mszX
 N 12s 0.52um
 E 12s 0.51um
 LZH 30.92 284 eP 05 13.50 -1.8
 1.4s 16.00nm 4.6mb
 Z 15s 0.68um 4.4mszX
 E 12s 0.49um
 GTA 33.67 290 eP 05 38.00 -1.2
 1.5s 21.00nm 4.8mb
 Z 15s 1.15um 4.7mszX
 E 15s 0.49um

WMO 42.25 299 P 06 52.00 1.1
 1.5s 9.50nm 4.3mb
 pP 07 05.00 48kmX
 GUN 47.83 278 P 07 35.20 -0.9
 PKI 48.35 278 P 07 39.60 -0.5
 KKN 48.36 278 P 07 39.20 -0.9
 GKN 48.80 279 P 07 43.20 -0.2
 WB2 54.92 189 eP 08 28.00 -1.1
 1.3s 4.60nm 4.3mb
 WRA 54.93 189 P 08 28.50 -0.6
 0.8s 1.10nm 3.9mb
 GBA 61.48 267 P 09 22.00 6.7X
 NB2 76.40 338 P 10 46.90 0.2
 0.7s 1.60nm 4.1mb
 MSU 79.89 50 (P) 11 07.31 0.8
 PV10 81.93 49 iPd 11 19.38 2.1
 KHC 84.65 329 eP 11 49.00 18.3X
 GEC2 84.82 329 P 11 33.00 1.4
 0.9s 0.85nm 4.0mb
 EKA 85.36 341 P 11 48.00 13.9X
 1.2s 6.50nm
 ZOBO 147.39 63 PKP 18 45.00 5.1X
 CNCB 147.84 64 PKP 18 40.00 0.3
 SIV 152.14 54 (PKP) 19 02.00 15.6X
 S.D. = 1.2 on 28 of 35 obs.

* FEB 08, 1993 09h 51m 31.84±1.16s
 40.645 N ±10.3km 22.936 E ± 8.7km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

THE 0.03 119 ePg 51 33.24 -0.6
 SOH 0.36 61 ePg 51 34.08
 GRG 0.51 308 ePg 51 42.28 0.1
 KNT 0.52 357 ePg 51 42.48 0.2
 OUR 0.86 111 ePg 51 50.52
 S.D. = 0.7 on 5 of 5 obs.

FEB 08, 1993 10h 11m 47.05±0.77s
 31.986 S ±10.4km 67.677 W ± 7.6km
 DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.61 308 ePd 11 58.30 -1.1
 RTLL 0.94 314 ePc 12 05.20 0.2
 RTCB 1.08 297 ePd 12 08.50 1.1
 MDZ 1.34 228 eP 12 17.20 5.5X
 RTBS 1.55 282 eP 12 19.00 4.4X
 (S) 12 38.00
 MRA 1.72 105 ePc 12 17.80 0.6
 TCA 2.71 77 eP 12 31.10 -0.4
 RFA 2.85 193 ePc 12 33.20 -0.3
 S 13 16.30
 S.D. = 1.0 on 6 of 8 obs.

* FEB 08, 1993 12h 00m 35.11s
 37.360 N 118.379 W
 DEPTH = 12.0km

CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 3.0 (GM).

MTUM 0.15 267 iPc 00 38.71 -0.2
 MRCM 0.33 342 iPd 00 41.85 -0.3
 MEMM 0.54 305 iPd 00 45.84 -0.2
 eS 00 52.89
 BONR 0.60 6 iPd 00 46.94 -0.3
 TNP 1.17 52 ePc 00 57.28 0.4
 eS 01 12.67
 KVN 1.70 7 eP 01 06.08 1.1
 CMB 1.73 294 eP 01 05.63 0.5
 eS 01 28.13
 TPNV 1.75 103 ePn 01 06.25 0.6
 PKEM 1.90 228 (P) 01 07.81 0.2
 ARN 2.51 271 ePn 01 18.27 1.8
 COE 2.63 269 (Pn) 01 19.56 1.5
 ORV 3.29 313 (P) 01 26.75 -0.7
 ARUT 3.95 82 (Pn) 01 39.74 2.8
 MSU 5.04 75 ePg 02 09.02 16.5
 14 obs. associated

? FEB 08, 1993 12h 55m 27.12±0.99s
 39.097 N ± 8.3km 27.582 E ±10.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

IZM 0.74 200 iPg 55 41.50 -0.2
 iSg 55 53.50
 DST 0.96 58 iPn 55 45.80 0.4
 EZN 1.21 307 iPn 55 50.10 0.4
 EDC 1.27 10 ePn 55 50.00 -0.6
 S.D. = 0.9 on 4 of 4 obs.

? FEB 08, 1993 13h 22m 34.89±2.42s
 36.628 S ±11.5km 179.575 E ±26.6km
 DEPTH = 159.8 ± 12.9 km
 OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ 1.41 226 P 23 02.50 -2.0
 PUZ 1.78 216 P 23 08.20 -0.4
 NOZ 2.33 211 P 23 15.30 0.4
 URZ 2.55 230 P 23 18.30 0.8
 eS 23 59.30
 MAHZ 2.89 207 P 23 22.50 0.8
 TAZ 2.92 236 eP 23 23.60 1.5
 PAHZ 2.99 221 P 23 24.70 1.6
 KUZ 3.10 267 P 23 22.50 -1.9
 eS 24 08.80
 MOH 3.15 217 P 23 26.20 1.1
 WLZ 3.41 247 P 23 28.70 0.3
 WAHZ 3.98 219 P 23 35.80 0.0
 NGZ 4.04 230 eP 23 38.20 1.4
 BSZ 4.84 228 eP 23 48.40 1.4
 MNG 5.11 218 P 23 50.10 -0.6
 S 24 57.00
 NRZ 5.21 237 eP 23 56.40 4.3X
 MTW 5.53 214 eP 23 55.10 -1.1
 KIW 5.58 219 eP 23 56.90 -0.1
 CAW 5.69 217 eP 23 57.60 -0.8
 MRW 5.96 218 P 24 02.10 0.1
 eS 25 16.80
 TCW 6.17 220 eP 24 03.50 -1.2
 ORZ 6.92 231 eP 24 14.30 -0.6
 S 25 38.70
 KHZ 7.43 217 eP 24 20.50 -1.1
 eS 25 49.50
 LTZ 8.33 220 eP 24 33.80 0.1
 MOZ 8.83 215 P 24 40.00 -0.3
 eS 26 21.80
 DZM 18.45 318 iPc 26 41.60 0.6
 YKA 111.91 27 ePKP 40 59.50 8.1X
 0.7s 0.20nm
 BCAO 143.53 213 iPKPd 42 04.90 12.3X
 1.2s 14.00nm
 ic 42 10.30
 ic 42 19.00
 LIC 149.45 171 PKP 42 21.80 19.6X
 TIC 149.86 171 PKP 42 22.80 20.0X
 S.D. = 1.1 on 24 of 29 obs.

* FEB 08, 1993 13h 57m 05.85s
 63.255 N 151.109 W
 DEPTH = 12.4km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.4 (AEIC), 3.0

08d 13b

(PMR).

PWA	1.71	160	eP	57	36.00	0.5
PMR	1.91	150	eP	57	37.92	-0.4
			eS	58	40.31	
CRP	2.05	194	eP	57	39.38	-1.3
			S	58	07.59	
CP2	2.07	195	eP	57	40.20	-0.7
			eS	58	05.98	
BGL	2.09	197	eP	57	40.28	-0.8
			eS	58	09.19	
FBA	2.20	40	eP	57	42.39	-0.3
			eS	58	10.77	
TTA	2.25	264	eP	57	43.40	-0.1
			eS	58	10.80	
SLKM	2.79	171	eP	57	51.35	0.3
			eS	58	26.73	
KLU	3.00	124	eP	57	54.42	0.4
SVW	3.02	227	(P)	57	54.93	0.6
			eS	58	34.40	
IMA	3.03	340	eP	57	52.00	-2.6
BALM	4.68	114	eP	58	17.01	-0.9

% FEB 08, 1993 14h 37m 20.26±0.87s
39.113 N ± 7.5km 27.598 E ± 9.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

I Z M	0.76	200	e P g	37	35.00	-0.2
			i S g	37	46.50	
D S T	0.94	58	e P n	37	38.60	0.4
E Z N	1.22	306	e P n	37	43.20	0.3
E D C	1.25	9	e P n	37	43.00	-0.4
K C T	1.28	27	e P n	37	43.80	-0.2
S. D. = 0.5 on 5 of 5 obs.						

? FEB 08, 1993 16h 09m 27.73± 3.81s
3.675 S ±47.6km 139.790 E ±22.9km
DEPTH = 33.0km (normol)
4.1mb (1 obs.)
IRIAN JAYA, INDONESIA (201)

WWKK	3.83	89	eP	10	25.10	-0.7
MDG	6.17	105	eP	11	00.80	1.8
MTN	12.50	223	eP	12	27.00	0.8
	0.3s	57.00nm			6.2mb	x
		eS	14	41.00		
WB2	17.02	198	eP	13	25.80	0.8
		eS	16	28.80		
ASPA	20.67	195	iPd	14	06.60	-1.0
		epP	14	26.30	96kmX	
		eS	17	49.00		
RMO	24.26	160	eP	14	42.80	-0.2
	0.6s	4.00nm			4.1mb	
BRS	26.65	154	iPc	15	04.00	-1.5
	S.D. = 1.4	an	7 of	7 obs.		

• FEB 08, 1993 16h 19m 14.92±0.61s
7.825 N ±15.4km 36.779 W ±16.7km
DEPTH = 10.0km (geophysicist)
4.4mb (3 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

BAO	25.82	205	eP	24	48.80	0.4
			e	24	50.10	
SIV	33.74	225	P	26	03.00	4.0X
CCH	38.33	229	(P)	26	37.00	-1.3
ZOBO	39.20	232	P	26	46.00	0.0
LPB	39.32	232	eP	26	47.00	0.3
CNCB	39.39	231	P	26	48.10	0.7
BCAO	55.07	90	ePc	28	49.50	-0.4
	0.7s		3.00nm			4.4mb
ZST	60.58	38	eP	29	28.00	0.0
DAG	69.60	4	eP	30	26.80	1.0
	1.2s		7.81nm			4.7mb
YKA	77.48	332	eP	31	11.10	-0.9
	1.2s		2.30nm			4.1mb

S.D. = 0.9 on 9 of 10 obs.

* FEB 08, 1993 17h 45m 23.37 \pm 2.42s
33.638 S \pm 6.5km 71.739 W \pm 19.1km
DEPTH = 20.0 \pm 9.1 km
NEAR COAST OF CENTRAL CHILE (135)
MD 3.6 (SAN).

LCHH	0.21	41	iP	45	28.91	0.2
			iS	45	34.91	
LNV	0.42	139	iP	45	31.88	-0.1
			iS	45	40.14	
TACH	0.67	92	iP	45	36.28	0.0
			iS	45	47.78	
ROCH	0.90	43	iP	45	40.05	-0.3
			iS	45	54.64	
CHCH	0.95	108	iP	45	40.71	-0.4
PEL	1.01	61	iP+	45	42.31	0.2
			iS	45	56.87	
PCH	1.02	89	iP	45	42.21	-0.1
			iS	45	57.99	
CACH	1.06	117	iP	45	43.46	0.4
FCH	1.25	76	iP	45	46.09	0.0
			iS	46	05.98	
JACH	1.35	46	iP	45	47.29	0.0
			iS	46	07.52	

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

? FEB 08, 1993 19h 18m 30.51 \pm 6.61s
40.123 N \pm 21.5km 24.140 E \pm 49.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

OUR	0.24	330	ePg	18	34.90	-0.8
PAIG	0.40	241	ePg	18	38.30	-0.5
			eSg	18	43.82	
SOH	0.92	320	ePg	18	48.30	0.2
			eSg	19	00.20	
SRS	1.08	337	ePg	18	50.46	-0.3
			iSg	19	06.10	
LIT	1.27	270	ePb	18	54.18	0.1
KNT	1.40	318	ePb	18	55.70	-0.4
			eSb	19	15.00	
VAY	1.69	316	ePn	19	01.60	1.4
	S.D.	= 0.9	on	7	of	7 obs.

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& FEB 08, 1993 19h 52m 35.73s
59.875 N 153.301 W
DEPTH = 129.5km
SOUTHERN ALASKA ( 2 )
<AEIC>.

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INW	0.21	24	eP	52	53.09	0.8
			eS	53	07.11	
INE	0.22	33	eP	52	53.35	0.9
			eS	53	07.43	
OPT	0.23	171	eP	52	53.45	1.2
ILIM	0.27	40	eP	52	53.42	1.0
PDB	0.46	259	iP	52	53.81	-0.9
			eS	53	08.02	
AUL	0.50	188	eP	52	54.45	-0.5
AUH	0.52	188	eP	52	54.57	-0.6
AUI	0.55	187	eP	52	54.50	-0.7
			S	53	08.69	
RS1	0.65	25	eP	52	55.54	-0.6
			eS	53	10.45	
RS2	0.65	25	eP	52	55.47	-0.7
			eS	53	10.21	
RSO	0.65	25	eP	52	55.41	-0.8
			eS	53	10.47	
RDW	0.66	22	eP	52	55.35	-0.9
REF	0.69	26	eP	52	55.62	-0.8
			eS	53	10.94	
NCT	0.71	15	eP	52	55.60	-0.9
			eS	53	11.59	
DFR	0.78	23	eP	52	56.07	-1.0
MCNL	0.87	218	eP	52	56.77	-0.9
			eS	53	13.11	
XLV	0.91	117	eP	52	57.07	-0.9
BRLK	1.23	94	eP	53	00.19	-1.0
			eS	53	18.73	
NKA	1.35	49	eP	53	03.08	0.7
SYI	1.35	159	eP	53	01.38	-1.1
CKL	1.41	19	iP	53	02.44	-0.8
			eS	53	23.68	
CKT	1.44	22	eP	53	02.56	-1.0
SPU	1.45	25	iP	53	02.56	-1.1
CKN	1.46	22	eP	53	03.11	-0.7
BGL	1.46	17	eP	53	02.95	-0.9
CP2	1.49	20	iPd	53	03.38	-0.9
CPAM	1.50	22	iP	53	03.51	-0.7
CRP	1.51	22	iPd	53	03.04	-1.4
			eS	53	25.19	
SLKM	1.66	66	eP	53	05.14	-0.9
SVW	1.69	318	P	53	05.10	-1.3

SEW	1.95	82	eP	53	08.25	-1.2
SUA	2.03	37	eP	53	09.62	-1.0
MPA	2.06	71	eP	53	09.61	-1.2
KDC	2.17	168	eP	53	10.93	-1.3
SKT	2.28	21	eP	53	12.25	-1.4
PMS	2.30	52	P	53	12.30	-1.6
			S	53	41.10	
PTE	2.35	63	eP	53	12.38	-2.0
LTl	2.74	84	eP	53	18.26	-1.3
KNIM	2.83	78	eP	53	18.87	-1.8
KNK	2.84	55	eP	53	18.26	-2.6
MTU	2.85	85	eP	53	19.54	-1.4
GHO	2.87	47	eP	53	18.85	-2.4
SML	3.11	49	eP	53	21.57	-2.9
GLI	3.24	69	eP	53	24.24	-1.9
HIN	3.44	78	eP	53	26.55	-2.3
FID	3.51	73	eP	53	27.47	-2.2
SCM	3.52	54	eP	53	27.31	-2.6
VLZ	3.67	67	eP	53	29.99	-1.8
CVA	3.83	77	eP	53	31.08	-2.8
TRF	3.87	21	eP	53	32.73	-1.9
KLU	3.98	63	eP	53	33.22	-2.8
SGAM	4.09	78	eP	53	35.26	-2.2
RND	4.13	29	eP	53	35.90	-2.2
GLB	4.93	67	eP	53	47.02	-1.8
TGL	5.28	76	eP	53	51.90	-1.8
CC8	5.43	26	eP	53	52.46	-3.1
HDA	5.43	30	eP	53	53.45	-2.2
BALM	5.55	73	eP	53	55.51	-1.8
YAH	5.80	80	eP	53	59.39	-1.5

• FEB 08, 1993 21h 28m 10.67± 1.62s
 5.400 N ± 8.3km 126.057 E ± 14.9km
 DEPTH = 127.5 ± 16.6 km
 4.7mb (8 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

MINDANAO, PHILIPPINE ISLANDS (259)

PLP	5.83	350 eP	29	36.00	0.0
	1.0s	41.00nm			4.6mb
WB2	26.47	162 eP	33	38.00	0.2
	0.3s	8.10nm			4.8mb
		i	34	02.80	
ASPA	29.89	165 eP	34	08.70	0.2
	0.6s	8.50nm			4.6mb
WARB	31.40	179 eP	34	22.00	0.3
	0.3s	10.00nm			5.0mb
MEEK	32.65	192 eP	34	31.70	-0.9
BJI	35.62	347 eP	35	12.50	14.7X
LZH	36.73	329 eP	35	07.50	0.1
	1.2s	23.00nm			4.9mb
GUN	44.21	305 P	36	09.20	-0.2
PKI	44.47	304 P	36	12.20	0.8
KKN	44.66	305 P	36	12.40	-0.4
DMN	44.73	304 P	36	15.00	1.6
GKN	45.27	305 P	36	16.80	-0.7
GBA	48.57	283 P	36	43.00	-0.2
YAK	56.56	2 eP	37	40.80	-1.0
	1.2s	30.00nm			5.1mb
KAF	89.82	332 iP	40	55.00	-0.8
	0.4s	1.70nm			4.5mb
YKA	98.26	24 eP	41	35.50	1.0
	0.8s	0.30nm			3.9mb

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

FEB 08, 1993 22h 31m 33.87± 0.88s
37.512 N ± 8.9km 137.393 E ± 6.6km
DEPTH = 47.5 ± 11.4 km
4.6mb (3 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ	0.98	160	iPd	31	51.10	-0.5
MAT	1.17	146	iPd	31	53.50	-0.6
			eS	32	10.00	
NIJJ	1.31	101	iPd	31	54.90	-1.2
			S	32	14.00	
CHJJ	1.95	138	iP+	32	05.90	0.8
			S	32	33.70	
IJDJ	2.07	168	P	32	07.60	0.7
YAMJ	2.19	72	eP	32	09.40	0.8
			eS	32	38.30	
TSRJ	2.27	210	P	32	09.30	-0.4
KAKJ	2.58	119	P	32	15.70	1.6
WKYJ	3.59	205	P	32	28.20	-0.4
			S	33	21.90	
OFUJ	3.71	64	P	32	29.20	-1.0
TKSJ	4.45	219	P	32	40.50	0.0

WARB	36.65	174	eP	09	04.00	0.5
GUN	38.43	302	P	09	18.40	-0.5
PKI	38.71	301	P	09	21.00	-0.2
KKN	38.89	302	P	09	22.20	-0.4
DMN	38.98	301	P	09	23.00	-0.4
GKN	39.50	302	P	09	27.00	-0.6
MRWA	39.93	189	eP	09	31.50	0.7
HYB	43.06	284	eP	10	04.00	7.3X
GBA	44.06	279	P	10	10.00	5.2X
YAK	51.74	4	eP	11	03.90	-0.1
QUE	55.04	299	eP	11	29.10	-0.2
MAIO	62.10	306	eP	12	29.00	10.7X
IMA	78.03	24	eP	13	56.91	2.1
YKA	95.09	23	eP	15	18.70	-0.1
S.D.	0.8	on	25	of	34	obs.
&	FEB 08, 1993	23h	25m	09.20s		
	60.199 N			152.789 W		
	DEPTH = 118.5km					
	SOUTHERN ALASKA				(2)	
	<AEIC>.					
ILIM	0.15	216	iP	25	25.10	0.9
INE	0.19	225	eS	25	37.59	
INW	0.22	233	eP	25	25.27	0.8
RS1	0.26	3	eS	25	38.37	
RS2	0.27	3	eP	25	25.33	0.9
RSO	0.26	4	eS	25	38.44	
RDW	0.28	358	eP	25	25.56	0.8
RDN	0.32	2	eP	25	25.54	0.8
NCT	0.37	349	eP	25	25.51	0.7
DFR	0.40	7	eP	25	25.90	1.1
POB	0.82	240	eP	25	25.84	-0.8
AUL	0.88	202	S	25	39.10	
AUP	0.90	201	eP	25	25.80	-1.0
AUH	0.90	202	eP	25	28.98	-0.7
AUI	0.92	201	eS	25	44.21	
NKA	0.94	54	eP	25	29.75	-0.5
CKL	1.03	12	eP	25	46.36	
CKT	1.05	16	eP	25	29.93	-0.6
SPU	1.05	20	eP	25	30.20	-0.3
BRLK	1.05	114	eP	25	30.51	-0.1
CKN	1.07	16	eS	25	45.80	
BGL	1.09	10	eP	25	31.73	0.9
CP2	1.10	14	eP	25	31.15	-0.6
CPAM	1.11	16	eP	25	31.14	-0.8
CRP	1.12	16	eP	25	31.21	-0.8
MCNL	1.28	218	eP	25	48.15	
SLKM	1.31	75	eP	25	31.33	-0.6
CDD	1.35	199	eP	25	47.89	
SYI	1.61	173	eP	25	31.23	-0.9
SUA	1.62	37	eP	25	49.71	
SVW	1.67	304	eP	25	31.64	-0.8
SEW	1.67	92	eP	25	31.91	-0.8
MPE	1.73	79	eP	25	32.15	-0.5
SKT	1.89	18	eP	25	49.77	
PMS	1.90	55	P	25	31.59	-1.2
PTE	1.98	69	eP	25	33.45	-1.0
PMR	2.27	50 (P)		25	33.83	-1.0
KNK	2.45	58	eP	25	33.99	-1.2
LTI	2.48	92	eP	25	36.97	-1.2
KNIM	2.52	84	eP	25	37.85	-0.6
MTU	2.58	92	eP	25	37.04	-1.9
GLI	2.90	74	eP	25	37.04	-1.9
HIN	3.14	84	eP	25	37.53	-1.4
TTA	3.14	332	eP	25	38.29	-1.3
FID	3.17	77	eP	25	40.48	-1.2
VLZ	3.31	71	eP	25	40.70	-1.2
TRF	3.47	19	eP	25	42.03	-0.7
KLU	3.60	66	eP	25	43.72	-2.7
RND	3.72	28	eP	25	46.78	-2.1
				25	47.17	-2.0</

08d 23h

SGAM 3.78 82 eP 26 04.36 -2.3
 GLB 4.57 70 eP 26 15.97 -1.4
 TGL 4.96 79 eP 26 20.83 -1.9
 CCB 5.03 25 eP 26 21.00 -2.5

53 obs. associated

FEB 09, 1993 00h 14m 47.85 ± 0.87s
 14.471 S ± 5.5km 167.374 E ± 5.7km
 DEPTH = 192.5 ± 8.0 km
 5.0mb (35 obs.)

VANUATU ISLANDS

(186)

BKM 3.29 165 iP 15 40.50 -0.6
 iS 16 20.50
 DZM 7.61 187 iPd 16 36.80 -0.3
 iS 18 03.00
 HNR 8.82 304 eP 16 53.00 0.2
 eS 17 10.00
 BRS 18.72 224 iPc 18 55.00 0.7
 0.5s 20.00nm 4.8mb
 CTA 20.92 252 iPd 19 17.00 0.4
 1.0s 17.50nm 4.5mb
 RMQ 21.11 233 iPd 19 19.90 1.4
 0.9s 165.00nm 5.5mb
 ARMA 21.49 220 iPd 19 24.00 1.7
 0.9s 37.00nm 4.9mb
 CMS 26.00 226 iPd 20 05.10 0.3
 0.6s 21.00nm 5.0mb
 BWA 26.23 217 eP 20 05.40 -1.4
 e 20 45.70
 CAN 26.53 215 eP 20 11.80 2.2
 MNG 27.00 166 eP 20 19.40 5.7X
 LTZ 28.53 172 eP 20 26.80 -0.7
 STK 29.24 229 iPd 20 34.20 0.3
 0.6s 12.10nm 4.8mb
 BWZ 30.04 176 eP 20 40.70 0.1
 TUZ 31.44 177 eP 20 52.80 -0.1
 WBZ 31.97 255 iPd 20 56.00 -1.9
 0.4s 12.80nm 4.9mb
 eS 25 53.30
 WRA 31.99 256 P 20 56.50 -1.5
 0.8s 1.00nm 3.5mb X
 ASPA 32.86 249 iPd 21 03.80 -1.8
 0.7s 21.00nm 4.9mb
 e 21 39.90
 eS 26 04.40
 MDJ 68.10 332 eP 25 29.00 0.3
 GYA 71.65 305 P 25 50.40 -0.4
 1.0s 12.00nm 4.6mb
 BJI 72.13 321 eP 25 53.50 0.4
 XAN 73.59 312 P 26 02.00 0.2
 1.0s 7.80nm 4.4mb
 KMI 74.26 302 Pc 26 06.50 0.4
 1.5s 60.00nm 5.1mb
 PP 28 51.00
 CHTO 75.06 294 ePc 26 11.20 0.7
 1.0s 12.50nm 4.6mb
 MGD 75.51 352 eP 26 11.00 -1.1
 0.8s 50.00nm 5.3mb
 e 26 20.00
 CD2 75.93 307 eP 26 16.00 0.8
 LZH 78.22 312 Pc 26 29.00 1.1
 1.5s 40.00nm 4.9mb
 ePP 29 27.00
 SVW 80.87 17 (P) 26 41.47 0.1
 0.8s 10.10nm 4.6mb
 YAK 81.79 343 iPc 26 46.00 0.0
 1.0s 150.00nm 5.7mb
 BGL 81.95 18 (P) 26 46.99 -0.1
 CRP 82.03 18 eP 26 46.60 -0.9
 SLKM 82.06 20 eP 26 46.95 -0.6
 TTA 82.25 16 eP 26 48.37 -0.1
 1.1s 6.78nm 4.3mb
 GTA 82.56 314 P 26 51.00 0.3
 1.0s 38.00nm 5.1mb
 ILT 82.77 5 iPd 26 51.00 0.1
 1.2s 21.00nm 4.8mb
 PMS 82.83 19 eP 26 51.90 0.4
 1.1s 58.70nm 5.2mb
 PMR 83.22 19 eP 26 52.88 -0.5
 0.8s 14.37nm 4.8mb
 KLU 84.21 21 eP 26 58.56 0.1
 BOD 84.23 335 eP 26 58.10 -0.4
 TOA 84.56 20 eP 27 01.20 1.0
 LGPM 84.75 46 ePd 27 02.98 1.3
 ORV 85.14 47 eP 27 03.88 0.4
 BALM 85.16 22 eP 27 02.60 -0.7

IMA 85.38 15 eP 27 04.29 0.0
 0.8s 7.33nm 4.5mb
 e 27 58.88
 ZAK 85.40 325 iPc 27 05.40 1.0
 1.4s 41.00nm 5.0mb
 LSA 85.51 302 Pd 27 07.70 1.6
 1.2s 13.00nm 4.6mb
 LBFM 85.57 45 eP 27 06.21 0.4
 FBA 86.08 18 eP 27 06.07 -1.5
 0.7s 12.90nm 4.9mb
 e 28 03.29
 GMW 87.51 40 eP 27 14.76 0.0
 GUN 89.36 299 PKP 27 24.60 0.1
 1.0s 38.00nm 5.3mb
 PKI 89.66 298 PKP 27 25.80 -0.1
 1.0s 42.00nm 5.3mb
 TIK 89.73 349 ePd 27 24.00 -0.8
 1.0s 18.00nm 5.0mb
 e 27 29.00
 KKN 89.83 299 PKP 27 26.60 0.1
 0.9s 36.00nm 5.3mb
 DMN 89.93 298 PKP 27 27.40 0.4
 0.9s 58.00nm 5.5mb
 ARUT 90.43 51 eP 27 30.21 1.3
 GKN 90.44 299 PKP 27 28.80 -0.4
 1.0s 30.00nm 5.2mb
 NEW 91.30 40 iPc 27 33.06 0.5
 0.8s 15.82nm 5.1mb
 MSU 91.60 51 eP 27 35.32 0.9
 WMQ 92.62 315 P 27 39.00 0.2
 1.5s 16.00nm 4.9mb
 PP 31 26.00
 HYB 93.14 287 eP 27 41.40 -0.2
 GBA 93.27 283 P 27 43.00 0.9
 PV09 93.89 51 ePd 27 45.93 0.9
 PV10 93.93 52 iPd 27 45.62 0.5
 LCCM 93.94 44 eP 27 46.10 1.2
 ELT 96.23 323 eP 27 54.50 -0.4
 1.4s 25.00nm 5.4mb
 YKA 97.27 27 eP 27 57.80 -1.6
 0.7s 2.60nm 4.7mb
 KIV 124.74 314 PKP 33 27.10 0.8
 1.4s 13.00nm
 KAF 124.99 339 ePKP 33 25.10 -0.9
 0.7s 11.20nm
 NUR 126.67 338 iPKP 33 29.60 0.3
 0.7s 27.30nm
 NB2 130.40 345 PKP 33 36.80 0.3
 0.9s 10.50nm
 HFS 130.51 343 ePKP 33 36.00 -0.7
 0.5s 1.70nm
 UZH 135.45 327 ePKP 33 48.00 1.6
 1.0s 28.00nm
 SPC 136.15 329 ePKP 33 49.40 1.4
 BRG 137.82 335 iPKP 33 51.20 0.3
 1.0s 20.00nm
 i 33 53.40
 CLL 137.86 336 iPKP 33 50.80 -0.1
 1.1s 20.00nm
 SRO 138.03 329 ePKP 33 53.90 2.6X
 PRU 138.24 334 PKP 33 54.00 2.3X
 0.9s 5.80nm
 e 37 11.20
 ZST 138.36 330 ePKP 33 52.00 0.1
 EKA 138.57 352 PKP 33 46.00 -6.1X
 1.1s 4.80nm
 MOX 138.92 337 ePKP 33 53.10 0.2
 1.6s 20.00nm
 e 33 55.60
 KHC 139.30 334 ePKP 33 53.50 -0.1
 1.0s 7.90nm
 e 35 56.00
 e 37 16.50
 GEC2 139.46 333 PKP 33 53.00 -1.0
 GRF 139.84 336 ePKP 33 50.50 -4.1X
 e 33 57.50
 OHR 140.67 319 e(PKP) 33 45.20 -11.2X
 KBA 140.94 332 iPKPc 33 51.80 -5.1X
 1.0s 16.50nm
 i 33 58.70
 LJU 141.12 330 e(PKP) 33 53.00 -4.0X
 VBY 141.14 328 e(PKP) 33 52.20 -4.8X
 i 33 58.00
 CEY 141.39 329 e(PKP) 33 52.50 -5.0X
 WTTA 141.56 333 iPKPc 33 50.70 -7.3X
 0.9s 19.30nm
 i 33 58.00

WLF 141.69 340 PKP 33 54.00 -3.8X
 DOU 141.80 342 PKP 33 54.90 -3.1X
 CDF 142.38 338 iPKPc 33 54.70 -4.5X
 0.9s 10.95nm
 CTI 142.48 332 PKP 33 56.60 -2.9X
 OSS 142.66 334 ePKP 33 57.30 -2.6X
 LLS 142.99 335 ePKPd 33 58.00 -2.5X
 BSF 143.04 338 ePKP 33 56.60 -3.8X
 1.3s 37.20nm
 HAU 143.05 339 iPKPc 33 56.90 -3.4X
 1.0s 23.20nm
 VDL 143.10 334 ePKPd 33 58.60 -2.1X
 TMA 143.65 335 iPKPd 34 00.00 -1.6
 RSM 143.67 329 PKPc 34 00.30 -1.1
 VAI 143.89 334 PKPc 34 00.00 -1.7
 SFI 143.97 329 PKPc 34 01.60 -0.3
 ORI 143.99 321 PKP 34 01.30 -0.8
 MMK 144.07 335 iPKPd 34 02.00 -0.4
 CRE 144.14 329 PKPc 34 01.30 -1.1
 ASS 144.17 328 PKPc 34 01.10 -1.3
 DIX 144.27 336 iPKPd 34 02.60 -0.2
 AQU 144.28 326 PKPc 34 01.70 -0.9
 TDS 144.30 320 PKPc 34 02.20 -0.4
 FIR 144.37 330 ePKP 34 02.50 -0.1
 FLN 144.37 346 iPKPc 34 01.20 -1.3
 0.8s 35.85nm
 SGO 144.38 322 PKPc 34 01.50 -1.2
 ORX 144.40 335 PKP 34 01.10 -1.7
 ORO 144.41 335 PKP 34 01.50 -1.3
 LDF 144.44 346 iPKPc 34 01.30 -1.3
 0.8s 40.70nm
 BOB 144.46 333 PKPc 34 01.10 -0.4
 EMS 144.46 336 iPKPd 34 01.00 -0.1
 BDI 144.47 331 PKPc 34 01.20 -0.1
 MGR 144.49 321 PKP 34 01.00 -0.1
 SDI 144.49 325 PKPc 34 01.00 -0.1
 LOR 144.53 341 iPKPc 34 01.30 0.0
 1.2s 88.35nm
 LBF 144.74 340 iPKPc 34 01.00 0.0
 1.1s 110.40nm
 PII 144.77 330 PKPc 34 01.00 -0.3
 GRR 144.81 346 iPKPc 34 01.00 -0.1
 0.8s 124.10nm
 SSF 144.83 341 iPKPc 34 01.10 0.0
 0.9s 206.40nm
 LSD 144.88 336 PKP 34 01.10 0.0
 LPL 145.00 336 iPKPc 34 01.50 0.0
 0.9s 89.45nm
 LPG 145.01 336 iPKPc 34 01.60 0.0
 0.9s 102.85nm
 RMP 145.03 326 PKPc 34 03.00 0.0
 PCP 145.04 333 PKP 34 03.60 -0.2
 RDP 145.06 326 PKP 34 04.40 0.4
 RSP 145.09 335 PKP 34 02.80 -1.1
 AVF 145.11 341 iPKPc 34 04.10 0.3
 1.0s 109.60nm
 LPF 145.19 346 iPKPc 34 04.40 0.6
 0.8s 121.95nm
 CKI 145.25 333 PKPc 34 04.00 -0.1
 BHB 145.34 335 PKP 34 03.20 -1.1
 BNI 145.41 336 PKPc 34 05.80 1.3
 FIN 145.45 333 PKP 34 03.84 -0.7
 RRL 145.47 335 PKP 34 05.85 1.1
 BGF 145.48 341 iPKPc 34 05.40 1.0
 1.2s 181.50nm
 ROB 145.53 334 PKP 34 04.75 0.1
 PZZ 145.68 335 PKP 34 05.07 0.0
 ENR 145.77 334 PKP 34 04.94 -0.2
 STV 145.80 334 PKP 34 05.03 -0.1
 IMI 145.83 333 PKP 34 06.08 0.9
 MAF 145.87 341 iPKPc 34 06.70 1.6
 0.7s 26.00nm
 TCF 145.92 342 iPKPc 34 06.80 1.6
 0.8s 39.50nm
 LSF 146.16 342 iPKPc 34 07.30 1.7
 1.0s 84.00nm
 MFF 146.30 344 iPKPc 34 07.80 2.0
 0.9s 112.05nm
 MNO 146.36 319 PKP 34 08.50 2.1
 PGF 146.38 331 iPKPc 34 08.10 1.9
 1.0s 160.80nm
 FRF 146.64 334 iPKPc 34 08.70 2.3X
 1.0s 156.80nm
 LRG 146.85 334 iPKPc 34 09.40 2.7X
 1.2s 202.90nm
 LMR 146.88 334 iPKPc 34 09.50 2.7X
 1.0s 112.80nm

CDR	146.91	335	ePKPc	34	09.50	2.6X	YKA	30.27	49	eP	36	09.30	1.9			iS	10	37.50				
RJF	147.02	342	iPKPc	34	10.00	3.0X		0.4s	1.40nm			4.1mb		PVC	2.95	161	iP	10	00.00	1.5		
	1.3s	146.55nm					BW06	40.38	79	eP	37	34.08	-0.1			iS	10	43.00				
CAF	147.18	341	iPKPc	34	10.80	3.5X		0.6s	1.56nm			3.9mb		DZM	7.14	186	iPd	10	54.70	-0.7		
	1.1s	81.55nm					WMOK	51.96	80	eP	39	04.68	-0.9			iS	12	13.90				
LFF	147.58	342	iPKPc	34	11.60	3.7X		0.7s	2.80nm			4.3mb		HNR	9.03	306	eP	11	19.00	-2.0		
	0.9s	115.95nm					KAF	65.26	352	iP	40	36.40	-1.4			eS	11	26.50				
LPO	147.68	341	iPKPc	34	12.00	4.0X		0.5s	4.50nm			4.8mb		SVO	9.31	307	eP	11	25.00	0.3		
	0.9s	101.90nm					NUR	66.98	353	iP	40	47.80	-1.0			BRS	18.33	225	iP	13	20.00	0.3
BCAO	147.73	255	iPKPd	34	08.70	-0.4		0.7s	10.10nm			5.0mb		PMG	20.43	283	eP	13	42.00	0.4		
	0.4s	55.00nm					NB2	67.01	360	P	40	48.00	-1.0			RMO	20.77	233	iPc	13	46.20	1.2
		ic	34	12.00				0.7s	3.00nm			4.5mb				0.4s	41.00nm		5.2mb			
		ic	34	21.90			HFS	67.89	358	eP	40	52.90	-1.6		ARMA	21.09	220	iPd	13	50.20	2.0	
		ic	34	58.10				0.4s	3.70nm			4.8mb				1.1s	109.00nm		5.1mb			
EPF	149.43	341	ePKP	34	16.60	5.7X	EKA	72.12	8	P	41	21.00	0.7		KUZ	22.98	162	P	14	08.20	1.7	
	1.0s	45.00nm						1.0s	4.80nm			4.4mb		RIV	23.81	215	eP	14	16.20	1.6		
ELIZ	149.86	344	iPKPd	34	17.45	5.9X	GUN	76.78	298	P	41	48.00	0.0		WLZ	23.99	164	P	14	17.30	0.9	
EGRA	150.39	341	iPKPc	34	18.56	6.3X		0.6s	17.00nm			5.2mb		URZ	24.79	161	eP	14	24.30	0.4		
EMON	150.78	352	iPKPc	34	19.38	6.5X	GKN	77.37	299	P	41	51.00	-0.1			e	14	26.90				
ESEL	151.35	335	iPKPd	34	20.90	7.1X		0.8s	15.00nm			5.1mb		PUZ	25.00	159	P	14	24.80	-1.1		
EROD	151.39	339	iPKPc	34	20.72	6.9X	DMN	77.44	299	P	41	51.80	0.3			e	14	28.00				
STS	151.47	354	iPKPc	34	21.06	7.2X		0.7s	11.00nm			5.0mb		WHH	25.19	163	P	14	28.50	0.8		
ERUA	151.78	351	iPKPd	34	20.72	6.3X	GEC2	79.20	358	P	42	01.20	0.6		PAHZ	25.33	162	P	14	29.00	0.0	
ETOR	152.18	343	iPKPc	34	23.36	8.2X		0.7s	1.10nm			3.9mb		NOZ	25.42	160	P	14	28.50	-1.2		
EZAM	152.21	354	ePKP	34	22.88	7.9X	HAU	80.00	3	eP	42	05.40	0.5			e	14	32.50				
ECHE	152.96	340	iPKPc	34	24.68	8.5X		1.0s	7.20nm			4.6mb		CMS	25.62	226	iPc	14	32.20	0.5		
PAB	153.98	345	ePKP	34	27.00	9.3X	LOR	80.64	5	eP	42	08.60	0.3			0.3s	20.00nm		5.1mb			
EVIA	154.32	341	ePKP	34	27.82	9.7X		1.0s	4.40nm			4.4mb		BWA	25.81	218	eP	14	32.50	-1.0		
EALH	154.67	339	ePKP	34	28.07	9.6X	SSF	80.83	5	eP	42	09.70	0.5		CNB	25.90	215	iPd	14	35.30	1.0	
EHUE	155.10	341	iPKPc	34	29.17	10.0X		1.2s	10.70nm			4.7mb				0.6s	38.00nm		5.1mb			
EGUA	156.31	342	ePKP	34	30.97	10.2X	LBF	80.93	5	eP	42	10.80	1.0		WAHZ	25.91	164	P	14	33.50	-0.8	
	S.D. = 0.9	on 132 of 176 obs.						0.9s	4.40nm			4.5mb		CAN	26.11	216	eP	14	35.00	-1.2		
							AVF	81.09	5	eP	42	11.10	0.5		TEHZ	26.31	163	P	14	36.60	-1.3	
? FEB 09, 1993 00h 23m 03.48±2.37s								0.9s	5.40nm			4.5mb		MNG	26.56	166	P	14	38.60	-1.6		
48.614 N ±17.6km 0.819 W ±19.7km							SMF	81.26	5	eP	42	11.90	0.4		LTZ	28.07	172	P	14	52.60	-1.3	
DEPTH = 10.0km (geophysicist)								1.0s	10.40nm			4.8mb				0.6s	42.00nm		5.3mb			
FRANCE (538)							LSF	81.52	6	eP	42	13.20	0.4		STK	28.88	230	iPc	15	02.00	0.7	
ML 1.6 (LDG)								1.0s	5.60nm			4.5mb				0.6s	43.10nm		5.3mb			
GRR	0.23	187	Pg	23	08.70	0.3	MAF	81.61	6	eP	42	13.90	0.5		TOO	29.70	217	iPd	15	09.30	0.8	
			Sg	23	11.70			1.3s	11.90nm			4.7mb		TUZ	30.98	177	P	15	19.00	-0.5		
FLN	0.27	56	Pg	23	09.20	0.1	LPL	82.50	3	eP	42	20.80	2.5			0.6s	65.00nm		5.5mb			
			Sg	23	12.60			1.0s	6.20nm			4.6mb		WB2	31.79	256	eP	15	25.10	-1.9		
LDF	0.46	92	Pg	23	12.80	-0.1	HYB	89.20	298	eP	42	50.60	-1.0			0.4s	7.60nm		4.8mb			
			Sg	23	18.80			S.D. = 1.1	on 26 of 27 obs.					WRA	31.80	256	P	15	26.00	-1.1		
LPF	0.60	194	Pg	23	15.30	-0.3									0.8s	1.00nm		3.6mb	X			
			Sg	23	23.10									ASPA	32.63	249	iPc	15	32.70	-1.6		
S.D. = 0.5	on 4 of 4 obs.														0.8s	44.20nm		5.3mb				
? FEB 09, 1993 02h 29m 51.84±5.54s														WARB	39.52	247	eP	16	32.50	0.0		
2.897 N ±37.2km 128.779 E ±51.0km														MEEK	46.73	247	eP	17	30.60	-0.1		
DEPTH = 217.0 ±43.5 km															0.4s	22.00nm		5.2mb				
4.5mb (6 obs.)														CN2	69.84	329	eP	20	12.80	1.7		
HALMAHERA, INDONESIA (267)															1.0s	5.80nm		4.4mb				
MNI	4.19	250	ePc	30	57.00	-0.2	KUZ	1.12	280	P	45	38.80	-0.2		SPA	75.15	180	iPc	20	42.00	-0.3	
			eS	31	45.50		H8Z	1.15	124	eP	45	37.50	-1.7			0.6s	81.30nm		5.7mb			
WB2	23.35	167	eP	34	42.20	0.0	URZ	1.30	180	P	45	40.30	0.1		YAK	82.22	343	eP	21	20.80	0.5	
	0.3s	8.30nm													1.1s	50.00nm		5.2mb				
ASPA	26.87	170	eP	35	14.40	-0.2								GTA	82.83	314	eP	21	25.00	0.9		
	0.4s	5.50nm					PUZ	1.45	141	Pc	45	40.60	-0.8			1.0s	5.00nm		4.3mb			
STK	36.67	162	eP	36	40.00	0.6								GUN	89.52	299	P	21	57.40	0.0		
	0.4s	2.70nm												PKI	89.82	298	P	21	59.00	0.2		
GUN	47.87	306	P	38	10.80	0.4								KKN	89.99	299	P	21	59.60	0.2		
	0.6s	27.00nm												DMN	90.09	298	P	22	00.40	0.5		
PKI	48.12	305	P	38	12.60	0.3								GKN	90.60	299	P	22	02.00	-0.1		
KKN	48.31	305	P	38	14.00	0.3								YKA	97.72	27	eP	22	32.30	-1.4		
	0.6s	11.00nm													1.2s	1.40nm		4.4mb				
DMN	48.38	305	P	38	15.00	0.7								MTD	126.11	236	ePKP	28	00.50	-1.8		
GKN	48.91	305	P	38	18.60	0.3								BUL	126.47	230	iPKPc	28	02.50	-0.5		
HYB	51.32	290	eP	38	35.40	-1.1									1.0s	7.50nm						
HFS	99.70	333	eP	43	10.80	-1.1								OLLA	127.05	89	iPd iff24	55.30	9.7X			
	0.4s	0.60nm												LLAV	127.13	88	iPd iff24	55.90	10.0X			
S.D. = 0.7	on 11 of 11 obs.													GEC2	139.84	333	PKP	28	28.50	1.2		
															0.8s	1.06nm						
* FEB 09, 1993 02h 29m 57.78±0.98s														VAI	144.28	334	PKP	28	33.30	-1.7		
52.301 N ±21.1km 169.322 W ±9.8km														SFI	144.34	329	PKP	28	35.10	0.0		
DEPTH = 33.0km (normal)														PGD	144.43	329	PKP	28	35.20	-0.4		
4.6mb (21 obs.)														CRE	144.50	329	PKP	28	34.60	-1.0		
FOX ISLANDS, ALEUTIAN ISLANDS (9)														ASS	144.53	327	PKP	28	34.20	-1.4		
ADK	4.56	268	ePc	31	05.44	-0.7								SGO	144.70	322	PKP	28	34.60	-1.3		
			eS	32	02.34									ORX	144.79	335	PKP	28	34.57	-1.5		
BGLM	12.87	39	eP	33	02.12	1.1								ORO	144.80	335	PKP	28	35.00	-1.1		
SLKM	13.35	45	eP	33	05.22	-2.0								FLN	144.81	346	iPKPc	28	34.80	-1.0		
KLK	15.67	45	eP	33	34.45	-3.0X									1.0s	25.00nm						
BALM	17.10	49	eP	33	54.18	-1.4								MGR	144.81	321	PKP	28	34.40	-1.7		

558	00	1003	081	10-	54	84	0	54
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09d 10h

TTA	2.69	289	eP	06	03.17	-1.7
HDA	2.75	33	eP	06	03.06	-2.5
CCB	2.76	24	eP	06	04.86	-0.9
CVA	2.78	124	eP	06	06.68	0.7
FBA	2.99	22	eP	06	06.22	-2.7
PDB	3.00	219	eP	06	08.77	-0.4
SGAM	3.03	121	eP	06	09.50	0.1
GLB	3.23	100	eP	06	12.29	-0.1
DOT	3.28	60	eP	06	14.05	1.0
RAGM	3.31	120	eP	06	14.56	1.0
SYI	3.69	196	eP	06	19.79	0.8
CROM	3.78	109	eP	06	20.71	0.3
TGL	3.92	108	eP	06	21.46	-0.8
BALM	4.03	103	eP	06	22.41	-1.4
IMA	4.17	342	eP	06	22.88	-2.9
YAH	4.57	109	eP	06	30.95	-0.7
YKA	16.52	73	eP	09	19.00	5.4

1.1s 0.50nm 2.6mb

67 obs. associated

? FEB 09, 1993 10h 06m 40.40±4.33s
39.763 N ±30.0km 23.707 E ±18.0km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

PAIG	0.16	353	ePg	06	43.86	-0.3
			eSg	06	46.42	
OUR	0.61	20	ePg	06	46.38	-0.3
			eSg	07	01.02	
LIT	0.99	290	ePg	06	58.98	-0.3
			eSg	07	12.50	
SOH	1.09	346	ePg	07	00.90	0.0
			eSg	07	16.26	
SRS	1.36	356	ePb	07	05.54	0.2
			eSb	07	24.20	
KNT	1.53	336	ePb	07	08.42	0.7
			eSb	07	28.66	
GRG	1.55	320	ePb	07	08.14	0.0
			eSb	07	29.06	

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

% FEB 09, 1993 10h 07m 02.75±0.50s
42.776 N ±4.6km 19.177 E ±4.0km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

ML 1.8 (TTG).

NKY	0.14	286	iPg	07	06.73	0.6
			iSg	07	09.97	
TTG	0.35	170	iPg	07	09.93	-0.1
			iSg	07	15.53	
BRY	0.48	285	iPg	07	12.54	0.0
			iSg	07	20.46	
IVA	0.54	79	iPg	07	13.77	0.1
			iSg	07	21.73	
BDV	0.56	208	iPg	07	13.75	-0.3
			iSg	07	22.25	
PLE	0.58	16	iPg	07	13.99	-0.5
			iSg	07	23.46	
HCY	0.60	237	iPg	07	14.79	-0.1
			iSg	07	23.81	
PVY	0.61	107	iPg	07	15.59	0.4
			iSg	07	24.05	
ULC	0.81	176	iPg	07	18.43	-0.1
			iSg	07	30.95	

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

FEB 09, 1993 11h 13m 17.09±0.98s
49.234 N ±7.7km 6.990 E ±8.4km
DEPTH = 10.0km (geophysicist)

GERMANY (543)

RUP	0.47	6	ePg	13	27.09	0.4
WLF	0.70	309	iPc	13	30.29	-0.5
			iS	13	39.66	
ABH	0.74	29	ePg	13	32.18	0.5
TOD	1.24	72	ePg	13	39.82	-0.4
TNS	1.37	43	ePnc	13	39.60	-2.7X
			eSb	14	02.20	
			eSb	14	06.50	
FEL	1.52	153	ePg	13	45.15	0.7
GEC2	4.43	93	Pn	14	25.20	-0.8
			Sg	15	41.30	

S.D. = 0.8 on 6 of 7 obs.

FEB 09, 1993 11h 18m 39.76±0.35s
50.872 N ±7.0km 159.971 E ±4.8km

DEPTH = 41.9km (3 depth phases)
4.6mb (25 obs.)
EAST OF KURIL ISLANDS (222)

PET	2.30	340	iPnc	19	16.00	0.1
			eS	19	45.00	
SKR	2.47	267	iPn	19	17.60	-0.7
			iS	19	46.00	
MGD	10.60	334	ePn	21	10.00	-2.0
			eS	21	32.00	1.4
YSS	11.98	258	ePn	21	42.00	1.4
SEY	12.74	344	ePn	21	42.00	1.4
YAK	19.89	316	iPc	23	07.80	-2.2
			eS	26	49.00	5.4mb
MAT	21.17	236	eP	23	22.00	-1.5
			eS	23	22.00	4.5mb
TIK	25.08	337	iPd	24	02.00	0.7
			i	24	14.00	48km
BOD	27.13	303	eP	24	20.00	-0.4
			eS	24	25.92	-0.5
IMA	27.78	39	eP	24	25.92	-0.5
			eS	24	46.69	-0.3
FBA	30.09	42	eP	24	46.69	-0.3
			eS	24	56.36	1.1
KLU	31.02	49	(P)	24	56.36	1.1
BALM	32.79	49	(P)	25	10.15	-0.6
ZAK	35.20	292	eP	25	33.00	1.5
			eS	25	33.00	4.5mb
			eS	25	33.00	4.3mszX
NRI	37.50	326	iPc	25	51.00	0.4
			e	26	02.00	39km
LZH	42.29	272	eP	26	30.00	-0.9
			eS	26	30.00	4.5mb
YKA	44.87	41	eP	26	51.40	0.1
			eS	26	51.40	4.2mb
DAG	52.63	360	ePd	27	57.00	6.0X
			eS	27	57.00	4.5mb
ORV	53.98	70	eP	28	01.00	-0.4
FCC	55.28	38	eP	28	14.00	3.3X
LCCM	55.43	58	eP	28	11.90	-0.3
PTI	57.08	61	eP	28	25.13	1.0
TNP	57.47	68	ePd	28	26.81	-0.1
			eS	28	26.81	4.7mb
BW06	58.69	60	ePd	28	34.90	-0.6
			eS	28	34.90	4.7mb
GUN	59.07	277	P	28	39.20	0.8
KKN	59.54	278	P	28	42.60	1.2
			eS	28	42.60	5.3mb
PKI	59.61	277	P	28	42.60	0.5
DMN	59.77	278	P	28	44.20	1.1
GKN	59.79	278	P	28	43.80	0.7
MSU	60.11	65	eP	28	45.26	0.0
ULM	60.42	46	eP	28	49.50	2.6
SRU	60.64	63	eP	28	48.70	-0.1
RSSD	60.72	55	iPc	28	48.56	-0.8
			eS	28	48.56	5.1mb
PV10	61.99	63	eP	28	58.55	0.5
NB2	65.66	344	P	29	24.60	3.2X
			eS	29	24.60	4.1mb
HFS	66.05	342	eP	29	22.50	-1.3
			eS	29	22.50	4.0mb
WMOK	70.30	59	iPd	29	50.44	-0.3
			eS	29	50.44	4.8mb
MIAR	73.23	56	eP	30	07.52	-0.6
			eS	30	07.52	4.7mb
ELC	73.31	51	iPd	30	08.41	-0.1
WB2	74.03	205	eP	30	11.60	-1.2
			eS	30	11.60	4.9mb
KHC	76.31	338	eP	30	30.50	4.9X
			e	30	52.40	83kmX
GEC2	76.54	338	P	30	34.30	7.3X
			eS	30	34.30	3.8mb
RMQ	77.65	190	eP	30	33.20	0.1
ASPA	77.70	204	iPd	30	33.40	-0.1
			eS	30	33.40	4.4mb
KBA	78.28	337	i(P)	30	46.90	10.2X
			eS	30	46.90	4.5mb
LOR	80.10	344	eP	30	55.00	8.7X
			eS	30	55.00	4.5mb
SSF	80.36	344	eP	30	55.90	8.2X
			eS	30	55.90	4.5mb

TCF 81.33 345 eP 31 02.30 9.4X
0.7s 1.75nm 4.2mb
LSF 81.48 345 eP 31 03.30 9.7X
0.8s 4.45nm 4.5mb
S.D. = 1.0 on 39 of 49 obs.

& FEB 09, 1993 11h 41m 00.87s
63.117 N 150.563 W

DEPTH = 116.9km
3.0mb (1 obs.)

CENTRAL ALASKA (1)
<AEIC>.

TRF	0.36	20	iPd	41	17.96	-0.2
			iS	41	30.78	
HUR	0.44	108	iPd	41	17.91	-0.5
			eS	41	30.57	
RND	0.83	69	iPc	41	20.88	-0.5
			S	41	36.21	
MCK	0.96	49	iPc	41	22.20	-0.3
SKT	1.23	202	iPd	41	24.83	-0.5
			eS	41	43.84	
PWA	1.51	167	P	41	28.70	0.2
GHO	1.55	150	iPd	41	29.01	-0.2
			eS	41	50.56	
NEA	1.61	24	iPc	41	28.85	-0.9
SUA	1.66	183	ePd	41	30.52	0.0
			eS	41	52.93	
PLRM	1.67	156	ePd	41	29.75	-0.7
			eS	41	52.17	
PMR	1.67	156	ePd	41	29.30	-1.2
			eS	41	51.52	
SML	1.67	141	iPd	41	29.96	-0.7
			iS	41	52.71	
PMS	1.94	166	P	41	33.40	-0.5
CCB	1.96	37	iPc	41	33.32	-0.8
KNK	1.97	149	ePd	41	33.62	-0.7
			S	41	58.96	
SCM	1.98	129	eP	41	33.45	-1.0
CRP	2.00	203	ePc	41	33.71	-1.1
			eS	41	58.48	
CPAM	2.01	202	eP	41	34.53	-0.4
			eS	41	01.16	
CP2	2.02	204	eP	41	34.53	-0.6
			eS	41	59.17	
CKN	2.05	203	eP	41	35.12	-0.2
BGL	2.05	206	eP	41	34.99	-0.4
HDA	2.06	50	iPc	41	34.55	-0.9
SPU	2.06	200	eP	41	34.84	-0.7
CKT	2.07	203	eP	41	35.13	-0.5
CKL	2.10	204	eP	41	35.63	-0.4
			eS	41	02.29	
MDM	2.12	28	ePc	41	35.37	-0.8
FBA	2.17	33	eP	41	35.51	-1.2
THY	2.20	80	eP	41	37.90	0.7
TOA	2.27	115	P	41	37.70	-0.5
PAX	2.33	91	ePd	41	38.57	-0.4
			eS	41	07.69	
GLM	2.34	35	iPc	41	38.30	-0.8
PTE	2.37	162	eP	41	38.32	-1.1
SDG	2.38	102	ePd	41	38.89	-0.7
			S	41	08.96	
NKA	2.40	188	eP	41	41.86	2.0
TTA	2.49	268	iPd	41	40.12	-1.0
TZL	2.61	112	eP	41	42.17	-0.4
SLKM	2.62	176	eP	41	42.14	-0.6
MPA	2.70	167	ePd	41	42.52	-1.2
			eS	41	13.67	
KLU	2.71	125	ePd	41	42.35	-1.7
DFR	2.73	203	eP	41	44.33	0.1
GLI	2.78	142	ePd	41	43.17	-1.6
VZW	2.80	136	eP	41	44.44	-0.6
NCT	2.80	205	eP	41	44.	

09d 11h

INE 3.29 202 eP 41 52.68 0.9
 INW 3.30 203 eP 41 52.82 1.0
 HIN 3.34 143 eP 41 50.53 -1.8
 LTI 3.35 156 ePd 41 50.50 -1.9
 BRK 3.37 183 eP 41 52.17 -0.6
 MTU 3.44 155 eP 41 51.97 -1.6
 CVA 3.44 136 eP 41 51.62 -2.0
 GLB 3.58 115 ePd 41 54.24 -1.3
 SCAM 3.65 134 eP 41 54.70 -1.8
 PDB 3.77 209 eP 41 57.49 -0.6
 RAGM 3.92 132 eP 41 59.02 -1.1
 AUH 4.01 202 eP 42 02.32 0.8
 CROM 4.23 121 eP 42 02.89 -1.7
 MCNL 4.35 207 eP 42 05.82 -0.1
 TGL 4.35 119 eP 42 04.15 -2.0
 BALM 4.39 115 ePc 42 04.84 -1.8
 SYI 4.61 192 eP 42 08.57 -0.9
 SNH 4.72 125 eP 42 08.22 -2.8
 CTGM 4.85 112 eP 42 11.89 -1.1
 YAH 5.02 119 P 42 13.10 -2.2
 YKA 16.32 76 eP 44 42.70 -1.3
 0.7s 0.60nm 3.0mb
 77 obs. associated

FEB 09, 1993 11h 55m 43.03± 0.45s
 52.368 N ±10.0km 169.409 W ± 5.6km
 DEPTH = 33.0km (normal)
 4.9mb (47 obs.) 4.6Msz (1 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)

SDN 6.06 57 eP 57 11.73 -0.8
 KDC 11.08 54 (P) 58 19.76 -2.4
 SVW 11.55 35 (P) 58 29.69 1.1
 TTA 12.75 29 eP 58 43.83 -0.8
 1.7s 8.11nm 4.5mb
 CRP 12.95 40 eP 58 45.51 -1.8
 SLKM 13.34 45 eP 58 48.99 -3.4X
 PMS 13.99 43 eP 58 59.30 -1.6
 KLU 15.66 45 eP 59 19.07 -3.5X
 TOA 15.82 43 eP 59 22.90 -1.8
 IMA 15.85 24 eP 59 24.07 -1.0
 0.8s 3.10nm 3.5mb X
 FBA 16.74 33 eP 59 34.95 -1.2
 0.9s 7.07nm 3.8mb X
 BALM 17.09 49 eP 59 38.34 -2.5
 YKA 30.26 49 eP 01 54.20 1.6
 0.5s 3.00nm 4.3mb
 NEW 33.04 76 eP 02 16.73 -0.4
 0.8s 10.49nm 4.8mb
 SES 35.63 69 ePd 02 39.00 -0.4
 BGMT 37.57 77 eP 02 55.90 -0.1
 BW06 40.42 79 eP 03 19.50 -0.3
 0.6s 2.79nm 4.2mb
 FCC 40.96 50 ePc 03 27.00 3.4X
 SRU 42.03 84 eP 03 32.95 0.0
 RSSD 42.94 74 eP 03 39.41 -1.0
 0.4s 1.48nm 4.1mb
 CN2 42.99 286 eP 03 38.80 -1.7
 1.0s 6.90nm 4.3mb
 PV09 43.26 84 eP 03 42.50 12kmX
 ULM 44.17 62 eP 03 52.00 2.0
 DAG 49.79 9 ePc 04 33.00 -0.7
 0.8s 8.96nm 4.8mb
 WMOK 52.01 80 eP 04 50.22 -1.0
 0.9s 6.66nm 4.6mb
 SSE 53.77 275 P 05 04.10 -0.1
 1.0s 21.00nm 5.1mb
 NJ2 54.52 278 Pd 05 08.00 -1.8
 EEO 55.25 57 eP 05 18.00 3.1X
 XAN 59.08 287 P 05 41.00 -1.2
 LZH 60.57 292 eP 05 51.00 -1.6
 Z 20s 0.40um 4.6Msz
 LMN 62.81 49 ePc 06 10.00 2.7
 WMQ 63.51 308 P 06 11.50 -0.6
 1.0s 8.40nm 4.8mb
 Z 32s 0.68um 4.6MszX
 CD2 64.35 288 iP 06 17.50 -0.2
 GYA 65.91 282 P 06 27.00 -0.8
 1.2s 32.00nm 5.3mb
 NUR 66.91 352 eP 06 32.00 -1.5
 NB2 66.94 360 P 06 33.00 -0.8
 0.7s 6.30nm 4.8mb
 HFS 67.82 358 eP 06 37.50 -1.8
 0.4s 7.70nm 5.1mb
 Z 20s 601.00um 7.8MszX
 LR 36 33.00

KMI 69.24 284 Pd 06 48.00 -0.9
 1.8s 110.00nm 5.6mb
 EKA 72.06 8 Pd 07 05.40 0.2
 0.6s 3.50nm 4.5mb
 LSA 72.43 296 P 07 08.40 0.0
 0.8s 15.00nm 5.0mb
 LOE 75.73 280 eP 07 26.40 -0.6
 GUN 76.70 298 P 07 31.60 -1.2
 0.6s 26.00nm 5.4mb
 KKN 77.12 299 P 07 34.40 -0.6
 0.6s 22.00nm 5.4mb
 PKI 77.22 299 P 07 34.40 -1.3
 0.7s 12.00nm 5.0mb
 GKN 77.30 299 P 07 35.00 -0.9
 0.8s 30.00nm 5.4mb
 DMN 77.36 299 P 07 36.20 -0.1
 GRF 78.32 360 eP 07 42.20 1.3
 1.0s 20.00nm 5.1mb
 SPC 78.49 354 eP 07 42.00 -0.1
 LDF 79.00 7 eP 07 44.70 0.0
 0.6s 5.05nm 4.7mb
 GEC2 79.13 358 PKP 07 45.40 -0.1
 1.0s 4.37nm 4.4mb
 GRR 79.15 8 eP 07 45.90 0.4
 1.0s 12.20nm 4.9mb
 LPF 79.49 8 eP 07 47.80 0.5
 1.3s 16.95nm 4.9mb
 ZST 79.66 356 eP 07 49.20 1.0
 HAU 79.94 3 eP 07 50.30 0.5
 1.2s 15.75nm 4.9mb
 BSF 80.13 3 eP 07 51.40 0.5
 1.1s 16.10nm 4.9mb
 LOR 80.58 5 eP 07 53.80 0.6
 1.3s 22.40nm 5.0mb
 SSF 80.76 5 eP 07 54.90 0.8
 1.1s 14.15nm 4.9mb
 LBF 80.86 5 eP 07 55.30 0.6
 0.7s 4.65nm 4.6mb
 KBA 80.90 358 iPc 07 56.50 1.4
 0.9s 19.50nm 5.1mb
 MFF 80.98 7 eP 07 56.10 0.8
 0.9s 8.50nm 4.7mb
 AVF 81.03 5 eP 07 56.20 0.7
 1.1s 14.90nm 4.9mb
 SMF 81.20 5 eP 07 57.10 0.7
 1.0s 14.00nm 4.9mb
 BGF 81.23 5 eP 07 57.20 0.6
 1.1s 10.25nm 4.7mb
 LSF 81.45 6 eP 07 58.50 0.7
 1.1s 14.90nm 4.9mb
 TCF 81.46 6 eP 07 58.40 0.6
 0.9s 5.10nm 4.5mb
 MAF 81.55 6 eP 07 59.20 0.9
 0.9s 6.70nm 4.7mb
 RJF 82.39 6 eP 08 02.90 0.2
 1.0s 7.80nm 4.7mb
 LPL 82.44 3 eP 08 05.00 1.8
 0.9s 6.20nm 4.7mb
 LPG 82.46 3 eP 08 05.20 1.8
 1.0s 7.20nm 4.7mb
 LFF 82.70 7 eP 08 05.40 1.1
 1.0s 17.80nm 5.1mb
 CAF 82.81 6 eP 08 05.90 1.0
 1.0s 13.20nm 5.0mb
 LPO 82.99 7 eP 08 06.60 0.8
 1.0s 9.00nm 4.8mb
 BOB 83.24 1 P 08 09.00 1.9
 SFI 84.08 359 P 08 14.00 2.7
 PGD 84.13 359 P 08 13.80 2.0
 EPF 84.57 8 eP 08 14.40 0.5
 1.0s 12.40nm 5.0mb
 ASS 84.92 358 P 08 17.50 1.9
 PGF 85.45 1 eP 08 19.50 1.1
 0.9s 20.95nm 5.3mb
 SKO 85.57 352 iP 08 19.50 0.7
 WRA 86.98 232 P 08 25.80 -0.1
 1.0s 0.50nm 3.7mb X
 HYB 89.12 298 eP 08 35.70 -0.8
 ASPA 90.38 230 P 08 41.00 -1.0
 GBA 92.85 296 P 08 53.30 -0.3
 0.7s 3.00nm 4.8mb

S.D. = 1.2 on 79 of 83 obs.

FEB 09, 1993 12h 04m 49.25± 0.38s
 0.696 N ± 8.9km 29.666 W ± 8.2km
 DEPTH = 10.0km (geophysicist)

5.2mb (30 obs.) 4.8Msz (7 obs.)
 CENTRAL MID-ATLANTIC RIDGE (406)
 Mw 5.5 (HRV)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 34S, 56C
 Centroid Location:
 Origin Time 12:04:57.2 0.3
 Lat 0.63N 0.04 Lon 29.68W 0.03
 Dep 15.0 FIX Half-duration 1.9
 Moment Tensor; Scale 10**17 Nm
 Mrr= 0.27 0.04 Mtt=-0.20 0.05
 Mff=-0.08 0.06 Mrt=-0.32 0.14
 Mrf=-0.26 0.17 Mtf=-1.75 0.04
 Principal Axes:
 T Vol= 1.73 Plg=16 Azm= 46
 N 0.16 74 231
 P -1.89 1 136
 Best Double Couple: Mo=1.8*10**17
 NP1: Strike=182 Dip=78 Slip= 10
 NP2: 90 80 168

MBO 18.52 42 iPc 09 08.50 0.7
 BAO 24.31 227 eP 10 07.60 -0.8
 e 10 18.00
 LIC 25.19 77 Pc 10 17.20 0.5
 Z 20s 1.10um 4.4Msz
 TIC 25.28 76 P 10 17.60 0.0
 ANTZ 33.50 33 iPc 11 29.90 -1.2
 SIV 35.16 240 P 11 49.00 3.4X
 AVE 38.59 31 eP 12 15.50 1.3
 CCH 40.16 242 eP 12 14.00 -13.9X
 ZOBO 41.54 244 P 12 39.20 -0.4
 S 19 04.00
 LR 24 46.00
 CNCB 41.58 243 P 12 36.00 -3.9X
 LPB 41.59 244 P 12 40.80 1.0
 Z 18s 2.06um 5.0Msz
 LR 24 44.00
 EHOR 43.25 29 eP 12 53.30 0.8
 EOCG 43.65 31 eP 12 56.20 0.2
 ENIJ 44.12 32 eP 13 02.00 2.3
 EPLA 44.68 26 iPc 13 05.00 0.8
 PAB 45.04 28 eP 13 07.00 -0.2
 EVIA 45.23 30 eP 13 08.80 0.1
 ETOR 47.13 29 iPc 13 24.50 0.9
 BCAO 48.28 85 iPd 13 34.00 0.9
 0.7s 33.00nm 5.5mb
 id 13 37.90
 ic 13 48.60
 ic 14 08.00
 EPF 49.97 29 eP 13 46.40 0.8
 1.5s 53.30nm 5.3mb
 LFF 51.61 27 eP 13 58.40 0.4
 1.3s 42.95nm 5.2mb
 LPO 51.62 28 eP 13 58.40 0.3
 1.3s 26.00nm 5.0mb
 CAF 52.22 28 eP 14 02.70 0.1
 1.3s 35.00nm 5.1mb
 RJF 52.25 28 eP 14 02.60 -0.2
 1.4s 29.20nm 5.0mb
 Z 22s 0.90um 4.8MszX
 MFF 52.51 25 eP 14 04.40 -0.3
 1.5s 40.75nm 5.1mb
 LSF 52.97 27 eP 14 08.10 -0.1
 1.4s 41.40nm 5.2mb
 LPF 53.27 24 eP 14 10.10 -0.2
 1.3s 48.00nm 5.3mb
 TCF 53.31 27 eP 14 10.60 -0.1
 1.5s 36.05nm 5.1mb
 MAF 53.42 27 eP 14 11.70 0.2
 1.2s 30.95nm 5.2mb
 GRR 53.63 24 eP 14 12.50 -0.4
 1.4s 45.30nm 5.3mb
 BGF 53.80 27 eP 14 14.40 0.2
 1.3s 33.95nm 5.2mb
 FLN 54.08 23 eP 14 15.70 -0.5
 1.4s 62.75nm 5.5mb
 Z 23s 1.55um 5.0MszX
 LDF 54.09 24 eP 14 15.80 -0.5
 1.1s 11.50nm 4.8mb
 SMF 54.33 28 eP 14 18.40 0.3
 1.6s 41.65nm 5.2mb
 SSF 54.48 27 eP 14 19.10 -0.1
 1.3s 15.15nm 4.9mb
 LBF 54.64 28 eP 14 20.40 -0.1
 1.3s 33.95nm 5.2mb

09d 12h

LOR 54.79 27 eP 14 21.20 -0.4
 1.1s 11.00nm 4.8mb
 Z 22s 0.88um 4.8msz
 LPG 54.93 31 eP 14 23.60 0.6
 1.2s 22.30nm 5.1mb
 LPL 54.94 31 eP 14 23.50 0.6
 1.4s 25.25nm 5.1mb
 TMA 56.44 31 eP 14 32.70 -1.0
 HAU 56.49 28 eP 14 33.50 -0.3
 1.3s 42.95nm 5.3mb
 Z 22s 1.25um 5.0msz
 BSF 56.58 29 eP 14 34.00 -0.6
 1.4s 48.35nm 5.3mb
 ZLA 57.12 30 eP 14 38.30 -0.1
 CDF 57.22 28 eP 14 38.50 -0.6
 1.3s 37.20nm 5.3mb
 FVI 58.83 33 P 14 50.00 -0.3
 TRI 58.84 34 e(P) 14 51.30 0.9
 e(PPP) 18 40.00
 e(S) 23 08.00
 eLR 33 36.00

VOY 59.10 34 iPc 14 52.20 -0.2
 RBL 59.17 33 Pc 14 52.50 -0.3
 CEY 59.23 35 eP 14 52.80 -0.4
 KBA 59.43 33 iPc 14 53.70 -1.0
 1.1s 20.00nm 5.2mb
 LJU 59.47 34 e(P) 14 54.50 -0.3
 VBY 59.57 35 iPc 14 55.40 0.0
 GRF 59.99 29 ePc 14 58.00 -0.3
 2.3s 127.00nm 5.6mb
 Z 22s 0.50um 4.6msz
 eS 23 17.10
 GEC2 60.71 31 Pc 15 02.50 -0.8
 1.5s 28.51nm 5.2mb
 MOX 60.81 29 eP 15 03.70 -0.1
 1.5s 15.00nm 4.9mb
 Z 19s 0.60um 4.8msz
 eS 23 30.00
 KHC 60.82 31 P 15 03.40 -0.6
 1.4s 25.70nm 5.2mb
 Z 20s 1.00um 5.0msz
 N 20s 0.60um
 E 20s 0.80um

SKO 61.56 41 iP 15 08.70 -0.4
 Z 16s 1.15um 5.1msz
 iS 23 33.00
 LR 43 57.00
 PRU 61.84 31 P 15 10.60 -0.3
 e 15 21.00
 CLL 61.91 29 eP 15 11.00 -0.3
 BRG 62.09 30 iP 15 12.00 -0.5
 i 15 37.50
 UZD 62.10 36 e(P) 15 12.00 -0.6
 ZST 62.15 33 iP 15 11.80 -1.1
 SRO 62.61 34 eP 15 15.90 -0.1
 SPC 64.43 34 e(P) 15 27.50 -0.7
 MLR 66.05 39 ePc 15 39.00 0.3
 VRI 66.71 39 eP 15 42.50 -0.2
 NB2 67.76 20 P 15 48.50 -0.6
 1.3s 19.00nm 5.1mb
 YKA 87.04 332 eP 17 38.50 2.5
 0.9s 1.00nm 4.6mb X

S.D. = 0.7 on 65 of 68 obs.

? FEB 09, 1993 12h 36m 12.37±1.83s
 15.349 N ±27.6km 91.953 W ±18.7km
 DEPTH = 206.9 ±13.5 km
 3.4mb (1 obs.)

MEXICO-GUATEMALA BORDER REGION (62)

TPX 0.53 214 iP 36 41.51 -0.1
 iS 37 02.00
 SCX 1.53 335 iP 36 47.50 0.3
 iS 37 11.00
 OXX 4.90 291 iP 37 26.50 0.0
 (S) 38 07.00
 IISM 6.32 306 (P) 37 43.00 -1.6
 PPM 7.37 301 iP 38 00.00 1.1
 III 7.80 294 iP 38 04.50 0.2
 (S) 39 06.00
 YKA 49.73 346 eP 44 45.20 0.0
 0.5s 0.70nm 3.4mb
 S.D. = 1.2 on 7 of 7 obs.

FEB 09, 1993 12h 46m 56.04±0.25s
 28.164 S ±3.4km 67.343 W ±6.2km
 DEPTH = 142.4km (4 depth phases)
 4.7mb (12 obs.)

LA RIOJA PROVINCE, ARGENTINA (138)

FSA 2.39 30 iPc 47 37.50 1.7
 RTRS 2.72 222 iPd 47 42.40 2.3
 (S) 48 03.00
 RTLL 3.30 197 iPd 47 49.00 1.3
 (S) 48 26.00
 RTCB 3.54 201 iPc 47 52.20 1.3
 (S) 48 28.00
 SLA 3.80 26 iP 47 55.60 1.2
 S 48 37.50
 TCA 3.97 144 iPd 47 57.00 0.5
 MRA 4.46 162 ePd 48 04.00 1.0
 MDZ 4.88 195 eP 48 11.20 2.5
 i 48 23.40
 i(S) 48 39.20

HJA 5.23 20 iPc 48 14.20 0.9
 ANT 5.23 327 eP 48 12.00 -1.3
 iS 49 06.00
 JACH 5.31 211 iP 48 15.36 1.0
 FCH 5.74 206 iP 48 21.85 1.4
 iS 49 27.75
 PEL 5.74 209 iP 48 19.70 -0.5
 iS 49 24.60
 ROCH 5.74 213 iP 48 18.85 -1.5
 iS 49 26.50
 PCH 6.08 206 iP 48 25.29 0.4
 iS 49 35.67
 IHA 6.10 216 e(P) 48 23.50 -1.5
 e(S) 49 15.50

YJA 6.20 16 iPc 48 27.40 0.6
 TACH 6.28 209 iP 48 26.19 -1.4
 iS 49 36.90
 CHCH 6.41 205 iP 48 29.03 -0.3
 LCCH 6.42 213 iP 48 27.25 -2.1
 CACH 6.56 204 iP 48 31.50 0.1
 RFA 6.66 188 ePc 48 31.40 -1.3
 (S) 49 44.70

LNV 6.74 210 iP 48 31.01 -2.8
 CCH 10.79 6 eP 49 40.00 12.0X
 CNCB 11.32 357 P 49 34.90 -0.2
 S 51 36.20
 LPB 11.60 356 P 49 43.00 4.3X
 ZOBO 11.84 356 P 49 41.80 -0.3
 SIV 13.43 27 P 50 03.80 1.7
 PPD 15.75 71 ePc 50 31.80 0.5
 NNA 18.38 329 eP 51 02.50 -0.3
 0.6s 10.67nm 4.3mb
 VAO 19.08 79 eP 51 08.50 -1.6
 e 51 09.60 4kmX
 BAO 21.82 59 iPd 51 34.90 -2.9
 e 51 36.80 7kmX
 e 52 25.60
 e 59 17.00

SDV 36.97 355 eP 53 51.70 -1.7
 TOV 37.80 356 eP 53 58.50 -1.7
 LHS 63.59 348 eP 57 12.60 -1.0
 MIAR 67.13 337 iPc 57 35.56 -0.7
 1.0s 14.74nm 4.8mb
 OLY 67.29 339 eP 57 35.61 -1.7
 ELC 68.27 341 eP 57 41.96 -1.3
 LIC 69.07 70 P 57 47.36 -1.3
 MEO 69.22 333 iPd 57 48.50 -0.7
 WMOK 69.26 333 eP 57 48.31 -1.2
 1.0s 11.67nm 4.7mb
 FVM 69.26 341 eP 57 48.04 -1.3
 0.6s 63.70nm 5.6mb

TIC 69.30 70 P 57 48.58 -1.5
 ALQ 72.84 327 iPd 58 11.63 0.5
 0.8s 11.39nm 4.7mb
 TUC 72.96 322 ePc 58 11.50 -0.2
 1.0s 8.15nm 4.4mb
 GLA 75.74 320 eP 58 28.66 1.0
 GOL 76.24 331 eP 58 30.86 0.3
 0.9s 14.04nm 4.7mb

PV08 76.80 328 eP 58 34.59 0.8
 PV10 76.83 328 eP 58 34.15 0.3
 PV09 76.97 328 iPd 58 35.35 0.7
 SRU 78.12 327 iPd 58 41.34 0.5
 MSU 78.46 326 iPd 58 43.99 1.2
 ARUT 78.55 324 eP 58 44.82 1.6
 EMUT 78.81 327 eP 58 45.27 0.6
 RSSD 79.39 334 iPd 58 47.61 -0.1

0.9s 10.79nm 4.6mb
 (pP) 59 22.07 137km

DUG 80.07 326 eP 58 51.94 0.6
 0.8s 5.23nm 4.3mb

BW06 80.57 330 iPd 58 53.37 -0.6
 1.0s 12.66nm 4.6mb
 PHAM 80.94 319 eP 58 55.62 -0.2
 BONR 81.25 322 eP 58 58.69 1.0
 HVU 81.27 327 ePd 58 58.02 0.5
 MEMM 81.40 321 eP 58 59.51 1.5
 PTI 81.92 328 eP 59 00.98 0.0
 KVN 81.93 322 (P) 59 01.89 0.8
 HHA1 82.26 329 eP 59 03.74 1.1
 (pP) 59 39.50 142km

LCCM 84.01 330 eP 59 12.30 0.8
 ORV 84.15 321 ePd 59 13.13 1.0
 eP 59 50.18 147km
 LBFM 85.61 322 ePd 59 20.27 0.6
 BUL 85.72 110 eP 59 21.20 0.5
 SES 87.26 334 ePd 59 27.00 -0.3
 DPW 88.39 329 iPc 59 33.26 0.5
 eP 00 09.97 144km

BCAO 88.44 84 ePd 59 34.00 0.3
 0.6s 6.00nm 4.8mb

RMW 89.81 326 eP 59 39.41 0.0
 YKA 97.91 340 eP 00 14.70 -1.3
 0.9s 2.50nm 4.7mb

WB2 127.78 206 ePd 00 32.50 5.5X
 0.9s 3.50nm
 WB2 127.78 206 iPKPd 00 44.00 -0.3
 0.3s 6.60nm

WRA 127.78 206 PKP 00 44.00 0.1
 0.7s 4.30nm
 HYB 146.89 101 ePKPd 00 14.70 0.6
 e 00 01.00

S.D. = 1.2 on 73 of 73 obs.

* FEB 09, 1993 12h 56m 10.9 ± 0.3s
 9.767 N ± 9.1km 120.113 E ± 0.0km
 DEPTH = 44.0 ± 20.0 km
 4.4mb (7 obs.)

MINDANAO, PHILIPPINE

PLP 1.95 315 ePd 00 14.70 -0.2
 iS 00 14.70 0.0

SSE 21.76 348 P 00 14.70 0.0
 1.0s 11.00nm 4.2mb
 NJ2 23.24 344 Pc 00 21.00 1.0
 0.8s 10.00nm 4.3mb

Z 20s 0.59um 4.0msz
 XAN 28.98 329 Pd 00 17.10 -1.6
 0.6s 8.20nm 4.6mb

TIY 30.53 338 eP 00 28.00 40kmX
 Z 24s 1.08um 4.4msz
 BJI 31.48 345 eP 00 40.50 -0.2

Z 20s 0.60um 4.3msz
 HHC 33.62 340 P 00 59.80 0.3
 1.0s 20.00nm 5.0mb

WARB 35.73 180 eP 00 18.00 0.4
 GTA 37.85 326 eP 00 35.00 -0.4
 1.0s 5.00nm 4.4mb

Z 18s 3.23um 5.2msz
 MRWA 40.03 194 iPd 00 53.60 0.1
 BRS 44.94 146 eP 00 33.00 -0.6

HYB 47.00 285 eP 00 50.60 0.6
 KAF 86.12 332 iP 00 58.50 0.2
 SLL 92.57 333 eP 00 23.20 -5.6X
 0.5s 2.50nm 4.9mb

YKA 94.17 24 eP 00 36.00 -0.1
 0.8s 0.70nm 4.1mb

S.D. = 1.0 on 14 of 15 obs.

* FEB 09, 1993 13h 15m 15.09 ± 1.20s
 19.327 S ± 10.1km 169.025 E ± 13.8km
 DEPTH = 107.9 ± 11.1 km
 4.4mb (5 obs.)

VANUATU ISLANDS (186)

PVC 1.72 337 iP 15 45.40 0.6
 iS 16 07.60

BKM 1.81 336 iPd 15 46.10 0.1
 iS 16 08.50

DZM 3.65 221 iPd 16 08.90 -1.7
 iS 16 49.00
 BRS 16.93 239 iP 19 11.00 4.2X

09d 13h

ARMA 19.24 232 eP 19 34.60 0.9
0.8s 9.00nm 4.2mb
RMO 19.97 245 iPd 19 42.20 1.0
0.6s 11.00nm 4.4mb
NOZ 20.75 160 eP 19 49.50 0.5
CTA 21.45 264 iP 19 58.00 1.9
MNG 21.93 167 eP 20 00.80 0.1
CNB 23.57 223 iPd 20 18.50 1.7
0.6s 13.00nm 4.5mb
WB2 32.63 263 eP 21 36.90 -1.9
0.5s 4.70nm 4.5mb
ASPA 32.91 256 iPd 21 40.00 -1.3
0.6s 55.70nm 5.5mb X
MEEK 46.74 251 eP 22 34.70 -0.6
YKA 100.84 27 ePd 28 52.50 -0.1
0.7s 0.30nm 4.0mb
GEC2 144.47 332 PKP 34 38.70 -1.6
0.7s 2.58nm
GRF 144.88 335 ePKP 34 41.40 0.5
WLF 146.77 340 PKP 34 47.00 3.1X
CDF 147.44 337 iPKPc 34 48.10 2.9X
0.7s 6.70nm
BCAO 147.64 247 iPKPc 34 50.10 3.7X
0.8s 11.00nm
BSF 148.11 337 iPKPc 34 49.70 3.4X
0.8s 5.10nm
HAU 148.12 338 iPKPc 34 49.90 3.7X
0.6s 3.80nm
FLN 149.44 346 iPKPc 34 53.00 4.8X
0.5s 3.50nm
LDF 149.51 346 iPKPc 34 52.90 4.6X
0.5s 3.00nm
LOR 149.61 340 iPKPc 34 53.60 5.1X
0.7s 6.15nm
LBF 149.82 339 ePKP 34 54.10 5.2X
0.7s 3.10nm
GRR 149.87 347 ePKP 34 54.10 5.3X
0.8s 7.10nm
SSF 149.90 340 iPKPc 34 54.50 5.6X
1.0s 11.80nm
LPL 150.05 335 ePKP 34 55.40 5.9X
0.6s 3.70nm
LPG 150.06 335 ePKP 34 55.50 5.9X
0.6s 3.95nm
LPF 150.25 347 iPKPc 34 55.10 5.7X
0.8s 11.55nm
MFF 151.38 344 ePKP 34 57.60 6.4X
S.D. = 1.4 on 15 of 31 obs.
FEB 09, 1993 13h 30m 04.90s
59.842 N 150.681 W
DEPTH = 39.2km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.7 (AEIC).
BRLK 0.13 233 iP 30 11.21 -0.5
eS 30 16.22
XLV 0.66 234 eP 30 16.82 -1.0
S 30 26.47
SEW 0.67 66 iP 30 17.14 -0.8
S 30 27.10
SLKM 0.71 19 eP 30 18.07 -0.4
eS 30 28.32
MPA 0.93 45 eP 30 21.05 -0.5
NKA 0.95 343 eP 30 22.93 1.1
RDT 1.13 311 eP 30 23.79 -0.8
ILIM 1.17 283 eP 30 24.19 -0.9
eS 30 39.79
REF 1.20 304 eP 30 24.72 -0.9
eS 30 40.08
RSO 1.21 302 eP 30 25.00 -0.8
RS1 1.21 302 eP 30 24.84 -1.0
RS2 1.21 302 eP 30 24.72 -1.1
S 30 40.03
INE 1.22 281 eP 30 24.79 -1.1
eS 30 40.87
RDN 1.24 304 eP 30 25.11 -1.0
RDW 1.24 302 eP 30 25.20 -1.1
eS 30 40.65
DFR 1.25 308 iP 30 25.23 -1.1
eS 30 41.20
INW 1.25 281 eP 30 25.46 -0.9
eS 30 41.58
PTE 1.32 38 eP 30 26.63 -0.4

NCT 1.34 304 eP 30 26.46 -1.0
S 30 43.83
LTI 1.44 81 eP 30 28.30 -0.5
AUE 1.45 252 eP 30 27.93 -1.1
AUL 1.47 253 eP 30 29.52 0.2
AUP 1.47 252 eP 30 29.75 0.3
AUH 1.48 252 eP 30 29.71 0.1
AUI 1.49 251 eP 30 29.70 0.2
S 30 47.48
SPU 1.51 334 eP 30 29.33 -0.5
PMS 1.51 21 P 30 29.60 -0.4
SYI 1.52 216 eP 30 28.66 -1.3
MTU 1.53 83 eP 30 30.26 0.1
CKT 1.56 332 eP 30 29.97 -0.7
KNIM 1.56 70 eP 30 28.78 -1.8
CKN 1.57 333 eP 30 30.28 -0.5
CRP 1.60 334 eP 30 30.33 -1.0
CP2 1.62 332 eP 30 30.86 -0.8
SUA 1.63 359 eP 30 31.26 -0.4
BGL 1.66 330 eP 30 31.08 -1.0
eS 30 52.23
PDB 1.78 270 eP 30 33.18 -0.5
PLRM 1.91 23 eP 30 34.67 -1.0
PMR 1.91 23 eP 30 34.43 -1.2
KNK 1.92 34 eP 30 34.76 -1.0
MCNL 1.98 252 eP 30 36.73 0.1
GHO 2.12 23 eP 30 38.09 -0.6
SKT 2.19 349 eP 30 40.14 0.6
SML 2.28 29 eP 30 40.04 -1.0
KDC 2.30 205 (P) 30 31.56 -9.6
VLZ 2.51 57 eP 30 43.49 -0.7
SCM 2.59 38 eP 30 45.08 -0.3
KLU 2.87 53 eP 30 48.10 -1.2
FBA 5.25 14 eP 31 21.30 -1.7
49 obs. associated
FEB 09, 1993 13h 52m 29.85±4.16s
41.081 N ±34.4km 24.399 E ±8.5km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
RZN 0.65 21 iPg 52 42.00 -1.0
MMB 0.72 315 ePg 52 43.00 -1.0
KDZ 0.95 53 ePg 52 48.00 0.0
PLD 1.05 12 eP 52 50.00 0.4
KKB 1.26 309 iPg 52 53.00 -0.3
PGB 1.48 353 iPg 52 57.00 0.5
VTS 1.75 330 eP 53 02.00 1.4
S.D. = 1.0 on 7 of 7 obs.
FEB 09, 1993 13h 59m 44.64±1.00s
52.672 N ±23.4km 169.402 W ±10.2km
DEPTH = 33.0km (normal)
4.4mb (5 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)
ADK 4.54 263 eP 00 51.95 -0.8
SDN 5.89 59 (P) 01 11.20 -0.7
BGL 12.62 40 (P) 02 45.96 1.4
KLU 15.44 46 eP 03 21.31 -0.1
BALM 16.89 50 eP 03 39.59 -0.3
BW06 40.36 79 eP 07 20.35 -0.6
0.6s 1.67nm 4.0mb
SRU 41.99 85 eP 07 35.91 1.6
NAV 60.62 66 (P) 09 52.99 -1.4
NB2 66.64 360 P 10 34.10 0.6
0.7s 3.30nm 4.5mb
HFS 67.52 358 eP 10 36.20 -2.8
0.4s 1.80nm 4.5mb
GUN 76.56 298 P 11 34.00 0.4
0.7s 11.00nm 5.0mb
KKN 76.98 299 P 11 36.40 0.6
PKI 77.08 298 P 11 37.00 0.5
GKN 77.15 299 P 11 37.00 0.3
DMN 77.21 299 P 11 38.00 0.8
KHC 78.54 358 eP 11 46.00 2.2
GEC2 78.83 358 P 11 43.70 -1.7
1.2s 0.98nm 3.7mb X
GEC2 78.83 358 P 11 47.60 2.2X
0.9s 1.40nm 4.0mb
S.D. = 1.4 on 17 of 18 obs.
FEB 09, 1993 14h 25m 38.90±0.08s
45.709 N ±1.8km 141.938 E ±1.8km
DEPTH = 306.8km (19 depth phases)
5.6mb (170 obs.)
HOKKAIDO, JAPAN REGION (224)

Mw 5.6 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 32S, 68C
Centroid Location:
Origin Time 14:25:42.5 0.3
Lat 45.66N 0.03 Lon 141.94E 0.03
Dep 314.4 1.7 Half-duration 1.4
Moment Tensor; Scale 10**17 Nm
Mrr=0.03 0.05 Mtt=1.48 0.07
Mff=-1.51 0.06 Mrt=1.49 0.08
Mrf=-1.92 0.07 Mtf=-0.23 0.07
Principal Axes:
T Val=2.81 Plg=37 Azm=23
N 0.10 32 141
P -2.91 37 258
Best Double Couple: Mo=2.9*10**17
NP1: Strike=50 Dip=32 Slip=179
NP2: 141 90 58
YSS 1.41 22 iPn- 26 23.30 0.8
e 26 54.60
ASAJ 1.67 162 iP+ 26 25.10 1.0
eS 27 01.20
SAP 2.69 190 iP 26 33.80 1.3
iS 27 15.50
KUSJ 3.28 142 iPd 26 37.10 -1.2
eS 27 23.50
MRRJ 3.34 191 iP+ 26 39.40 0.5
eS 27 26.40
HOJ 3.46 163 iP+ 26 38.70 -1.4
eS 27 25.30
SHO 3.92 116 iPd 26 43.00 -2.0
iS 27 33.50
KUR 4.20 94 iPd 26 46.00 -2.0
iS 27 44.00
AOMJ 5.27 193 iP+ 26 59.10 -1.2
S 28 01.90
OFUJ 6.63 182 iP+ 27 14.40 -2.1
eS 28 27.80
VLA 7.64 254 iPd 27 30.00 1.2
iS 28 54.00
YAMJ 7.66 191 P 27 27.30 -1.8
eS 28 52.10
OKH 7.88 4 iPnc 27 32.60 1.0
NIIJ 8.74 196 P 27 40.70 -1.6
MDJ 8.79 267 Pd 27 44.60 1.7
S 29 23.00
ScP 36 39.70
ScS 40 14.00
MAT 9.58 198 iPc 27 50.90 -1.8
1.0s 570.00nm 5.6mb
eS 29 31.00
KAKJ 9.59 189 P 27 49.30 -3.4X
S 29 30.70
MTMJ 9.63 200 P 27 52.30 -1.1
CHJJ 9.90 194 P 27 54.00 -2.7
IIDJ 10.66 198 P 28 04.00 -2.1
S 29 58.60
SKR 10.67 57 iPd 28 07.00 0.9
iS 30 04.60
TSRJ 11.12 206 P 28 10.60 -0.9
CN2 11.88 267 iPd 28 20.40 -0.4
0.8s 530.00nm 5.8mb
eS 29 32.00
S 30 28.00
ScP 36 42.00
ScS 40 17.00
YONJ 12.32 214 P 28 25.30 -1.0
WKYJ 12.46 205 P 28 25.80 -2.1
PET 13.10 50 iPd 28 34.00 -1.5
Z 20s 3.60um
eS 30 56.00
TKSJ 13.18 210 P 28 34.40 -2.2
SHK 13.21 216 iP 28 38.00 1.0
0.5s 197.18nm 5.7mb
SNY 13.82 260 iPd 28 45.00 0.7
1.4s 2310.00nm 6.3mb
iS 31 14.00
SHNJ 14.23 219 P 28 49.30 0.1
eS 31 23.50
MGD 15.35 17 iP 29 00.00 -1.8
1.0s 2820.00nm 6.6mb X
Z 12s 1.60um 4.8msz
N 12s 1.30um
E 12s 1.20um
iS 31 47.00

KUMJ	15.71	217	P	29 05.10	-0.7	OZH	27.96	230	Pd	31 04.00	0.4		e	34 00.00	
			eS	31 53.00			1.5s	600.00nm			5.9mb		i	34 35.80	
DL2	16.47	253	iPc	29 13.60	-0.3			S	35 30.00				eS	37 46.80	
	1.0s	710.00nm		6.0mb		ILT	30.07	29 iPc+	31 17.70	-4.0X		e	42 00.00		
			sP	30 36.00			1.2s	620.00nm			6.0mb			32 29.00	0.1
			iS	32 09.00				i	34 15.00						5.6mb
KAGJ	16.86	214	P	29 17.30	-0.8			iS	35 49.00			WMO	37.94	287 iPd	
			eS	32 16.90				i	37 26.80				0.7s	190.00nm	
YAK	17.80	341	iPc+	29 26.00	-1.5	LZH	30.11	265 iPd	31 23.20	0.6		Z	12s	1.12um	4.9MsZx
	1.7s	1165.00nm		6.0mb			1.5s	1160.00nm			6.2mb	N	10s	0.87um	
			iS	32 32.00			Z	12s	0.80um		4.6MsZx			pP	33 31.00 310km
SEY	18.23	15	iPc	29 32.50	0.6			pP	32 26.00	330kMx				PP	34 08.00
	1.0s	1500.00nm		6.3mb				PP	32 36.00					PcP	34 38.00
			iS	32 46.00				PcP	34 16.00					ScP	37 54.00
CIT	19.60	299	eP	29 44.00	-1.7			S	35 57.50			TTA	38.31	41 iPc	32 30.41 -1.3
			e	33 09.00				ScP	37 29.00				1.0s	83.43nm	5.1mb
BJI	19.67	262	Pd	29 46.00	-0.4			sS	37 45.00					i	32 44.74
	0.8s	620.00nm		6.0mb				PcS	37 59.50			BRW	38.39	27 iPd	32 30.65 -1.4
			esP	31 10.00				SS	38 02.00					ePP	34 08.81
			eS	33 10.00		GTA	31.38	274 iPc	31 34.00	0.4				ePcP	34 39.21
BOD	20.86	316	iPd	29 57.20	-0.7		1.0s	330.00nm			5.8mb	SVW	38.64	44 iPc	32 34.17 -0.2
	1.3s	260.00nm		5.4mb			Z	12s	1.50um		4.9MsZx		1.0s	165.45nm	5.3mb
TIA	20.93	252	Pd	29 59.60	0.8			pCUP	34 19.00					ePcP	34 40.87
	1.0s	220.00nm		5.4mb				S	36 18.00					eScP	37 58.36
			sP	31 28.50				ScP	37 33.00			IMA	39.20	36 iPc	32 37.39 -1.6
			S	33 35.00				SS	38 28.00				0.9s	263.46nm	5.6mb
			ScP	37 01.80				ScS	41 30.00					iScP	38 00.50
SSE	21.76	235	iPd	30 07.80	1.0	UER	31.69	298 iPc	31 35.20	-0.8		BGL	40.17	43 iPc	32 46.53 -0.4
	1.5s	900.00nm		5.9mb			1.0s	68.00nm			5.1mb			iPcP	34 44.54
	Z	20s	1.40um	4.4MsZ				e	32 57.60					iScP	38 03.37
	N	11s	0.70um			GUMO	32.11	175 eP	31 39.90	0.0		CP2	40.24	43 iPc	32 47.56 -0.1
	E	10s	0.70um				0.9s	124.20nm			5.4mb	CRP	40.28	43 iPc	32 47.40 -0.6
			sP	31 40.00				(pP)	33 00.70	446kMx				eScP	38 03.25
			S	33 46.00		PJG	32.11	175 eP	31 40.30	0.4		KDC	40.75	48 iPc	32 50.18 -1.3
SMY	22.02	60	eP	30 09.28	0.2			eP	31 40.30	-0.1					

09d 14h

KKN	47.77	268	Pd	33	48.20	0.4	DPW	63.47	48	iPc	35	38.29	-0.2	FRI	69.76	58	iPc	36	17.84	0.0
PKI	47.81	268	Pd	33	48.60	0.3	VGB	63.59	51	iPc	35	39.59	0.3	PRI	69.76	59	iPc	36	18.58	0.6
DMN	48.00	268	Pd	33	50.20	0.6	NEW	63.77	47	iPd	35	39.93	-0.5	PTI	69.86	49	eP	36	19.27	0.7
GKN	48.09	269	Pd	33	50.60	0.4		0.9s	184.68nm			5.8mb					epP	37	29.04	305km
NNT	48.60	241	iPd	33	54.40	0.4	BAK	63.81	302	iPc	35	34.00	-6.6X	BONR	69.94	56	iPc	36	19.78	0.5
SVE	49.15	314	iPc	33	57.00	-0.6			iS	43	55.00		MRCM	70.01	56	iPc	36	20.22	0.6	
	0.8s	200.00nm			5.5mb		GRO	64.39	306	iPd	35	44.50	0.2	BSD	70.03	331	iPc	36	17.80	-1.3
Z	12s	1.00um			5.0mszX			1.0s	160.00nm			5.7mb			0.7s	36.00nm			5.2mb	
N	12s	0.50um							iS	43	58.00		PHAM	70.13	59	eP	36	20.28	0.2	
E	12s	0.60um					SHE	64.40	303	iPc	35	45.00	0.6	PKEM	70.15	59	iPc	36	21.37	1.2
		e	35	00.00				0.8s	200.00nm			5.9mb	MTUM	70.19	57	iPc	36	21.03	0.4	
		e	35	56.10					iS	43	57.00		COP	70.39	332	iPc	36	20.80	-0.4	
		iS	40	35.00			ARC	64.65	57	ePc	35	46.90	0.9		0.8s	80.60nm			5.5mb	
		e	43	13.00				1.3s	400.00nm			6.0mb	HVU	70.40	50	iPc	36	22.31	0.5	
SIT	49.76	45	iPc	34	03.06	0.8		64.73	57	iPc	35	47.56	1.1	TNP	70.48	55	iPc	36	22.85	0.5
	1.0s	404.39nm			5.7mb		EKR	64.75	57	iPc	35	47.91	1.2		0.8s	120.58nm			5.7mb	
PCI	50.36	209	ePd	34	07.00	-0.2	FHC	64.91	57	iPc	35	48.72	0.8				epP	37	32.40	304km
LAT	52.33	174	eP	34	22.20	0.4	KMPM	64.92	57	iPc	35	49.03	1.2	KIS	70.59	318	eP	36	22.00	-0.5
SNG	52.36	236	eP	34	23.50	1.5	FOX	65.36	42	iPc	35	50.00	-0.5				iS	45	09.00	
	1.5s	433.33nm			5.6mb		SES	0.8s	218.00nm			5.9mb	BCH	70.76	59	iPc	36	24.38	0.4	
		eS	41	25.00			UPP	65.38	333	iP	35	48.30	-2.1	MUD	70.77	334	iPc	36	22.50	-1.0
NDI	52.87	275	iPd	34	25.50	-0.3			i	36	18.30			0.7s	16.00nm			4.9mb		
	0.5s	302.82nm			6.0mb		PYA	65.41	308	iP	35	50.00	-0.9	DZM	71.04	156	iPd	36	27.10	1.5
		eS	41	28.00				1.0s	100.00nm			5.5mb	ISA	71.39	58	iPc	36	26.84	-0.8	
OPA	54.02	95	ePc	34	34.30	0.2			i	36	20.00			0.7s	98.06nm			5.6mb		
RES	54.13	16	ePc	34	33.20	-1.1			eS	44	09.00		BW06	71.40	47	iPc	36	27.16	-0.6	
	1.0s	121.00nm			5.3mb		LBFM	65.62	55	iPc	35	52.95	0.4		0.9s	173.33nm			5.8mb	
HON	54.27	96	P	34	50.00	14.1X	KIV	65.66	309	P	35	52.60	0.0				epP	37	36.67	303km
	19s	0.24um			4.3msz			1.0s	274.00nm			5.9mb	DUG	71.49	51	iPc	36	28.79	0.5	
SLKI	54.29	193	iPc	34	37.00	1.0		Z	15s	0.40um		4.7mszX			1.0s	127.06nm			5.6mb	
APA	55.05	334	iPc	34	38.40	-2.6			S	44	13.20		TPNV	71.81	56	eP	36	30.59	0.4	
PMG	55.06	174	eP	34	41.00	-0.6	WB2	65.70	188	eP	35	51.50	-1.3		0.8s	310.44nm			6.1mb	
KGM	55.11	230	ePd	34	42.90	0.9		0.7s	35.60nm			5.2mb	ULM	72.10	35	iPc	36	33.60	2.2	
	1.0s	243.80nm			5.6mb				i	36	21.40		OJC	72.10	325	iP	36	31.00	-0.5	
KEV	55.53	337	iP	34	43.00	-1.4	WRA	65.70	188	P	35	52.20	-0.6		0.8s	131.00nm			5.7mb	
	0.6s	28.70nm			4.9mb			1.0s	13.00nm			4.6mb					i	36	37.50	
YKA	56.21	33	eP	34	47.70	-1.5	WDC	65.74	56	iPc	35	53.21	0.2				i	36	53.10	
	0.6s	87.30nm			5.4mb			1.0s	120.95nm			5.6mb	RMQ	72.12	174	iPd	36	32.40	0.7	
KKH	56.76	96	eP	34	53.75	0.2	MTA	65.94	306	iPd	35	54.40	0.2		0.8s	68.00nm			5.4mb	
DAG	57.18	355	ePd	34	54.00	-1.9		1.0s	520.00nm			6.2mb	DAU	72.18	50	iPc	36	33.03	0.5	
	1.0s	73.00nm			5.1mb				eS	44	17.00					epP	37	43.39	307km	
		eS	39	14.20			FCC	66.12	28	iPc	35	56.90	1.8	KAS	72.22	311	iPd	36	32.80	0.4
SDF	57.22	336	iP	34	54.40	-1.9	LMEM	66.33	56	eP	35	57.14	0.2	UZH	72.30	323	ePc	36	31.00	-1.6
QUE	59.06	283	iPd	35	08.80	-0.8	NB2	66.38	336	P	35	54.80	-2.0		0.9s	23.00nm			4.9mb	
	1.3s	160.58nm			5.4mb			0.9s	63.90nm			5.4mb	VRI	72.43	318	eP	36	32.50	-0.9	
MTN	59.09	192	eP	35	09.00	-0.5	HFS	66.39	335	eP	35	54.50	-2.3	GSC	72.63	57	iPc	36	35.36	0.5
	1.0s	275.00nm			5.7mb			0.4s	44.10nm			5.5mb	CVO	72.72	319	ePc	36	36.00	0.8	
HYB	59.21	264	iPd	35	09.60	-0.9	MIN	66.43	56	iPc	35	57.28	-0.3	SPC	72.73	324	eP	36	35.30	0.0
	0.7s	192.90nm			5.7mb		GRS	66.48	303	iPd	35	58.00	0.1	ARUT	72.83	53	iPc	36	36.53	0.4
		eS	42	53.00				1.2s	140.00nm			5.6mb	EMUT	72.84	50	iPc	36	36.75	0.5	
ASH	60.08	295	iPc	35	16.50	0.3			iS	44	24.00		SSK	72.86	59	ePc	36	36.32	0.0	
	1.1s	430.00nm			5.9mb		ORV	67.01	57	iPc	36	00.66	-0.3	WARB	72.89	194	iPd	36	37.00	0.8
		e	35	56.00			NTYM	67.08	58	eP	36	01.14	-0.3		0.3s	11.00nm			5.1mb	
		eS	43	06.00			TAB	67.42	302	eP	36	05.00	1.3	KSP	72.97	327	iPd	36	36.30	-0.2
		ePS	43	26.00			SOC	67.52	310	eP	36	04.00	-0.1		0.9s	36.00nm			5.1mb	
		e	44	38.00			ZSP	67.62	58	iPc	36	04.97	0.3				e	37	48.80	
PGC	60.22	50	ePc	35	16.50	-0.5	BKS	67.67	58	iPc	36	05.23	0.1				e	38	58.00	
	0.8s	67.00nm			5.2mb			1.1s	200.00nm			5.8mb	MSU	73.03	52	iPc	36	38.21	0.9	
MAIO	60.33	293	iPd	35	18.00	-0.1	HMR	67.75	58	eP	36	06.26	0.7				epP	37	48.57	307km
	0.9s	40.07nm			4.9mb		PCC	67.83	59	eP	36	05.54	-0.5	ISR	73.06	318	eP	36	38.00	0.8
		eS	43	10.00			ANN	67.92	312	iPc	36	05.50	-1.0	MLR	73.08	319	ePc	36	38.00	0.6
MCW	60.53	49	eP	35	19.06	-0.1		0.3s	30.00nm			5.5mb	RSSD	73.17	43	iPd	36	37.10	-1.0	
KAT	60.65	297	iP	35	20.50	0.5			eS	44	39.00			1.2s	254.67nm			5.8mb		
		iS	43	13.50			LCCM	68.06	46	iPc	36	07.60	0.0	Z	19s	0.17um			4.3msz	
KAF	60.85	331	iP	35	18.90	-2.1	GCC	68.37	59	iPc	36	09.38	0.0				epP	37	47.50	307km
PUL	61.01	327	eP	35	20.00	-2.1	MHC	68.38	58	iPc	36	09.57	0.0				ePP	39	24.86	
		eS	43	12.00				1.7s	250.00nm			5.7mb					S	45	37.59	
GMW	61.24	50	iPc	35	24.07	0.2	COE	68.42	59	iPc	36	10.10	0.4	PEC	73.40	58	eP	36	38.23	-1.1
		epP	36	31.71	304km		ARN	68.44	58	iPc	36	09.98	0.1		1.0s	103.96nm			5.5mb	
OBN	61.49	321	iPd	35	23.00	-2.3	CMB	68.66	57	iPc	36	11.44	0.2	BRS	73.42	170	iPc	36	40.50	1.3
	1.1s	100.00nm			5.3mb			1.1s	230.00nm			5.8mb		1.0s	10.00nm			4.5mb	X	
		e	36	02.00					i	44	56.69		SRU	73.50	51	iPc	36	40.27	0.2	
		eS	43	16.00			SAO	68.88	59	ePc	36	12.39	-0.1				epP	37	50.97	308km
		eS	44	41.00				1.5s	160.00nm			5.5mb	CLL	73.80	329	iPd	36	40.00	-1.2	
BMW	61.65	51	iPc	35	26.93	0.3	PRS	69.21	59	iPc	36	14.70	0.2		0.9s	78.00nm			5.4mb	
POO	61.74	268	iPd	35	27.00	-0.5	LLA	69.28	59	iPc	36	15.25	0.3	BRG	73.82	329	iPd	36	41.00	-0.3
RMW	61.82	50	iPc	35	27.90	0.1	KVN	69.31	55	iPc	36	16.09	0.7		1.2s	32.00nm			4.9mb	
		epP	36	36.04	306km				epP	37	25.44	304km					i	36	55.40	
BOM	62.22	269	eP	35	30.40	-0.2	ASPA	69.43	188	iPd	36	16.10	0.3	KPL	73.82	342	iPc	36	41.10	-0.1
		e(S)	43	30.40				1.2s	129.90nm			5.5mb	KSB	73.89						

ELO	2.7s	916.00nm	36	42.90	-0.5	6.0mb	LJU	77.56	325	eP	37	02.00	-0.3		1.0s	41.60nm	37	17.20	-0.1	5.2mb	
	74.19	341 ePc	36	42.90	-0.5		RBL	77.61	326	P	37	00.50	-2.2		80.37	333 iPc	37	17.20	-0.1		
PRU	1.2s	36.00nm				5.0mb	WATA	77.62	328	iPd	37	02.90	0.1		1.0s	106.80nm				5.6mb	
	74.32	328 iPd	36	44.30	0.1		ELL	77.65	310	iP	37	03.30	0.2		EMS	80.38	330	P	37	17.84	0.3
	0.8s	22.60nm				5.0mb	DOU	77.65	333	P	37	02.20	-0.5		JLP	80.38	337	ePc	37	17.40	0.2
ESY	74.44	340 ePc	36	44.30	-0.5		PRK	77.65	314	eP	37	03.00	0.1		SFI	80.38	326	Pc	37	18.70	1.4
EAB	74.59	341 ePc	36	45.40	-0.3		WTTA	77.66	328	iPc	37	03.20	0.1		ORX	80.38	329	P	37	17.37	-0.1
	1.0s	31.00nm				5.0mb		1.1s	127.00nm				5.6mb	ORO	80.39	329	P	37	17.50	0.0	
SRO	74.60	324 iP	36	46.70	0.8		PPCY	77.70	308	eP	37	03.00	-0.2		LDF	80.41	336	iPc	37	17.30	-0.1
WIT	74.64	334 eP	36	47.00	1.0		VBV	77.71	325	ePc	37	03.00	-0.1		KEK	80.42	319	eP	37	17.90	0.3
EBL	74.67	340 eP	36	45.50	-0.6									JVM	80.43	337	eP	37	18.60	1.1	
PV09	74.70	50 iPc	36	47.35	0.4		DLF	77.75	341	iPc	37	03.50	0.3		JSA	80.45	337	eP	37	17.70	0.1
ZST	74.79	325 iP	36	47.10	0.2		FVI	77.79	327	P	37	03.40	-0.1		PGD	80.47	326	P	37	19.37	1.3
		e	38	06.60			MOTA	77.79	328	iPd	37	03.80	0.1			1.0s	287.60nm			6.1mb	
PV10	74.84	50 iPc	36	48.54	0.8			1.0s	96.90nm				5.5mb	LBF	80.58	332	iPc	37	18.30	-0.1	
		(pP)	38	00.32	312km		KNT	77.82	318	iP	37	03.80	0.0			1.0s	79.00nm			5.5mb	
MOX	74.84	330 eP	36	46.80	-0.4		VOY	77.82	326	iPc	37	03.20	-0.6		BOB	80.59	328	P	37	18.80	0.3
	2.0s	84.00nm				5.1mb								CRE	80.59	326	P	37	19.30	0.7	
		e	36	54.00			CEY	77.85	325	eP	37	03.40	-0.5		BRT	80.66	321	P	37	19.26	0.4
		e	38	34.00			VAY	77.85	318	iPd	37	04.40	0.4			1.2s	174.50nm			5.8mb	
		e	39	20.00				0.9s	164.00nm				5.8mb	SSF	80.66	333	iPc	37	18.90	0.1	
		eS	45	55.00			SQTA	77.86	328	iPc	37	04.10	0.0			0.8s	45.55nm			5.4mb	
PV08	74.90	50 iPc	36	48.37	0.2			1.1s	105.00nm				5.5mb	FIR	80.73	326	eP	37	21.00	1.8	
HOF	75.03	329 iPc	36	48.20	-0.1		SKO	77.87	319	iP	37	04.50	0.4			iS	47	03.00			
	0.8s	23.00nm				5.0mb		0.8s	127.00nm				5.7mb	BDI	80.75	327	P	37	19.40	0.0	
EKA	75.10	340 Pc	36	48.20	-0.4									LCI	80.76	328	P	37	19.10	-0.3	
	0.7s	9.60nm				4.6mb								ASS	80.77	325	P	37	19.00	0.3	
WTS	75.30	333 ePc	36	49.50	-0.2		SOH	77.87	317	eP	37	03.72	-0.4		GRR	80.80	336	iPc	37	19.00	0.3
	0.9s	41.50nm				5.2mb	DCN	77.88	342	iPc	37	04.10	0.2			1.0s	66.80nm			5.4mb	
GLA	75.37	58 iPd	36	51.23	0.7			0.7s	117.00nm				5.7mb	LSD	80.83	330	P	37	20.30	0.4	
		eP	38	02.04	307km		OUR	77.94	316	eP	37	04.48	0.0		CAN	80.91	174	eP	37	21.50	1.5
KHC	75.39	328 P	36	50.50	0.2		TRI	78.14	326	eP	37	05.50	0.1		SMF	80.92	332	iPc	37	20.40	0.3
	0.9s	17.00nm				4.8mb	RIY	78.19	325	eP	37	05.20	-0.5			1.0s	162.00nm			5.8mb	
		e	36	56.50			MRWA	78.21	203	iPd	37	06.20	0.3		LPL	80.93	330	iPc	37	21.10	0.7
		e	37	43.40			GRG	78.22	318	eP	37	05.68	-0.3			0.9s	94.00nm			5.4mb	
		e	38	04.00			OGA	78.22	328	iPc	37	06.90	0.8		LPG	80.94	330	iPc	37	21.10	0.6
		S	46	00.00				0.8s	18.00nm				4.9mb		0.9s	95.65nm			5.4mb		
SOP	75.42	325 eP	36	51.00	0.6		CDF	78.24	331	iPc	37	06.00	-0.1		AVF	80.95	333	iPc	37	20.10	0.4
UZD	75.47	323 eP	36	50.00	-0.7			1.2s	74.40nm				5.3mb		1.0s	136.40nm			5.1mb		
GEC2	75.57	328 Pd	36	51.00	-0.5		ETA	78.24	341	eP	37	06.30	0.5		RSP	81.06	329	P	37	20.10	0.7
	0.8s	7.98nm				4.5mb X	TUC	78.27	56	iPc	37	07.33	0.8		AQU	81.07	324	P	37	21.00	0.0
		e	36	52.50				1.6s	218.01nm				5.7mb	PII	81.07	327	Pc	37	20.40	-0.4	
		e	36	57.30										PCP	81.11	328	P	37	20.40	-0.4	
		PcP	37	00.20			SLE	78.37	330	P	37	06.42	-0.3		LPF	81.18	336	iPc	37	21.00	0.4
		e	39	32.60			DSI	78.39	303	iPd	37	07.90	0.8		EEO	81.21	27	ePc	37	23.00	0.0
		PP	39	41.90			PAIG	78.41	316	eP	37	06.60	-0.4		ACO	81.25	45	iPd	37	23.00	-0.2
WET	75.63	328 eP	36	51.70	0.0		VVI	78.43	327	P	37	06.80	-0.3		VLS	81.27	317	eP	37	23.00	-0.3
GRF	75.78	329 iPd	36	52.90	0.5			0.9s	43.10nm				5.2mb	VLI	81.27	315	eP	37	20.00	-0.2	
	0.9s	62.00nm				5.3mb	COOL	78.53	198	eP	37	07.70	0.1		CKI	81.31	328	Pc	37	21.00	-0.4
		e(pP)	38	03.90	308km		ZLA	78.65	330	P	37	08.42	0.2		BGF	81.32	333	eP	37	22.50	0.3
GOL	75.80	47 iPd	36	53.49	0.4		CTI	78.67	327	P	37	07.60	-0.9			0.8s	34.00nm			5.2mb	
	1.2s	128.18nm				5.5mb	ECB	78.68	341	eP	37	08.40	0.2		BHB	81.32	329	P	37	19.00	-0.3
Z	19s	0.28um				4.6MsZ	OSS	78.70	328	P	37	09.06	0.4		BNI	81.35	330	Pc	37	23.10	0.5
		eP	38	04.39	307km		ECP	78.75	341	eP	37	08.60	0.0		RRL	81.42	330	P	37	23.00	0.0
GLD	75.84	47 iPc	36	54.36	1.2			0.7s	165.00nm				6.0mb	SDI	81.43	323	P	37	22.90	-0.1	
	1.6s	402.18nm				5.9mb	ALO	78.77	51	iPc	37	10.15	0.9		FIN	81.52	328	P	37	22.40	-0.9
RYD	76.26	291 iPd	36	55.30	-0.3			1.2s	198.00nm				5.8mb	ROB	81.57	329	P	37	23.04	-0.6	
ARMA	76.28	171 iPc	36	56.80	1.4		FNA	78.83	318	iP	37	09.04	-0.3		DOI	81.62	329	P	37	22.50	-1.4
	0.7s	16.00nm				4.9mb	OHR	78.84	319	iPd	37	09.30	-0.1		ORI	81.65	321	P	37	25.26	1.2
TNS	76.29	331 ePc	36	56.00	0.7			0.8s	169.00nm				5.9mb	PZZ	81.67	329	P	37	22.81	-1.4	
MJMA	76.33	293 iPd	36	55.00	-0.9		LIT	78.84	317	eP	37	08.64	-0.7		RFI	81.70	323	P	37	25.84	1.6
ALN	76.51	315 eP	36	56.88	0.3		BSF	78.90	331	iPc	37	09.30	-0.4			0.7s	80.60nm			5.7mb	
BHL	76.54	305 P	36	57.00	-0.1			1.0s	32.40nm				5.1mb	MAF	81.71	333	iPc	37	25.10	0.9	
RDO	76.57	316 eP	36	57.50	0.6		HAU	78.90	331	iPc	37	09.40	-0.1			0.9s	183.45nm			5.9mb	
ENN	76.65	333 ePc	36	57.00	-0.1			0.9s	41.45nm				5.3mb	SGO	81.75	322	P	37	24.50	0.0	
	0.6s	21.40nm				5.1mb	AFIF	78.92	293	iPd	37	12.60	2.5		TCF	81.76	333	iPc	37	25.10	0.5
FAM	76.69	307 eP	36	58.00	0.3		LLS	78.96	329	P	37	10.31	0.2			1.1s	70.55nm			5.4mb	
BHG	76.81	327 iPc	36	59.10	0.9		KZN	79.02	318	eP	37	10.00	-0.4		ENR	81.80	329	P	37	23.04	-1.8
CMS	76.91	177 iPc	37	00.00	1.3		HVAR	79.11	323	iPc	37	09.40	-1.3		STV	81.82	329	P	37	23.04	-1.9
	1.1s	35.00nm				5.0mb	VDL	79.11	329	P	37	11.42	0.5		RDP	81.84	324	P	37	25.34	0.2
HRI	76.95	304 iPd	36	59.90	0.6		BAL	79.33	202	iPd	37	12.30	0.4			0.6s	79.10nm			5.7mb	
FUR	77.04	329 eP	37	00.00	0.6		SAL	79.47	328	P	37	12.80	0.3		IMI	81.90	328	P	37	25.01	-0.3
	1.2s	87.00nm				5.4mb	MDI	79.63	328	P	37	12.80	-0.5		MGR	81.98	321	Pc	37	25.30	-0.5
CSS	77.09	307 eP	37	00.00	0.0		TMA	79.66	329	P	37	13.72	0.0		LSF	82.01	333	iPc	37	26.30	0.5
PTJ	77.10	325 eP	37	00.10	0.2		AGG	79.76	317	eP	37	12.60	-1.7			1.0s	151.60nm			5.8mb	
KBA	77.17	327 iPc	37	01.00	0.6		BWA	79.98	175	eP	37	17.50	2.3		TDS	82.03	321				

09d 14h

OCO	83.00	45	iPp	37	32.40	1.4	NVL	145.36	206	ePKP	44	40.00	-0.2	FCC	0.8s	2.47nm	4.0mb				
CAF	83.02	333	iPc	37	32.00	1.0		1.0s	47.00nm		45	33.00		CN2	40.84	50	eP	51	17.50	4.5X	
	0.9s	111.40nm			5.7mb						47	50.00			42.88	285	eP	51	29.60	-0.4	
MEO	83.03	46	iPd	37	31.70	0.5	YJA	147.58	53	ePKPc	44	47.20	1.3	BTO	0.8s	2.90nm	4.1mb				
FNO	83.25	45	iPd	37	33.10	0.8	BAO	148.88	19	ePKP	44	48.00	0.4	TIY	53.81	291	eP	52	55.00	0.0	
DHJN	83.28	288	iPd	37	34.40	1.4					44	52.40		LZH	54.36	287	eP	52	59.20	0.2	
KMTA	83.34	289	iPd	37	34.80	1.6						44	57.50			60.43	292	eP	53	41.50	-0.5
ABHA	83.35	289	ePd	37	35.70	2.4	FSA	150.30	58	ePKPd	44	51.50	2.2X		Z	1.4s	16.00nm	5.0mb			
LFF	83.43	333	iPc	37	34.20	1.2						44	56.50			18s	0.25um	4.4Msz			
	0.8s	99.15nm			5.7mb		RTCB	152.29	70	ePKP	45	00.00	7.7X	WMO	63.32	308	eP	54	00.00	-1.2	
SOI	83.46	320	P	37	33.70	0.5	RTLL	152.41	69	ePKP	44	59.70	7.3X	CD2	64.23	288	eP	54	07.50	0.3	
GMB	83.46	320	P	37	33.54	0.1	RFA	154.49	75	ePKPd	44	55.20	0.0	KAF	64.94	352	iP	54	11.10	-0.2	
	0.8s	50.90nm			5.4mb						45	20.70		GYA	65.81	282	iPd	54	17.20	-0.4	
LPO	83.52	333	iPc	37	34.50	1.0	TCA	154.91	64	ePKP	44	56.10	0.3		1.0s	12.00nm	4.9mb				
	0.7s	62.60nm			5.6mb			S.D. = 0.9	on 471 of 487 obs.									54	28.40	37kmX	
CBM	84.03	20	iPc	37	35.92	-0.1								NB2	66.69	360	P	54	22.40	-0.2	
	1.1s	271.91nm			6.0mb		%	FEB 09, 1993 14h 32m 59.95±2.23s					HFS	67.57	358	eP	54	27.30	-0.8		
FVM	Z	19s	0.17um		4.4Msz			38.075 N ±32.6km 14.164 E ±12.5km							0.4s	2.80nm	4.7mb				
	84.31	39	iPc	37	37.65	0.1		DEPTH = 10.0km (geophysicist)					KMI	69.14	284	Pd	54	38.00	-0.6		
	0.8s	75.93nm			5.6mb		SICILY		(398)						1.4s	30.00nm	5.2mb				
RSNY	84.50	25	eP	37	38.27	-0.1												54	48.50	34kmX	
	0.7s	41.21nm			5.4mb		GIB	0.14	232	P	33	01.90	-1.4	GUN	76.54	298	P	55	22.00	-0.3	
MEU	84.76	320	P	37	40.74	0.8									0.6s	15.00nm	5.2mb				
	0.9s	109.30nm			5.7mb		MNO	0.44	109	P	33	08.40	-0.6	KKN	76.96	299	P	55	24.40	-0.1	
ETER	85.09	331	iPc	37	42.13	0.8								PKI	77.06	298	P	55	25.20	0.0	
ELC	85.42	39	iPc	37	43.45	0.4	MCT	0.61	224	P	33	13.60	1.2	GKN	77.13	299	P	55	25.20	-0.2	
MIAR	85.69	43	iPc	37	44.97	0.6								DMN	77.20	299	P	55	26.00	0.2	
	0.8s	142.19nm			5.9mb		ATN	1.03	85	P	33	19.30	-0.1	GEC2	78.88	358	P	55	35.10	0.6	
LMN	85.82	18	ePc	37	49.30	4.4X									0.9s	1.43nm	3.9mb				
OLY	85.89	41	iPc	37	45.47	0.1	SOI	1.49	90	P	33	27.50	0.7	LOR	80.33	5	eP	55	43.60	1.3	
		epP		38	58.63	310km			S.D. = 1.5	on 5 of 5 obs.					0.8s	5.10nm	4.6mb				
GRT	86.18	39	eP	37	47.47	0.7								SSF	80.52	5	eP	55	44.90	1.7	
EGRA	86.23	333	eP	37	47.56	0.7									0.7s	3.30nm	4.4mb				
MCWV	87.13	31	eP	37	52.12	0.9		FEB 09, 1993 14h 44m 37.07±0.32s					KBA	80.66	358	iPd	55	46.50	2.3		
	0.8s	109.92nm			5.8mb			44.516 S ±3.7km 169.840 E ±4.3km							1.0s	16.60nm	5.0mb				
EMON	87.13	338	iPc	37	51.27	0.0		DEPTH = 10.0km (geophysicist)										55	50.80		
EBR	87.21	332	eP	37	51.00	-0.6		SOUTH ISLAND, NEW ZEALAND		(162)				AVF	80.78	5	eP	55	46.00	1.4	
		e		48	04.00			ML 4.2 (WEL).							0.8s	3.35nm	4.4mb				
EROO	87.23	332	eP	37	52.14	0.4	BWZ	0.03	117	Pc	44	40.00	0.9	SMF	80.95	5	eP	55	48.10	2.6	
HRV	87.24	24	P	38	00.00	8.3X								HYB	80.96	298	eP	56	25.50	-0.6	
	Z	18s	0.13um		4.4Msz											S.D. = 1.1	on 30 of 32 obs.				
ESEL	87.32	330	iPc	37	53.05	0.9	LRCZ	0.65	212	Pc	44	49.90	-0.3								
STS	87.96	339	eP	37	54.82	-0.4	MSCZ	0.65	208	Pc	44	50.00	-0.1								
ETOR	88.03	333	eP	37	56.51	0.8	MHZ	0.68	216	Pc	44	50.30	-0.3								
ERUA	88.06	338	eP	37	55.92	0.2	LSCZ	0.69	209	Pc	44	50.60	-0.1								
ECHE	88.80	332	eP	38	00.05	0.8	SBCZ	0.69	213	Pc	44	50.60	-0.1								
NAV	88.84	33	iPc	37	59.84	0.4	MMCZ	0.70	226	Pc	44	51.00	0.0								
GBTN	88.92	36	ePc	37	59.84	0.0	CMCZ	0.75	212	Pc	44	51.80	0.0								
BLA	89.07	33	iPc	38	00.98	0.4															
	1.0s	76.09nm			5.6mb		ODZ	0.78	133	Pd	44	52.80	0.5								
TKL	89.11	36	iPc	38	01.03	0.3															
CVL	89.11	31	ePc	38	01.34	0.7	TLC	0.87	219	Pc	44	54.00	0.1	PTJ	0.21	149	iPgd	43	45.40	0.5	
		epP		39	15.03	309km	LMZ	0.90	333	P	44	55.30	1.1								
PAB	89.90	335	iPc	38	04.50	0.1	EWZ	1.24	36	Pd	45	01.40	1.3	ZAG	0.29	154	ePg	43	46.40	0.0	
EPLA	89.93	336	eP	38	04.88	0.4	MSZ	1.38	263	P	45	02.90	0.6								
EVIA	90.16	333	iPc	38	06.69	1.0															
EALH	90.52	332	ePd	38	07.77	0.6	TUZ	1.45	186	P	45	03.40	0.1	VBY	0.69	214	iPg	43	53.10	-0.9	
EBAN	91.00	334	eP	38	10.14	0.7															
LHS	91.32	34	ePc	38	11.25	0.3	BCZ	2.05	223	P	45	12.20	0.2								
ENIJ	91.58	332	eP	38	11.66	-0.5	MOZ	2.18	69	P	45	14.20	0.3								
ELUO	91.70	334	eP	38	13.46	0.8	LTZ	2.47	46	P	45	18.30	0.2								
ECOG	91.74	333	eP	38	12.93	0.0	DSZ	3.12	28	P	45	26.80	-0.4	CEY	1.02	251	ePg	44	00.00	0.3	
EHOR	91.76	335	eP	38	13.42	0.5	KHZ	3.41	53	P	45	31.00	-0.4								
EGUA	92.15	333	eP	38	14.75	0.0															
EVAL	92.42	336	eP	38	16.61	0.7	THZ	3.55	40	P	45	33.80	0.4	VOY	1.33	269	iPg	44	04.50	-0.5	
EPRU	92.55	334	eP	38	17.13	0.6	ORZ	4.19	29	P	45	42.00	-0.3								
SGS	92.57	35	eP	38	16.90	0.3	WEL	4.85	50	P	45	49.10	-2.7	TRI	1.47	256	ePg	44	07.20	0.3	
EJIF	93.09	334	eP	38	19.86	0.8															
BCAO	109.26	298	ePKPc	43	31.90	-2.3X	WRA	38.29	298	P	51	58.50	-0.9	RBL	1.59	284	P	44	09.00	0.2	
	1.0s	25.00nm						0.3s	0.40nm			3.6mb									
		id		44	04.90			S.D. = 0.8	on 23 of 23 obs.					KBA	1.97	301	iPg	44	16.50	2.2	
MTD	115.99	272	iPKPc	43	45.00	-2.1															
		i		44	51.00																
TIC	120.10	321	PKP	43	54.40	-0.5		* FEB 09, 1993 16h 43m 33.42±1.03s						FVI	2.16	285	P	44	18.60	1.8	
BUL	120.33	272	iPKPd	43	55.00	-0.3		52.616 N ±21.6km 169.488 W ±11.0km													
	1.0s	6.00nm						DEPTH = 33.0km (normal)						ZST	2.30	22	eP	44	45.70	26.8X	
		i		45	21.00			4.5mb (15 obs.) 4.4Msz (1 obs.)													
LIC	120.48	321	PKP	43	54.80	-0.8		FOX ISLANDS, ALEUTIAN ISLANDS		(9)				GEC2	3.12	334	Pn	44	29.60	-1.0	
ZOBO	141.37	50	PKP	44	29.80	-6.0X	ADK	4.48	263	eP	44	39.85	-0.9								
		i		47	42.20		SLKM	13.20	46	eP	46	39.88	-1.0								
LPB	141.59	51	PKP	44	32.00	-3.9X	KLU	15.52	46	eP	47	08.69	-2.5X	KHC	3.41	335	Pg	44	33.50	-1.2	
		e		47	42.00		IMA	15.64	24	(P)	47	11.83	-1.0								
CNCB	141.88	51	PKP	44	31.80	-4.8X	FBA	16.56	34	(P)	47	22.77	-1.5								
		i		47	43.20			0.9s	5.04nm												
CCH	143.34	49	ePKP	44	36.00	-2.8X	BALM	16.97	50	eP	47										

NORTHWESTERN BALKAN REGION (383)
ML 2.6 (VIE). 2.5 (LJU). MD 2.9 (TRI).

VBV	1.46	345	ePn	03	20.20	-0.9
			iSn	03	37.50	
PTJ	1.81	4	ePg	03	26.90	0.7
CEY	1.90	330	ePn	03	27.00	-0.5
			eSn	03	50.50	
LJU	2.14	336	eP	03	35.00	4.1X
			eSg	03	56.90	
TRI	2.16	319	ePb	03	31.00	-0.2
			eSg	03	57.10	
VOY	2.35	326	ePn	03	32.80	-1.3
			ePg	03	35.30	
			eSn	04	01.90	
ASS	2.49	247	Pc	03	35.60	-0.3
			eSn	04	04.50	
CRE	2.81	262	P	03	41.10	0.5
RBL	2.82	327	P	03	41.00	0.3
			eSn	04	17.10	
SFI	2.84	268	P	03	41.00	0.1
			eSn	04	12.50	
PGD	2.94	267	P	03	42.10	-0.3
			eSn	04	15.00	
FVI	3.27	321	P	03	49.00	2.0
KBA	3.44	331	iPg	04	00.00	10.4X
			iSg	04	37.40	

S.D. = 1.0 on 11 of 13 obs.

? FEB 09, 1993 17h 15m 40.69±1.11s
30.812 S ±11.0km 117.059 E ±14.0km
DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

BAL	0.37	304	iPd	15	47.90	-0.3
			iS	15	52.60	
KLB	0.98	143	iPd	15	59.20	-0.2
			eS	16	11.40	
MUN	1.37	212	iP	16	06.00	0.2
			eS	16	24.00	
MRWA	1.84	330	iPc	16	12.80	0.3
			eS	16	35.70	

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

? FEB 09, 1993 18h 16m 37.55±1.13s
30.808 S ±11.1km 117.071 E ±14.0km
DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

BAL	0.37	303	iPd	16	44.90	-0.3
			iS	16	49.40	
KLB	0.98	143	eP	16	56.00	-0.1
			eS	17	08.30	
MUN	1.38	212	iP	17	03.00	0.2
			iS	17	21.00	
MRWA	1.84	329	eP	17	09.70	0.3
			eS	17	32.60	

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

FEB 09, 1993 18h 25m 58.84±0.61s
23.559 N ±8.7km 108.019 E ±6.9km
DEPTH = 10.0km (geophysicist)

SOUTHEASTERN CHINA (664)

ML 4.6 (BJI).

GYA	3.14	337	Pn	26	48.00	-1.4
			Pg	26	58.40	
			Sn	27	24.20	
			Sg	27	35.60	
QIZ	4.82	159	ePn	27	11.80	-1.4
			Sg	28	33.40	
GZH	4.92	94	Pn	27	15.20	0.7
			Pg	27	33.20	
			Sn	28	09.00	
			Sg	28	38.00	
KMI	5.06	289	Pnd	27	16.50	-0.3
			Pg	27	33.50	
			Sg	28	42.50	
MCO	5.31	105	eP	27	20.90	0.8
CD2	8.24	334	eP	27	59.70	-1.7
LOE	8.50	225	eP	28	03.10	-1.8
			e	30	27.00	
WHN	8.96	38	P	28	09.50	-1.7
			Z	12s	1.20um	
			pP	28	17.00	

XAN	10.47	4	eS	29	47.50	
	E	10s	1.04um	28	28.50	-3.6X
LZH	13.00	345	eP	29	11.00	4.6X
			eS	31	36.50	
TIY	14.61	14	eP	29	23.80	-3.7X
HHC	17.50	9	P	30	07.00	2.4X
	1.4s	22.00nm				4.1mb
BJI	17.82	21	eP	30	11.50	3.1X
	1.4s	24.00nm				4.1mb
GUN	20.40	287	P	30	39.80	0.7
PKI	20.78	286	P	30	45.00	2.0
KKN	20.92	286	P	30	44.80	0.5
DMN	21.05	286	P	30	47.40	1.7
GKN	21.50	287	P	30	50.00	-0.2
CN2	24.76	31	eP	31	23.00	1.2
	1.2s	13.00nm				4.5mb
			esP	31	35.00	
YKA	87.79	18	eP	38	50.00	0.8
	0.6s	0.20nm				3.6mb

S.D. = 1.4 on 15 of 20 obs.

FEB 09, 1993 18h 49m 43.00±0.68s
45.484 N ±5.7km 9.154 E ±6.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG).

VAI	0.47	325	Pc	49	56.70	4.2X
			eSg	50	06.80	
MDI	0.49	53	P	49	54.10	1.2
			eSg	50	02.60	
BOB	0.75	164	Pc	49	55.80	-1.9
			eSg	50	05.40	
ORO	0.84	280	P	50	00.60	1.4
			eSg	50	16.90	
CKI	1.23	211	P	50	08.00	2.2
LPG	1.69	271	Pn	50	12.80	-0.2
LPL	1.70	272	Pn	50	12.40	-0.7
FEL	2.52	342	ePn	50	24.56	-0.2
BSF	2.86	326	Pn	50	29.40	-0.1
			Sn	51	03.30	
HAU	3.18	324	Pn	50	33.60	-0.4
			Sn	51	10.60	
CDF	3.20	337	Pn	50	34.10	-0.3
			Sn	51	11.90	
SMF	3.88	289	Pn	50	44.00	0.1
LBF	3.89	295	Pn	50	44.00	-0.2
			Sn	51	29.50	
LOR	4.08	298	Pn	50	46.60	-0.1
			Sn	52	34.20	
SSF	4.22	294	Pn	50	48.70	-0.1
AVF	4.24	290	Pn	50	48.50	-0.5

S.D. = 1.0 on 15 of 16 obs.

FEB 09, 1993 19h 20m 48.41±0.48s
50.365 N ±4.0km 7.352 E ±4.9km
DEPTH = 10.0km (geophysicist)

GERMANY (543)

ML 2.8 (LDG). mbLg 2.8 (UCC).
Felt (11) at Neuwied.

BGG	0.16	183	iPg	20	52.76	0.7
	0.1s	393.00nm				
			eSg	20	55.17	
KOE	0.25	76	iPg	20	53.70	0.0
			iSg	20	56.86	
STB	0.40	305	iPg	20	56.64	0.0
	0.5s	84.00nm				
			iSg	21	00.49	
ABH	0.50	165	ePg	20	58.35	-0.2
BNS	0.61	349	iPg	20	59.47	-1.2
	0.6s	145.00nm				
			iSg	21	06.63	
RUP	0.69	196	ePg	21	01.43	-0.7
KLL	0.72	293	iPg	21	02.00	-0.6
			iSg	21	11.70	
MEM	0.89	286	iP	21	17.04	11.5X
ENN	1.00	294	ePg	21	07.00	-0.3
	0.7s	12.60nm				
			eSg	21	20.00	
WLF	1.04	228	iP	21	25.00	16.9X
TOD	1.21	128	ePg	21	11.47	0.6
WTS	1.67	348	ePn	21	18.50	0.8
	0.5s	4.00nm				
			ePg	21	21.00	
			eSn	21	40.50	

DOU	1.79	262	iP	21	21.10	1.5
			iS	21	43.60	
CDF	1.96	181	Pn	21	22.10	0.0
			Pg	21	24.00	
			Sg	21	48.10	
SNF	1.97	275	iP	21	23.30	1.2
HAU	2.45	196	Pn	21	29.40	0.3
			Pg	21	33.40	
			Sg	22	04.80	
BSF	2.56	188	Pn	21	30.50	-0.3
			Pg	21	35.30	
			Sg	22	06.70	
LOR	3.86	218	Pn	21	47.30	-1.9
			Sn	22	30.10	
			Sg	22	53.50	
LBF	4.06	215	Pn	21	48.00	-3.8X
			Sn	22	33.90	
			Sg	22	57.00	
SSF	4.17	219	Pn	21	49.80	-3.7X
			Sg	22	58.20	

S.D. = 0.9 on 16 of 20 obs.

? FEB 09, 1993 19h 49m 44.53±0.76s
3.486 S ±13.2km 151.199 E ±22.9km
DEPTH = 33.0km (normal)
4.1mb (6 obs.)

NEW IRELAND REGION, P.N.G. (190)

RMQ	22.99	186	eP	54	48.10	1.1
	0.8s	19.00nm				4.6mb
DZM	23.67	143	iPc	54	51.10	-0.5
ASPA	26.11	218	eP	54	51.10	0.1
	0.9s	3.60nm				4.0mb
LZH	59.18	316	eP	54	41.00	0.1
	1.4s	16.00nm				5.0mb
			sP	54	41.00	
			ePP	54	41.00	
SVW	76.25	24	eP	54	41.00	0.0
	1.0s	0.30nm				1.0mb
IMA	79.76	20	e(P	54	41.00	0.0
	1.0s	3.70nm				4.0mb
FBA	81.27	22	eP	54	41.00	0.0
	1.0s	0.40nm				1.0mb
BALM	81.88	27	eP	54	41.00	0.0

S.D. = 1.5 on 16 of 16 obs.

* FEB 09, 1993 19h 49m 44.53±0.76s
3.786 S ±7.3km 151.301 E ±22.9km
DEPTH = 28.8km (4 geophysicist phases)
4.7mb (8 obs.)

NEW IRELAND REGION, P.N.G. (190)

CTA	16.95	197	eP	53	49.00	1.0
GUMD	18.43	340	eP	54	07.60	1.2
W82	23.09	225	eP	54	55.30	-0.4
	0.8s	16.30nm				4.6mb
WRA	23.10	225	eP	54	55.70	-0.1
	0.8s	1.70nm				3.6mb X
BRS	23.51	177	iPc	54	59.00	-0.8
			eS	59	15.00	
CN2	52.80	337	eP	59	08.10	2.0
	1.0s	4.60nm				4.4mb
BJI	54.27	327	eP	59	13.50	-3.4X
KMI	55.24	304	eP	59	25.00	0.4
	1.8s	30.00nm				5.0mb
			sP	59	36.00	
CD2	57.00	311	eP	59	35.40	-1.6
LZH	59.51	316	eP	59	53.00	-1.6
	1.4s	16.00nm				5.0mb
LSA	66.49	305	P	00	41.20	-0.1
GUN	70.38	301	P	01	06.80	1.4
	0.8s	16.00nm				5.2mb
PKI	70.69	301	P	01	07.60	0.4
KKN	70.86	301	P	01	09.00	0.9
DMN	70.96	301	P	01	08.00	-0.8
GKN	71.46	301	P	01	10.60	-1.1
WMO	74.03	318	P	01	24.50	-1.9
HYB	74.81	289	eP	01	31.50	0.2
GBA	75.33	285	P	01	40.00	5.8X
SVW	76.45	24	eP	01	39.72	-0.1
			pP	01	49.55	31km
TTA	77.36	22	eP	01	45.10	0.2
PMS	79.01	25	eP	01	53.70	-0.2
PMR	79.36	25	eP	01	55.00	-0.7
	1.0s	1.30nm				3.9mb
			pP	02	04.20	29km
IMA	79.99	20	iP	02	00.00	0.8

09d 20h

1.5s 33.50nm 5.1mb
 pP 02 08.50 27km
 sP 02 14.80
 KLU 80.68 26 eP 02 02.17 -0.7
 FBA 81.49 22 eP 02 06.50 -0.5
 BALM 82.07 27 iPc 02 09.78 -0.4
 pP 02 18.52 2Bkm
 YKA 95.20 28 eP 03 12.70 -0.3
 0.6s 0.50nm 4.1mb
 GEC2 122.45 328 PKP 08 46.90 1.4
 0.7s 0.51nm
 BAO 152.81 136 iPKPc 09 42.10 1.4
 e 09 50.90
 e 11 37.90
 S.D. = 1.0 on 28 of 30 obs.

FEB 09, 1993 20h 10m 37.88± 0.41s
 27.282 N ± 8.7km 56.028 E ± 4.9km
 DEPTH = 33.0km (normal)
 4.4mb (21 obs.)

SOUTHERN IRAN (353)

SHI 3.88 308 eP 11 39.00 2.2
 eS 12 02.00
 RYD 8.85 255 iPd 12 47.00 0.5
 eS 14 25.10
 MAIO 9.46 17 eP 12 55.00 0.0
 MJMA 9.72 264 ePd 12 58.00 -0.5
 QUE 10.01 71 eP 13 01.00 -1.7
 QASM 11.24 267 ePd 13 18.10 -1.2
 AFIF 12.01 258 ePd 13 33.30 3.5X
 eS 15 52.70
 DHJN 15.02 233 eP 14 08.00 -1.8
 eS 16 33.00
 KMTA 15.15 236 eP 14 10.70 -0.7
 AYN 17.75 280 eP 14 47.30 3.3X
 HYB 23.00 111 eP 15 41.50 0.6
 GKN 25.33 82 P 16 04.80 1.3
 DMN 25.78 83 P 16 09.60 1.7
 KKN 25.92 82 P 16 08.80 -0.3
 0.6s 15.00nm 4.8mb
 PKI 26.06 83 P 16 09.60 -0.9
 0.8s 17.00nm 4.7mb
 GUN 26.44 82 P 16 13.60 -0.4
 0.8s 13.00nm 4.6mb
 OBN 31.18 338 eP 16 59.50 3.6X
 e 17 05.00
 OHR 32.01 305 eP 17 03.50 0.1
 MGR 35.73 302 P 17 36.80 1.3
 SGO 35.98 302 P 17 39.20 1.7
 GEC2 39.02 315 P 18 02.70 -0.4
 0.4s 0.47nm 3.6mb
 e 18 06.60
 e 18 12.50
 e 18 25.30
 SFI 39.07 307 P 18 06.00 2.6
 PGD 39.15 307 P 18 06.20 1.8
 KHC 39.18 315 P 18 04.00 -0.4
 1.0s 6.10nm 4.3mb
 i 18 08.00
 e 18 15.00
 GRF 40.82 316 ePc 18 22.00 4.2X
 0.8s 11.00nm 4.6mb
 KMI 41.78 82 Pc 18 26.00 -0.3
 BCAO 42.35 244 iPc 18 32.80 2.1
 1.0s 8.00nm 4.4mb
 LPG 42.90 308 eP 18 36.50 1.2
 0.7s 4.50nm 4.3mb
 LPL 42.92 308 eP 18 36.60 1.2
 1.0s 7.80nm 4.4mb
 HFS 43.61 331 eP 18 39.10 -1.4
 0.4s 1.90nm 4.2mb
 LBF 45.01 310 eP 18 50.60 -1.4
 SMF 45.06 310 eP 18 51.40 -1.0
 0.8s 8.60nm 4.7mb
 NB2 45.12 331 P 18 51.40 -1.3
 0.9s 4.10nm 4.3mb
 SSF 45.34 310 eP 18 53.00 -1.5
 0.8s 5.10nm 4.5mb
 AVF 45.41 310 eP 18 54.40 -0.7
 0.9s 3.75nm 4.3mb
 BGF 45.73 310 eP 18 56.30 -1.4
 0.6s 3.45nm 4.5mb
 TCE 46.14 309 eP 18 59.70 -1.3
 0.9s 4.40nm 4.4mb
 CAF 46.14 307 eP 19 00.80 -0.2
 1.1s 10.00nm 4.7mb

WRA 89.14 113 P 23 33.00 1.3
 0.7s 0.90nm 4.2mb
 WB2 89.15 113 eP 23 31.90 0.2
 0.5s 4.80nm 5.1mb
 YKA 90.23 356 eP 23 34.90 -1.2
 1.1s 1.00nm 4.0mb
 ASPA 90.60 116 eP 23 38.70 0.2
 2.0s 6.30nm 4.6mb
 S.D. = 1.3 on 38 of 42 obs.

& FEB 09, 1993 20h 24m 47.09s
 34.499 N 116.527 W
 DEPTH = 8.4km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.1 (PAS), 2.8 (GS).

PEC 0.80 221 iPd 25 01.64 -1.2
 eS 25 12.61
 GSC 0.83 344 iPc 25 02.31 -1.1
 eS 25 13.87
 SSK 1.01 254 ePd 25 05.37 -1.1
 eS 25 19.04
 PLM 1.18 194 eP 25 08.57 -0.8
 eS 25 23.62
 ISA 1.97 307 ePn 25 19.12 -2.1
 eS 25 49.70
 GLA 2.02 135 ePn 25 18.84 -3.0
 ePg 25 23.60
 TPNV 2.45 5 eP 25 26.47 -1.7
 eS 26 02.38
 BCH 3.00 284 ePn 25 34.70 -1.2
 PKEM 3.32 299 (P) 25 40.14 -0.2
 9 obs. associated

& FEB 09, 1993 20h 27m 11.47s
 34.506 N 116.527 W
 DEPTH = 0.9km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.8 (PAS).

PEC 0.81 221 ePd 27 26.39 -1.2
 GSC 0.83 344 eP 27 27.22 -0.7
 SSK 1.01 253 eP 27 30.22 -1.3
 PLM 1.18 194 eP 27 33.70 -0.8
 GLA 2.03 135 (Pn) 27 43.60 -3.6
 ePg 27 49.09
 5 obs. associated

& FEB 09, 1993 20h 30m 16.26s
 55.287 N 122.995 W
 DEPTH = 10.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC-P>. ML 3.0 (PGC).

BDBC 0.98 24 Pg 30 33.90 -0.9
 Sg 30 48.00
 MUB 3.97 339 Pn 31 16.50 -2.1
 Sg 32 20.00
 MNB 4.13 137 Pn 31 20.00 -1.0
 Pg 31 31.00
 Sg 32 24.50
 3 obs. associated

* FEB 09, 1993 20h 39m 35.12± 1.93s
 28.466 N ± 13.4km 139.777 E ± 18.3km
 DEPTH = 434.3 ± 20.1 km
 3.9mb (9 obs.)

BONIN ISLANDS REGION (212)

MAT 8.16 351 iPc 41 33.20 -0.2
 0.5s 26.76nm 4.8mb
 eS 43 05.00
 GUN 47.17 283 P 47 28.60 -0.2
 0.8s 24.00nm 4.6mb
 PKI 47.65 283 P 47 33.60 1.2
 KKN 47.71 283 P 47 32.80 0.1
 DMN 47.90 283 P 47 34.00 -0.3
 GKN 48.21 283 P 47 36.40 -0.1
 WB2 48.41 187 eP 47 40.00 2.3
 0.3s 4.00nm 4.3mb
 WRA 48.41 187 P 47 40.80 3.1X
 0.4s 1.90nm 3.8mb
 ASPA 52.14 187 eP 48 02.90 -2.5
 1.5s 6.60nm 3.7mb
 YKA 71.95 28 eP 50 15.10 0.9
 0.6s 0.90nm 3.6mb
 KAF 75.31 334 iP 50 33.50 0.2

NUR 76.88 333 iP 50 42.00 0.1
 HFS 81.32 336 eP 51 04.70 -0.7
 0.3s 0.90nm 3.9mb
 NB2 81.54 337 P 51 06.40 -0.3
 0.7s 2.10nm 3.9mb
 GEC2 89.23 328 P 51 44.00 -0.4
 0.8s 0.75nm 3.6mb
 S.D. = 1.2 on 14 of 15 obs.

* FEB 09, 1993 20h 51m 46.86± 0.67s
 24.647 N ± 10.5km 68.999 E ± 10.1km
 DEPTH = 33.0km (normal)
 4.3mb (6 obs.)

INDIA-PAKISTAN BORDER REG. (712)

QUE 5.81 342 eP 53 12.90 -0.3
 eS 54 42.70
 e 55 17.20
 BOM 6.73 147 eP 53 23.60 -2.4
 eS 54 38.60
 POO 7.57 143 eP 53 39.00 1.2
 iS 55 12.00
 NDI 8.38 60 iPnc 53 52.00 3.0X
 0.6s 13.33nm 5.2mb
 eSn 55 24.00
 eS 56 15.00
 HYB 11.46 127 eP 54 32.70 1.4
 eS 56 34.50
 MAIO 14.20 327 eP 55 08.00 0.2
 GKN 14.42 73 P 55 17.40 6.7X
 DMN 14.77 75 P 55 16.80 1.4
 KKN 14.94 74 P 55 17.20 -0.5
 PKI 15.03 75 P 55 16.00 -2.9X
 GUN 15.49 74 P 55 23.00 -1.9
 KAF 47.12 334 iP 00 17.70 0.3
 0.6s 4.60nm 4.7mb
 GEC2 49.19 314 P 00 33.40 -0.4
 1.2s 1.75nm 4.0mb
 BRG 49.38 317 i(P) 00 35.70 0.6
 UPP 49.86 329 iP 00 39.00 0.4
 HFS 51.81 328 eP 00 52.80 -0.7
 0.4s 0.90nm 4.1mb
 NB2 53.25 329 P 01 03.20 -1.1
 0.6s 2.40nm 4.4mb
 YKA 93.12 2 eP 05 00.00 1.6
 0.8s 0.60nm 4.1mb
 S.D. = 1.3 on 15 of 18 obs.

FEB 09, 1993 20h 57m 13.11± 0.82s
 5.471 S ± 3.0km 152.409 E ± 4.5km
 DEPTH = 66.5 ± 7.3 km
 5.1mb (37 obs.)

NEW BRITAIN REGION, P.N.G. (192)

RAB 1.29 349 eP 57 36.00 0.4
 LAT 5.51 257 eP 58 33.40 -1.1
 PMG 6.51 233 eP 58 48.00 -0.5
 eS 59 58.00
 WWKK 8.95 281 eP 00 02.70 40.5X
 CTA 15.71 202 iPc 00 54.00 2.1
 eS 04 00.00
 TLE 19.57 269 ePd 01 40.10 1.6
 BKM 19.66 129 iPd 01 39.00 -0.5
 GUA 20.30 339 eP 01 48.20 2.0
 PJG 20.36 338 eP 01 48.20 1.4
 RMO 21.19 189 iPd 01 54.90 -0.3
 0.8s 178.00nm 5.5mb
 DZM 21.37 142 iPc 01 56.00 -1.1
 SWI 21.60 282 ePd 01 58.50 -0.8
 BRS 21.80 179 iPc 02 01.60 0.3
 1.0s 18.00nm 4.4mb
 i 02 04.00
 i 02 24.00
 eS 06 06.00
 MTN 22.24 249 eP 02 07.00 1.4
 0.4s 167.00nm 5.8mb
 WB2 22.70 229 eP 02 10.70 0.5
 1.1s 62.90nm 5.0mb
 WRA 22.71 229 P 02 11.39 1.1
 ARMA 24.83 182 eP 02 31.30 0.5
 1.0s 62.00nm 5.0mb
 ASPA 25.40 223 eP 02 36.00 -0.1
 0.7s 3.90nm 5.0mb
 Z 21s 1.00um 4.3msz
 iS 06 53.50
 CMS 26.61 193 eP 02 46.00 -1.1
 0.9s 34.00nm 4.9mb

09d 21h

STK	28.16	200	eP	03 00.20	-1.0	ILT	75.99	11	iPd	08 55.00	0.7	TPP	146.13	80	ePKP	16 50.31	3.0X
	0.9s	10.80nm			4.5mb		1.4s	25.00nm			5.0mb	TRN	146.15	79	ePKP	16 48.29	0.9
BWA	29.05	187	eP	03 09.30	0.1					09 03.00		AVE	146.55	328	iPKP	16 51.00	3.5X
CNB	29.83	185	iPd	03 16.20	-0.1	SVW	77.58	23	eP	09 04.29	0.9					17 03.00	
	1.0s	80.00nm			5.4mb		0.9s	26.84nm			5.2mb	BMA	147.66	151	ePKP	16 53.70	4.1X
CAN	29.87	186	eP	03 15.90	-0.7	TIK	78.49	353	eP	09 08.00	-0.1					16 57.40	
PLP	31.91	301	eP	03 33.00	-1.7	Z	18s	0.60um			5.0msz	TIO	148.28	325	iPKP	16 56.00	5.4X
WARB	32.10	227	eP	03 37.00	0.8					09 14.00						17 09.00	
BFD	32.82	195	iPd	03 41.30	-1.0	TTA	78.53	21	eP	09 09.30	0.6	BAO	150.88	136	ePKP	16 56.60	1.7
	0.8s	14.00nm			4.8mb	BGL	78.95	24	eP	09 11.02	0.0					17 01.30	
TAU	37.55	186	iPd	04 23.70	1.1	CRP	79.05	24	eP	09 11.17	-0.4					17 32.90	
BAG	38.26	305	eP	04 28.70	-0.4	SLKM	79.44	25	eP	09 13.04	-0.5	ANTZ	151.60	326	iPKPd	17 08.00	12.5X
	1.4s	120.93nm			5.6mb	NDI	79.73	308	eP	09 15.00	-0.7					17 17.00	
MEEK	38.49	233	eP	04 30.00	-0.7	PMS	80.10	25	eP	09 17.10	0.0						
	0.3s	15.00nm			5.4mb		0.9s	26.40nm			5.2mb						
						PMR	80.45	24	eP	09 18.45	-0.4						
COOL	38.74	225	eP	04 32.50	-0.3		1.0s	37.28nm			5.3mb						
PUZ	40.07	148	P	04 44.00	0.4	Z	18s	0.74um			5.1msz						
						IMA	81.21	19	eP	09 23.27	0.3						
							1.4s	15.51nm			4.8mb						
TCW	40.61	154	eP	04 48.20	0.2	KLU	81.75	25	eP	09 26.36	0.6						
MNG	40.66	153	P	04 48.10	-0.3	PRZ	82.00	314	eP	09 29.00	1.4						
MRW	40.81	154	eP	04 50.90	1.3		1.3s	70.00nm			5.5mb						
CAW	40.87	154	eP	04 50.00	-0.1	FBA	82.65	22	ePc	09 29.74	-0.6						
MTW	41.10	153	eP	04 51.60	-0.4		0.8s	18.20nm			5.1mb						
MOW	41.20	154	eP	04 52.30	-0.6					09 43.36							
BLW	41.26	153	eP	04 52.70	-0.6	KSH	83.06	311	P	09 35.30	2.2						
MRWA	41.73	231	eP	04 57.00	-0.3	Z	14s	0.83um			5.3msz						
MAT	43.86	343	(P)	05 14.00	-0.6	E	12s	0.47um									
	1.2s	15.63nm			4.7mb	BALM	83.10	26	eP	09 32.70	-0.1						
SSE	47.03	323	Pc	05 40.00	0.2	FRU	84.80	314	iP	09 43.50	1.8						
	Z	20s	0.90um		4.7msz	NR1	86.32	341	eP	09 56.00	7.4X						
							1.8s	42.00nm			5.3mb						
WHN	51.07	317	Pd	06 11.00	0.0	WDC	89.77	49	P	10 20.00	14.3X						
IPM	52.28	280	ePd	06 19.10	-1.3	Z	21s	0.49um			4.9msz						
MDJ	53.91	340	eP	06 32.90	1.0		91.13	52	P	10 20.00	7.9X						
GYA	54.49	308	iPd	06 37.00	0.3	CMB	Z	20s	0.23um		4.6msz						
	1.0s	9.60nm			4.8mb		92.44	55	P	10 30.00	11.8X						
	Z	18s	0.75um		4.8msz	ISA	Z	19s	0.48um		5.0msz						
						MA10	95.55	306	eP	10 33.00	0.4						
CN2	54.75	336	eP	06 37.60	-0.5	YKA	96.20	28	eP	10 34.40	-0.4						
	0.6s	5.60nm			4.8mb		0.8s	1.40nm			4.5mb						
HON	55.43	60	P	06 50.00	6.6X	SES	98.36	40	eP	10 45.00	0.1						
	Z	20s	0.24um		4.3msz	TUC	98.64	58	P	11 00.00	13.4X						
BJI	56.24	327	eP	06 47.00	-1.8		Z	18s	0.37um		4.9msz						
TIY	56.82	322	eP	06 52.10	-1.1	EMUT	98.68	51	(P)	10 45.29	-1.5						
	Z	20s	0.75um		4.8msz	8W06	99.59	48	(P)	10 49.73	-1.2						
XAN	56.84	317	P	06 52.00	-1.4		0.4s	0.57nm			4.5mb						
	1.0s	17.00nm			5.1mb	GOL	102.88	51	Pdiff	11 20.00	14.3X						
KMI	57.04	305	Pc	06 55.00	-0.2		Z	21s	0.44um		4.9msz						
	1.4s	60.00nm			5.5mb	RSSD	103.52	46	Pdiff	11 20.00	11.6X						
CHTO	57.93	296	ePc	07 00.60	-0.6		Z	21s	0.21um		4.6msz						
	1.2s	26.04nm			5.2mb	WMOK	108.55	55	PKP	15 50.00	13.6X						
CD2	58.88	311	iPd	07 07.00	-0.7		Z	18s	0.23um		4.8msz						
HHC	59.36	325	Pd	07 10.40	-0.6	NB2	117.41	340	PKP	15 52.20	-0.3						
	1.2s	20.00nm			5.1mb		0.8s	1.70nm									
BTO	60.10	324	eP	07 15.00	-1.0	BRG	123.05	330	ePKP	16 17.40	13.9X						
SMY	60.83	15	P	07 30.00	9.4X	CLL	123.24	331	e(PKP)	16 20.00	16.2X						
	Z	22s	1.68um		5.1msz	CEH	123.95	50	PKP	16 20.00	14.2X						
LZH	61.44	316	Pc	07 24.80	-0.5		Z	21s	0.34um		5.0msz						
	1.2s	53.00nm			5.5mb	KHC	124.31	328	ePKP	16 15.00	8.9X						
MGD	65.38	359	eP	07 51.00	0.6					16 26.00							
GTA	65.88	318	P	07 54.50	0.2	GEC2	124.42	328	PKP	16 07.20	0.8						
	1.2s	26.00nm			5.1mb		0.6s	0.60nm									
	Z	16s	1.93um		5.4msz	GRF	125.15	330	ePKP	16 22.00	14.3X						
CIT	66.10	335	eP	07 54.00	-1.3		Z	20s	0.20um		4.8msz						
LSA	68.30	305	Pc	08 10.30	0.2	CBM	125.98	33	PKP	16 20.00	10.6X						
	1.0s	16.00nm			4.9mb		Z	20s	0.29um		4.9msz						
YAK	69.53	349	eP	08 24.00	7.5X	CDF	127.94	331	ePKP	16 13.70	0.5						
	1.6s	47.00nm			5.2mb	BSF	128.58	331	ePKP	16 16.90	2.5X						
ZAK	69.86	329	eP	08 19.00	0.4		1.3s	18.75nm									
	1.3s	24.00nm			5.0mb	SSF	130.69	332	ePKP	16 21.60	3.3X						
							1.0s	4.60nm									
BOD	70.24	339	eP	08 19.60	-1.3	TCF	131.86	332	ePKP	16 23.80	3.2X						
	1.2s	11.00nm			4.7mb		1.1s	7.35nm									
IRK	70.50	331	eP	08 22.50	-0.1	BCAO	134.04	271	ePKPc	16 21.50	-4.2X						
							0.8s	7.00nm									
MOY	71.80	329	eP	08 31.00	0.7					16 38.00							
GUN	72.13	301	P	08 33.20	-0.1					16 50.10							
PKI	72.44	301	P	08 35.20	0.1	CNCB	134.35	120	PKP	16 29.50	2.6X						
	1.2s	62.00nm			5.4mb					20 02.00							
KKN	72.61	301	P	08 35.80	-0.2	LPB	134.36	119	PKP	16 30.90	4.2X						
DMN	72.71	301	P	08 36.80	0.2	ZOBO	134.44	119	PKP	16 19.20	-7.9X						
GKN	73.22	301	P	08 39.40	0.0					01 04.00							
WMO	75.97	318	P	08 55.00	0.1	CCH	135.67	122	(PKP)	16 30.00	0.9						
	1.5s	16.00nm			4.7mb	SIV	140.59	123	PKP	16 35.00	-2.8X						
	Z	18s	0.52um		4.9msz	VAO	145.95	147	ePKP	16 49.00	2.0X						

S.D. = 0.9 on 96 of 128 obs.

& FEB 09, 1993 21h 11m 07.59s

63.905 N 148.955 W

DEPTH = 0.0km

CENTRAL ALASKA (1)

<AEIC>. ML 2.8 (AEIC). Healy

coal mine blast.

MCK 0.17 177 eP 11 10.77 -0.3

RND 0.50 175 eP 11 17.13 -0.5

S 11 25.03

NEA 0.68 356 eP 11 20.73 -0.4

TRF 0.75 233 eP 11 21.91 -0.6

CCB 0.90 33 eP 11 25.06 -0.4

HUR 0.98 199 eP 11 26.24 -0.9

HDA 1.01 59 eP 11 26.36 -1.3

eS 11 42.54

MDM 1.10 16 eP 11 28.26 -1.0

S 11 44.72

FBA 1.12 26 eP 11 28.12 -1.4

GLM 1.28 31 eP 11 31.73 -0.6

S 11 49.40

PAX 1.83 119 eP 11 41.11 0.5

eS 12 06.01

SDG 2.07 130 eP 11 44.99 0.9

SML 2.12 172 eP 11 44.32 -0.5

GHO 2.14 180 eP 11 44.46 -0.7

SCM 2.21 160 eP 11 45.68 -0.5

SKT 2.26

09d 21h

DEPTH = 10.0km (geophysicist)
 GREECE (364)

AGG	0.75	127	ePg	34	52.00	-0.4
			eSg	35	03.76	
IGT	0.95	274	ePg	34	56.04	0.4
LIT	0.95	49	iPg	34	55.40	-0.3
			eSg	35	09.00	
FNA	1.31	354	ePb	35	01.30	-0.5
GRG	1.61	23	ePb	35	05.84	-0.3
OHR	1.73	341	ePn	35	07.50	-0.4
SOH	1.92	45	ePb	35	11.50	0.8
KNT	1.97	31	ePb	35	12.10	0.8

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

FEB 09, 1993 21h 38m 02.19± 0.30s
 51.576 N ± 8.2km 176.219 W ± 3.4km
 DEPTH = 45.2km (18 depth phases)
 4.8mb (41 obs.) 4.5MsZ (13 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 ML 5.4 (PMR). Felt (IV) on Adok.

ADK	0.42	317	iPd	38	14.56	2.3
SMY	6.07	285	e(P)	39	31.49	-0.1
SDN	10.10	62	eP	40	28.62	1.1
SVW	14.82	42	eP	41	33.78	3.5X
	0.6s		38.95nm		4.9mb	
KDC	15.01	56	eP	41	31.14	-1.5X
	0.4s		30.76nm		4.9mb	
TTA	15.69	36	eP	41	42.07	0.6
	1.0s		15.06nm		4.1mb	
BGL	16.27	44	eP	41	51.18	2.3
CRP	16.37	44	eP	41	51.29	1.0
SLKM	16.95	48	eP	41	55.42	-1.9X
PMS	17.51	46	eP	42	05.30	0.9
PMR	17.83	45	(P)	42	07.39	-0.9
IMA	18.46	30	eP	42	15.15	-0.9
	0.6s		6.72nm		4.0mb	
KLU	19.25	47	eP	42	23.28	-2.2X
FBA	19.81	37	eP	42	29.44	-1.9X
	0.5s		17.40nm		4.6mb	
MGD	20.20	308	eP	42	38.00	2.6
Z	16s		0.70um		4.1MsZ	
			i	42	54.00	78kmX
			e	46	24.00	
BALM	20.81	50	eP	42	38.42	-3.4X
BRW	21.66	17	eP	42	49.74	-0.4
SIT	24.19	61	P	43	30.00	15.0X
Z	19s		0.60um		4.1MsZ	
TIK	31.26	330	eP	44	33.00	13.7X
	1.8s		18.00nm			
HON	33.37	148	P	44	40.00	1.9X
Z	20s		0.73um		4.4MsZ	
MCW	33.72	73	(P)	44	42.41	1.4
YKA	33.92	47	eP	44	41.70	-0.8
	0.5s		2.10nm		4.3mb	
GMW	34.25	75	(P)	44	46.25	0.7
			eP	44	58.59	46km
LON	35.21	76	eP	44	54.75	0.9
SHW	35.22	77	(P)	44	54.61	0.6
			e	45	07.73	49km
VGB	36.44	77	(P)	45	03.68	-0.5
			eP	45	17.08	51km
DPW	36.84	72	eP	45	07.69	0.1
			eP	45	20.37	47km
NEW	37.30	71	ePd	45	11.27	-0.1
	0.6s		33.32nm		5.4mb	
			eP	45	23.28	44km
WDC	38.01	85	P	45	30.00	12.6X
Z	20s		0.32um		4.1MsZ	
BOD	39.05	307	eP	45	40.00	15.0X
	1.7s		18.00nm			
CN2	39.09	282	eP	45	26.00	-0.4
	0.8s		1.90nm		4.0mb	
Z	22s		1.01um		4.6MsZ	
SES	39.82	65	eP	45	32.00	-0.4
SNY	41.33	281	eP	45	45.00	0.2
Z	24s		0.65um		4.4MsZ	
TNP	42.81	84	(P)	45	59.16	1.9
	0.7s		4.90nm		4.3mb	
			eP	46	12.12	48km
PTI	42.96	76	(P)	45	59.54	1.2
			eP	46	11.41	43km
			eS	46	18.53	
HVU	43.34	77	eP	46	01.85	0.4
DUG	44.25	79	eP	46	09.60	0.8
	0.6s		5.22nm		4.5mb	

FCC	44.65	47	eP	46	21.38	42km
BW06	44.70	74	ePc	46	13.00	1.4
	0.8s		22.95nm		5.0mb	
			eP	46	24.13	44km
			eS	46	30.90	
NRI	44.85	330	eP	46	22.00	8.9X
			e	46	29.00	23kmX
DAU	45.07	78	eP	46	16.73	1.1
			eP	46	29.66	48km
MSU	45.67	80	eP	46	20.01	-0.3
			eP	46	32.86	47km
SRU	46.31	79	eP	46	25.18	-0.1
BJI	46.90	284	eP	46	31.00	1.3
RSSD	47.19	69	ePc	46	30.91	-1.3
	0.6s		10.02nm		5.0mb	
Z	21s		0.18um		4.0MsZ	
			e	46	42.43	41km
PV09	47.54	78	eP	46	34.91	-0.3
PV10	47.68	78	eP	46	36.31	0.1
PV08	47.79	78	eP	46	37.56	0.4
ULM	48.22	58	eP	46	40.50	0.6
ZAK	48.22	302	eP	46	39.00	-0.9
	2.4s		28.00nm		4.9mb	
TIA	48.73	279	eP	46	44.50	0.5
Z	38s		0.90um		4.5MsZ	
GOL	49.07	75	eP	46	47.11	0.2
	0.8s		20.32nm		5.2mb	
Z	20s		0.69um		4.6MsZ	
			eP	46	59.65	46km
			eS	47	05.74	
GLD	49.13	75	eP	46	48.57	1.3
	0.7s		42.92nm		5.6mb	
			eP	47	01.47	47km
HHC	49.18	287	P	46	50.00	2.5
Z	26s		0.56um		4.4MsZ	
SSE	49.61	271	eP	46	52.10	1.3
			sP	47	09.00	
BTO	50.25	288	eP	47	00.20	4.4X
TUC	50.56	86	eP	46	58.60	0.5
	0.8s		6.22nm		4.7mb	
Z	20s		0.27um		4.3MsZ	
TIY	50.64	284	eP	46	59.00	0.3
Z	24s		0.81um		4.7MsZ	
ACO	54.75	74	iPd	47	29.10	-0.2
ELT	54.86	313	eP	47	29.50	-0.3
	1.0s		12.00nm		4.9mb	
XAN	55.20	283	P	47	33.90	1.3
	0.6s		5.10nm		4.7mb	
WMOK	56.29	75	eP	47	38.63	-1.8
	1.0s		14.40nm		5.0mb	
Z	19s		0.45um		4.6MsZ	
			eP	47	52.20	49km
MEO	56.38	75	iPc	47	43.30	2.3
LZH	56.87	288	Pd	47	44.80	0.1
	1.0s		15.00nm		5.0mb	
Z	24s		0.38um		4.4MsZ	
GTA	56.98	293	eP	47	46.00	0.5
Z	18s		0.57um		4.7MsZ	
FVM	59.00	67	eP	47	57.08	-2.3
	0.5s		76.44nm		6.1mb	
			eP	48	09.76	45km
EEO	59.15	53	eP	48	01.00	0.7
MIAR	59.53	72	eP	48	01.64	-1.5
	0.8s		11.14nm		5.0mb	
ELC	60.17	67	eP	48	05.44	-2.0
CD2	60.51	283	eP	48	09.60	-0.3
WMQ	60.58	304	eP	48	08.50	-1.8
Z	20s		0.48um		4.6MsZ	
GYA	61.90	278	iPd	48	19.20	-0.3
	0.8s		24.00nm		5.4mb	
			pP	48	36.80	67kmX
RSNY	62.88	52	(P)	48	25.85	0.3
Z	21s		0.25um		4.4MsZ	
CBM	64.14	46	P	48	40.00	6.2X
Z	20s		0.50um		4.7MsZ	
BLA	65.15	61	(P)	48	39.58	-1.0
	0.8s		17.02nm		5.1mb	
KAF	65.26	349	eP	48	38.40	-2.4
KMI	65.29	280	Pc	48	41.00	-0.8
	1.0s		50.00nm		5.5mb	
CVL	65.65	59	eP	48	42.47	-1.2
			eP	48	54.16	39km
HRV	65.84	52	P	48	50.00	5.2X
Z	19s		0.32um		4.6MsZ	
PRM	66.36	65	eP	48	46.93	-1.3
LMN	66.45	45	eP	48	49.00	0.4

JSC	66.83	64	iPc	48	50.29	-1.0
CEH	66.85	61	eP	48	50.06	-1.2
	0.5s		18.95nm		5.4mb	
FRU	67.75	311	eP	48	55.50	-1.5
			e	49	07.00	38km
SLL	68.04	355	eP	48	54.20	-4.2X
	0.4s		1.40nm		4.3mb	
LOE	71.66	275	eP	49	21.00	-0.1
GUN	73.27	294	P	49	30.40	-0.5
KKN	73.70	294	P	49	32.80	-0.5
	0.5s		17.00nm		5.3mb	
PKI	73.79	294	P	49	33.00	-0.9
GKN	73.90	295	P	49	34.00	-0.4
	0.5s		16.00nm		5.2mb	
DMN	73.94	294	P	49	35.20	0.5
NNT	76.56	273	eP	49	50.20	0.7
KHC	79.32	353	eP	50	15.50	11.3X
			e	50	36.50	78kmX
			e	51	10.50	
			e	51	36.00	
GEC2	79.60	353	PKP	50	04.10	-1.7
	0.6s		0.29nm		3.4mb	
LDF	80.15	3	eP	50	07.20	-1.4
	0.6s		5.50nm		4.7mb	
GRR	80.34	3	eP	50	08.60	-0.9
	0.8s					

VAY 3.11 356 ePn 00 31.60 -12.6X
OHR 3.30 332 ePn 00 47.70 0.8
SKO 3.91 344 ePn 00 56.50 1.0
S.D. = 1.2 on 16 of 17 obs.

FEB 09, 1993 22h 08m 17.31±1.18s
46.129 N ± 7.8km 15.839 E ± 9.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 2.5 (LJU).

PTJ 0.24 160 iPg 08 22.60 0.0
iSg 08 27.50
VBY 0.75 213 ePg 08 31.80 -0.1
iSg 08 41.00
LJU 0.91 265 e(Pg) 08 35.00 0.2
eSg 08 47.00
CEY 1.06 249 eP 08 37.50 0.2
eSg 08 52.00
VOY 1.36 267 ePn 08 41.90 -0.4
eSn 09 00.80
TRI 1.51 255 eP 09 06.00 21.7X
GEC2 3.08 333 Pn 09 07.00 0.0
Sg 09 55.40
S.D. = 0.3 on 6 of 7 obs.

& FEB 09, 1993 22h 27m 30.47s
59.131 N 152.032 W
DEPTH = 55.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.3 (AEIC).

XLV 0.36 26 ePc 27 40.20 -0.5
eS 27 48.23
SYI 0.55 200 iPd 27 42.19 -0.6
eS 27 51.09
AUE 0.73 289 ePd 27 44.24 -0.6
AUI 0.75 287 ePd 27 44.29 -0.9
eS 27 55.21
AUP 0.75 289 iPd 27 44.69 -0.6
eS 27 55.89
AUH 0.76 288 iPd 27 44.76 -0.7
AUL 0.76 290 iPd 27 44.76 -0.6
eS 27 56.22
BRLK 0.86 42 eP 27 46.20 -0.5
eS 27 58.48
INE 1.07 331 ePd 27 48.56 -1.1
eS 28 02.02
INW 1.09 330 ePd 27 49.04 -0.9
eS 28 03.40
MCNL 1.19 274 iPc 27 49.95 -1.1
eS 28 04.67
PDB 1.29 302 iPd 27 51.44 -1.0
eS 28 07.77
RS1 1.38 345 iPd 27 53.35 -0.6
eS 28 10.92
RSO 1.38 345 iPd 27 53.32 -0.7
RS2 1.39 345 iPd 27 53.36 -0.7
S 28 11.06
REF 1.40 346 iPd 27 53.59 -0.7
eS 28 11.17
KDC 1.41 190 P 27 53.70 -0.4
RDW 1.41 344 iPd 27 53.65 -0.7
S 28 11.56
RDN 1.44 345 eP 27 54.13 -0.5
S 28 12.34
DFR 1.50 348 eP 27 54.72 -0.8
NCT 1.51 343 iPd 27 54.88 -0.7
S 28 14.13

SEW 1.64 52 eP 27 56.83 -0.4
SLKM 1.66 33 ePd 27 57.05 -0.6
MPA 1.92 44 eP 28 01.31 0.1
SPU 2.06 360 eP 28 02.83 -0.4
CKL 2.08 356 eP 28 03.36 -0.3
CKT 2.08 358 eP 28 03.57 0.0
CPAM 2.13 359 eP 28 04.45 0.1
BGL 2.15 355 eP 28 04.75 0.2
PTE 2.30 40 eP 28 05.85 -0.8
LTI 2.31 65 eP 28 05.97 -0.8
MTU 2.39 67 eP 28 07.17 -0.7
SUA 2.43 15 eP 28 08.21 -0.3
PMS 2.45 29 P 28 08.50 -0.3
KNIM 2.49 59 eP 28 08.42 -1.0
SVW 2.68 319 P 28 10.60 -1.4
PWA 2.74 22 eP 28 13.01 0.1
SKT 2.87 5 eP 28 14.10 -0.7
GLI 3.04 53 eP 28 14.80 -2.4

GHO 3.06 29 ePc 28 16.32 -1.3
HIN 3.07 63 eP 28 16.09 -1.6
FID 3.23 57 eP 28 17.93 -2.0
SML 3.25 33 eP 28 19.36 -0.8
VLZ 3.49 52 eP 28 21.93 -1.5
SCM 3.57 39 eP 28 23.66 -1.1
YKA 18.38 63 eP 31 55.40 12.8
0.8s 0.40nm
46 obs. associated

* FEB 09, 1993 22h 37m 24.30±1.00s
19.391 S ± 7.5km 70.534 W ± 10.2km
DEPTH = 60.8 ± 11.3 km
4.7mb (1 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ARE 3.05 342 iP 38 11.00 -0.5
iS 38 47.50
CNCB 3.53 44 P 38 19.90 1.4
LPB 3.67 40 eP 38 16.00 -4.2X
1.0s 360.00nm
i 38 24.00
ZOBO 3.84 37 P 38 23.20 0.3
ANT 4.29 179 eP 38 28.50 -0.1
CCH 4.62 65 P 38 33.00 -0.5
YJA 5.46 121 ePd 38 46.00 0.6
NNA 9.54 320 eP 39 02.50 -39.1X
eS 41 34.00
SIV 9.63 71 P 39 41.40 -1.4
BAO 21.82 84 iPd 42 13.20 0.0
e 42 18.50
e 42 39.40
KIC 69.61 75 P 48 29.80 0.2
e 48 40.00
YKA 88.70 341 eP 50 12.00 0.1
0.8s 3.50nm 4.7mb
WRA 133.93 213 PKP 56 40.30 3.3X
0.6s 0.50nm
GBA 148.79 96 PKPd 57 08.00 4.8X
S.D. = 0.9 on 10 of 14 obs.

& FEB 09, 1993 22h 54m 52.93s
61.222 N 139.132 W
DEPTH = 0.0km
SOUTHERN YUKON TERRITORY, CANADA (18)
<AEIC>. ML 2.5 (AEIC).

CTGM 1.10 257 eP 55 13.72 -0.9
S 55 29.16
PCA 1.26 207 eP 55 16.28 -1.0
eS 55 34.93
BCPM 1.30 191 iP 55 16.54 -1.3
YAH 1.54 237 eP 55 21.17 -0.8
S 55 41.88
PNL 1.56 185 eP 55 21.19 -0.9
S 55 42.20
BALM 1.57 265 eP 55 22.15 -0.1
S 55 43.82
HQN 1.78 176 eP 55 24.44 -0.7
eS 55 47.60
TGL 1.86 257 eP 55 26.42 0.0
S 55 50.08
CROM 2.01 258 eP 55 28.65 0.0
SNH 2.10 242 eP 55 30.69 0.8
GLB 2.27 278 eP 55 32.49 0.2
SGAM 3.06 259 eP 55 43.66 0.2
KLU 3.28 278 eP 55 46.70 0.0
13 obs. associated

FEB 09, 1993 23h 06m 23.59±0.97s
36.516 N ± 7.4km 71.220 E ± 5.7km
DEPTH = 201.3 ± 11.7 km
4.0mb (15 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE 7.25 211 iPd 08 08.20 0.1
eS 08 27.00
NDI 9.30 145 iPc 08 34.50 -0.1
0.5s 59.86nm 5.2mb X
eS 10 12.50
MAIO 9.46 272 eP 08 43.00 6.3X
eS 10 27.00
GKN 14.16 123 P 09 36.80 0.1
DMN 14.73 123 P 09 44.00 0.1
0.5s 28.00nm 4.9mb
KKN 14.74 122 P 09 43.60 -0.3
PKI 14.96 123 P 09 46.60 -0.2

GUN 15.07 121 P 09 48.00 -0.2
0.5s 20.00nm 4.8mb
HYB 20.10 159 eP 10 44.00 0.6
GBA 23.49 165 Pd 11 17.00 0.6
KAF 37.71 327 iP 13 21.80 1.0
NUR 37.92 324 iP 13 23.60 1.0
HFS 43.16 322 eP 14 05.20 -0.3
0.4s 2.70nm 4.2mb

NB2 44.47 323 P 14 15.80 -0.3
0.7s 3.10nm 3.9mb
BSF 47.77 305 eP 14 42.10 -0.1
0.7s 2.55nm 3.8mb
HAU 48.03 305 eP 14 43.40 -0.7
0.7s 2.75nm 3.8mb
LPG 48.29 302 eP 14 46.70 0.3
0.9s 3.10nm 3.7mb
LPL 48.30 302 eP 14 46.70 0.3
0.8s 3.10nm 3.8mb
SMF 49.99 304 eP 14 58.20 -0.8
0.6s 2.55nm 3.9mb
AVF 50.28 304 eP 15 00.30 -0.9
0.6s 2.70nm 4.0mb
DAG 54.79 344 eP 15 34.50 0.4
0.8s 3.73nm 4.1mb
BCAO 57.83 250 iPd 15 56.30 -0.1
0.9s 9.00nm 4.5mb
YKA 81.22 3 eP 18 17.80 0.2
0.5s 1.10nm 3.8mb
WRA 81.85 122 P 18 21.90 0.3
0.6s 0.30nm 3.2mb
WB2 81.86 122 eP 18 20.80 -0.8
0.5s 2.30nm 4.2mb
S.D. = 0.6 on 24 of 25 obs.

? FEB 09, 1993 23h 38m 42.29±1.48s
42.171 N ± 15.7km 8.131 W ± 7.7km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

mbLg 2.7 (MDD).
EZAM 0.42 267 ePg 38 50.80 -0.1
eSg 38 56.70
ERUA 0.77 73 iPg 38 57.50 0.2
eSg 39 08.00
STS 0.78 337 ePg 38 57.80 0.3
eSg 39 08.20
EMON 1.40 25 ePn 39 07.30 -0.5
eSn 39 26.40
S.D. = 0.7 on 4 of 4 obs.

FEB 10, 1993 00h 16m 32.33±0.29s
19.428 S ± 7.0km 169.181 E ± 7.2km
DEPTH = 10.0km (geophysicist)
5.2mb (25 obs.) 4.7Msz (3 obs.)
VANUATU ISLANDS (186)

Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 29S, 47C
Centroid Location:
Origin Time 00:16:34.4 0.8
Lat 19.46S 0.09 Lon 169.63E 0.06
Dep 26.4 6.7 Half-duration 1.0
Moment Tensor: Scale 10**16 Nm
Mrr=-1.35 0.34 Mtt= 2.01 0.54
Mff=-0.66 0.56 Mrt= 2.38 1.11
Mrf=-3.30 1.54 Mtf=-7.08 0.35
Principal Axes:
T Val= 9.34 Plg=20 Azm= 41
N -2.57 66 185
P -6.77 13 306
Best Double Couple: Mo=8.1*10**16
NP1:Strike= 82 Dip=66 Slip= 175
NP2: 174 85 24

PVC 1.87 334 iPc 17 04.10 -0.5
BKM 1.96 333 iPd 17 05.70 -0.3
iS 17 43.00
DZM 3.67 224 iPc 17 29.90 -0.6
iS 18 15.00
SVA 8.88 83 eP 18 39.00 -4.7X
SVO 13.66 317 eP 19 48.00 -0.6
BRS 17.00 239 iPc 20 35.50 3.6X
ARMA 19.29 232 eP 21 02.10 1.7
0.7s 73.00nm 5.0mb
RMO 20.06 246 iPd 21 10.30 1.6
1.3s 288.00nm 5.4mb

10d 00h																					
CTA	21.59	264	P	21	30.29	5.9X	GKN	94.31	298	PKP	29	56.20	2.5X	LOMF	148.65	337	PKP	36	19.29	1.8	
PMG	23.51	292	eP	21	42.00	-1.5	GBA	96.04	282	P	30	06.00	4.3X	RSM	148.76	327	PKPc	36	23.40	5.8X	
CNB	23.60	224	eP	21	45.70	1.5	HYB	96.21	286	eP	30	05.20	2.7X	ARV	148.80	326	PKP	36	19.20	1.4	
	1.3s	223.00nm				5.6mb	WMO	97.30	314	P	30	10.00	3.1X	VAI	149.07	333	PKP	36	22.30	4.3X	
BWA	23.72	227	eP	21	44.50	-0.9		1.5s	11.00nm			5.2mb	SFI	149.07	327	PKP	36	20.20	2.1X		
		i		21	48.00		Z	28s	0.62um			4.9mszX	TDS	149.14	317	PKP	36	16.90	-1.5		
		e		21	55.90		YKA	100.86	27	ePdiff	30	22.70	0.2	PGD	149.17	327	PKP	36	25.10	6.5X	
CAN	23.84	224	eP	21	46.40	-0.2		1.0s	2.10nm			4.7mb	CRE	149.23	327	PKP	36	24.40	5.8X		
		i		21	51.20		FRU	106.21	310	ePKP	35	08.00	9.3X	ASS	149.24	325	PKP	36	24.10	5.6X	
CMS	24.21	236	eP	21	50.70	0.6			e	35	30.00		SGO	149.29	319	PKP	36	20.30	1.7		
	1.3s	68.00nm				5.1mb			e	36	44.00		AQU	149.31	323	PKP	36	24.70	6.0X		
MDG	26.80	299	eP	22	16.40	1.8	CNCB	113.27	119	Pdiff	31	05.40	-14.1X	FIR	149.48	328	ePKP	36	25.00	6.3X	
TOO	27.45	224	eP	22	21.00	0.6	LPB	113.32	119	ePdiff	31	06.00	-13.5X	SDI	149.49	322	PKP	36	20.70	1.8	
STK	27.70	238	P	22	26.79	4.0X	ZOBO	113.41	118	Pdiff	31	05.10	-15.1X	ORO	149.60	333	PKP	36	24.60	5.6X	
WB2	32.76	263	iPd	23	06.20	-1.6	MAIO	116.85	302	ePKP	35	21.00	1.7	BOB	149.62	331	PKP	36	25.30	6.2X	
	1.1s	25.00nm				5.1mb	SPC	141.25	327	ePKP	36	05.70	0.5	LOR	149.75	340	ePKP	36	24.10	5.0X	
WRA	32.77	263	P	23	06.90	-1.0	KSP	142.03	332	ePKP	36	03.00	-3.3X		1.1s	12.20nm					
ASPA	33.03	256	eP	23	08.50	-1.7	BRG	143.01	334	ePKP	36	05.60	-2.3X	PII	149.89	328	PKP	36	24.80	5.5X	
	1.0s	115.50nm				5.8mb	CLL	143.06	335	ePKP	36	08.00	0.0	LBF	149.96	340	ePKP	36	23.70	4.2X	
Z	21s	1.80um				4.8msz	SRO	143.12	327	iPKP	36	07.50	-0.7		1.2s	9.80nm					
		e		23	11.40		PRU	143.42	332	ePKPd	36	07.00	-1.7	GRR	150.01	347	ePKP	36	25.80	6.4X	
MTN	37.07	274	eP	23	44.30	-0.4	ZST	143.48	328	e(PKP)	36	06.30	-2.5X		1.2s	27.05nm					
	0.7s	250.00nm				6.1mb	SRS	143.60	314	ePKP	36	07.60	-1.7	SSF	150.05	340	ePKP	36	24.90	5.4X	
MEEK	46.84	251	eP	25	02.50	-2.1	OUR	143.66	313	ePKP	36	08.08	-1.3		1.2s	21.70nm					
MKS	50.38	280	ePd	25	36.50	4.4X	UZD	143.75	325	ePKP	36	05.50	-3.8X	RMP	150.06	323	PKP	36	26.50	6.8X	
BAG	59.59	303	ePd	26	41.00	1.8	SOH	143.89	314	ePKP	36	08.36	-1.5	RDP	150.08	323	PKP	36	27.20	7.4X	
	1.0s	30.00nm				5.4mb	PAIG	144.04	312	ePKP	36	08.88	-1.2	SOI	150.16	314	PKP	36	26.90	7.0X	
MAT	62.89	332	eP	27	02.00	1.0	KNT	144.05	314	ePKP	36	09.12	-0.9	LPL	150.20	335	ePKP	36	24.70	4.6X	
	1.2s	26.56nm				5.3mb	MOX	144.13	336	iPKPd	36	09.40	-0.5		1.2s	14.00nm					
		(S)		35	48.00			1.4s	29.00nm				LPG	150.21	335	ePKP	36	24.90	4.7X		
MDJ	73.26	332	eP	28	07.50	2.0	VAY	144.19	315	iPKP	36	09.70	-0.5		1.1s	13.65nm					
CN2	74.59	329	eP	28	12.50	-0.8			e	39	15.00		LPF	150.38	347	ePKP	36	25.50	5.5X		
	1.0s	14.00nm				4.9mb	HOF	144.29	335	ePKP	36	10.10	-0.1		1.0s	17.80nm					
Z	20s	0.37um				4.7msz	KHC	144.47	332	PKP	36	10.90	0.3	BNI	150.60	334	PKP	36	27.50	6.9X	
GYA	75.88	305	P	28	24.00	2.7X		1.0s	10.40nm				BGF	150.71	341	ePKP	36	26.20	5.7X		
	1.0s	14.00nm				5.0mb			e	36	35.00			0.7s	3.95nm						
NST	76.33	292	eP	28	28.00	4.3X			e	36	55.00		TCF	151.14	341	ePKP	36	27.50	6.3X		
		e		31	02.00		GRG	144.48	314	ePKP	36	10.40	-0.4		1.1s	11.50nm					
BJI	77.05	321	eP	28	30.00	2.7X	LIT	144.80	313	iPKP	36	11.48	0.1	PGF	151.51	328	ePKP	36	29.50	7.5X	
	1.2s	20.00nm				5.1mb	GRF	145.04	335	ePKP	36	08.30	-3.2X		1.0s	36.20nm					
KHT	77.32	291	eP	28	33.50	4.2X		Z	22s	0.10um		4.5msz		S.D. = 1.2 on 82 of 155 obs.							
TIY	77.93	317	eP	28	32.00	-0.4			e	36	13.00			FEB 10, 1993 00h 28m 26.77 ± 0.40s							
Z	26s	0.85um				5.0mszX			e(PKP)	36	37.50			12.598 N ± 6.7km 93.563 E ± 5.8km							
XAN	78.20	313	P	28	37.00	3.1X	IVA	145.15	319	iPKPc	36	11.59	-0.4		DEPTH = 79.7km (3 depth phases)						
	1.1s	13.00nm				4.9mb	PLE	145.20	320	iPKPc	36	13.17	1.1		4.6mb (13 obs.)						
MAW	78.24	202	P	28	11.69	-21.8X	FNA	145.24	315	ePKP	36	12.84	0.7		ANDAMAN ISLANDS, INDIA (703)						
KMI	78.33	302	eP	28	37.00	2.0	PVY	145.25	318	iPKPc	36	10.63	-1.6		KHT	5.35	65	iPd	29	47.30	1.5
	1.5s	130.00nm				5.8mb	DMU	145.46	356	ePKP	36	12.90	0.9		NNT	6.02	89	iPc	29	56.80	1.6
CHTO	78.68	295	eP	28	40.30	3.6X	OHR	145.47	316	iPKP	36	07.00	-5.5X		SNG	8.79	127	eP	30	35.50	2.2
	0.9s	25.36nm				5.3mb		0.9s	101.00nm				HYB	15.27	290	eP	31	58.70	-0.5		
		e		30	24.60				i	36	13.60				1.1s	75.00nm			4.8mb		
CD2	80.31	308	eP	28	48.40	3.0X	PTJ	145.59	326	ePKP	36	09.70	-2.9X			eS		34	34.00		
HHC	80.33	319	Pd	28	48.60	3.2X	ZAG	145.63	326	ePKP	36	14.80	2.2X	GBA	15.74	275	P	32	06.00	0.8	
	1.4s	43.00nm				5.2mb	NKY	145.73	319	iPKPc	36	12.71	-0.3			S		34	40.00		
BTO	81.14	319	eP	28	52.50	2.9X	TTG	145.78	319	iPKPc	36	11.73	-1.2			P		32	18.60	0.6	
LZH	82.81	312	eP	29	02.50	4.0X	BRY	145.96	320	iPKPc	36	13.65	0.2			P		32	20.60	1.3	
	1.4s	55.00nm				5.5mb	ENN	146.03	341	ePKP	36	12.00	-1.0			P		32	19.60	-0.4	
Z	25s	0.32um				4.6mszX		2.0s	83.30nm							P		32	21.60	0.7	
SVW	85.09	16	eP	29	11.66	2.3X	DCN	146.04	356	ePKP	36	14.80	1.8			P		32	23.80	0.4	
	1.0s	21.96nm				5.3mb	ULC	146.04	318	iPKPc	36	10.30	-3.1X			P		32	26.60	0.0	
TTA	86.53	15	eP	29	17.71	1.2	KBA	146.08	330	iPKPc	36	14.90	1.4			P		32	54.00	-0.4	
	0.9s	2.26nm				4.4mb		0.7s	10.90nm							P		33	00.60	-0.8	
LGPM	87.00	45 (P)		29	19.73	0.4															

4.5s 224.00nm 5.5mb X
 e 38 16.40 151kmX
 AVY 54.97 236 eP 37 54.10 1.6
 VTY 55.20 236 eP 37 55.30 1.1
 NRI 56.86 358 ePd 38 03.70 -1.4
 e 38 22.00 71km
 e 38 36.00
 e 39 04.00
 MLR 65.45 314 eP 39 04.00 0.4
 KAF 68.36 332 iP 39 20.10 -1.4
 NUR 68.77 330 eP 39 42.50 18.5X
 BUL 71.69 244 iP 39 42.90 0.3
 1.0s 9.00nm 4.6mb
 BRG 73.79 320 i(P) 40 10.20 16.0X
 i 40 16.80 21kmX
 HFS 74.12 329 eP 39 54.40 -1.6
 0.5s 1.90nm 4.3mb
 BCAO 74.45 271 iPc 39 57.90 -0.9
 0.5s 8.00nm 4.9mb
 NB2 75.37 330 P 40 01.40 -1.8
 0.7s 1.90nm 4.1mb
 ILT 77.57 23 eP 40 14.00 -1.3
 EKA 83.54 325 P 40 47.00 -0.1
 1.0s 4.90nm 4.4mb
 IMA 87.49 22 eP 41 06.80 0.1
 0.8s 3.97nm 4.6mb
 epP 41 30.20 87km
 YKA 101.98 13 ePd 42 12.10 -0.7
 0.8s 0.30nm 4.1mb
 MSU 123.74 24 ePKP 47 18.29 0.7
 S.D. = 1.2 on 37 of 43 obs.

% FEB 10, 1993 00h 43m 14.57±0.94s
 39.310 S ± 7.1km 174.487 E ± 6.7km
 DEPTH = 223.1 ± 9.8 km
 NORTH ISLAND, NEW ZEALAND (159)

BSZ 0.60 145 P 43 45.00 0.3
 eS 44 03.90
 CNZ 0.83 83 P 43 45.80 -0.4
 DRZ 0.84 88 eP 43 46.40 -0.1
 NGZ 0.87 82 P 43 46.20 -0.3
 WAHZ 1.50 106 P 43 50.50 -0.2
 MNG 1.51 150 P 43 50.90 0.1
 S 44 13.20
 DIW 1.55 196 Pd 43 51.20 0.1
 KIW 1.59 168 P 43 51.30 -0.1
 WHH 1.62 75 P 43 51.10 -0.7
 TTH 1.83 98 P 43 53.90 0.4
 CAW 1.85 166 P 43 53.80 0.0
 TCW 1.91 185 Pc 43 54.70 0.4
 TEHZ 1.92 111 P 43 54.70 0.3
 MRW 1.93 175 P 43 54.50 0.0
 S 44 19.80
 WEL 1.99 174 P 43 55.00 0.0
 MTW 2.00 158 P 43 54.80 -0.4
 PAHZ 2.05 78 eP 43 55.90 0.2
 ORZ 2.13 224 P 43 56.60 0.1
 S 44 25.10
 MOW 2.19 165 P 43 56.80 -0.3
 BLW 2.19 160 P 43 56.90 -0.2
 URZ 2.30 64 P 43 57.90 -0.3
 S 44 26.30
 THZ 2.73 206 P 44 03.10 0.2
 eS 44 36.70
 NOZ 2.85 77 eP 44 04.90 0.7
 DSZ 3.18 219 P 44 08.10 0.1
 KHZ 3.19 193 P 44 08.40 0.4
 S 44 44.80
 LTZ 3.85 205 P 44 16.10 0.1
 S 45 00.10
 MQZ 4.61 197 P 44 24.10 -1.0
 S 45 14.00
 ODZ 6.40 205 eP 44 47.90 0.0
 S.D. = 0.4 on 28 of 28 obs.

* FEB 10, 1993 00h 47m 47.15±0.99s
 3.217 S ± 9.8km 131.410 E ± 18.2km
 DEPTH = 33.0km (normol)
 4.5mb (2 obs.)
 IRIAN JAYA REGION, INDONESIA (196)

AAI 3.24 262 iPd 48 37.00 0.1
 iS 48 40.10
 MTN 9.57 182 eP 50 05.40 -0.4
 0.3s 110.00nm 6.6mb X
 eS 51 48.00

WB2 16.87 170 eP 51 41.70 -0.9
 i 51 48.70
 eS 54 42.00
 ASPA 20.47 173 iP 52 27.80 2.8X
 0.4s 130.00nm 5.6mb X
 eS 56 07.20
 WARB 23.29 191 eP 52 54.80 1.7
 STK 30.08 163 eP 53 59.50 3.7X
 0.5s 2.20nm 4.2mb
 CHTO 38.73 306 eP 55 18.10 7.8X
 MAT 40.06 9 eP 55 36.00 14.9X
 0.8s 5.22nm
 LZH 46.82 329 eP 56 17.50 1.5
 1.5s 19.00nm 4.9mb
 pP 56 25.00 25kmX
 GUN 53.63 308 P 57 08.00 -0.3
 PKI 53.84 308 P 57 09.20 -0.6
 KKN 54.04 308 P 57 10.60 -0.6
 DMN 54.10 308 P 57 11.40 -0.2
 GKN 54.65 308 P 57 15.20 -0.4
 CNCB 152.38 137 PKP 07 49.80 13.9X
 ZOBO 152.64 136 PKP 07 50.10 13.7X
 LR 10 00.00
 S.D. = 1.0 on 10 of 16 obs.

* FEB 10, 1993 01h 22m 24.98s
 60.062 N 140.563 W
 DEPTH = 11.7km
 SOUTHEASTERN ALASKA (19)
 <AEIC>. ML 3.7 (AEIC), 3.8
 (PGC), 3.9 (PMR).

PCA 0.16 77 iP 22 28.95 -0.1
 BCPM 0.48 103 iP 22 34.53 -0.3
 S 22 42.90
 YKU 0.66 140 P 22 38.40 0.4
 YAH 0.66 298 P 22 37.50 -0.7
 PNL 0.71 123 iP 22 37.93 -0.9
 S 22 47.60
 CYK 0.96 272 iP 22 42.03 -1.1
 CTGM 0.98 338 P 22 42.20 -1.4
 S 22 56.60
 HQN 1.05 125 eP 22 43.06 -1.6
 eS 22 58.75
 SNH 1.15 277 eP 22 44.65 -1.6
 BALM 1.32 319 P 22 47.20 -2.0
 S 23 07.80
 TGL 1.32 303 P 22 47.50 -1.8
 CROM 1.46 300 P 22 49.20 -2.1
 HYT 1.70 62 Pnc 22 54.90 0.2
 Sg 23 20.00
 KAIM 1.94 268 P 22 56.90 -1.2
 RAGM 2.08 281 eP 22 58.35 -1.8
 GLB 2.11 312 P 22 59.70 -0.9
 PLBC 2.21 104 Pn 23 01.80 -0.2
 Sg 23 31.00
 SGAM 2.35 283 P 23 02.70 -1.4
 CVA 2.63 283 eP 23 05.87 -2.0
 HIN 2.98 279 eP 23 09.46 -3.5
 KLU 2.99 301 P 23 11.50 -1.7
 FID 3.02 286 eP 23 12.04 -1.4
 VLZ 3.04 293 eP 23 11.87 -1.9
 TZL 3.09 312 eP 23 11.64 -2.8
 VZW 3.12 291 eP 23 12.86 -2.1
 GLI 3.34 287 P 23 15.60 -2.4
 SDG 3.45 318 eP 23 18.49 -1.1
 MTU 3.56 272 eP 23 19.07 -2.1
 KNIM 3.59 278 eP 23 18.76 -2.9
 LTI 3.66 273 eP 23 19.73 -2.8
 PAX 3.75 323 eP 23 22.98 -1.0
 SCM 3.75 301 P 23 22.60 -1.3
 DOT 3.96 337 eP 23 25.96 -0.9
 SIT 4.08 135 eP 23 28.01 -0.4
 SML 4.18 298 eP 23 28.10 -1.8
 PTE 4.27 285 eP 23 28.72 -2.4
 MPA 4.40 279 eP 23 29.54 -3.5
 GH0 4.43 296 P 23 32.40 -1.1
 SEW 4.45 274 eP 23 30.88 -2.9
 PLRM 4.47 294 eP 23 30.88 -3.1
 PMR 4.47 294 eP 23 31.39 -2.6
 PMS 4.58 289 P 23 33.50 -2.2
 PWA 4.83 293 P 23 36.70 -2.4
 SLKM 4.83 279 eP 23 35.56 -3.7
 SUA 5.19 290 eP 23 42.41 -1.9
 TCBC 5.26 110 Pn 23 43.50 -1.9
 HDA 5.28 328 eP 23 41.59 -4.0
 SKT 5.67 295 eP 23 48.43 -2.6

TRF 5.73 311 eP 23 50.27 -1.8
 SPU 5.77 286 eP 23 48.66 -3.8
 CRP 5.83 287 eP 23 48.93 -4.5
 CKN 5.83 287 eP 23 51.36 -2.0
 CKT 5.84 286 eP 23 50.88 -2.7
 CP2 5.87 287 eP 23 48.71 -5.3
 FBA 5.90 328 (P) 23 55.42 1.2
 CKL 5.91 286 eP 23 50.91 -3.6
 BGL 5.94 287 eP 23 50.82 -4.1
 KDC 6.60 255 e(P) 24 01.20 -2.9
 PDB 6.86 274 eP 24 04.60 -3.2
 SVW 7.49 285 eP 24 10.80 -5.9
 TTA 7.93 298 eP 24 19.01 -3.8
 IMA 8.46 321 eP 24 27.99 -2.3
 YKA 12.68 68 eP 25 26.20 -1.5
 0.8s 0.80nm 4.0mb X
 63 obs. associated

? FEB 10, 1993 01h 54m 09.94±3.39s
 37.620 N ± 14.9km 137.572 E ± 27.4km
 DEPTH = 10.0km (geophysicist)
 NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ 1.05 170 P 54 29.70 -0.1
 S 54 44.80
 MAT 1.19 154 iPd 54 31.80 -0.4
 iS 54 49.00
 NIJJ 1.20 108 P 54 32.20 -0.1
 S 54 49.20
 CHJJ 1.94 144 P 54 43.90 0.6
 S 55 10.40
 OFUJ 3.53 64 P 55 05.90 -0.1
 S.D. = 0.5 on 5 of 5 obs.

* FEB 10, 1993 02h 35m 11.93±0.77s
 22.876 S ± 21.2km 63.613 W ± 14.2km
 DEPTH = 530.9 ± 10.2 km
 4.3mb (2 obs.)
 SALTA PROVINCE, ARGENTINA (129)

HJA 1.69 258 iPd 36 20.50 0.8
 YJA 1.88 292 iPd 36 21.20 0.7
 SLA 2.52 223 iPd 36 23.00 -0.3
 FSA 3.87 214 iPd 36 36.00 3.9X
 SIV 7.26 20 P 37 08.00 5.3X
 CNCB 7.30 325 iPc 37 03.40 -0.3
 S 38 34.70
 LPB 7.59 325 Pc 37 06.70 0.2
 S 38 37.70
 ZOBO 7.81 326 iPc 37 08.00 -0.9
 S 38 40.90
 ARE 9.78 309 iPc 37 28.00 -0.8
 eS 39 18.00
 VAO 15.34 94 eP 38 25.00 0.0
 BAO 16.41 67 iPd 38 36.00 0.4
 e 38 42.10
 NNA 16.62 308 eP 38 36.30 -1.2
 0.6s 10.00nm 4.6mb
 LIC 64.13 71 P 44 54.70 -1.4
 KIC 64.45 71 P 44 56.70 -1.4
 LMN 68.41 359 eP 45 23.00 1.2
 EEO 70.59 349 eP 45 36.00 1.2
 ULM 78.21 340 eP 46 18.50 1.2
 FCC 85.16 345 eP 46 54.50 2.2
 YKA 94.17 339 eP 47 32.40 -1.8
 0.5s 0.70nm 4.1mb
 HYB 144.14 92 ePKPd 53 47.50 -1.7X
 GKN 150.93 73 PKP 54 05.60 5.8X
 0.5s 10.00nm
 DMN 151.36 74 PKP 54 06.60 6.0X
 KKN 151.51 74 PKP 54 06.80 6.0X
 PKI 151.63 74 PKP 54 06.40 5.3X
 GUN 152.03 73 PKP 54 08.00 6.3X
 S.D. = 1.3 on 17 of 25 obs.

* FEB 10, 1993 02h 46m 07.63±0.81s
 34.827 N ± 12.8km 26.771 E ± 7.4km
 DEPTH = 102.3 ± 12.5 km
 3.8mb (3 obs.)
 CRETE (370)
 MD 3.9 (ATH).

NPS 1.05 295 ePn 46 27.90 -1.1
 KSL 2.63 60 ePn 46 48.90 -0.3
 eSn 47 18.50
 ELL 3.19 52 ePn 46 57.30 0.4
 VLI 3.64 302 ePn 47 04.50 1.5

10d 02h

BCK 4.06 49 ePn 47 09.00 0.3
 HRI 7.60 99 eP 47 56.90 -0.6
 JVI 7.73 110 eP 47 58.50 -0.8
 DSI 7.91 112 eP 48 01.90 0.3
 MBH 8.51 124 eP 48 11.00 1.1
 LPG 18.60 311 eP 50 20.30 0.4
 0.8s 2.30nm 3.5mb
 LBF 20.99 312 eP 50 45.30 1.0
 1.2s 8.35nm 3.9mb
 SSF 21.31 312 eP 50 45.30 -2.2
 0.9s 4.10nm 3.8mb
 S.D. = 1.2 on 12 of 12 obs.

FEB 10, 1993 03h 18m 11.54±1.00s
 40.816 N ± 6.4km 20.727 E ± 8.4km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 1.9 (SKO).

OHR 0.30 11 iPg 18 17.60 -0.2
 iSg 18 23.30
 FNA 0.49 94 ePg 18 21.00 -0.6
 eSg 18 29.30
 SKO 1.27 25 ePn 18 17.60 -17.6X
 i 18 36.30
 iSg 18 54.50
 Lg 18 55.80
 GRG 1.28 83 ePb 18 35.48 0.2
 eSb 18 53.20
 IGT 1.32 193 ePb 18 35.84 0.0
 eSb 18 55.80
 VAY 1.48 70 ePn 18 39.00 0.8
 LIT 1.52 117 ePb 18 38.88 0.0
 KNT 1.68 77 iPb 18 40.64 -0.5
 eSb 19 04.50
 SOH 1.99 89 ePn 18 46.00 0.3
 S.D. = 0.5 on 8 of 9 obs.

* FEB 10, 1993 04h 18m 23.55±1.35s
 51.274 N ± 13.1km 15.782 E ± 6.4km
 DEPTH = 5.0km (geophysicist)
 POLAND (548)
 ML 3.3 (GRF), 2.9 (VIE).

KSP 0.54 143 iPd 18 33.00 -1.3
 0.5s 113.00nm
 iS 18 42.00
 BRG 1.23 252 iPg 18 48.00 1.2
 iSg 19 08.60
 PRU 1.51 212 Pn 18 51.70 0.4
 0.5s 34.70nm
 Pg 18 53.50
 e 18 57.40
 Sg 19 16.70
 e 19 24.90
 CLL 1.74 272 ePn 18 53.00 -1.6
 iPg 18 56.40
 eSg 19 22.00
 VRAC 2.03 165 ePn 18 58.80 0.0
 eSg 19 30.10
 KHC 2.57 214 Pn 19 06.90 0.3
 Pg 19 12.60
 Sn 19 42.00
 eSg 19 48.50
 e 19 56.00
 HOF 2.66 250 ePn 19 07.40 -0.4
 MOX 2.71 258 iPg 19 16.90 8.4X
 iSg 19 56.20
 OJC 2.76 111 iP 19 10.50 1.2
 eS 19 43.40
 GEC2 2.78 210 Pn 19 09.30 -0.3
 Pg 19 16.20
 Sg 19 59.50
 WET 2.83 222 ePn 19 10.70 0.4
 VKA 3.03 173 iPg 19 20.80 7.7X
 e 20 04.00
 ZST 3.20 164 eP 20 04.90 49.5X
 GRF 3.31 243 ePnc 19 17.30 0.2
 ePg 19 29.10
 eSg 20 15.20
 SPC 3.54 124 eP 20 21.90 61.4X
 KBA 4.49 202 iPnc 19 33.90 -0.1
 i 19 42.50
 iSg 20 40.50
 S.D. = 1.0 on 12 of 16 obs.

* FEB 10, 1993 04h 20m 08.01±0.97s

37.988 N ± 14.1km 14.118 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

GIB 0.07 271 P 20 10.40 -0.1
 eSg 20 12.40
 MNO 0.46 97 P 20 17.10 -0.3
 eSg 20 25.20
 MCT 0.52 227 P 20 21.90 3.2X
 eSg 20 30.60
 ATN 1.08 80 P 20 28.00 -0.2
 eSg 20 42.50
 MEU 1.10 144 P 20 28.70 0.0
 eSg 20 46.90
 SOI 1.53 86 P 20 36.00 0.6
 S.D. = 0.5 on 5 of 6 obs.

* FEB 10, 1993 04h 20m 50.19±1.61s
 B.136 N ± 11.6km 73.477 W ± 16.0km
 DEPTH = 97.4 ± 13.9 km
 4.5mb (2 obs.)
 NORTHERN COLOMBIA (99)

BMG 1.13 159 iPc 21 12.00 -0.3
 SDV 2.91 75 ePn 21 40.50 4.9X
 iSn 22 11.80
 BOG 3.54 190 eP 21 57.00 12.6X
 eS 22 41.00
 TOV 3.99 65 ePn 21 53.80 3.4X
 iSn 22 34.40
 CEOS 5.16 80 iPc 22 07.50 0.9
 iS 22 57.40
 OLLA 6.85 74 iPc 22 29.90 0.0
 iS 23 39.80
 LLAV 6.98 70 iPd 22 32.00 0.3
 GUAN 7.94 76 iPd 22 43.90 -1.0
 ZOBO 24.84 168 P 26 06.00 0.2
 LPB 25.08 168 eP 26 15.00 7.2X
 CNCB 25.38 168 P 26 10.80 0.1
 MCMT 49.95 324 eP 29 40.90 4.4X
 YKA 61.91 340 eP 31 02.00 0.5
 0.5s 4.60nm 4.8mb
 NB2 80.36 29 P 32 51.10 -0.9
 1.0s 3.80nm 4.2mb
 WB2 150.62 244 iPKPc 40 33.20 5.8X
 0.4s 11.80nm
 WRA 150.63 244 PKP 40 33.80 6.4X
 0.8s 1.50nm
 S.D. = 0.8 on 9 of 16 obs.

* FEB 10, 1993 04h 40m 09.16s
 34.375 N 116.875 W
 DEPTH = 2.8km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.7 (PAS).

PEC 0.54 206 iPd 40 19.29 -0.6
 SSK 0.70 257 iPc 40 22.37 -0.7
 GSC 0.93 4 iPd 40 26.52 -1.1
 eS 40 39.74
 PLM 1.02 179 ePd 40 28.11 -1.1
 eS 40 42.14
 ISA 1.84 315 ePn 40 41.78 -0.2
 GLA 2.16 127 (P) 40 44.32 -2.3
 TPNV 2.62 11 ePn 40 49.43 -3.8
 ePg 40 57.42
 BCH 2.76 288 ePn 40 55.68 0.4
 MEMM 3.69 334 (P) 41 12.48 4.2
 BONR 3.75 343 (Pg) 41 20.04 10.5
 MSU 5.60 41 (Pg) 41 52.59 16.9
 11 obs. associated

FEB 10, 1993 04h 43m 07.87±0.65s
 23.147 S ± 5.7km 68.143 W ± 7.4km
 DEPTH = 131.9 ± 7.4 km
 4.6mb (9 obs.)
 NORTHERN CHILE (123)

ANT 2.16 255 iP+ 43 43.80 -0.5
 iS 44 07.80
 HJA 2.52 92 iPc 43 50.50 1.6
 YJA 2.63 69 iPc 43 51.50 0.7
 SLA 2.89 124 ePc 43 56.20 2.3
 S 44 35.00
 FSA 3.51 147 eP 44 04.70 2.8
 CCH 6.04 19 P 44 35.20 -1.2

CNCB 6.30 1 P 44 33.20 -7.1X
 LPB 6.58 0 P 44 38.00 -5.9X
 ZOBO 6.82 0 iPc 44 46.70 -0.7
 RTRS 7.09 189 ePc 44 51.50 1.1
 RTPR 7.27 169 eP 44 52.80 0.0
 ARE 7.36 334 eP 44 51.00 -3.3X
 iS 46 09.50
 RTLL 8.16 182 eP 45 04.00 -0.8
 RTCB 8.33 184 eP 45 07.50 0.4
 CFA 8.43 181 e(P) 45 07.30 -1.1
 RTBS 8.56 188 ePd 45 09.00 -1.1
 (S) 46 45.40
 TCA 8.75 160 iP 45 11.20 -1.6
 (S) 46 47.00
 MRA 9.48 167 e(P) 45 21.20 -1.2
 MDZ 9.72 184 eP 44 59.00 -26.7X
 SIV 9.75 44 iPc 45 25.40 -0.7
 PEL 10.21 192 eP 45 37.00 4.8X
 RFA 11.59 181 ePd 45 48.20 -2.1
 NNA 13.85 322 iP 46 24.70 4.9X
 0.1s 233.33nm 6.5mbX

PPD 15.59 89 eP 46 43.40 1.8
 VAO 19.48 94 eP 47 24.70 -2.3
 e 47 25.40
 e 47 28.10
 BAO 20.41 72 eP 47 33.90 -2.7
 e 47 36.80
 e 47 38.10
 e 47 43.80
 e 48 17.90
 BMA 22.10 94 eP 47 52.30 -0.9
 e 47 52.80
 FVM 64.31 341 eP 53 29.05 -2.2
 0.6s 22.70nm 5.3mb
 RSNY 67.62 355 eP 54 02.44 138kmX
 0.5s 6.04nm 4.7mb
 LIC 68.18 73 Pc 53 55.12 -1.2
 ALQ 68.26 327 iPd 53 56.95 0.3
 0.8s 5.87nm 4.5mb
 TIC 68.38 72 Pc 53 56.36 -1.2
 0.9s 21.00nm 5.0mb
 KIC 68.49 73 Pc 53 57.32 -0.9
 0.6s 36.50nm 5.4mb
 PV08 72.19 328 eP 54 21.32 0.8
 PV10 72.23 327 eP 54 20.44 -0.2
 SRU 73.54 327 iPd 54 28.52 0.4
 eP 55 00.49 128kmX
 MSU 73.93 325 iPd 54 31.60 1.1
 RSSD 74.58 334 eP 54 34.15 0.0
 0.8s 4.31nm 4.3mb
 DAU 74.89 327 ePd 54 37.05 0.9
 BW06 75.89 330 eP 54 41.27 -0.4
 0.7s 1.74nm 3.9mb
 HHA1 77.62 329 eP 54 52.39 1.4
 eP 55 26.62 137kmX
 MCMT 78.99 329 eP 55 00.20 1.5
 BUL 88.16 111 eP 55 32.80 -12.8X
 BAO 88.67 85 iPc 55 50.30 2.3
 0.8s 4.00nm 4.5mb
 YKA 92.97 340 eP 56 06.40 -0.3
 0.7s 1.90nm 4.5mb
 ASPA 128.77 206 ePKP 02 02.70 0.9
 0.9s 4.40nm
 WB2 131.87 209 ePKP 02 09.00 1.3
 0.3s 3.50nm
 WRA 131.88 209 PKP 02 09.60 1.9
 0.5s 1.40nm
 GBA 146.06 100 PKP 02 34.00 0.5
 GUN 156.10 73 PKP 03 00.00 11.5X
 S.D. = 1.4 on 42 of 50 obs.

? FEB 10, 1993 05h 01m 03.91±0.79s
 23.697 S ± 11.8km 26.442 E ± 12.5km
 DEPTH = 33.0km (normol)
 4.3mb (6 obs.)
 BOTSWANA (579)
 mbLg 3.8 (BUL).

SLR 2.63 141 iPd 01 44.10 -1.0
 S 02 15.10
 BUL 4.07 30 iPb 02 08.80 3.2X
 iSn 02 42.50
 iSb 02 54.50
 iSg 03 07.00
 CIR 5.45 62 iPn 02 26.50 1.4
 iPb 02 36.00

10d 05h

MTD 8.40 36 iSn 03 28.50
iSb 03 42.00
iSg 04 00.50
iPn 03 04.00 -2.5
iPb 03 14.00
iSn 04 32.50
iSg 05 22.40
BCAO 29.00 344 ePd 07 02.30 -0.7
0.6s 3.00nm 4.2mb
SMF 72.94 344 eP 12 32.10 0.4
0.8s 5.10nm 4.6mb
AVF 73.20 344 eP 12 33.60 0.4
0.5s 3.00nm 4.5mb
SSF 73.41 344 eP 12 34.60 0.2
0.7s 2.20nm 4.3mb
LOR 73.51 344 eP 12 35.10 0.0
0.5s 1.25nm 4.2mb
DMN 76.18 51 P 12 52.00 0.9
PKI 76.38 52 P 12 52.60 0.3
KKN 76.41 51 P 12 53.00 0.6
GUN 76.91 51 P 12 56.00 0.7
NB2 85.33 353 P 13 46.90 8.4X
0.8s 1.10nm 4.1mb
YKA 133.23 336 ePKP 20 16.70 -0.7
0.6s 0.30nm
S.D. = 1.1 on 13 of 15 obs.

% FEB 10, 1993 05h 13m 43.11±0.68s
38.057 N ±11.7km 14.189 E ±5.4km
DEPTH = 5.0km (geophysicist)
SICILY (398)

GIB 0.15 242 Pc 13 45.00 -1.2
eSg 13 48.00
MNO 0.42 107 P 13 51.40 -0.2
eSg 13 58.00
MCT 0.61 226 P 13 56.10 0.7
ATN 1.01 84 P 14 02.60 -0.1
eSg 14 18.00
MSI 1.09 82 P 14 04.00 0.0
CVT 1.17 252 P 14 05.00 0.4
eSg 14 22.50
SOI 1.47 89 Pd 14 10.50 0.2
TDS 2.32 46 P 14 22.60 0.1
S.D. = 0.7 on 8 of 8 obs.

FEB 10, 1993 06h 14m 19.34±0.66s
38.246 N ±5.8km 22.905 E ±6.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.4 (ATH).

ATH 0.70 113 ePn 14 34.80 1.7
AGG 0.90 330 ePg 14 35.30 -1.2
eSg 14 48.50
VLI 1.53 179 ePn 14 45.20 -1.5
PAIG 1.78 20 ePb 14 50.42 0.0
VLS 1.83 269 ePn 14 50.00 -1.0
LIT 1.88 350 iPb 14 51.70 -0.1
eSb 15 16.74
OUR 2.25 22 ePn 14 57.14 0.1
IGT 2.38 303 ePn 14 59.50 0.4
SOH 2.60 8 ePn 15 02.14 0.0
eSn 15 35.70
GRG 2.73 352 ePn 15 03.42 -0.7
FNA 2.80 335 ePn 15 04.90 -0.1
eSn 15 40.10
KEK 2.83 302 ePb 15 08.10 2.7
KNT 2.91 360 ePn 15 06.62 0.1
iSn 15 42.58
SRS 2.92 10 ePn 15 06.50 -0.1
VAY 3.08 355 Pn 15 09.00 0.1
EZN 3.10 58 ePn 15 22.00 12.9X
MMB 3.40 10 iPc 15 51.00 37.5X
RDO 3.54 34 ePn 15 15.70 0.3
KKB 3.62 2 iPc 15 16.00 -0.6
RZN 3.71 21 iPc 15 18.00 -0.1
SKO 3.89 344 iPn 15 22.00 1.6
i 15 34.80
iSn 16 09.70
Lg 16 36.50
KDZ 3.91 29 iP 15 19.00 -1.7
VTS 4.35 3 iP 15 27.00 -0.1
S.D. = 1.1 on 21 of 23 obs.

& FEB 10, 1993 07h 41m 52.92s
34.022 N 117.583 W

DEPTH = 3.3km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS), 3.1 (GS).
Felt.

SSK 0.21 334 iPd 41 57.16 0.0
PEC 0.37 110 iPc 41 59.98 -0.4
eS 42 04.91
PLM 0.90 138 ePd 42 09.45 -1.4
eS 42 21.54
GSC 1.43 26 iPd 42 19.39 -0.4
eS 42 38.23
ISA 1.79 336 eP 42 24.22 -0.8
eS 42 48.14
BCH 2.37 300 eP 42 32.70 -0.7
GLA 2.50 112 ePn 42 32.71 -2.4
TPNV 3.12 20 ePn 42 42.84 -1.2
eS 43 31.23
MTUM 3.42 347 ePn 42 48.40 0.0
ePg 42 55.88
eS 43 41.85
MRCM 3.72 349 (Pn) 42 54.08 1.4
ePg 43 01.45
eS 43 53.22
MMPM 3.77 342 ePn 42 54.11 0.6
ePg 43 01.63
eS 43 49.69
MEMM 3.80 344 ePn 42 53.26 -0.3
ePg 43 03.47
eS 43 53.55
BONR 3.97 352 (Pn) 42 56.65 0.4
TNP 4.06 4 ePn 42 57.09 -0.4
ePg 43 08.60
MSU 6.26 43 (Pn) 43 28.56 -0.1
ePg 43 49.43
15 obs. associated

* FEB 10, 1993 08h 59m 43.36±1.46s
37.136 N ±10.9km 30.565 E ±13.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK). Felt at Antoloyo.

BCK 0.32 3 iPg 59 49.50 -0.6
ELL 0.65 234 iPg 59 56.30 -0.2
KHL 1.44 325 ePn 00 10.00 0.4
IZM 2.90 297 iPn 00 30.50 0.0
BBTK 3.20 32 eP 00 35.00 0.2
EYL 3.44 355 ePn 00 38.40 0.2
S.D. = 0.5 on 6 of 6 obs.

? FEB 10, 1993 09h 26m 14.45±1.12s
21.978 S ±15.7km 68.986 W ±22.7km
DEPTH = 120.0km (geophysicist)
CHILE-BOLIVIA BORDER REGION (124)

ANT 2.17 217 eP 26 50.50 0.0
iS 27 14.50
CNCB 5.23 11 eP 27 31.00 -1.2
CCH 5.30 31 eP 27 34.00 1.1
LPB 5.48 9 eP 27 36.00 0.5
ZOBO 5.72 8 eP 27 42.00 3.1X
SIV 9.56 53 P 28 30.00 -0.5
S.D. = 1.3 on 5 of 6 obs.

? FEB 10, 1993 09h 40m 14.92±4.13s
14.172 N ±44.0km 93.014 W ±13.1km
DEPTH = 64.8 ±15.5 km
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX 1.03 45 iP 40 34.00 0.2
iS 40 50.00
SCX 2.58 8 iP 40 54.50 -0.6
iS 41 21.50
OXX 4.60 309 iP 41 24.00 0.2
iS 42 14.50
IISM 6.36 319 (P) 41 51.00 2.8
ACX 7.12 293 eP 41 59.00 0.2
PPM 7.25 313 eP 41 59.00 -2.1
III 7.48 305 eP 42 02.50 -1.4
UNM 7.83 312 (P) 42 45.00 36.2X
MRX 9.56 306 iP 42 33.00 0.6
MEO 21.13 347 iPc 44 56.40 -0.1
ACO 23.09 347 iPd 45 15.30 -0.6
LCCM 35.35 337 eP 47 06.90 0.7
S.D. = 1.5 on 11 of 12 obs.

* FEB 10, 1993 10h 01m 14.12±1.84s
37.741 N ±14.4km 137.329 E ±14.8km
DEPTH = 10.0km (geophysicist)
3.9mb (1 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ 1.21 162 iPd 01 36.40 -0.4
S 01 52.10
MAT 1.39 149 iPc 01 38.60 -0.9
iS 01 55.40
NIJ 1.42 110 P 01 39.30 -0.7
S 01 57.10
CHJJ 2.15 141 P 01 50.90 0.4
eS 02 17.10
IIDJ 2.30 168 P 01 54.70 1.9
eS 02 23.20
TSRJ 2.45 207 eP 01 55.20 0.4
OFUJ 3.66 67 P 02 12.80 0.8
eS 02 56.20
YAK 24.76 351 eP 06 49.50 12.7X
1.0s 75.00nm
WRA 57.44 183 P 11 03.80 -1.6
0.5s 0.60nm 3.9mb
S.D. = 1.3 on 8 of 9 obs.

? FEB 10, 1993 10h 34m 40.91±0.98s
39.090 N ±8.3km 27.634 E ±9.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.75 203 iPg 34 55.50 -0.1
iSg 35 07.00
DST 0.93 56 ePg 34 58.90 0.3
eSg 35 14.00
EZN 1.25 306 iPn 35 04.40 0.2
EDC 1.27 8 ePn 35 04.00 -0.4
S.D. = 0.6 on 4 of 4 obs.

FEB 10, 1993 10h 53m 07.20±0.18s
7.745 S ±3.6km 105.262 E ±4.4km
DEPTH = 32.8km (8 depth phases)
5.7mb (88 obs.) 5.2Msz (37 obs.)
JAWA, INDONESIA (277)

Mw 5.8 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 42S, 99C
Centroid Location:
Origin Time 10:53:14.3 0.2
Lat 7.92S 0.02 Lon 105.12E 0.02
Dep 68.2 1.6 Half-duration 2.0
Moment Tensor: Scale 10**17 Nm
Mrr=-0.55 0.08 Mtt= 1.55 0.09
Mff=-1.00 0.14 Mrt= 1.64 0.09
Mrf=-2.13 0.08 Mtf=-4.51 0.11
Principal Axes:
T Vol= 6.00 Plg=22 Azm= 39
N -1.43 65 187
P -4.57 12 304
Best Double Couple: Mo=5.3*10**17
NP1: Strike= 80 Dip=66 Slip= 173
NP2: 173 83 24

KGM 9.89 349 ePd 55 31.10 0.9
IPM 12.95 341 ePd 56 09.80 -1.9
0.8s 65.10nm 5.8mb
MKS 14.34 81 iPc 56 33.40 3.5X
SNG 15.53 343 eP 56 45.00 -0.5
eS 59 31.50
TSM 17.36 47 ePd 57 12.90 4.2X
1.0s 572.10nm 5.7mb
KKM 17.52 39 ePc 57 13.30 2.5
0.7s 927.40nm 6.0mb
NNT 20.93 345 eP 57 47.50 -2.2
WEEK 22.67 148 eP 58 06.80 -0.3
0.5s 96.00nm 5.5mb
e 58 16.40 35km
KHT 23.34 344 iPc 58 13.20 -0.4
TNE 23.59 70 ePd 58 17.50 1.4
MRWA 23.63 156 eP 58 17.00 0.6
0.4s 20.00nm 5.0mb
e 58 44.00 131kmX
eS 02 26.00
NST 23.81 348 eP 58 19.50 1.3
DAV 25.05 54 eP 58 32.00 1.8
BAL 25.14 156 eP 58 30.00 -1.0

10d 10h

LOE	25.23	352	iPc	58	33.00	1.1	Z	20s	4.98um	5.3Msz		1.0s	170.00nm	6.0mb			
BDT	25.59	346	eP	58	36.50	1.3	N	18s	3.47um		Z	34s	2.94um	5.0MszX			
	0.9s	193.70nm					E	18s	1.92um		E	18s	2.71um				
MTN	25.94	103	eP	58	38.20	-0.3			S	06 30.00		PP	03 30.00				
	0.5s	200.00nm					LSA	39.63	341 iPd	00 40.20	2.0	S	08 28.00				
		eS	03 33.00					1.0s	270.00nm		6.0mb	ScS	11 24.00				
MUN	26.18	159	eP	58	37.00	-3.6X	Z	23s	3.42um	5.1MszX		SS	11 50.00				
	1.0s	94.00nm					N	19s	3.28um		BWA	47.71	130 iPd	01 45.40	2.4		
Z	20s	7.40um						S	06 39.00			i	02 09.10	99kmX	1.0		
		e	59 01.00	111kmX			PKI	40.02	332 Pd	00 41.40	0.1	BTO	48.30	5 P	01 48.50		
		eS	03 32.00				GUN	40.10	333 Pd	00 43.20	1.2		1.2s	160.00nm		5.9mb	
KLB	26.44	155	eP	58	41.50	-1.5	DMN	40.19	332 Pd	00 43.80	1.1	N	21s	2.89um			
QIZ	26.98	10	Pd	58	49.80	1.7	KKN	40.27	332 Pd	00 44.20	1.0	E	19s	6.76um			
	1.0s	100.00nm					MDG	40.32	89 eP	00 44.00	0.4		ePP	03 41.00			
N	23s	7.35um					GKN	40.75	331 Pd	00 48.20	1.1		S	08 40.00			
E	20s	8.47um					ADE	40.93	136 iPc	00 49.50	1.1	SHNJ	48.31	29 eP	01 47.20	-0.3	
CHTO	27.12	347	ePc	58	49.50	0.2	PMG	41.44	95 eP	00 52.00	-0.8	CAN	48.50	131 eP	01 50.30	1.2	
	0.8s	109.81nm					STK	41.45	130 eP	00 52.00	-0.6		e	02 12.00	89kmX		
		eS	03 20.00					0.6s	89.60nm		5.7mb	BJI	48.60	11 eP	01 51.00	1.4	
WARB	27.39	135	eP	58	50.10	-1.7			eS	09 30.00			1.0s	22.00nm		5.1mb	
	0.5s	67.00nm					CTA	41.52	112 iPc	00 55.00	1.6	Z	20s	3.00um		5.3Msz	
		e	59 20.00	142kmX				1.3s	129.81nm		5.5mb	N	19s	2.66um			
COOL	27.40	149	eP	58	51.30	-0.5		Z	21s	13.26um			eS	08 50.00			
	0.3s	29.00nm							i	01 03.50	29km	HHC	48.70	6 Pc	01 52.00	1.5	
		e	59 17.00	119kmX					ePP	01 15.00			0.8s	140.00nm		6.0mb	
		eS	03 58.00						e	02 45.00		Z	26s	5.08um		5.4MszX	
BAG	28.39	32	ePc	59	00.00	-1.0	SSE	41.52	21 Pc	00 54.80	1.6	N	14s	1.84um			
		eS	03 44.00					1.2s	160.00nm		5.6mb	E	14s	0.59um			
RKG	28.80	160	eP	59	04.00	-0.4		Z	20s	1.80um		CNB	48.77	131 eP	01 52.10	0.9	
	0.9s	50.00nm						N	14s	0.70um		4.9Msz	ARMA	48.84	124 eP	01 53.60	1.7
WRA	30.66	116	P	59	20.50	-0.7		E	14s	0.90um			0.4s	11.00nm		5.2mb	
	0.6s	17.60nm					BOM	41.52	310 eP	00 54.00	0.7	DL2	48.84	17 eP	01 51.00	-0.5	
WB2	30.67	116	eP	59	18.60	-2.7			eS	06 51.00			0.8s	80.00nm		5.8mb	
	0.9s	78.10nm					NJ2	41.65	17 Pc	00 56.00	1.8	Z	24s	1.35um		4.9MszX	
		i	59 20.40					1.0s	80.00nm		5.4mb	N	15s	1.27um			
		i	59 23.60					Z	22s	1.28um			S	08 50.00			
		iPP	59 35.00	68kmX				N	14s	1.56um		BRS	48.97	120 iPc	01 53.50	0.6	
		iPP	00 08.20					E	14s	1.75um			0.6s	40.00nm		5.6mb	
		eS	04 02.20				XAN	41.70	5 iPc	00 55.40	0.8		iPP	02 05.00	41km		
MCO	30.78	15	eP	59	22.60	0.5		2.0s	740.00nm		6.1mb		iSP	02 30.00			
HKC	31.11	16	eP	59	26.00	1.0		E	16s	2.91um			iS	09 00.00			
		S	04 29.00						pP	01 19.00	101kmX	RIV	49.59	128 eP	02 00.30	2.9	
FORT	31.30	140	eP	59	26.00	-0.7			sP	01 30.00			1.0s	4840.00nm		7.5mb X	
		e	00 11.00	221kmX					PP	02 40.00		YONJ	50.32	30 P	02 01.60	-1.3	
		eS	05 24.00						PcP	02 54.00		WKYJ	50.67	33 P	02 04.80	-0.9	
GZH	31.65	14	iPc	59	30.60	0.9			S	07 06.20		PAF	50.81	209 eP	02 21.00	14.5X	
	1.0s	73.00nm							sS	07 46.00			eS	09 27.00			
Z	12s	12.00um							SS	10 14.00		TAU	50.85	141 eP	02 08.00	1.1	
N	10s	0.80um					LZH	43.62	358 iPc	01 12.50	2.1	TSRJ	51.88	32 P	02 13.30	-1.4	
E	11s	1.08um						1.2s	320.00nm		6.0mb	SNY	52.11	17 iPc	02 15.00	-1.4	
		S	04 36.00					Z	18s	3.35um	5.3Msz		1.1s	75.00nm		5.6mb	
ASPA	31.69	123	iPd	59	29.10	-1.1		N	14s	2.27um			Z	24s	2.27um		5.1MszX
	0.9s	67.00nm							PcP	02 58.00			N	17s	1.31um		
Z	23s	5.90um							S	07 38.00			iS	09 34.00			
KMI	32.76	356	Pd	59	42.00	2.3	CMS	44.54	128 eP	01 17.80	-0.1	MTMJ	53.63	33 P	02 25.40	-2.5	
	1.8s	480.00nm						0.9s	61.00nm		5.5mb	WMO	53.74	344 Pd	02 29.00	0.5	
Z	16s	6.40um							e	01 41.00	98kmX		1.0s	190.00nm		6.1mb	
N	13s	2.20um							e	03 04.00		Z	30s	1.76um		4.9MszX	
E	13s	4.60um					GUMO	44.67	62 eP	01 16.30	-2.8	N	16s	1.11um			
		pP	00 01.00	81kmX				0.8s	227.00nm		6.1mb		PcP	03 29.00			
		S	04 55.00				PJG	44.67	62 eP	01 16.50	-2.6		PP	04 29.00			
		SS	07 00.00				GUA	44.69	62 eP	01 17.00	-2.2		ScP	07 25.00			
GYA	34.03	2	iPc	59	51.80	1.2		0.7s	191.78nm		6.1mb		PcS	07 34.50			
	1.0s	670.00nm					BFD	44.74	137 iPc	01 20.70	1.3		S	10 00.00			
Z	26s	2.86um						1.1s	130.00nm		5.7mb	MAT	53.82	33 iPc	02 26.30	-2.8	
N	18s	1.77um					TIA	45.12	14 Pc	01 22.70	0.3		0.9s	38.66nm		5.4mb	
E	18s	4.26um						2.0s	760.00nm		6.3mb	Z	20s	1.06um		4.9Msz	
		S	05 13.00					Z	21s	3.58um	5.3Msz		eS	09 53.00			
		sS	05 40.00					E	14s	1.48um			CHJJ	53.88	34 P	02 26.70	-2.9
		SS	07 20.00						S	07 59.50			HNR	54.05	96 eP	02 29.00	-2.2
GBA	34.83	307	Pd	59	58.00	0.6	NDI	45.21	324 iPd	01 23.10	-0.1	KSH	54.23	332 iP	02 32.50	0.2	
SHL	35.58	339	iP	00	04.00	0.1		0.6s	143.33nm		6.1mb		0.7s	130.00nm		6.1mb	
	0.6s	143.33nm					RMO	45.28	120 iPd	01 25.00	1.2		Z	14s	2.49um		5.4MszX
		iS	05 35.50					0.7s	73.00nm		5.7mb	N	14s	2.05um			
HYB	36.36	314	ePd	00	10.40	0.0	TIY	45.71	8 Pc	01 28.00	0.9	E	14s	2.02um			
	1.2s	121.40nm						0.8s	100.00nm		5.8mb			PcP	03 34.00		
		eS	05 48.00					Z	23s	3.69um	5.3MszX			PP	04 35.00		
CD2	38.46	358	iPc	00	28.80	0.9		N	15s	2.41um				PcS	07 35.00		
	0.8s	220.00nm							PP	03 14.00				iS	10 06.00		
Z	20s	3.19um							S	08 05.50				ScS	12 12.00		
E	14s	3.14um							SS	11 19.00				SS	13 48.00		
		S	06 19.00				KAGJ	45.83	31 eP	01 27.30	-0.7	CN2	54.47	18 Pc	02 33.00	-0.8	
		SS	09 01.00				KUMJ	46.88	30 eP	01 35.40	-0.9		1.0s	260.00nm		6.2mb	
WHN	39.05	12	Pc	00	34.50	1.7	TOO	46.96	135 iPc	01 39.10	2.1		Z	20s	1.83um		5.1Msz
	1.0s	120.00nm						0.4s	26.00nm		5.6mb	N	15s	1.26um			
							GTA	47.19	354 P	01 40.50	1.7	E	15s	0.38um			

				eS	10	06.00				1.2s	190.00nm		6.1mb		MGD	76.59	22	iPc+	04	55.80	-0.1			
				ScS	12	15.00			YSS	63.85	28	iPc	03	37.00	-1.7		1.0s	220.00nm			6.1mb			
KAKJ	54.65	35	P	02	31.50	-3.8X				0.9s	160.00nm		6.1mb		Z	18s	0.90um			5.1Msz				
NIJJ	54.76	33	P	02	34.30	-1.8			Z	19s	1.00um		5.0Msz		N	18s	0.90um							
PRZ	55.67	336	eP	02	43.00	0.2			N	19s	1.00um				E	18s	0.60um							
	1.0s			100.00nm		5.8mb						e	03	55.00	68kmX				e	05	10.00	50kmX		
Z	20s			1.00um		4.9Msz						eS	12	07.00					e	05	18.00			
N	20s			1.00um					KAT	65.10	320	iP+	03	47.00	0.0				e	07	43.00			
				eS	10	26.00						e	04	18.00	127kmX				eS	14	32.00			
YAMJ	56.00	33	P	02	42.90	-2.1						e	06	10.00					e	15	00.00			
VLA	56.12	23	iPc	02	45.00	-0.8						ePPP	07	50.00					ePPS	15	42.00			
	1.0s			50.00nm		5.5mb						iS	12	39.00					eSS	19	33.00			
				i	03	07.00	88kmX					e	13	05.00		BADA	76.65	302	iPc	04	56.00	-0.9		
				eS	10	32.00			MSZ	65.25	136	eP	03	48.90	1.0	MBH	77.11	303	iPd	04	58.80	-0.7		
				ePS	10	49.00			BOD	65.77	5	iPc	03	50.40	-0.5	JVI	77.35	305	eP	05	00.40	-0.4		
				e	12	30.00				0.9s	181.00nm		6.2mb		HRI	77.45	306	eP	05	01.40	0.0			
				eSS	14	19.00			MAW	66.16	196	e(P)	03	55.00	1.7	NRI	77.88	354	ePc	05	02.00	-0.8		
				eSSS	16	21.00				0.9s	53.33nm		5.6mb			1.7s	97.00nm				5.6mb			
MDJ	56.55	21	eP	02	48.20	-0.7													e	05	15.00	44kmX		
	0.8s			91.00nm		5.9mb			TUZ	66.74	137	eP	03	56.90	-0.5				e	08	03.00			
Z	20s			1.85um		5.2Msz			QRZ	67.80	131	eP	04	04.30	0.0				iS	14	49.00			
N	13s			1.01um					LTZ	67.94	133	eP	04	04.80	-0.3				e	15	17.00			
E	13s			0.76um					THZ	68.23	132	eP	04	06.60	-0.4				e	15	17.00			
				eS	10	36.00			AFIF	68.31	300	iPd	04	07.33	-0.5	SOC	78.10	317	eP	05	04.00	-0.6		
AVY	56.85	253	iPc	02	50.80	-1.0			KHZ	68.80	132	eP	04	10.30	-0.1		1.0s	100.00nm			5.8mb			
VTY	57.04	252	iPc	02	52.50	-0.5			BAK	69.89	318	iPc	04	20.00	3.0X	SVST	78.64	313	eP	05	07.80	-0.1		
OFUJ	57.54	33	P	02	53.80	-2.1						iS	13	28.00		TRHT	79.39	313	eP	05	11.70	-0.2		
FRU	57.55	334	iPd	02	55.20	-0.9			MNG	70.00	130	eP	04	17.40	-0.4	KVT	79.73	314	iP	05	14.00	0.4		
	2.0s			130.00nm		5.6mb			SHE	70.85	318	iPc	04	22.00	-0.9	CSS	79.86	308	eP	05	13.80	-0.6		
Z	24s			1.50um		5.0MszX				0.8s	70.00nm		5.8mb			80.74	7	iPd	05	18.00	-0.3			
				e	03	09.00	50kmX				iS	13	38.00			1.0s	90.00nm			5.7mb				
				e	03	21.50			PUZ	71.88	127	P	04	29.10	-0.2	Z	18s	2.00um			5.5Msz			
				e	03	44.00			GRS	71.89	316	iPd	04	27.00	-2.4				e	08	26.00			
				eS	10	48.00				1.0s	60.00nm		5.6mb					iS	15	19.00				
				e	12	41.00			YAK	72.09	12	iPc	04	29.20	-0.7	MRFT	81.41	313	eP	05	22.00	-0.7		
ZAK	57.91	359	eP	02	59.00	0.7				0.8s	470.00nm		6.5mb		KAS	81.46	314	eP	05	23.50	0.7			
	1.1s			46.00nm		5.4mb			Z	24s	1.20um		5.1MszX		BBTK	81.72	312	eP	05	23.50	-0.7			
Z	14s			2.25um		5.4MszX			N	20s	0.60um				SPA	82.30	180	ePc	05	25.60	-1.2			
N	14s			1.52um					E	20s	0.80um					1.1s	89.29nm			5.7mb				
				eS	10	59.00									NVL	83.88	199	eP	05	35.00	0.4			
				e	12	32.00										1.6s	76.00nm			5.6mb				
AOMJ	57.93	31	P	02	57.40	-1.2			MTD	72.23	255	iPd	04	30.50	-1.2	Z	20s	1.30um			5.3Msz			
MOY	59.30	357	eP	03	09.10	1.1						i	04	40.00	30km	N	18s	0.40um						
	1.3s			72.00nm		5.6mb						i	04	48.20		E	20s	1.30um						
CRZF	59.64	220	eP	03	24.00	13.5X			MTA	73.91	317	iP	04	40.40	-0.5				eSS	15	50.00			
				ePP	05	30.00				0.8s	120.00nm		5.9mb					eSSS	20	35.00				
				eS	11	21.00						e	04	54.00	47kmX	MOS	84.10	328	eP	05	36.00	0.1		
				eSS	15	12.00						i	04	57.40			2.0s	220.00nm			6.0mb			
MRRJ	59.66	30	eP	03	09.20	-1.4						e	07	29.00					e	05	58.00	82kmX		
IRK	59.78	359	eP-	03	09.00	-2.3						e	07	29.00					e	08	52.00			
Z	20s			2.01um		5.3Msz						eS	14	08.00		OBN	84.39	327	iPd	05	37.80	0.4		
N	21s			1.77um								e	14	32.00			1.2s	110.00nm			5.9mb			
E	20s			0.70um								e	14	40.00					i	06	04.00	99kmX		
				eP	03	25.00	60kmX		SVE	73.97	336	iPd	04	42.00	1.0				e	08	55.00			
				eSP	03	35.00				1.0s	220.00nm		6.1mb					iS	16	00.00				
				eS	11	19.00						e	05	03.80	82kmX			eSSS	25	00.00				
				ePS	11	38.00						eS	14	08.00		BCAO	87.36	275	iPd	05	52.00	-1.0		
				eSS	11	47.00						eSS	19	00.00			0.5s	33.00nm			5.8mb			
				e	12	56.00			GRO	74.07	319	eP	04	42.00	0.2				ic	06	01.00	28km		
UER	59.85	352	eP	03	11.80	0.0				1.5s	160.00nm		5.8mb					ic	06	16.10				
	0.9s			140.00nm		6.1mb						i	04	53.00	36km	VRI	87.60	317	ePd	05	54.00	0.5		
Z	18s			1.66um		5.2Msz						eS	14	17.00		MLR	88.05	316	ePd	05	56.50	0.7		
N	18s			1.25um								e	14	32.00		RZN	88.10	312	iPd	05	56.00	-0.2		
E	18s			1.25um					ARU	74.52	335	iPd	04	45.00	0.8	PLD	88.19	313	eP	05	56.00	-0.3		
				eS	11	20.00				1.2s	240.00nm		6.1mb					CMP	88.62	316	ePc	05	57.00	-1.4
CIT	59.94	6	eP	03	13.50	1.0			Z	20s	1.00um		5.1Msz		PG8	88.67	313	eP	05	58.00	-0.7			
	15s			1.92um		5.4MszX			N	20s	0.50um				MM8	88.80	312	eP	05	59.00	-0.4			
N	15s			1.35um					E	20s	1.00um				MNK	89.02	325	eP	06	09.00	9.0X			
E	20s			1.35um								e	04	59.00	49kmX				e	06	00.00	-1.8		
				eS	11	25.00						e	05	11.00		KKB	89.33	312	iP	06	00.00	-1.2		
DZM	60.45	111	iPc	03	16.40	-0.2						eS	14	13.00		VTS	89.38	313	eP	06	01.00	-1.2		
HOOJ	60.76	32	P	03	17.30	-0.8						eSS	19	05.00		GZR	90.21	316	ePd	06	07.00	1.1		
MAIO	61.34	319	iPd	03	21.00	-1.4			BUL	74.88	251	eP	04	29.80	-17.4X		KAF	91.66	333	iP	06	12.50	0.4	
	0.8s			16.47nm		5.2mb						ipP	04	40.40	34km		0.8s	10.10nm			5.3mb			
				eS	11	40.00			SLR	74.98	245	iPd	04	45.60	-2.1	ILT	91.92	22	eP	06	14.00	0.8		
ASAJ	61.69	30	iP+	03	22.90	-1.5				0.9s	16.81nm		5.0mb		NUR	92.08	331	eP	06	14.30	0.3			
BKM	61.99	106	iPc	03	28.20	1.2				Z	22s	4.81um		5.8Msz	VBY	95.46	315	eP	06	35.50	5.5X			
KUSJ	62.01	32	iP+	03	25.00	-1.6			PET	75.50	30	eP	04	50.00	0.2	HFS	97.44	330	eP	06	40.30	1.7		
SHI	62.84	309	eP	03	31.00	-1.6				1.2s	160.00nm		5.9mb		GRF	98.46	319	ePKP	06	55.00	11.5X			
ELT	62.87	347	eP	03	31.00	-1.1				75.91	302	iPd	04	52.13	-0.6	Z	23s	0.40um			4.8MszX			
	1.9s			85.00nm		5.6mb			AYN	76.08	319	iPc	04	53.00	-0.4				e(PP)	11	04.00			
Z	17s			1.10um		5.1MszX			PYA	1.0s	100.00nm		5.8mb		HON	99.02	70	P	07	00.00	13.5X			
				e	04	00.00	118kmX					i												

10d 11h

Z	20s	0.35um	4.9Msz	
YKA	118.15	20 ePKP	11 52.40	0.2
	0.5s	0.30nm		
YKA	118.15	20 ePKP	11 52.40	0.2
	0.7s	1.40nm		
RMW	123.81	37 ePKP	12 04.36	0.7
WDC	126.42	45 PKP	12 20.00	11.2X
Z	22s	0.51um	5.2Msz	
FCC	126.98	12 ePKP	12 12.50	3.3X
SES	127.88	29 ePKP	12 12.50	1.2
CMB	128.99	47 PKP	12 30.00	16.2X
Z	21s	0.51um	5.2Msz	
LCCM	130.39	34 ePKP	12 18.60	2.2X
		e	15 36.00	
HVU	132.27	39 ePKP	12 21.67	1.6
		eSKP	15 44.50	
ULM	134.11	19 ePKP	12 28.00	4.9X
MSU	134.45	42 ePKP	12 27.23	2.8X
EMUT	134.61	40 ePKP	12 27.53	2.8X
SRU	135.20	40 ePKP	12 27.17	1.4
RSSD	135.67	30 ePKP	12 26.96	0.4
Z	21s	0.56um	5.2Msz	
		eSKP	15 52.77	
		SP	26 59.50	
PV09	136.44	40 ePKP	12 29.78	1.5
PV10	136.57	40 ePKP	12 29.69	1.2
		eSKP	15 58.58	
PV08	136.70	40 ePKP	12 30.95	2.1X
GOL	137.99	36 PKP	12 40.00	8.8X
Z	21s	0.57um	5.3Msz	
TUC	138.57	49 PKP	12 40.00	7.8X
Z	18s	0.35um	5.1Msz	
TCA	139.94	194 ePKP	12 32.20	-2.5X
ALO	140.25	42 ePKP	12 38.25	2.9X
Z	20s	0.09um	4.5Msz	
		eSKP	16 06.34	
CBM	140.54	353 PKP	12 50.00	14.8X
Z	20s	0.48um	5.2Msz	
LMN	141.08	349 ePKP	12 51.50	15.3X
RSNY	143.34	360 ePKP	12 37.04	-3.1X
Z	21s	0.49um	5.2Msz	
ACO	143.61	34 iPKPd	12 36.20	-4.7X
BAO	144.76	229 iPKPc	12 41.90	-1.6
		e	12 43.00	
		e	12 44.90	
		e	13 03.50	
		e	13 13.00	
WMOK	145.21	36 ePKP	12 42.27	-1.4
Z	21s	0.81um	5.5Msz	
HRV	145.27	356 PKP	13 00.00	16.5X
Z	20s	0.63um	5.4Msz	
MEO	145.29	36 iPKPd	12 43.20	-0.6
FSA	145.32	194 iPKP	12 43.60	-0.4
OCO	145.39	34 iPKPd	12 45.50	1.6
FNO	145.62	34 iPKPd	12 44.90	0.6
FVM	146.71	23 ePKP	12 47.06	1.0
ELC	147.78	22 ePKP	12 50.42	2.7X
UYO	148.03	32 iPKPd	12 49.40	1.2
MIAR	148.19	30 ePKP	12 50.81	2.3X
Z	19s	0.48um	5.3Msz	
OLY	148.40	27 ePKP	12 51.01	2.2X
YJA	148.92	197 ePKPc	12 52.00	1.4
CVL	149.71	6 (PKP)	12 53.80	3.1X
		ePKPbc	12 55.28	
NAV	150.05	10 ePKP	12 52.28	0.9
GBTN	150.89	16 ePKP	12 53.50	0.9
		ePKPbc	12 58.30	
TKL	151.01	15 ePKP	12 58.48	5.7X
CEH	151.70	7 PKP	13 00.20	6.4X
Z	19s	0.53um	5.4Msz	
SIV	152.81	210 ePKP	12 56.00	0.1
		i	13 01.00	
LHS	152.81	11 ePKP	13 02.37	7.0X
PRM	152.86	14 ePKP	13 03.86	8.4X
JSC	152.92	12 ePKP	13 02.95	7.4X
		ePKPab	13 14.69	
CCH	153.62	199 PKP	12 58.10	0.7
CNCB	154.70	195 PKP	13 01.50	2.3X
LPB	155.00	195 ePKP	13 03.00	3.6X
		LR	05 28.00	
ZOBO	155.24	195 PKP	13 00.60	0.6
	1.3s	35.49nm		
Z	22s	0.69um	5.4Msz	
		SKS	23 56.00	
		LR	06 10.00	
S.D. = 1.2 on 196 of 239 obs.				

FEB 10, 1993 10h 55m 10.35±0.61s				
46.415 N ± 7.1km 13.075 E ± 5.6km				
DEPTH = 10.0km (geophysicist)				
AUSTRIA (546)				
ML 2.4 (VIE), MD 2.8 (LJU).				
FVI	0.27	311 P	55 15.50	-0.5
		eSg	55 19.60	
RBL	0.34	85 P	55 17.50	0.0
		eSg	55 23.60	
VOY	0.69	124 iPg	55 23.00	-1.0
		eSg	55 34.30	
KBA	0.69	16 iPg	55 24.00	-0.1
		iSg	55 33.00	
TRI	0.85	146 e(P)	55 25.70	-1.1
		eSg	55 38.90	
CTI	1.05	250 P	55 30.60	0.3
		eSg	55 46.40	
SCE	1.13	304 ePg	55 31.80	0.2
CEY	1.16	125 e(Pn)c	55 34.00	2.0
		eSg	55 52.00	
WTTA	1.30	311 iPg	55 34.80	0.2
		iSg	55 52.40	
OGA	1.48	289 ePg	55 39.90	2.6X
VBY	1.77	120 ePn	55 43.40	2.1X
		eSn	56 08.60	
S.D. = 1.0 on 9 of 11 obs.				
FEB 10, 1993 10h 58m 06.96±1.61s				
51.308 N ± 15.5km 15.739 E ± 7.5km				
DEPTH = 5.0km (geophysicist)				
POLAND (548)				
ML 3.8 (GRF), 3.8 (VIE).				
KSP	0.58	143 iP	58 16.90	-1.7
	0.6s	211.00nm		
		i	58 18.00	
		iS	58 26.70	
BRG	1.21	250 iPn	58 30.40	0.4
		iPg	58 31.30	
		iSg	58 50.20	
CLL	1.72	271 iPn	58 35.90	-1.7
		iPg	58 39.70	
		iSg	59 05.20	
VRAC	2.08	164 ePn	58 42.00	-0.8
		eSg	59 14.50	
KHC	2.58	213 Pn	58 51.30	1.1
		ePg	59 03.50	
		Sn	59 22.40	
		Sg	59 35.50	
		e	59 49.00	
HOF	2.64	249 ePn	58 50.70	-0.3
MOX	2.69	257 ePg	59 00.30	8.6X
		iSg	59 38.80	
GEC2	2.79	209 Pn	58 53.40	0.1
		Pg	59 07.20	
		Sg	59 40.20	
OJC	2.80	111 iP	58 54.90	1.7
		iS	59 29.10	
WET	2.84	221 ePn	58 54.50	0.7
VKA	3.07	173 iPg	59 05.40	8.4X
		iSg	59 48.40	
GRF	3.31	242 ePn	59 09.00	8.6X
		ePP	59 14.20	
		eSn	59 41.10	
		e(Sg)	59 56.60	
SPC	3.59	125 e(Pn)	59 13.00	8.5X
		e	09 48.80	
SOP	3.67	171 eP	00 06.50	61.0X
SRO	3.88	153 eP	59 22.90	14.4X
		e	59 45.40	
		i	00 19.10	
KBA	4.52	201 iPnd	59 17.60	-0.1
		i	00 29.00	
		iSg	00 40.70	
TNS	4.75	260 ePnc	59 26.80	5.8X
		ePb	59 39.30	
		eSn	00 16.90	
		eSg	00 43.20	
WTTA	4.86	215 iPnd	59 23.30	0.7
	0.6s	15.40nm		
		i	00 46.10	
S.D. = 1.2 on 11 of 18 obs.				
FEB 10, 1993 12h 22m 20.44±0.16s				
19.300 S ± 2.9km 169.117 E ± 4.1km				
DEPTH = 137.2km (6 depth phases)				

5.1mb (41 obs.)				
VANUATU ISLANDS (186)				
PVC	1.73	334 iPc	22 51.80	-0.2
		iS	23 16.40	
BKM	1.82	333 iPd	22 53.20	0.1
		iS	23 18.00	
DZM	3.72	222 iPc	23 18.20	0.7
		iS	23 59.90	
SVA	8.93	84 eP	24 12.00	-15.7X
HNR	13.23	317 eP	25 24.50	0.4
SVO	13.52	317 eP	25 28.00	0.0
BRS	17.02	239 iPc	26 13.50	1.8
		e	44 39.00	
KUZ	18.32	163 P	26 26.40	-0.4
	0.9s	336.00nm		5.7mb
ARMA	19.32	232 iPd	26 38.70	1.2
	0.6s	28.00nm		4.8mb
WLZ	19.35	164 P	26 37.30	-0.3
	0.9s	51.00nm		4.9mb
HBZ	19.92	158 eP	26 43.00	-0.4
RMQ	20.06	245 eP	26 46.50	1.4
	0.4s	24.00nm		5.0mb
URZ	20.13	161 P	26 45.90	0.3
	0.6s	214.00nm		5.7mb
PUZ	20.33	159 P	26 47.30	-0.4
	0.7s	240.00nm		5.7mb
WHH	20.54	163 P	26 50.70	0.9
CNZ	20.60	166 eP	26 51.30	0.8
PAHZ	20.67	162 eP	26 51.70	0.6
NOZ	20.75	160 P	26 51.60	-0.2
TTH	21.24	163 eP	26 57.40	0.7
WAHZ	21.27	164 P	26 57.20	0.1
CTA	21.54	264 iPc	27 01.00	1.2
	1.0s	42.50nm		4.8mb
		e	27 22.00	101kmX
ORZ	21.65	173 P	27 02.20	1.4
	0.7s	138.00nm		5.5mb
TEHZ	21.66	164 P	27 00.70	-0.2
MNG	21.94	167 P	27 03.60	0.0
	0.4s	124.00nm		5.7mb
KIW	22.06	168 P	27 04.90	0.1
TCW	22.28	170 P	27 07.60	0.7
CAW	22.32	168 P	27 07.20	-0.2
MRW	22.38	169 eP	27 07.80	0.0
MTW	22.46	167 eP	27 08.00	-0.7
DSZ	22.49	175 eP	27 10.40	1.4
THZ	22.62	173 P	27 11.20	0.9
	0.6s	89.00nm		5.3mb
		e	27 21.40	39kmX
BLW	22.66	168 P	27 10.00	-0.6
MOW	22.66	168 P	27 10.10	-0.6
KHZ	23.35	172 P	27 16.60	-0.6
	0.7s	160.00nm		5.6mb
LTZ	23.56	174 P	27 19.60	0.2
	0.7s	357.00nm		5.9mb
CNB	23.65	224 iPd	27 21.60	1.3
	1.0s	427.00nm		5.9mb
BWA	23.76	226 iPc	27 20.50	-0.9
CAN	23.89	224 iPc	27 23.40	0.8
CMS	24.23	235 iPc	27 26.10	0.2
	0.7s	41.00nm		5.0mb
MOZ	24.52	174 P	27 27.50	-0.9
	0.9s	163.00nm		5.5mb
BWZ	25.17	179 eP	27 32.70	-1.7
	0.6s	47.00nm		5.2mb
MSZ	25.32	182 eP	27 35.90	0.1
ODZ	25.70	178 P	27 38.20	-1.2
TUZ	26.59	179 P	27 46.60	-0.8
	0.6s	83.00nm		5.5mb
MDG	26.68	299 eP	27 49.10	0.5
TOO	27.50	224 iPc	27 55.90	0.1
	0.7s	28.00nm		5.0mb
STK	27.72	238 iPc	27 57.70	-0.2
	0.7s	23.90nm		5.0mb
BFD	29.26	227 iPc	28 10.90	-0.8
	0.9s	26.00nm		4.9mb
TAU	29.87	213 eP	28 16.00	-0.9
ADE	31.08	234 eP	28 27.30	-

Z	23s	0.20um	3.8mszX	SKO	144.50	317	iPKP	41	40.20	-1.9	0.9s	37.85nm	BHB	150.39	333	PKP	41	55.36	3.9X
		e	29 14.50		1.1s		44.00nm						BNI	150.46	334	PKPc	41	56.80	5.1X
MTN	37.00	274 eP	29 16.00	-2.5	WET	144.63	333	iPKPc	41	40.70	-1.5	FIN	150.48	331	PKP	41	55.13	3.5X	
WARB	39.63	252 eP	29 40.20	-0.2	GRF	144.90	335	ePKPc	41	41.70	-0.9	RRL	150.53	334	PKP	41	57.01	5.0X	
MEEK	46.83	251 eP	30 37.50	-0.9				e(pPKP)	42	16.70		ROB	150.56	332	PKP	41	55.73	3.9X	
CSY	60.03	203 eP	32 12.50	-2.1	DMU	145.33	356	ePKP	41	42.30	-0.8	BGF	150.57	341	iPKPc	41	56.60	4.9X	
	0.7s	59.00nm		5.7mb	OHR	145.34	316	iPKP	41	43.00	-0.7		0.9s	21.95nm					
MAT	62.75	332 eP	32 31.00	-2.1				i	42	18.00		PZZ	150.73	333	PKP	41	55.64	3.5X	
	1.0s	15.00nm		4.9mb	PTJ	145.45	326	ePKP	41	38.50	-5.2X	ENR	150.81	332	PKP	41	55.54	3.3X	
SPA	70.82	180 iPc	33 22.90	-0.9	BHG	145.69	331	iPKPd	41	44.30	0.3	STV	150.84	333	PKP	41	55.64	3.4X	
	0.9s	290.91nm		6.1mb	DCN	145.91	356	ePKP	41	44.00	-0.1	IMI	150.85	331	PKP	41	56.78	4.5X	
MDJ	73.12	332 eP	33 37.00	-0.4	KBA	145.94	330	iPKPd	41	44.40	-0.3	MAF	150.95	341	iPKPc	41	57.60	5.3X	
CN2	74.45	329 Pd	33 44.60	-0.5		0.7s	9.10nm						1.3s	16.95nm					
	1.0s	17.00nm		4.8mb				i	42	18.20		TCF	151.00	341	iPKPc	41	57.60	5.2X	
		epP	34 18.00	134km				eSg	51	23.00			1.1s	23.70nm					
GYA	75.76	305 P	33 53.00	-0.1	FUR	146.06	333	ePKP	41	45.40	0.8	LSF	151.24	342	iPKPc	41	57.80	5.1X	
TIY	77.80	317 eP	34 04.00	-0.1	VBY	146.08	326	ePKP	41	45.40	0.7		0.7s	10.45nm					
XAN	78.07	313 P	34 05.70	0.0				e	42	20.50		PGF	151.37	328	iPKPc	41	58.60	5.5X	
	1.0s	7.10nm		4.4mb	LJU	146.09	328	e(PKP)	41	43.50	-1.2		0.8s	67.45nm					
KMI	78.21	302 Pc	34 07.50	0.6				e	42	20.00		MFF	151.38	344	iPKPc	41	58.20	5.3X	
MAW	78.33	202 iPc	34 07.10	0.6	CEY	146.35	327	e(PKP)	41	45.50	0.3		0.8s	10.35nm					
	0.8s	57.47nm		5.4mb				e	42	24.50		FRF	151.68	333	iPKPc	41	59.00	5.6X	
CHTO	78.57	295 ePd	34 09.10	0.4	VOY	146.42	328	i(PKP)	41	45.70	0.3		1.0s	33.20nm					
	1.0s	12.25nm		4.6mb				e	42	22.90		LRG	151.89	333	ePKP	41	59.00	5.9X	
HHC	80.19	319 P	34 17.60	0.5	WATA	146.57	332	iPKPc	41	46.10	0.5		0.9s	22.60nm					
	1.0s	5.70nm		4.3mb	WTTA	146.59	332	iPKPc	41	46.50	0.8	LMR	151.92	332	iPKPc	41	59.00	5.8X	
LZH	82.68	312 eP	34 31.00	0.8		0.8s	20.20nm						0.8s	17.35nm					
	1.2s	18.00nm		4.8mb				i	41	49.10		RJF	152.10	341	iPKPc	41	00.00	0.0X	
N	11s	0.35um			MOTA	146.77	332	iPKPc	41	46.90	0.9		1.0s	9.60nm					
SVW	84.99	16 eP	34 41.36	0.2		0.8s	31.90nm					LFF	152.66	342	ePKP	41	00.00	0.0X	
	1.1s	14.64nm		4.7mb	WLF	146.77	340	iPKPc	41	47.57	2.0		0.8s	9.65nm					
CP2	86.05	18 (P)	34 48.71	2.1	LANF	146.78	337	PKP	41	47.27	1.5	LPO	152.76	341	ePKP	41	00.00	0.0X	
GTA	87.08	313 eP	34 53.00	1.0	SOTA	146.82	332	iPKPc	41	47.10	1.1		0.7s	4.65nm					
	1.0s	5.00nm		4.4mb		0.7s	25.80nm						S.D. = 1.0 on 12 of 10 obs.						
ORV	87.21	46 eP	34 52.48	0.1	OGA	147.17	332	ePKP	41	48.50	1.8		FEB 10, 1993 12h 10m 17.81 ± 0.99s						
CMB	87.28	48 ePc	34 52.59	-0.3	WLS	147.42	337	PKP	41	48.70	1.9		40.982 N ± 7.1km						
	0.9s	15.46nm		5.0mb	CDF	147.45	337	PKP	41	48.81	1.9		DEPTH = 10.0km (geophysicist)						
ISA	87.61	51 eP	34 54.77	0.3	CTI	147.50	330	PKP	41	48.90	1.8								
	0.9s	21.11nm		5.1mb	FEL	147.62	336	PKP	41	48.90	1.6		GREECE						
LBFM	87.78	45 eP	34 55.81	0.4	ECH	147.66	337	PKP	41	48.81	1.6								
PEC	87.83	53 eP	34 55.50	-0.1	BCAO	147.73	247	iPKPd	41	47.00	-1.3		SOH	0.24	131	ePg	49	15.50	-0.2
	0.7s	15.94nm		5.1mb		0.3s	55.00nm					KNT	0.24	318	ePg	49	27.50	0.4	
PLM	87.83	54 eP	34 55.62	-0.1				ic	41	50.20		SRS	0.39	69	ePg	49	49.00	-0.9	
GSC	88.69	52 eP	35 00.00	0.3				ic	42	04.20									
BONR	88.72	49 eP	34 59.87	-0.2				ic	42	26.00		VAY	0.53	310	iPn	49	40.00	-0.9	
		epP	35 33.79	131km	MOF	147.97	337	PKP	41	49.72	1.9	GRG	0.54	268	ePg	49	47.50	-0.7	
NVL	88.78	187 eP	34 54.00	-5.5X	BSF	148.12	337	PKP	41	50.45	2.4X	OUR	0.92	134	ePg	49	53.10	-1.4	
	1.0s	73.00nm		5.7mb	HAU	148.13	338	iPKPc	41	50.60	2.7X	PAIG	1.14	158	ePg	49	58.00	1.3	
BALM	89.00	21 (P)	34 59.05	-1.6		0.8s	24.30nm						S.D. = 0.2 on 6 of 10 obs.						
GLA	89.27	55 eP	35 02.56	0.2	BBS	148.15	336	PKP	41	50.23	2.2X		FEB 10, 1993 12h 49m 00.00 ± 0.99s						
SHW	89.85	40 eP	35 04.70	-0.2	LOMF	148.51	337	PKP	41	51.49	2.8X		37.413 N ± 7.2km						
FBA	90.17	17 eP	35 03.23	-2.6	VAI	148.93	333	PKP	41	52.00	2.8X		DEPTH = 10.0km (geophysicist)						
	0.8s	2.61nm		4.4mb	SFI	148.94	327	PKP	41	53.20	3.9X		TURKEY						
GMW	90.17	39 eP	35 05.35	-0.9	PGD	149.03	327	PKP	41	53.80	4.1X		ML 3.7 (CSS).						
		epP	35 41.61	141km	ASS	149.10	325	PKP	41	52.80	3.1X		ADAT	0.78	243	ePn	49	15.50	-0.2
LON	90.38	40 ePd	35 06.80	-0.4	SGO	149.15	319	PKP	41	53.10	3.4X		BNN	1.46	349	iPn	49	27.50	0.4
MCW	90.69	38 eP	35 08.54	-0.1	FLN	149.43	346	ePKP	41	53.50	3.6X								
RMW	90.71	39 ePc	35 08.88	0.1		1.0s	30.80nm					SVST	2.42	13	eSg	49	49.00	-0.9	
		epP	35 43.23	133km	ORX	149.45	333	PKP	41	53.30	3.1X								
TUC	92.13	57 ePc	35 16.24	0.5	ORO	149.46	333	PKP	41	53.50	3.3X								
	1.0s	19.12nm		5.2mb	BDI	149.46	329	PKP	41	52.80	2.6X	TRHT	2.93	359	eP	49	47.50	-0.7	
MSU	93.36	50 eP	35 21.57	0.2	BOB	149.48	331	PKP	41	53.90	3.7X								
DAU	94.72	49 eP	35 27.96	0.2	LDF	149.51	346	iPKPc	41	53.60	3.6X		CSS	3.38	225	eP	49	53.10	-1.4
SRU	94.78	50 eP	35 27.60	-0.3		1.0s	14.00nm												
PV09	95.59	51 eP	35 31.43	-0.3	LOR	149.61	340	iPKPc	41	54.30	4.1X		BHL	3.53	188	Pn	49	58.00	1.3
PV10	95.61	51 eP	35 31.70	-0.1		0.8s	23.65nm												
PV08	95.97	51 eP	35 33.31	-0.2	LBF	149.82	340	iPKPc	41	54.80	4.2X								
YKA	100.78	27 ePd	35 52.70	-1.5		1.0s	11.80nm						BBTK	3.64	313	eP	50	05.50	7.2X
	0.8s	1.40nm		4.6mb	GRR	149.87	347	iPKPc	41	54.80	4.3X								
BUL	124.91	227 iPKPc	40 49.80	-16.8X		1.0s	30.00nm					KVT	3.67	358	iP	50	08.00	9.4X	
KAF	130.07	338 iPKP	41 12.60	-2.4X	SSF	149.91	340	iPKPc	41	55.20	4.5X	MRFT	3.77	326	eP	50	01.00	0.9	
	0.6s	3.20nm				0.9s	27.85nm					KAS	4.39	335	eP	50	09.50	0.7	
NUR	131.74	337 ePKP	41 18.00	-0.2	LSO	149.94	334	PKP	41	55.68	4.6X		S.D. = 1.1 on 8 of 10 obs.						
NB2	135.47	345 PKP	41 24.70	-0.7	SOI	150.03	314	PKPc	41	56.00	4.9X		FEB 10, 1993 13h 10m 17.81 ± 0.99s						
	0.8s	2.90nm			LPL	150.06	335	iPKPc	41	56.00	4.8X		38.915 N ± 8.7km						
HFS	135.59	343 ePKP	41 24.00	-1.5		0.8s	19.50nm						DEPTH = 10.0km (geophysicist)						
	0.4s	0.70nm			PCP	150.07	332	PKP	41	54.77	3.7X		TURKEY						
CLL	142.92	335 e(PKP)	41 38.00	-1.1	LPG	150.07	335	iPKPc	41	56.20	4.9X		MD 2.7 (ISK).						
MOX	143.99	336 iPKPd	41 38.50	-2.5X		0.8s	23.25nm												
	1.5s	15.00nm			RSP	150.14	334	PKP	41	54.40	3.2X		Izm	0.58	207	iPg	10	29.60	0.0
		i	42 14.20		SMF	150.17	339	ePKP	41	55.60	4.5X								
HOF	144.15	335 iPKPd	41 39.00	-2.3X		1.2s	17.25nm												

? FEB 10, 1993 13h 58m 49.24± 4.22s
32.513 S ±30.5km 71.428 W ±20.6km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.3 (SAN).

ROCH	0.58	143	iPd	59	01.53	0.4
			iS	59	10.29	
JACH	0.72	104	iP+	59	03.07	0.0
			iS	59	14.38	
PEL	0.89	135	iPd	59	05.51	0.1
			iS	59	17.09	
LCCH	0.97	187	iPd	59	06.85	0.4
			iS	59	19.35	
TACH	1.21	160	iP	59	09.94	0.0
			iS	59	25.33	
FCH	1.26	131	iP	59	10.72	-0.2
			iS	59	26.45	
PCH	1.35	145	iP	59	11.69	-0.3
			iS	59	28.64	
LNv	1.44	179	iP	59	12.70	-0.5
			iS	59	30.65	
CHCH	1.56	156	iP	59	15.06	0.0
			iS	59	34.32	

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

& FEB 10, 1993 16h 52m 01.95s
33.955 N 119.324 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

SSK	1.38	79	eP	52	25.91	-1.9
			eS	52	45.68	
BCH	1.38	333	eP	52	25.28	-2.5
PEC	1.80	91	eP	52	32.47	-1.3
PLM	2.14	106	eP	52	40.40	1.6
GSC	2.47	56	eP	52	41.52	-2.0

5 obs. associated

& FEB 10, 1993 17h 00m 37.97s
34.390 N 116.454 W
DEPTH = 2.5km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS), 2.9 (GS).

PEC	0.77	230	ePd	00	52.12	-1.2
			eS	01	01.43	
GSC	0.95	343	ePc	00	55.81	-1.1
			eS	01	08.58	
SSK	1.04	260	eP	00	57.26	-1.2
			eS	01	10.97	
PLM	1.09	198	ePd	00	58.07	-1.2
			eS	01	12.89	
GLA	1.90	134	eP	01	08.23	-3.5
ISA	2.09	308	ePn	01	13.50	-0.9
			ePg	01	16.28	
BCH	3.09	286	ePn	01	27.60	-1.2
TNP	3.74	351	(Pn)	01	36.80	-1.3
MEMM	3.84	329	(Pn)	01	38.74	-0.6
BONR	3.86	338	ePn	01	39.16	-0.7
			ePg	01	49.57	
ARUT	4.18	35	ePn	01	42.24	-2.0
KVN	4.84	345	(P)	01	52.04	-1.6
MSU	5.37	39	(Pn)	02	02.41	1.2
			ePg	02	11.32	
SRU	6.70	44	(P)	02	19.36	-0.6
EMUT	7.04	38	(P)	02	25.78	1.0

15 obs. associated

FEB 10, 1993 17h 20m 18.84± 0.36s
19.901 S ± 8.7km 163.305 E ± 6.8km
DEPTH = 21.6km (3 depth phases)
4.8mb (8 obs.) 4.9msz (2 obs.)
NEW CALEDONIA (187)

DZM	3.64	127	iPc	21	14.00	-1.4
BKM	5.18	65	iPd	21	38.60	1.5
			iS	22	32.00	
ARMA	14.87	223	eP	23	50.60	0.9
CTA	16.03	266	iPc	24	05.80	1.1
CMS	19.49	230	eP	24	46.80	-0.8
	0.4s	6.00nm			4.2mb	
			i	24	53.50	25km
CAN	19.88	216	eP	24	52.50	0.8
STK	22.84	234	iPd	25	23.40	1.7

WB2	27.21	265	eP	26	01.70	-1.5
	0.5s	8.00nm			4.6mb	
ASPA	27.54	257	iPc	26	05.10	-1.1
	1.1s	13.10nm			4.5mb	
MEEK	41.44	252	eP	28	05.50	-0.3
CHTO	73.91	297	eP	31	54.80	0.3
KMI	73.96	305	Pc	31	55.50	0.5
	1.5s	50.00nm			5.3mb	
		pP	32	02.50	22km	
TIY	74.64	320	eP	31	57.80	-0.7
	Z 20s	1.00um			5.1msz	
	N 19s	0.89um				
CD2	76.29	310	eP	32	08.00	-0.1
LZH	79.11	315	Pc	32	24.50	0.8
	1.2s	23.00nm			5.1mb	
	Z 18s	0.39um			4.8msz	
		pP	32	30.00	18km	
GTA	83.60	316	eP	32	48.00	0.9
	1.0s	12.00nm			5.0mb	
YAK	85.91	345	eP	32	57.10	-0.9
	1.2s	25.00nm			5.3mb	
GUN	88.64	300	P	33	10.20	-2.2
PKI	88.89	300	P	33	11.80	-1.8
KKN	89.08	300	P	33	14.80	0.4
DMN	89.15	300	P	33	15.60	0.8
GKN	89.69	300	P	33	17.20	0.1
EKA	143.17	347	PKPd	39	51.80	-0.9
	2.1s	36.20nm				
WTTA	144.28	326	iPKPd	39	42.00	-13.1X
	1.2s	14.50nm				
		i	39	45.60		
		i	39	53.50		
WLS	145.58	331	PKP	39	56.93	-0.1
CDF	145.61	331	PKP	39	56.98	-0.2
LIBD	145.65	331	PKP	39	57.33	0.2
FEL	145.66	330	PKP	39	56.98	-0.4
MOF	146.09	331	PKP	39	57.90	-0.1
BSF	146.26	331	ePKP	39	58.30	0.0
	1.2s	14.90nm				
HAU	146.33	332	ePKP	39	58.50	0.2
	1.3s	19.15nm				
VITF	146.33	332	PKP	39	59.27	1.0
LOMF	146.60	330	PKP	40	00.03	1.2
LPG	147.97	328	ePKP	40	04.00	2.7X
LOR	147.98	333	ePKP	40	03.20	2.3X
	1.0s	6.80nm				
SSF	148.29	333	ePKP	40	04.10	2.7X
	1.1s	12.20nm				
GRR	148.84	339	ePKP	40	05.40	3.2X
	1.3s	29.95nm				
LPF	149.21	339	ePKP	40	06.60	3.8X
	1.2s	43.75nm				
MAF	149.35	333	ePKP	40	06.70	3.6X
TCF	149.45	334	ePKP	40	07.20	3.9X
	1.3s	20.95nm				
MFF	150.12	337	ePKP	40	08.60	4.4X
	1.3s	30.35nm				
RJF	150.52	333	ePKP	40	09.60	4.7X
	1.1s	11.00nm				
CAF	150.59	332	ePKP	40	10.40	5.3X
	1.4s	16.55nm				
LPO	151.16	333	ePKP	40	11.30	5.4X
	1.2s	14.00nm				

S.D. = 1.0 on 32 of 44 obs.

? FEB 10, 1993 17h 33m 33.00± 6.86s
32.438 S ±39.9km 72.065 W ±37.0km
DEPTH = 11.6 ± 4.9 km
OFF COAST OF CENTRAL CHILE (134)
MD 3.5 (SAN).

ROCH	1.04	121	iP	33	52.41	-0.2
			iS	34	01.72	
LCCH	1.11	158	iP	33	53.89	0.1
			iS	34	04.20	
JACH	1.27	101	iP	33	56.69	0.2
			iS	34	10.87	
PEL	1.36	122	iP+	33	57.53	-0.3
			iS	34	11.12	
TACH	1.54	142	iP	33	59.99	-0.3
			iS	34	14.65	
LNv	1.61	160	iP	34	01.24	-0.1
			iS	34	18.05	
FCH	1.74	121	iP	34	03.50	0.0
			iS	34	21.35	

PCH 1.76 133 iP 34 03.65 0.1
CHCH 1.90 142 iP 34 06.05 0.4
S.D. = 0.3 on 9 of 9 obs.

% FEB 10, 1993 18h 20m 04.97± 3.29s
15.843 N ±18.1km 60.689 W ±33.4km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 2.7 (FDF).

MGG	0.61	277	eP	20	17.40	0.3
			S	20	25.60	
DOG	0.91	282	eP	20	21.40	-0.1
SEG	0.96	305	eP	20	22.00	-0.1
CRM	1.11	191	iPc	20	24.30	0.1
			S	20	38.40	
FDF	1.19	202	eP	20	24.90	-0.5
			S	20	39.90	
MVM	1.30	189	iPd	20	27.12	0.2
			S	20	43.20	
BIM	1.37	196	eP	20	28.07	0.1
			S	20	44.80	

S.D. = 0.3 on 7 of 7 obs.

* FEB 10, 1993 20h 15m 26.40± 1.26s
6.573 S ± 8.6km 130.939 E ±11.7km
DEPTH = 78.8 ± 14.2 km
5.1mb (2 obs.)
BANDA SEA (280)

AAI	3.96	316	iP	16	26.10	0.1
MTN	6.24	178	eP	16	58.10	0.3
	0.3s	191.00nm			6.0mb X	
		eS	18	07.00		
WB2	13.70	166	eP	18	35.60	-3.0X
			eS	21	00.50	
LAT	15.96	91	eP	19	07.00	-0.6
ASPA	17.23	171	iPc	19	22.60	-1.0
	0.4s	53.50nm			5.1mb	
		eS	22	21.80		
WARB	19.93	191	eP	19	56.00	1.5
			eS	23	24.00	
CTA	20.04	134	iPc	20	02.50	6.8X
STK	27.07	160	eP	21	10.70	7.2X
	0.9s	1.70nm			3.6mb X	
		e	21	27.60		
CHTO	40.39	309	eP	22	57.70	-0.8
KMI	41.78	320	eP	23	11.00	0.9
XAN	45.45	334	eP	23	39.60	0.2
CN2	50.38	355	eP	24	19.50	2.0
LSA	52.54	315	P	24	35.50	0.8
GUN	55.38	310	P	24	54.80	-0.5
PKI	55.56	310	P	24	55.60	-1.0
	0.6s	9.00nm			5.0mb	
KKN	55.77	310	P	24	57.20	-0.8
DMN	55.81	310	P	24	57.	

															Lake area. Felt (III) at Litchfield and Wendel, California.					
QUE	12.47	254	eP	28 38.50	ATH	1.91	81	ePb	28 23.60	-0.8										
			SS	30 49.00	IGT	2.00	337	ePn	28 26.40	0.8										
			eP	28 56.20	KEK	2.35	330	ePg	28 26.00	5.5X										
			e	31 27.70	LIT	2.57	20	ePn	28 34.20	0.4										
			e	33 48.00	KZN	2.64	7	iPnd	28 35.90	1.1										
GTA	15.96	67	eP	29 47.50	PAIG	2.89	39	ePn	28 37.96	-0.4										
	1.0s																			
			pP	29 54.00	FNA	3.09	1	ePn	28 41.20	0.0										
HYB	17.16	187	eP	29 54.20	OUR	3.35	37	ePn	28 44.60	-0.2										
MAIO	17.45	282	eP	30 04.00																
LZH	18.88	79	eP	30 19.50	GRG	3.37	14	ePn	28 44.60	-0.4										
	1.2s																			
			15.00nm	4.1mb																
Z	20s																			
			0.30um	4.3MszX																
GBA	21.06	189	P	30 43.00	OHR	3.44	353	iPn	28 46.40	0.3										
KMi	21.19	110	eP	30 44.50																
	1.0s																			
			30.00nm	4.6mb																
			pP	30 54.00	SOH	3.50	26	iPn	28 47.04	0.1										
CHTO	22.49	129	eP	30 58.30	KNT	3.67	19	ePn	28 49.32	-0.1										
GYA	23.66	103	P	31 14.00	VAY	3.75	14	iPn	28 50.40	-0.1										
	1.0s																			
			12.00nm	4.4mb																
NST	25.59	132	eP	31 31.50	SRS	3.85	26	ePn	28 51.52	-0.3										
TIY	25.70	74	eP	31 29.60	SKO	4.28	1	iPn	28 56.70	-1.2										
			0.73um	4.2Msz																
			0.97um																	
HFS	49.51	323	eP	34 50.20	ORI	4.48	303	P	29 02.70	1.9										
	0.6s																			
			1.90nm	4.2mb																
Z	16s																			
			0.05um	3.6MszX																
			LR	55 19.00	BRT	4.51	316	P	29 05.00	3.8X										
NAO	50.91	324	P	35 00.30	ATN	4.66	278	P	29 04.40	1.1										
	0.8s																			
			2.70nm	4.2mb																
LPG	55.89	305	eP	35 37.70	RDO	4.75	42	ePn	29 04.00	-0.5										
	0.8s																			
			4.45nm	4.5mb																
LPL	55.90	305	eP	35 38.60	MGR	5.12	300	P	29 11.50	1.7										
	1.0s																			
			7.20nm	4.7mb																
SSF	57.59	308	eP	35 49.50	MEU	5.13	265	P	29 07.80	-2.2										
	1.1s																			
			5.60nm	4.5mb																
AVF	57.77	308	eP	35 50.80	MNO	5.26	275	P	29 10.30	-1.7										
	1.3s																			
			8.30nm	4.6mb																
BCAO	64.75	257	ePd	36 37.10	SGO	5.49	303	P	29 15.60	0.6										
	0.9s																			
			5.00nm	4.7mb																
WRA	74.33	128	P	37 36.80	MLR	8.53	22	eP	30 00.00	2.6X										
	1.0s																			
			1.60nm	4.0mb																
WB2	74.34	128	eP	37 36.00	VBY	9.03	332	ePn	30 03.50	-0.8										
	0.6s																			
			3.90nm	4.6mb																
YKA	82.52	7	eP	38 19.70	VRI	9.11	25	eP	30 09.00	3.6X										
	0.6s																			
			1.40nm	4.3mb																
CNCB	146.97	294	ePKP	45 44.00	KHC	12.74	336	eP	31 06.00	11.5X										

LCL	0.88	103	eP	13	49.30	1.0
MMCZ	0.91	91	Pc	13	49.70	1.1
BCZ	1.01	181	P	13	48.60	-1.1
			eS	14	05.40	
MHZ	1.01	94	Pc	13	50.60	0.7
CMCZ	1.02	99	Pc	13	50.70	0.7
			eS	14	08.30	
SBCZ	1.04	96	P	13	50.70	0.5
LRCZ	1.06	94	P	13	51.00	0.4
LS CZ	1.08	97	P	13	51.00	0.3
MSCZ	1.11	96	P	13	51.50	0.4
BWZ	1.52	73	P	13	55.20	-1.2
TUZ	1.58	128	Pd	13	56.40	-0.8
			eS	14	17.60	
LMZ	1.63	39	eP	13	55.80	-2.2
ODZ	1.98	92	P	14	01.00	-1.8
			eS	14	26.20	
S.D. = 1.3 on 14 of 14 obs.						

?	FEB 10, 1993	22h	17m	47.47± 4.49s		
	41.523 N ±25.8km			23.790 E ±21.4km		
	DEPTH = 10.0km			(geophysicist)		
GREECE-BULGARIA BORDER REGION (363)						
SRS	0.43	200	ePg	17	56.20	-0.1
			eSg	18	05.60	
KNT	0.76	242	ePg	18	02.40	0.0
			eSg	18	15.80	
SOH	0.77	205	ePg	18	02.80	0.2
VAY	0.94	258	ePn	18	05.40	0.0
GRG	1.19	242	ePb	18	09.60	-0.1
OUR	1.20	173	ePb	18	09.72	0.0
S.D. = 0.1 on 6 of 6 obs.						

?	FEB 10, 1993	22h	38m	08.68± 1.06s		
	42.192 N ±11.8km			43.604 E ± 9.4km		
	DEPTH = 10.0km			(geophysicist)		
NORTHWESTERN CAUCASUS (362)						
MTA	1.02	118	iPg	38	27.20	-0.7
PYA	1.88	348	iPg	38	40.50	-0.7
			iS	39	03.00	
KIV	1.89	340	Pg	38	40.80	-0.5
			e	39	06.00	
GRO	1.92	52	iPg	38	43.00	1.3
			i	39	09.00	
TBZ	3.11	249	ePn	39	04.00	5.4X
SOC	3.18	297	ePn	39	09.00	9.4X
			eS	39	47.00	
GRS	3.39	142	ePn	39	11.00	8.1X
			i	39	56.00	
ANN	5.31	303	ePn	39	40.00	10.1X
			eS	40	32.00	
KAS	7.40	267	eP	40	00.00	0.6
S.D. = 1.3 on 5 of 9 obs.						

	FEB 10, 1993	22h	48m	13.96± 0.72s		
	49.177 N ± 6.9km			6.826 E ± 5.8km		
	DEPTH = 10.0km			(geophysicist)		
GERMANY (543)						
RUP	0.55	16	ePg	48	24.84	-0.2
WLF	0.66	318	iPd	48	27.09	0.1
ABH	0.85	33	ePg	48	29.92	-0.4
TNS	1.49	45	ePnd	48	41.90	1.1
			ePg	48	46.20	
			iSn	49	01.00	
			eSg	49	04.80	
FEL	1.52	148	ePg	48	41.59	0.2
ENN	1.70	340	ePn	48	43.80	0.1
	0.6s	2.10nm				
			iPg	48	46.00	
			eSn	49	09.50	</

S.D. = 0.8 on 10 of 11 obs.

* FEB 10, 1993 23h 46m 35.61± 0.76s
 38.097 N ± 8.6km 22.861 E ± 9.4km
 DEPTH = 33.0km (normal)

GREECE (364)

MD 2.9 (ATH).

ATH	0.69	100	ePn	46	49.00	0.2
VLI	1.38	177	ePn	46	58.50	-0.2
VLS	1.79	273	ePn	47	05.00	0.3
KZN	2.36	339	ePn	47	13.00	0.0
OHR	3.41	333	ePn	47	27.50	-0.3

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

* FEB 11, 1993 00h 20m 09.10± 0.69s
 39.336 N ± 8.9km 28.841 E ± 9.5km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK).

DST	0.32	329	iPg	20	15.20	-0.3
			iSg	20	19.20	
KCT	0.99	338	iPn	20	28.50	0.2
ALT	1.03	105	ePn	20	29.00	0.0
KHL	1.14	152	ePn	20	31.00	0.0
EDC	1.26	324	ePn	20	33.00	0.1
EZN	2.01	285	ePn	20	44.00	0.0

S.D. = 0.2 on 6 of 6 obs.

FEB 11, 1993 00h 55m 08.42± 0.22s
 44.433 N ± 1.6km 7.284 E ± 2.4km
 DEPTH = 13.1 ± 2.3 km

NORTHERN ITALY (545)

ML 2.8 (LDG), 2.3 (GEN), 2.1 (STR).

DOI	0.08	339	Pd	55	11.60	0.2
			eSg	55	13.40	
PZZ	0.15	299	P	55	12.28	-0.1
			S	55	14.43	
STV	0.19	171	P	55	12.78	-0.2
			S	55	15.21	
ENR	0.23	155	P	55	13.47	-0.2
			S	55	16.35	
BHB	0.41	358	P	55	16.40	-0.5
			S	55	21.89	
TOUF	0.42	184	Pg	55	16.75	-0.4
ROB	0.44	108	P	55	17.72	0.2
			S	55	24.31	
AUTN	0.45	167	Pg	55	17.46	-0.3
			Sg	55	22.91	
SAOF	0.49	156	Pg	55	18.12	-0.2
			Sg	55	24.14	
AURF	0.55	177	Pg	55	19.04	-0.4
			Sg	55	26.37	
SBF	0.58	169	Pg	55	20.04	0.1
			Sg	55	27.52	
RRL	0.60	324	P	55	19.97	-0.5
			S	55	28.21	
IMI	0.68	140	P	55	21.48	-0.2
			S	55	30.63	
REVF	0.70	175	Pg	55	22.17	0.2
FIN	0.70	108	P	55	22.03	0.0
			S	55	31.50	
CKI	0.71	90	P	55	22.60	0.4
			eSg	55	33.00	
RSP	0.72	358	P	55	22.21	-0.2
			S	55	31.92	
CALN	0.74	203	Pg	55	22.97	0.3
			Sg	55	32.18	
BNI	0.76	325	P	55	22.80	-0.2
			eSg	55	32.00	
PCP	0.91	83	P	55	26.19	0.6
FRF	0.99	208	Pg	55	27.20	0.4
			Sg	55	39.00	
LSD	1.03	355	P	55	27.88	0.1
			S	55	40.67	
LPG	1.13	341	Pg	55	29.60	0.1
			Sg	55	45.80	
LPL	1.15	340	Pg	55	30.00	0.2
LRG	1.18	215	Pg	55	30.20	0.0
			Sg	55	45.70	
LMR	1.23	207	Pg	55	31.10	0.1
			Sg	55	46.40	
CDR	1.33	236	e(Pg)c	55	33.60	1.0
			e	55	49.30	

PGF 2.26 146 Pn 25 54.90
 S.D. = 0.4 on 28 of 28 obs.

* FEB 11, 1993 01h 13m 06.63± 0.32s
 14.591 S ± 8.6km 167.505 E ± 12.3km
 DEPTH = 181.9km (2 depth phases)
 4.5mb (5 obs.)

VANUATU ISLANDS (186)

BKM	3.14	167	iPd	13	57.20	-0.4
			iS	14	36.00	
DZM	7.51	188	iPc	14	54.90	0.4
			iS	15	41.60	
HNR	9.00	304	eP	15	15.00	1.0
			eS	15	55.50	
SVO	9.27	305	eP	15	24.50	7.0X
BRS	18.72	225	eP	17	12.00	-2.0
			ePP	18	04.00	
			iS	20	36.00	
PMG	20.55	282	eP	17	31.00	-1.6
CTA	21.00	252	P	17	41.00	3.9X
RMO	21.14	233	iPc	17	40.10	1.7
			0.5s	32	00nm	5.1mb
			e	18	26.00	
ARMA	21.48	220	eP	17	43.00	1.2
			0.3s	5	00nm	4.5mb
CMS	26.01	226	iPc	18	24.20	-0.3
			0.9s	18	00nm	4.8mb
			e	19	05.70	211kmX
BWA	26.21	218	eP	18	24.60	-1.8
			e	19	00.70	179km
			i	19	19.40	
CAN	26.51	216	eP	18	30.20	1.1
			e	19	07.60	185km
			e	19	25.40	
STK	29.26	230	iPc	18	53.50	-0.3
			0.8s	743	50nm	6.5mb X
F8A	86.15	18	eP	25	27.28	-0.6
			0.6s	2	94nm	4.3mb
YKA	97.32	27	eP	26	18.50	-1.1
			0.8s	0	50nm	4.0mb
HFS	130.66	343	ePKP	31	56.00	-1.0
			0.4s	0	60nm	
NAO	130.83	345	PKP	31	56.80	-0.5
			0.7s	0	90nm	
GEC2	139.62	333	PKP	32	14.40	0.0
			0.6s	0	21nm	
CDF	142.53	338	ePKP	32	16.50	-3.0
			0.7s	2	75nm	
BSF	143.20	338	ePKP	32	18.60	-2.1
HAU	143.21	339	ePKP	32	19.10	-1.5
			0.8s	3	75nm	
SFI	144.14	329	PKP	32	21.90	-0.3
PGD	144.24	329	PKP	32	21.90	-0.8
AQU	144.45	326	PKP	32	21.80	-1.1
TDS	144.48	320	PKP	32	22.30	-0.7
FLN	144.52	346	iPKPc	32	21.60	-1.2
			0.9s	10	00nm	
FIR	144.54	330	ePKP	32	23.00	0.1
SGO	144.55	322	PKP	32	21.70	-1.4
ORX	144.56	335	PKP	32	21.98	-1.1
ORO	144.57	335	PKP	32	21.60	-1.5
LDF	144.59	346	iPKPc	32	21.90	-1.0
			0.7s	6	40nm	
BOB	144.63	333	PKP	32	22.50	-0.7
BDI	144.64	331	PKP	32	21.30	-1.9
MGR	144.66	321	PKP	32	21.40	-1.9
SDI	144.66	325	PKP	32	22.00	-1.3
LOR	144.68	341	iPKPc	32	22.80	-0.3
			0.7s	4	85nm	
LBF	144.90	340	iPKPc	32	23.40	-0.1
			0.9s	11	95nm	
PII	144.93	330	PKP	32	21.90	-1.7
GRR	144.95	346	iPKPc	32	23.50	0.0
			0.6s	15	50nm	
SSF	144.98	341	iPKPc	32	24.00	0.4
			0.7s	23	05nm	
LSD	145.04	336	PKP	32	24.77	0.6
LPL	145.16	336	iPKPc	32	25.00	0.7
			0.7s	14	00nm	
LPG	145.17	336	iPKPc	32	25.10	0.7
			0.7s	17	20nm	
PCP	145.20	333	PKP	32	25.23	1.1
SMF	145.24	340	iPKPc	32	24.60	0.5
			0.8s	13	45nm	
RSP	145.25	335	PKP	32	24.72	0.4

AVF 145.27 341 iPKPc 32 24.60 0.5

0.7s 6.40nm

LPF 145.33 346 iPKPc 32 24.80 0.7

0.5s 9.55nm

BHB 145.50 335 PKP 32 23.81 -0.8

BNI 145.57 336 PKP 32 25.90 1.0

SOI 145.58 318 PKP 32 25.70 0.8

FIN 145.61 333 PKP 32 24.86 0.0

RRL 145.63 335 PKP 32 26.42 1.3

BGF 145.64 341 iPKPc 32 25.80 1.0

0.7s 13.45nm

ROB 145.69 334 PKP 32 25.18 0.2

PZZ 145.84 335 PKP 32 26.28 0.9

ENR 145.94 334 PKP 32 24.77 -0.7

STV 145.96 334 PKP 32 25.55 0.1

IMI 145.99 333 PKP 32 26.37 0.9

MAF 146.02 341 iPKPc 32 27.10 1.7

0.7s 5.20nm

TCF 146.07 342 iPKPc 32 27.20 1.7

0.7s 5.85nm

SBF 146.22 334 iPKPc 32 27.30 1.4

0.7s 30.65nm

LSF 146.31 342 iPKPc 32 27.60 1.7

0.8s 11.30nm

MFF 146.45 345 iPKPc 32 28.20 2.1

0.7s 14.00nm

PGF 146.55 331 iPKPc 32 28.50 2.0

0.8s 15.30nm

FRF 146.80 334 iPKPc 32 29.00 2.3

0.9s 20.15nm

LMR 147.05 334 iPKPc 32 29.70 2.6

0.9s 16.05nm

RJF 147.17 342 iPKPc 32 30.40 3.1X

0.7s 7.60nm

CAF 147.34 341 iPKPc 32 31.00 3.4X

0.8s 3.75nm

LFF 147.73 342 iPKPc 32 31.90 3.7X

0.7s 13.45nm

BCAO 147.82 255 iPKPc 32 31.80 2.5

0.7s 18.00nm

ic 32 35.00

id 33 17.20

id 33 24.00

id 33 37.00

id 34 42.30

LPO 147.83 342 iPKPc 32 32.

? FEB 11, 1993 03h 42m 17.55±1.73s
 36.489 N ±21.4km 32.131 E ±22.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 ML 2.4 (CSS).

BCK 1.57 309 ePn 42 45.40 -0.2
 PPCY 1.61 174 eP 42 45.80 -0.3
 ELL 1.81 279 ePn 42 49.30 0.2
 CSS 1.81 147 eP 42 49.20 0.2
 S.D. = 0.4 on 4 af 4 abs.

FEB 11, 1993 03h 47m 54.52±0.55s
 41.963 N ± 6.2km 142.745 E ± 9.4km
 DEPTH = 67.6 ± 6.2 km
 4.3mb (9 obs.)
 HOKKAIDO, JAPAN REGION (224)

HOOJ 0.58 44 P 48 07.90 -0.2
 MRRJ 1.33 291 eP 48 16.20 -1.2
 KUSJ 1.84 51 P 48 24.40 -0.1
 ASAJ 2.16 358 eP 48 29.60 0.8
 AOMJ 2.27 233 eP 48 31.40 0.9
 OFUJ 2.99 196 P 48 40.30 -0.3
 YAMJ 4.32 210 P 48 59.40 0.2
 NIJJ 5.53 213 eP 49 16.00 -0.2
 KAKJ 6.09 200 P 49 21.00 -2.9
 MAT 6.46 214 eP 49 29.00 -0.1
 CHJJ 6.59 208 eP 49 30.50 -0.4
 MTMJ 6.60 217 eP 49 32.90 1.8
 IUDJ 7.49 212 P 49 43.70 0.2
 TSRJ 8.31 222 eP 49 56.80 2.2
 FBA 44.43 35 (P) 56 01.00 1.1
 GUN 47.86 272 P 56 27.80 -0.1
 KKN 48.37 272 P 56 31.20 -0.5
 PKI 48.39 272 P 56 31.40 -0.6
 DMN 48.60 272 P 56 33.40 -0.1
 GKN 48.73 273 P 56 34.20 -0.2
 WRA 62.08 189 P 58 10.10 -0.2
 HFS 70.03 336 eP 58 58.90 -1.6
 NAO 70.33 337 P 59 01.00 -1.4
 GEC2 79.06 328 P 59 52.80 0.1
 LOR 83.97 333 eP 00 17.10 -1.2
 LPL 84.47 331 eP 00 22.50 1.4
 LPG 84.48 331 eP 00 22.70 1.5
 AVF 84.55 333 eP 00 21.30 0.1
 CAF 86.62 333 eP 00 32.60 1.0
 S.D. = 1.1 on 29 af 29 abs.

* FEB 11, 1993 03h 48m 23.42±0.69s
 24.832 S ± 6.0km 69.176 W ±11.8km
 DEPTH = 153.1 ± 22.6 km
 NORTHERN CHILE (123)

ANT 1.59 314 iPd 48 54.20 -0.3
 FSA 3.12 114 eP 49 13.20 0.3
 SLA 3.35 89 ePd 49 15.80 -0.3
 YJA 4.29 53 ePc 49 23.70 -5.0X
 RTRS 5.32 183 ePd 49 43.60 1.6
 RTPR 5.94 157 ePd 49 49.60 -0.6
 RTCB 6.64 177 eP 50 00.00 0.2
 RTBS 6.81 182 eP 50 02.70 0.7
 TCA 7.64 149 iP 50 12.20 -1.0
 CNCB 8.06 8 P 50 19.30 0.0

MRA 8.14 159 ePc 50 18.70 -1.1
 LPB 8.32 7 eP 50 25.00 2.4
 ARE 8.60 345 eP 50 24.00 -2.3
 SIV 11.62 42 P 51 06.00 0.3
 S.D. = 1.4 on 13 af 14 abs.

% FEB 11, 1993 04h 49m 02.68±1.44s
 17.551 N ±11.3km 62.083 W ± 9.8km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 MD 3.0 (TRN).

CPB 0.26 70 eP 49 08.12 -0.1
 BPA 0.55 157 eP 49 13.41 -0.3
 NEV 0.62 229 eP 49 14.96 -0.3
 MGH 0.84 189 eP 49 19.10 0.2
 PAG 1.56 166 eP 49 30.80 0.2
 S.D. = 0.4 on 5 af 5 abs.

& FEB 11, 1993 07h 49m 39.55s
 59.859 N 153.243 W
 DEPTH = 117.1km
 2.7mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>.

INW 0.22 15 eP 49 55.43 0.8
 INE 0.22 24 eP 49 55.43 0.7
 ILIM 0.26 33 eP 49 55.33 0.6
 PDB 0.48 262 eP 49 56.47 -0.8
 AUL 0.49 192 eP 49 56.93 -0.4
 AUE 0.51 188 eP 49 56.73 -0.7
 AUP 0.51 190 eP 49 57.06 -0.5
 AUH 0.51 192 eP 49 57.05 -0.5
 AUI 0.53 190 eP 49 56.90 -0.7
 RS1 0.65 22 eP 49 58.10 -0.6
 RS2 0.65 22 eP 49 58.03 -0.7
 RSO 0.65 22 eP 49 57.95 -0.8
 RDW 0.66 19 eP 49 58.04 -0.8
 REF 0.69 23 eP 49 58.18 -0.8
 NCT 0.72 12 eP 49 58.36 -0.8
 DFR 0.79 20 eP 49 58.80 -0.9
 XLV 0.87 117 eP 49 59.45 -0.9
 MCNL 0.88 220 eP 49 59.43 -1.0
 CDD 0.95 193 eP 50 00.25 -1.0
 BRLK 1.20 94 eP 50 02.71 -1.0
 SYI 1.33 160 iP 50 04.36 -0.8
 NKA 1.34 48 eP 50 05.97 0.8
 CKL 1.41 18 iP 50 05.49 -0.8
 CKT 1.44 20 iP 50 05.58 -1.0
 SPU 1.45 23 eP 50 05.57 -1.1
 CKN 1.47 21 eP 50 06.06 -0.8
 BGL 1.47 16 iPd 50 05.95 -1.0
 CP2 1.49 19 eP 50 05.90 -1.4
 CPAM 1.50 21 eP 50 06.52 -0.8
 CRP 1.51 20 iP 50 06.72 -0.8
 SLKM 1.64 65 eP 50 07.64 -1.3
 SVW 1.72 318 P 50 08.80 -1.1
 SEW 1.92 81 eP 50 10.87 -1.4
 SUA 2.03 36 eP 50 12.88 -0.9
 MPA 2.04 70 eP 50 12.56 -1.3
 KDC 2.15 169 eP 50 12.57 -2.7
 SKT 2.29 21 eP 50 15.90 -1.1
 PMS 2.29 51 P 50 15.60 -1.5
 PTE 2.33 62 eP 50 15.63 -1.9
 PWA 2.44 41 P 50 17.30 -1.7
 PLRM 2.67 48 eP 50 19.18 -2.8
 PMR 2.67 48 (P) 50 16.63 -5.3

LTI 2.72 84 eP 50 20.93 -1.7
 KNIM 2.80 78 eP 50 21.57 -2.2
 MTU 2.82 85 eP 50 22.59 -1.4
 GHO 2.86 46 eP 50 22.41 -2.2
 SML 3.10 49 eP 50 25.04 -2.8
 GLI 3.22 69 eP 50 27.52 -1.9
 FID 3.48 72 eP 50 29.73 -3.2
 SCM 3.51 53 eP 50 30.65 -2.7
 VLZ 3.65 67 eP 50 33.53 -1.6
 CVA 3.80 76 eP 50 35.51 -1.7
 TRF 3.87 20 eP 50 36.44 -1.9
 KLU 3.96 62 eP 50 36.47 -3.0
 GLB 4.91 67 eP 50 50.40 -1.9
 CCB 5.43 26 eP 50 56.39 -3.0
 BALM 5.52 73 eP 50 58.81 -2.0
 CTGM 6.01 74 eP 51 05.88 -1.6
 YKA 18.62 65 eP 53 47.00 -3.2
 0.5s 0.20nm 2.7mb
 59 abs. associated

* FEB 11, 1993 07h 59m 14.98±0.61s
 43.988 N ± 5.6km 12.761 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 2.8 (TRI).

RSM 0.23 255 P 59 19.50 -0.4
 ARV 0.51 165 P 59 23.50 -0.3
 SFI 0.66 265 P 59 28.00 -0.1
 PGD 0.76 262 P 59 28.80 -1.1
 ASS 0.92 185 P 59 33.00 0.4
 AQU 1.70 164 P 59 46.00 1.1
 RIY 1.78 40 i(Pn) 59 45.70 -0.3
 TRI 1.86 22 e(Pn) 59 44.80 -2.4
 TRI 1.86 22 P 59 48.00 0.8
 CEY 2.11 33 ePn 59 47.80 -3.1
 VOY 2.20 21 ePn 59 52.80 0.7
 CTI 2.21 339 P 59 54.00 1.7
 VBY 2.34 49 ePn 59 54.10 0.1
 RBL 2.52 13 P 59 58.50 1.8
 FVI 2.61 0 P 59 59.50 1.7
 PTJ 2.97 49 eP 00 09.15 6.1X
 KBA 3.12 7 iP 00 15.30 10.1X
 0.3s 6.00nm
 WTTA 3.37 347 i(Pn) 00 08.10 -0.8
 0.5s 8.10nm
 S.D. = 1.5 on 16 af 18 abs.

? FEB 11, 1993 08h 00m 37.61±4.91s
 21.011 S ±59.4km 179.230 W ±45.3km
 DEPTH = 639.4 ± 49.4 km
 4.3mb (5 obs.)
 FIJI ISLANDS REGION (181)

DZM 13.37 263 iPc 03 30.00 0.4
 PMG 34.34 284 eP 06 36.00 0.6
 ASPA 43.29 257 iPd 07 46.60 -0.7
 0.7s 15.10nm 4.6mb
 WB2 43.38 263 iPc 07 47.00 -1.0
 WRA 43.39 263 P 07 48.50 0.4
 FBA 88.99 13 eP 12 26.00 -0.6
 YKA 97.46 25 eP 13 04.70 -0.5
 NB2 139.34 352 PKP 18 47.40 -7.4X

EKA 0.5s 0.30nm 19 07.00 1.4
 145.60 4 PKP 19 07.00 1.4
 0.7s 4.10nm
 CLL 148.28 345 iPKP 19 14.50 4.5X
 PRU 149.09 343 ePKP 19 16.50 5.2X
 KHC 150.14 343 ePKP 19 19.00 6.0X
 e 19 29.50
 GRF 150.20 346 ePKP 19 19.40 6.4X
 GEC2 150.36 343 PKP 19 19.60 6.2X
 0.7s 2.51nm

S.D. = 1.1 on 8 of 14 obs.

% FEB 11, 1993 09h 42m 36.59±0.83s
 44.726 N ± 4.4km 7.299 E ±16.9km
 DEPTH = 5.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.3 (GEN).

BHB 0.12 347 P 42 39.12 0.0
 S 42 40.86
 PZZ 0.26 213 P 42 41.91 0.0
 S 42 45.62
 RSP 0.43 356 P 42 45.18 0.0
 S 42 51.07
 STV 0.48 178 P 42 46.44 0.2
 S 42 53.58
 ENR 0.51 170 P 42 46.62 -0.1
 S 42 53.95

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

? FEB 11, 1993 09h 48m 42.36±3.49s
 38.014 N ±24.9km 26.717 E ±18.1km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.3 (ISK).

IZM 0.58 48 iPg 48 53.50 -0.6
 EZN 1.83 351 ePn 49 13.70 -0.4
 DST 2.18 43 ePn 49 19.50 0.3
 KHL 2.23 81 ePn 49 20.00 0.0
 EDC 2.49 21 ePn 49 24.00 0.4
 KCT 2.57 29 ePn 49 25.00 0.3
 YLV 3.28 38 ePn 49 35.00 0.1

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

* FEB 11, 1993 10h 15m 17.35±1.56s
 36.399 N ±11.0km 71.412 E ± 7.9km
 DEPTH = 84.7 ± 17.3 km
 4.7mb (20 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

KSH 4.73 48 iPd 16 30.50 2.7
 S 17 22.70
 QUE 7.23 212 eP 17 04.90 2.4
 eS 18 28.30
 NDI 9.12 146 eP 17 29.00 0.8
 0.4s 25.42nm 5.4mb
 eS 19 05.00
 MAIO 9.62 273 iPd 17 33.00 -2.0
 0.7s 25.41nm 5.3mb
 eS 19 13.00

GKN 13.97 123 P 18 30.40 -2.4
 DMN 14.54 123 P 18 38.40 -1.9
 KKN 14.54 122 P 18 37.40 -2.9
 PKI 14.77 123 P 18 40.80 -2.6
 GUN 14.88 121 P 18 41.40 -3.4X
 LSA 17.83 106 Pc 19 22.00 0.2
 0.8s 16.00nm 4.3mb

HYB 19.94 160 eP 19 46.20 1.2
 e 20 27.00
 eS 23 15.00
 GTA 22.57 74 P 20 13.00 1.6
 pP 20 36.00 110kmX
 sP 20 50.00

GBA 23.33 165 Pd 20 21.60 2.9
 0.4s 7.50nm 4.4mb
 S 25 04.60
 LZH 26.10 81 eP 20 48.00 3.0X
 1.5s 32.00nm 4.6mb

CD2 27.40 92 eP 20 58.40 1.7
 TIY 32.58 75 Pc 21 43.40 0.8
 TIA 36.57 76 eP 22 18.10 1.4
 GEC2 43.26 305 P 23 10.70 -1.2
 0.5s 0.46nm 3.5mb X
 HFS 43.35 322 eP 23 11.80 -0.5
 0.3s 6.40nm 5.0mb
 Z 17s 0.04um 3.3MsZX

LR 41 46.00
 NB2 44.66 323 P 23 22.10 -0.9
 0.7s 6.40nm 4.6mb
 GRF 44.79 307 eP 23 26.60 2.5
 1.0s 8.40nm 4.5mb
 BSF 47.97 305 eP 23 49.30 0.0
 LPG 48.48 302 eP 23 55.30 1.8
 0.8s 6.70nm 4.6mb
 LPL 48.49 302 eP 23 54.90 1.4
 0.8s 8.60nm 4.7mb

SMF 50.19 304 eP 24 06.20 0.0
 0.8s 7.00nm 4.7mb
 AVF 50.48 304 eP 24 08.20 -0.1
 0.8s 7.95nm 4.8mb
 LDF 52.30 307 eP 24 20.70 -1.5
 0.8s 4.55nm 4.6mb

FLN 52.49 308 eP 24 22.20 -1.3
 0.8s 9.00nm 4.9mb
 GRR 52.83 307 eP 24 25.10 -0.9
 0.7s 5.30nm 4.7mb
 BCAO 57.94 250 iPc 25 03.00 -0.2
 0.8s 11.00nm 5.0mb

ic 25 05.20
 ic 25 47.10
 BUL 69.27 223 iPc 26 11.10 -6.4X
 1.0s 15.00nm 4.8mb
 TTA 74.00 21 (P) 26 41.79 -3.3X
 FBA 74.47 16 eP 26 46.04 -1.7
 0.9s 3.29nm 4.2mb

YKA 81.33 3 eP 27 23.70 -1.5
 0.7s 2.20nm 4.2mb
 WRA 81.66 122 P 27 28.40 0.8
 0.6s 0.50nm 3.6mb X
 WB2 81.67 122 eP 27 27.10 -0.6
 0.5s 5.00nm 4.7mb

S.D. = 1.7 on 32 of 36 obs.

% FEB 11, 1993 10h 25m 20.62±0.77s
 39.081 N ± 6.5km 27.591 E ± 7.7km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.73 201 ePg 25 35.00 -0.2
 iSg 25 46.00
 DST 0.96 57 ePn 25 38.90 -0.5
 EZN 1.23 308 ePn 25 44.00 0.1
 EDC 1.28 9 ePn 25 45.00 0.2
 KHL 1.69 116 ePn 25 51.50 0.5

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

FEB 11, 1993 10h 28m 57.12±0.44s
 58.023 N ± 4.5km 142.977 W ± 2.6km
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 ML 3.2 (AEC), 3.5 (PGC).

KAIM 2.05 339 eP 29 32.79 0.8
 CYK 2.08 7 eP 29 32.68 0.2
 eS 29 55.67
 SNH 2.17 2 iP 29 33.99 0.2
 eS 29 57.73
 MID 2.25 310 P 29 36.00 1.1
 YKU 2.28 46 P 29 38.20 2.8
 YAH 2.43 15 iP 29 38.05 0.3
 S 30 06.41

PNL 2.49 47 iP 29 38.23 -0.1
 PCA 2.51 33 eP 29 38.75 0.1
 RAGM 2.53 341 iP 29 38.95 0.1
 HQN 2.57 54 eP 29 39.33 -0.2
 S 30 08.12

BCPM 2.60 40 eP 29 39.52 -0.3
 TGL 2.74 2 iP 29 41.94 -0.1
 eS 30 11.59
 CROM 2.74 358 iP 29 41.91 -0.3
 CVA 2.90 332 iP 29 43.76 -0.4
 HIN 2.99 324 iP 29 45.72 0.2

BALM 3.04 6 iP 29 46.23 0.0
 S 30 19.42
 CTGM 3.07 15 eP 29 46.66 0.0
 MTU 3.12 311 eP 29 47.59 0.3
 LTI 3.23 311 iP 29 49.01 0.1
 FID 3.27 328 iP 29 49.36 -0.1

KNIM 3.38 316 eP 29 50.72 -0.3
 GLB 3.46 353 iP 29 51.69 -0.4
 VZW 3.55 331 eP 29 52.97 -0.4
 GLI 3.55 325 iP 29 52.95 -0.5

VLZ 3.55 333 eP 29 52.83 -0.6
 PLBC 3.73 65 Pn 29 55.90 -0.1
 Sn 30 36.00
 KLU 3.79 338 iP 29 56.48 -0.4
 SEW 3.94 305 eP 29 58.67 -0.2
 HYT 3.96 43 Pn 29 59.40 0.0
 MPA 4.11 310 eP 30 00.59 -0.6
 PTE 4.20 315 iP 30 01.92 -0.6
 TZL 4.22 344 eP 30 03.21 0.4

SCM 4.40 332 eP 30 05.14 -0.4
 BRK 4.46 296 eP 30 06.81 0.5
 SLKM 4.47 307 eP 30 06.46 -0.1
 PMS 4.65 317 P 30 08.60 -0.4
 SML 4.66 327 eP 30 08.55 -0.6
 SDG 4.70 345 eP 30 08.58 -1.1

PLRM 4.74 322 eP 30 09.99 -0.3
 PMR 4.74 322 eP 30 09.62 -0.6
 GHO 4.81 324 eP 30 11.62 0.3
 SYI 5.00 281 eP 30 14.83 0.9
 NKA 5.03 306 eP 30 15.77 1.5
 PWA 5.03 319 P 30 15.10 0.7

PAX 5.12 347 eP 30 15.52 -0.1
 FBA 7.27 344 eP 30 43.99 -2.0X
 VIB 7.59 125 Pn 30 50.10 -0.4
 CWB 7.90 123 Pn 30 54.00 -0.7
 YKA 14.70 60 eP 32 35.20 8.5X
 0.6s 0.80nm 3.4mb X

S.D. = 0.7 on 47 of 49 obs.

% FEB 11, 1993 11h 13m 16.65±0.64s
 39.940 N ± 5.2km 29.262 E ± 6.1km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).

DST 0.59 236 iPg 13 27.80 -0.7
 iSg 13 35.80
 YLV 0.63 8 iPg 13 30.00 0.7
 eSg 13 39.00
 KCT 0.76 294 iPg 13 31.40 -0.5
 eSg 13 41.40

GBZT 0.86 9 ePg 13 33.20 -0.4
 iSg 13 49.50
 GPA 0.88 66 ePn 13 32.00 -2.0
 ALT 1.10 143 ePn 13 38.60 0.7
 ISK 1.13 352 ePn 13 39.50 1.2

EDC 1.15 291 ePn 13 38.00 -0.6
 KHL 1.63 173 ePn 13 47.00 0.9
 DMK 2.20 329 ePn 13 55.00 0.7

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

% FEB 11, 1993 11h 14m 49.45±1.10s
 30.900 S ±12.3km 68.102 W ± 8.6km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.53 216 eP 15 02.00 1.4
 S 15 12.50
 CFA 0.71 189 ePc 15 03.40 0.3
 RTCB 0.84 225 iPd 15 03.50 -1.4
 S 15 14.00

RTRS 1.38 301 iPd 15 12.50 0.0
 RTBS 1.38 236 ePc 15 08.30 -4.3X
 S 15 24.40
 RTPR 1.49 67 eP 15 18.50 4.3X
 S 15 41.80

MRA 2.54 127 ePc 15 28.20 -1.0
 S 15 59.20
 TCA 3.04 99 iP 15 37.10 0.6
 (S) 16 14.00

S.D. = 1.3 on 6 of 8 obs.

* FEB 11, 1993 11h 24m 06.56±0.92s
 49.203 N ± 7.6km 6.858 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 MD 2.2 (UCC).

RUP 0.52 15 ePg 24 16.84 -0.2
 WLF 0.65 315 iPd 24 19.40 -0.1
 iS 24 28.85
 ABH 0.81 33 ePg 24 22.59 0.2
 FEL 1.53 150 ePg 24 34.04 -0.1
 DOU 1.72 302 iP 24 36.90 0.2
 i 24 39.00

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

11d 11h

? FEB 11, 1993 11h 29m 44.86±3.24s
39.576 N ±11.8km 25.741 E ±28.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.1 (ISK).

EZN 0.52 61 iPg 29 54.60 -0.7
IZM 1.67 134 ePn 30 14.00 -0.3
EDC 1.80 64 ePn 30 17.00 0.8
KCT 2.12 71 ePn 30 21.40 0.6
DMK 2.72 34 ePn 30 29.00 -0.3
S.D. = 0.9 on 5 of 5 obs.

FEB 11, 1993 12h 17m 07.38±0.56s
37.625 N ± 5.5km 137.390 E ± 4.9km
DEPTH = 27.9 ± 4.3 km
4.4mb (6 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ 1.09 162 P 17 26.80 -0.1
MAT 1.26 149 iPd 17 29.10 -0.2
NIIJ 1.34 106 P 17 30.10 -0.2
CHJJ 2.03 140 P 17 41.20 0.8
YAMJ 2.16 75 P 17 42.00 -0.3
IIDJ 2.18 169 eP 17 42.60 0.0
TSRJ 2.37 209 eP 17 45.10 -0.1
KAKJ 2.64 122 P 17 49.30 0.3
OFUJ 3.66 65 P 18 04.10 0.6
WKYJ 3.70 204 eP 18 03.80 -0.3
WKYJ 3.70 204 eP 18 07.30 3.2X
AOMJ 3.74 37 eP 18 04.80 0.2
YONJ 3.99 234 P 18 07.70 -0.5
TKSJ 4.54 218 eP 18 17.20 1.2
TKSJ 4.54 218 P 18 20.10 4.1X
SHNJ 6.18 237 P 18 40.20 1.1
LZH 26.81 277 eP 22 47.50 0.3
Z 1.2s 25.00nm 4.7mb
17s 0.25um 3.8mszX
WB2 57.33 183 iPc 26 53.50 -1.7
0.6s 7.40nm 4.9mb
WRA 57.33 183 P 26 54.80 -0.4
0.7s 2.40nm 4.3mb
TNP 78.05 51 eP 29 05.40 0.1
1.0s 5.00nm 4.5mb
BW06 79.49 44 eP 29 12.60 -0.5
1.2s 2.28nm 4.1mb
GEC2 80.48 326 P 29 16.90 -1.2
0.8s 0.80nm 3.8mb
PV10 82.75 47 eP 29 31.60 1.2
S.D. = 0.8 on 21 of 23 obs.

% FEB 11, 1993 12h 18m 45.47±0.79s
38.859 N ± 7.7km 27.842 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

IZM 0.65 225 iPn 18 58.00 -0.4
DST 0.96 39 iPn 19 02.80 -1.0
KHL 1.42 112 ePn 19 12.00 0.6
KCT 1.44 16 iPn 19 12.00 0.3
EDC 1.49 1 ePn 19 12.50 0.3
EZN 1.52 310 ePn 19 13.00 0.3
S.D. = 0.8 on 6 of 6 obs.

& FEB 11, 1993 12h 39m 36.95s
35.026 N 116.972 W
DEPTH = 3.3km
3.8mb (2 obs.)
CENTRAL CALIFORNIA (39)
<PAS->. ML 4.5 (PAS), 4.3
(BRK), 3.8 (GS). Felt (III) at
Daggett and Highland. Also felt
at Barstow.

GSC 0.31 26 iPd 39 43.09 0.0
SSK 1.01 216 ePd 39 55.53 -1.3
PEC 1.14 188 iPd 39 57.98 -1.0
ISA 1.38 298 ePnc 40 01.97 -1.1

PLM 1.67 177 ePnd 40 06.43 -0.9
TPNV 2.01 17 ePnd 40 10.93 -1.3
ePg 40 14.33
eLg 40 42.09
BCH 2.56 274 ePn 40 18.10 -2.0
GLA 2.65 137 ePnd 40 18.12 -3.3
ePg 40 24.60
MTUM 2.66 331 ePn 40 20.62 -0.9
ePg 40 27.36
PKEM 2.76 293 ePn 40 22.25 -0.6
PHAM 2.91 287 ePn 40 23.51 -1.6
MRCM 2.92 335 ePn 40 24.42 -0.9
FRI 2.96 312 ePc 40 24.88 -0.8
iS 41 08.32

TNP 3.06 356 ePnd 40 26.08 -1.2
ePg 40 32.94
MEMM 3.08 329 (Pn) 40 27.11 -0.2
ePg 40 34.02
BONR 3.11 340 ePnd 40 27.32 -0.8
ePg 40 35.63
PRI 3.21 291 ePd 40 27.31 -2.0
LLA 3.60 297 iPd 40 33.25 -1.5
PRS 3.81 291 ePc 40 34.99 -2.8
ARUT 3.96 45 ePn 40 38.86 -1.3
ePg 40 49.68
eLg 41 41.45

SAO 4.02 297 ePd 40 39.22 -1.6
iS 41 37.24
CMB 4.07 319 ePc 40 41.01 -0.5
eS 41 42.61
KVN 4.12 348 (Pn) 40 40.52 -1.8
ePg 40 55.21
ARN 4.36 303 ePn 40 44.19 -1.4
eLg 41 57.69
COE 4.41 302 ePn 40 43.40 -2.9
MHC 4.43 303 ePd 40 45.20 -1.5
eS 41 36.48

HMR 4.98 310 (Pn) 40 54.10 -0.3
BKS 5.11 305 e(P) 40 53.50 -2.7
ZSP 5.16 306 iPd 40 55.60 -1.3
MSU 5.19 46 ePnd 40 56.58 -1.0
NTYM 5.67 308 ePn 41 02.14 -2.0
ORV 5.78 323 (Pn) 41 05.30 -0.4
eLg 42 43.86
ORV 5.78 323 eP 41 08.34 2.6
TUC 5.83 116 ePnc 41 02.28 -4.1
eLg 42 40.58
DUG 6.12 31 (Pn) 41 12.07 1.4
ePg 41 31.13
eS 42 47.18

SRU 6.57 50 ePn 41 16.62 -0.4
ePg 41 39.06
eS 43 02.64
EMUT 6.84 44 ePn 41 21.63 0.7
ePg 41 50.94
eS 43 17.46
DAU 7.03 38 ePn 41 23.01 -0.6
ePg 41 48.97
eSg 43 16.59

PV09 7.18 59 ePn 41 24.91 -0.8
ePg 41 51.95
eSg 43 23.45
PV10 7.20 60 ePn 41 23.64 -2.2
ePg 41 51.07
eSg 43 22.10

HVU 7.50 25 (Pn) 41 29.76 -0.3
ePg 41 56.10
eSg 43 32.77
PV08 7.56 60 ePn 41 29.63 -1.4
eSg 43 32.65
ALO 8.63 88 ePn 41 43.94 -1.9
ePg 42 17.56
eSg 44 10.68

LCCM 11.47 18 eP 42 27.00 2.2
NEW 13.23 360 eP 42 48.99 0.7
SES 15.96 14 eP 43 27.00 3.0
FVM 21.52 74 (P) 44 27.04 -2.1
1.1s 10.99nm 4.2mb
YKA 27.53 2 eP 45 24.60 -1.8
0.9s 0.70nm 3.4mb
48 obs. associated

? FEB 11, 1993 12h 51m 12.39±0.94s
40.993 N ± 9.0km 28.578 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

CTT 0.19 324 iPg 51 16.50 -0.1
eSg 51 20.00
ISK 0.37 79 iPg 51 20.00 0.0
iSg 51 25.50
DMK 1.03 324 ePn 51 32.00 0.1
DST 1.39 178 ePn 51 37.80 0.0
S.D. = 0.2 on 4 of 4 obs.

% FEB 11, 1993 13h 13m 32.98±0.54s
38.075 N ± 7.2km 14.172 E ± 4.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB 0.14 233 Pd 13 35.00 -1.4
eSg 13 36.90
MNO 0.44 109 Pd 13 41.30 -0.7
eSg 13 49.50
MCT 0.61 224 P 13 45.50 0.0
eSn 13 54.50
ATN 1.02 85 P 13 52.50 0.2
eSg 14 07.80
MSI 1.10 83 P 13 54.10 0.5
eSg 14 10.10
MEU 1.14 148 P 13 54.60 0.2
eSg 14 10.50
CVT 1.16 250 P 13 55.70 1.0
ERC 1.25 269 P 13 56.60 0.3
SOI 1.49 90 P 14 00.40 0.7
TDS 2.31 46 P 14 12.00 0.3
MGR 2.32 27 P 14 10.50 -1.3
S.D. = 0.9 on 11 of 11 obs.

? FEB 11, 1993 13h 24m 08.83±0.80s
42.350 N ± 7.1km 24.093 E ±11.6km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS 1.29 197 eP 24 31.80 -0.9
eS 24 55.38
KNT 1.49 217 eP 24 34.70 -0.9
eS 24 57.66
VAY 1.53 228 iPn 24 35.40 -0.8
iSn 24 59.40
SOH 1.62 200 eP 24 36.50 -1.1
iS 25 04.42
GRG 1.88 223 eP 24 43.66 2.3
THE 1.91 207 eP 24 43.26 1.5
eS 25 12.42
SKO 2.01 260 ePn 24 38.00 -5.2X
OUR 2.02 182 iP 24 42.90 -0.3
eS 25 17.33
ALN 2.06 134 eP 24 44.50 0.6
eS 25 15.34
PAIG 2.44 187 iP 24 54.26 4.9X
eS 25 30.10
GZR 3.19 343 ePd 25 00.00 0.0
MLR 3.41 22 eP 25 03.00 -0.3
S.D. = 1.3 on 10 of 12 obs.

* FEB 11, 1993 14h 27m 27.44±1.32s
35.039 N ±18.3km 27.090 E ± 5.9km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.9 (ATH). ML 3.8 (CSS).

NPS 1.23 281 ePb 27 51.00 0.7
KSL 2.30 61 ePn 28 06.90 0.9
ELL 2.85 52 eP 28 14.30 0.3
VLI 3.77 298 ePn 28 26.00 -0.8
KHL 3.82 30 eP 28 27.00 -0.6
CSS 5.12 89 eP 28 45.40 -0.7
eS 29 44.00
KHC 17.25 329 eP 31 30.00 0.2
e 31 43.00
S.D. = 0.8 on 7 of 7 obs.

? FEB 11, 1993 14h 58m 53.99±4.87s
30.965 S ±29.0km 69.188 W ±37.8km
DEPTH = 124.1 ± 23.2 km
CHILE-ARGENTINA BORDER REGION (127)

RTCB 0.62 147 iPd 59 13.70 0.2
S 59 25.00
RTLL 0.72 121 iPc 59 13.90 -0.3
S 59 25.70
CFA 1.03 128 ePc 59 17.20 0.2
S 59 32.30

MDZ 1.93 172 eP 59 46.80 19.4X
 RTPR 2.40 75 eP 59 33.20 0.0
 (S) 00 00.30
 MRA 3.30 117 ePc 59 45.00 0.0
 S 00 19.20
 RFA 3.84 171 ePc 59 52.40 0.0
 (S) 00 31.20
 TCA 3.96 97 iPc 59 58.00 4.0X
 (S) 00 35.10

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

? FEB 11, 1993 15h 42m 21.00±11.59s
 48.170 N ±17.6km 8.362 E ±81.8km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)

ML 1.9 (STR).

FEL 0.38 219 Pg 42 28.28 -0.5
 Sg 42 33.16
 WLS 0.72 290 Pg 42 35.18 0.0
 Sg 42 45.56
 CDF 0.76 289 Pg 42 35.68 -0.3
 Sg 42 46.18
 ECH 0.81 274 Pg 42 36.71 0.0
 MOF 0.88 249 Pg 42 38.00 0.0
 LOMF 1.32 232 Pg 42 46.07 0.6
 Sg 43 03.42

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

? FEB 11, 1993 15h 50m 59.69±7.70s
 48.785 N ±36.7km 1.607 W ±45.9km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.5 (LDG).

GRR 0.64 128 Pg 51 11.80 -0.6
 Sg 51 20.60
 FLN 0.74 91 Pg 51 14.00 -0.3
 LPF 0.84 153 Pg 51 16.50 0.6
 Sg 51 27.60
 LDF 1.00 100 Pg 51 19.30 0.6
 Sg 51 33.80
 MFF 2.40 155 Pn 51 39.30 -0.3
 Pg 51 44.30
 Sg 52 14.70

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

& FEB 11, 1993 15h 54m 05.43s
 35.019 N 116.972 W
 DEPTH = 4.2km

CENTRAL CALIFORNIA (39)

<PAS-P>. ML 3.5 (PAS), 3.2 (GS).

GSC 0.31 26 iPd 54 11.52 -0.2
 SSK 1.00 217 eP 54 23.64 -1.4
 eS 54 36.94
 PEC 1.14 188 iPd 54 26.26 -1.0
 eS 54 41.18
 ISA 1.39 298 ePn 54 30.29 -1.3
 eS 54 48.37
 PLM 1.66 177 ePnc 54 34.67 -1.0
 iPg 54 36.01
 eS 54 56.06
 TPNV 2.01 17 ePn 54 39.35 -1.3
 ePg 54 43.02
 eS 55 05.59
 eSg 55 10.16
 BCH 2.56 275 ePn 54 46.99 -1.4
 GLA 2.65 137 ePn 54 45.88 -3.8
 ePg 54 53.11
 MTUM 2.66 332 ePn 54 49.04 -1.0
 ePg 54 55.40
 PKEM 2.76 293 (P) 54 51.08 -0.2
 PHAM 2.91 287 (P) 54 55.38 1.9
 TNP 3.06 356 ePn 54 54.46 -1.2
 ePg 55 01.99
 eS 55 43.66

MEMM 3.08 330 ePn 54 56.47 0.7
 eSg 55 45.25
 BONR 3.12 340 ePn 54 56.16 -0.4
 ePg 55 03.60
 ARUT 3.97 45 ePn 55 07.63 -0.9
 ePg 55 18.38
 eS 56 04.63
 MSU 5.20 46 ePn 55 24.41 -1.6
 NTYM 5.67 308 (P) 55 32.77 0.2
 ORV 5.79 323 (Pg) 56 00.16 26.0

DUG 6.13 31 ePg 55 59.22 20.1
 DAU 7.04 38 (Pg) 56 15.79 23.8
 PV10 7.20 60 (Pn) 55 55.15 0.9
 (Pg) 56 19.96
 eS 57 49.33
 HVU 7.51 25 (Pg) 56 24.19 25.7
 PV08 7.56 60 (Pg) 56 27.37 27.9
 KMPM 7.82 316 ePg 56 27.33 24.6

24 obs. associated

FEB 11, 1993 15h 54m 50.90±0.73s
 38.376 N ±6.6km 21.962 E ±6.6km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 3.2 (ATH).

AGG 0.71 24 ePg 55 03.98 -0.9
 eSg 55 15.26
 VLS 1.10 260 ePb 55 09.00 -2.5
 ATH 1.44 106 ePb 55 17.50 0.5
 IGT 1.72 313 ePb 55 22.62 1.6
 eSb 55 47.14
 LIT 1.77 13 ePb 55 22.17 0.4
 eSb 55 44.89
 VLI 1.83 155 ePb 55 23.70 1.1
 KZN 1.93 356 ePb 55 23.90 -0.3
 PAIG 2.05 40 ePb 55 24.69 -1.0
 KEK 2.15 309 ePn 55 27.40 0.1
 FNA 2.45 350 iPn 55 32.17 0.6
 eSn 56 02.15
 OUR 2.51 38 ePn 55 31.73 -0.6
 GRG 2.60 7 ePn 55 33.94 0.2
 eSn 56 04.55
 SOH 2.67 23 ePn 55 34.33 -0.4
 eSn 56 06.26
 KNT 2.87 14 ePn 55 36.85 -0.7
 eSn 56 12.10
 OHR 2.88 342 ePn 55 39.80 2.2
 VAY 2.98 9 ePn 55 39.40 0.4
 SRS 3.01 24 ePn 55 38.85 -0.7
 SKO 3.61 354 ePn 55 44.00 -4.1X

S.D. = 1.2 on 17 of 18 obs.

? FEB 11, 1993 16h 01m 11.29±5.48s
 60.375 N ±13.9km 4.999 E ±43.0km
 DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)

MD 1.5 (BER).

ASK 0.15 42 eP 01 15.34 0.7
 eS 01 17.50
 EGD 0.15 132 eP 01 15.82 1.0
 eS 01 18.68
 BER 0.17 87 eP 01 16.02 0.9
 eS 01 18.87
 ODD1 0.94 119 eP 01 28.10 -1.1
 eS 01 41.06
 NRA0 3.25 81 Pn 02 01.78 -1.5
 Pg 02 07.88
 Lg 02 52.58

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

? FEB 11, 1993 16h 18m 25.73±4.52s
 36.532 N ±42.8km 28.756 E ±17.6km
 DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

MD 3.2 (ISK).

ELL 0.95 77 iPg 18 43.80 -0.1
 eSg 18 56.80
 BCK 1.74 57 ePn 18 56.40 0.2
 KHL 1.89 19 ePn 18 58.30 -0.1
 IZM 2.21 328 ePn 19 03.00 0.0

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

* FEB 11, 1993 16h 47m 40.91±0.61s
 20.421 S ±22.1km 173.592 W ±12.2km
 DEPTH = 39.2km (8 depth phases)
 4.9mb (14 obs.) 4.6Msz (5 obs.)

TONGA ISLANDS (173)

DZM 18.68 261 iPc 51 58.20 -0.2
 BRS 31.45 251 iP 54 01.00 -0.1
 CTA 37.61 263 P 54 54.70 0.8
 CMS 37.92 245 eP 54 55.80 -0.6
 0.7s 12.00nm 4.9mb

TOO 39.31 235 iPd 55 08.90 0.9
 0.7s 30.00nm 5.2mb
 PMG 39.38 280 eP 55 07.00 -1.7
 STK 41.55 245 P 55 27.50 1.0
 ASPA 48.56 256 iPc 56 21.00 -1.6
 0.9s 9.40nm 4.8mb
 WB2 48.69 261 iPd 56 22.00 -1.6
 0.5s 9.40nm 5.1mb
 WRA 48.70 261 P 56 22.60 -1.1
 0.6s 1.10nm 4.1mb
 MUN 63.08 244 eP 58 07.00 0.1
 MAT 72.67 321 eP 59 05.00 -1.7
 0.9s 10.00nm 4.8mb
 HMR 75.88 40 (P) 59 26.91 1.8
 BONR 77.89 42 (P) 59 37.96 1.2
 TNP 78.65 42 eP 59 40.36 -0.4
 TUC 79.72 50 (P) 59 46.92 0.3
 Z 18s 0.14um 4.3Msz
 ARUT 80.90 44 (P) 59 53.58 0.7
 (pP) 00 05.03 37km
 MSU 82.13 44 eP 00 00.17 0.9
 SRU 83.53 44 eP 00 06.96 0.5
 DAU 83.77 43 eP 00 06.29 -1.5
 PMR 84.05 11 P 00 20.00 11.7X
 Z 20s 0.42um 4.8Msz
 PV10 84.13 46 eP 00 08.07 -1.5
 epP 00 21.28 45km
 PV09 84.13 45 eP 00 10.04 0.4
 epP 00 21.89 39km
 ALQ 84.17 50 eP 00 10.56 0.8
 1.3s 11.22nm 4.8mb
 epP 00 22.40 39km
 esP 00 27.89
 PTI 84.44 40 (P) 00 11.01 0.1
 PV08 84.49 46 eP 00 11.81 0.3
 epP 00 23.32 37km
 CN2 84.81 321 P 00 13.80 1.3
 1.2s 9.80nm 4.8mb
 BW06 86.12 42 eP 00 17.43 -2.0
 0.9s 2.68nm 4.5mb
 epP 00 29.83 41km
 TIA 86.31 311 eP 00 21.60 1.4
 LCCM 86.40 38 eP 00 20.90 0.3
 FBA 87.34 11 eP 00 22.68 -1.8
 0.8s 4.29nm 4.7mb
 (pP) 00 34.72 39km
 BJI 88.78 314 eP 00 32.50 0.6
 SES 89.41 35 eP 00 34.00 -0.8
 RSSD 90.27 42 eP 00 37.55 -1.6
 1.1s 7.02nm 4.9mb
 Z 19s 0.09um 4.2Msz
 epP 00 49.20 37km
 XAN 91.40 306 P 00 45.70 1.3
 1.0s 7.10nm 5.0mb
 pP 00 52.70 22kmX
 sP 00 57.50
 HHC 92.29 313 Pc 00 49.00 0.6
 1.0s 17.00nm 5.4mb
 BDT 93.53 287 eP 00 57.00 2.7
 CHTO 94.12 288 eP 00 58.90 1.8
 YKA 94.75 24 eP 00 58.40 -0.6
 1.1s 0.80nm 4.1mb
 HRV 112.22 51 PKP 06 20.00 5.9X
 Z 18s 0.15um 4.6Msz
 CBM 115.09 47 PKP 06 30.00 10.5X
 Z 19s 0.31um 4.9Msz
 KSP 148.65 348 ePKP 07 26.00 4.6X
 e 07 38.00
 CLL 148.74 352 iPKPc 07 20.90 -0.6
 1.1s 19.00nm
 BRG 149.03 351 ePKP 07 25.70 3.7X
 1.1s 12.00nm
 e 07 39.00
 SPC 149.23 342 ePKP 07 27.20 4.6X
 MOX 149.56 353 ePKP 07 28.20 5.4X
 1.6s 22.00nm
 PRU 149.80 350 ePKP 07 28.80 5.6X
 DOU 150.35 2 PKP 07 30.80 6.8X
 GRF 150.54 354 ePKP 07 31.00 6.7X
 KHC 150.78 350 ePKP 07 31.00 6.3X
 1.3s 12.00nm
 e 07 40.70
 e 07 50.00
 WLF 150.82 0 iPKPc 07 31.72 7.1X
 ZST 150.98 345 ePKP 07 31.90 6.9X
 SRO 151.02 343 ePKP 07 38.50 13.5X
 GEC2 151.04 350 PKP 07 31.20 6.0X

11d 17h

1.1s 5.32nm
GEC2 151.04 350 PKP 07 40.90 15.7X
1.1s 1.12nm
GEC2 151.04 350 PKP 07 37.00 11.8X
0.6s 0.56nm
GEC2 151.04 350 PKP 07 42.50 17.3X
0.9s 1.49nm
FLN 151.19 9 ePKP 07 31.60 6.3X
0.7s 7.70nm
LDF 151.41 9 ePKP 07 32.20 6.6X
1.1s 28.55nm
GRR 151.49 10 iPKPc 07 32.50 6.8X
0.8s 13.70nm
LPF 151.80 11 iPKPc 07 33.20 7.0X
0.8s 13.15nm
BZS 151.92 337 ePKP 07 33.00 6.5X
BCAO 160.21 218 ePKPc 07 44.50 6.5X
0.5s 5.00nm
id 08 20.00
S.D. = 1.2 on 39 of 63 obs.

FEB 11, 1993 16h 58m 50.86±0.62s
40.235 S ± 5.7km 176.581 E ± 8.4km
DEPTH = 51.4 ± 9.1 km
4.9mb (3 obs.)
NORTH ISLAND, NEW ZEALAND (159)

TEHZ 0.30 36 P 59 01.00 0.8
WAHZ 0.56 342 Pc 59 01.50 -1.6
TTH 0.72 15 P 59 05.90 0.9
MNG 0.92 245 Pd 59 09.40 1.6
S 59 21.80
TAHZ 1.10 6 P 59 10.70 0.3
MOH 1.19 22 P 59 12.00 0.6
MTW 1.23 221 P 59 13.90 1.8
NGZ 1.30 324 P 59 13.00 -0.1
CNZ 1.31 322 P 59 13.30 0.1
BSZ 1.34 288 P 59 14.50 1.0
WHH 1.35 357 P 59 13.80 0.0
BLW 1.41 216 P 59 16.30 1.8
PAHZ 1.42 15 P 59 14.80 0.1
CAW 1.44 232 P 59 16.30 1.3
MAHZ 1.45 44 P 59 16.00 0.9
MOW 1.56 220 P 59 17.80 1.2
WEL 1.73 232 P 59 20.00 1.0
MRW 1.74 234 P 59 20.00 0.9
NOZ 1.97 35 P 59 22.40 0.0
TAZ 2.00 358 P 59 22.40 -0.4
URZ 2.01 12 P 59 22.00 -1.0
S 59 44.80
UTU 2.08 352 P 59 23.40 -0.5
NRZ 2.23 293 P 59 27.20 1.2
WLZ 2.48 342 P 59 28.50 -1.1
PUZ 2.52 32 P 59 29.00 -1.2
ORZ 3.14 258 P 59 38.20 -0.9
KHZ 3.16 225 P 59 38.10 -1.2
THZ 3.17 240 P 59 38.80 -0.8
KUZ 3.55 349 P 59 43.50 -1.3
DSZ 3.92 246 P 59 48.70 -1.4
LTZ 4.12 230 P 59 50.80 -2.0
MQZ 4.54 219 P 59 55.90 -2.8
ODZ 6.50 220 P 00 23.20 -3.0
DZM 20.05 332 iPc 03 24.40 1.8
ASPA 39.39 282 iPd 06 17.60 0.3
0.6s 13.00nm 4.9mb
WB2 41.28 287 iPc 06 33.30 0.5
0.6s 25.20nm 5.1mb
epP 06 41.70 28kmX
WRA 41.29 287 P 06 34.00 1.1
0.5s 2.80nm 4.3mb
S.D. = 1.3 on 37 of 37 obs.

FEB 11, 1993 16h 58m 55.29±0.90s
38.366 N ± 8.0km 21.892 E ± 8.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.1 (ATH).

AGG 0.74 28 ePg 59 08.94 -0.9
eSg 59 18.32
VLS 1.04 260 ePg 59 13.00 -2.0
IGT 1.68 314 ePb 59 26.07 1.2
eSb 59 48.80
LIT 1.79 15 iPb 59 26.19 -0.3
iSb 59 50.32
VLI 1.84 153 ePb 59 28.30 1.1
KZN 1.94 357 ePb 59 29.00 0.3

PAIG 2.09 41 ePn 59 30.55 -0.2
eSn 59 56.83
FNA 2.45 351 ePn 59 35.98 0.0
eSn 00 05.87
GRG 2.62 8 ePn 59 38.51 0.2
SOH 2.70 24 ePn 59 38.19 -1.4
eSn 00 11.25
OHR 2.87 343 ePn 59 44.20 2.3
KNT 2.90 15 ePn 59 42.07 -0.2
VAY 3.00 10 ePn 59 39.40 -4.3X
SKO 3.62 355 ePn 59 35.00 -17.5X
S.D. = 1.3 on 12 of 14 obs.

FEB 11, 1993 17h 07m 21.57±0.77s
49.164 N ± 6.9km 6.904 E ± 8.1km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.6 (UCC). ML 2.5 (STR).

LANF 0.62 107 Pg 07 33.80 -0.3
WLF 0.70 316 iPd 07 34.97 -0.4
iS 07 44.47
CDF 0.79 162 Pg 07 36.58 -0.5
Sg 07 46.53
WLS 0.81 158 Pg 07 36.40 -0.9
ECH 0.96 170 Pg 07 39.43 -0.5
Sg 07 52.23
VITF 1.13 213 Pg 07 41.94 -0.8
Sg 07 56.07
MOF 1.32 173 Pg 07 46.11 0.0
Sg 08 04.14
FEL 1.49 150 Pg 07 49.43 1.0
DOU 1.77 303 iP 07 52.70 0.3
iS 08 14.30
LOMF 1.82 182 Pg 07 54.88 1.7
S.D. = 0.9 on 10 of 10 obs.

& FEB 11, 1993 17h 33m 02.46s
33.954 N 117.126 W
DEPTH = 15.4km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.6 (PAS). 2.6 (GS).

PEC 0.07 205 ePc 33 05.36 -0.3
eS 33 07.44
SSK 0.54 299 iPc 33 12.52 -0.6
eS 33 19.90
PLM 0.64 160 eP 33 14.14 -0.8
eS 33 21.98
GSC 1.37 11 ePn 33 26.39 -0.6
ISA 2.03 327 ePn 33 35.58 -1.0
ePg 33 39.25
GLA 2.12 114 ePn 33 35.98 -1.8
ePg 33 40.86
eLg 34 07.75
BCH 2.73 298 (Pn) 33 47.39 0.8
TPNV 3.07 13 (Pg) 33 58.41 7.0
BONR 4.11 347 (P) 34 06.52 0.3
TNP 4.12 359 (P) 34 20.14 13.8
10 obs. associated

* FEB 11, 1993 17h 56m 58.40±0.62s
28.982 N ± 13.8km 52.219 E ± 8.2km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)

SOUTHERN IRAN (353)
DHR 3.24 215 eP 58 02.80 14.7X
RYD 6.57 231 eP 58 36.00 0.8
eS 59 47.00
MJMA 6.90 245 eP 58 38.66 -1.3
AFIF 9.44 241 eP 59 17.33 2.1
eS 01 04.66
MAIO 9.53 38 eP 59 19.00 2.5
QUE 12.88 81 eP 00 02.70 0.7
HYB 26.74 110 eP 02 36.00 -0.9
GKN 28.46 84 P 02 52.20 -0.5
DMN 28.94 85 P 02 58.20 1.1
KKN 29.06 84 P 02 57.20 -1.0
PKI 29.21 85 P 02 59.00 -0.7
GUN 29.56 84 P 03 02.40 -0.4
HFS 40.50 331 eP 04 34.60 -0.9
0.6s 6.20nm 4.6mb
NB2 42.02 332 P 04 46.60 -1.4
0.7s 1.90nm 3.9mb
S.D. = 1.4 on 13 of 14 obs.

FEB 11, 1993 19h 37m 53.73±0.39s
27.845 N ± 10.9km 59.896 E ± 5.0km
DEPTH = 33.0km (normal)
4.6mb (32 obs.)

SOUTHERN IRAN (353)
QUE 6.60 68 eP 39 36.20 5.0X
e 40 47.20
e 41 28.20
MAIO 8.44 358 iPc 40 05.20 8.5X
1.0s 37.50nm 5.5mb
eS 42 32.00
RYD 12.32 258 eP 41 05.00 15.2X
eS 42 59.50
KER 12.73 304 eP 40 59.00 3.7X
MJMA 13.19 265 eP 41 02.00 0.6
AFIF 15.49 260 eP 41 37.33 5.9X
eS 44 16.00
KSH 17.67 45 P 42 02.40 3.4X
HYB 20.08 117 eP 42 25.50 -1.8
eS 46 41.00
KSHT 21.36 290 eP 42 43.40 3.0
GBA 21.64 127 P 42 41.00 -2.2
GKN 21.86 84 P 42 46.40 0.8
SAGI 22.18 282 eP 42 52.20 3.6X
RMN 22.21 283 eP 42 48.50 -0.5
DMN 22.31 85 P 42 52.40 2.2
KKN 22.44 84 P 42 52.26 0.8
PKI 22.58 85 P 42 54.00 1.0
GUN 22.96 84 P 42 58.40 1.7
OBN 32.04 335 eP 44 20.00 0.7
1.0s 18.00nm 4.9mb
e 44 21.50
i 44 41.00
e 45 32.00
GTA 34.92 60 eP 44 45.00 0.4
LZH 37.92 66 eP 45 11.00 1.0
1.0s 15.00nm 4.8mb
KMI 38.30 84 Pc 45 13.00 -0.4
1.5s 50.00nm 5.1mb
MGR 38.39 300 P 45 14.40 0.8
VBY 39.34 309 iPc 45 23.00 1.5
NUR 40.40 334 eP 45 30.60 0.6
KAF 40.81 337 iP 45 34.40 1.0
0.3s 2.90nm 4.5mb
GEC2 41.09 313 P 45 35.90 -0.1
0.9s 2.81nm 4.0mb
e 45 45.30
KHC 41.23 314 eP 45 35.50 -1.6
e 45 38.40
SFI 41.50 306 P 45 41.20 1.9
CLL 42.14 317 e(P) 45 45.00 0.6
XAN 42.18 69 P 45 45.50 0.4
0.8s 5.50nm 4.3mb
BTO 42.82 59 eP 45 51.80 1.5
TIY 44.75 63 eP 46 06.40 0.4
HFS 44.85 329 eP 46 06.40 0.1
0.3s 3.50nm 4.7mb
LPG 45.26 308 eP 46 10.30 0.1
0.7s 4.30nm 4.5mb
LPL 45.28 308 eP 46 09.30 -1.0
0.9s 5.90nm 4.5mb
BSF 45.45 311 eP 46 10.70 -0.7
0.6s 1.80nm 4.2mb
BCAO 45.71 247 iPd 46 14.00 0.3
1.0s 10.00nm 4.7mb
HAU 45.77 311 eP 46 12.40 -1.4
0.8s 5.90nm 4.6mb
NB2 46.34 330 P 46 17.60 -0.5
0.8s 3.60nm 4.4mb
LBF 47.28 309 eP 46 25.40 -0.4
0.7s 3.30nm 4.5mb
SMF 47.36 309 eP 46 25.40 -1.0
0.8s 11.80nm 4.9mb
SSF 47.61 310 eP 46 27.30 -1.1
0.8s 8.35nm 4.8mb
AVF 47.70 309 eP 46 27.80 -1.3
0.9s 4.60nm 4.5mb
BGF 48.04 309 eP 46 30.60 -1.1
0.6s 3.05nm 4.5mb
ESEL 48.11 300 eP 46 33.80 1.5
TCF 48.47 308 eP 46 34.30 -0.8
0.6s 1.80nm 4.3mb
CAF 48.55 307 eP 46 35.10 -0.7
0.9s 6.40nm 4.7mb
RJF 48.94 307 eP 46 38.20 -0.5

LFF	0.6s	5.60nm	4.8mb		
	49.49 307 eP	46 42.40	-0.5		
	0.7s	11.35nm	5.0mb		
LDF	50.12 311 eP	46 46.30	-1.3		
	0.5s	2.85nm	4.5mb		
FLN	50.36 312 eP	46 47.60	-1.9		
	0.4s	2.05nm	4.5mb		
GRR	50.60 311 eP	46 50.30	-1.0		
	0.6s	5.05nm	4.7mb		
ECHE	51.09 300 iPc	46 57.00	1.7		
ECRI	51.96 304 iPc	47 02.20	0.4		
EVIA	52.39 299 iPc	47 06.00	0.8		
ENIJ	52.41 297 eP	47 05.50	0.3		
EHUE	52.58 298 iPd	47 07.00	0.4		
GUD	53.39 302 iPc	47 13.00	0.4		
ECOG	53.43 297 iPc	47 12.00	-0.9		
EBAN	53.46 298 iPc	47 13.50	0.6		
EGUA	53.50 297 iPd	47 13.00	-0.3		
PAB	53.69 300 eP	47 13.00	-1.7		
ELUO	53.93 298 eP	47 15.80	-0.6		
EHOR	54.66 298 iPd	47 21.00	-0.7		
EPRU	54.80 297 iPd	47 21.50	-1.3		
EPLA	54.93 301 iPd	47 23.80	0.0		
EJIF	55.08 297 eP	47 24.50	-0.3		
EVAL	55.87 298 iPd	47 30.00	-0.5		
DAG	60.51 345 eP	48 01.70	-0.8		
KIC	64.65 264 P	48 33.80	2.9		
	0.8s	15.00nm	5.1mb		
TIC	64.77 264 P	48 34.50	2.9		
LIC	64.97 264 P	48 35.70	2.8		
IMA	82.92 13 eP	50 15.60	-0.8		
	0.9s	5.42nm	4.6mb		
		e	50 37.70		
WRA	86.22 115 P	50 32.00	-1.5		
	0.5s	2.30nm	4.7mb		
WB2	86.23 115 iPc	50 31.80	-1.7		
	0.7s	12.40nm	5.2mb		
		e	50 58.10		
ASPA	87.81 118 eP	50 38.70	-2.4		
	0.7s	13.80nm	5.3mb		
YKA	89.87 357 eP	50 49.50	-0.8		
	0.7s	0.80nm	4.1mb		
S.D. = 1.3 on 70 of 77 obs.					

FEB 11, 1993 19h 46m 10.23±0.42s
 58.812 N ± 6.3km 1.621 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 NORTH SEA (534)
 ML 3.8 (8GS). MD 3.4 (BER).

OSG	1.81	20 eP	46 42.28	0.7	
		eS	47 03.66		
LRW	1.95	314 ePn	46 41.80	-1.9	
		eSn	47 03.70		
EGD	2.35	50 eP	46 51.19	1.8	
		eS	47 16.99		
MFJ	2.40	242 ePn	46 51.40	1.3	
BER	2.46	49 iPc	46 52.56	1.6	
ASK	2.47	46 eP	46 52.58	1.5	
		eS	47 19.40		
SUE	2.75	34 eP	46 53.97	-1.2	
		eS	47 24.68		
ODD1	2.79	65 eP	46 56.59	0.8	
		eS	47 29.40		
MCD	2.86	247 ePn	46 57.10	0.5	
		eSn	47 29.00		
FOO	3.28	30 eP	47 00.70	-1.9	
		eS	47 36.21		
HYA	3.29	42 eP	47 02.82	0.0	
		eS	47 38.84		
EDU	3.37	230 ePn	47 04.40	0.5	
		eSn	47 42.50		
ESY	3.70	220 ePn	47 09.00	0.4	
ELO	3.70	233 ePn	47 08.50	-0.2	
EBH	3.77	229 ePn	47 10.40	0.7	
		eSn	47 52.30		
EDI	3.89	224 ePn	47 11.90	0.6	
		eSn	47 54.60		
EBL	3.96	222 ePn	47 12.70	0.4	
EAB	4.05	225 ePn	47 13.40	-0.2	
KONO	4.15	233 ePn	47 15.10	0.1	
	4.18	75 eP	47 21.50	6.0X	
		eS	48 02.99		
MUD	4.69	117 iP	47 25.50	2.8	
		iS	48 17.00		
		e	48 51.00		
NRA0	5.37	65 Pn	47 32.02	-0.3	

HFS	6.30 73 eP	47 44.90	-0.4		
	0.2s	2.30nm	4.6mb		
DMU	6.83 228 eP	47 54.00	1.1		
		eS	49 05.00		
DLF	7.17 223 eP	47 58.00	0.5		
		eS	49 13.00		
DCN	7.40 226 eP	48 02.00	1.2		
		eS	49 20.00		
FLN	10.15 188 Pn	48 35.30	-3.6X		
		Sn	50 24.00		
LDF	10.29 186 Pn	48 38.80	-2.1		
		Sn	50 25.80		
GRR	10.55 189 Pn	48 42.00	-2.3		
		Sn	50 32.10		
LPF	10.92 189 Pn	48 43.50	-5.9X		
		Sn	50 41.20		
LOR	11.64 172 Pn	48 57.70	-1.6		
		Sn	51 01.40		
SSF	11.83 174 Pn	48 59.90	-1.9		
		Sn	51 03.60		
MFF	12.28 186 Pn	49 03.10	-4.7X		
ARA0	14.82 34 P	49 38.78	-2.6		
S.D. = 1.4 on 30 of 34 obs.					

? FEB 11, 1993 21h 26m 26.42±1.81s
 51.062 N ± 22.1km 15.766 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.3 (VIE).

KSP	0.40 123 iPd	26 33.20	-1.4		
		iS	26 42.60		
BRG	1.17 261 iPg	26 48.00	-0.2		
		iSg	27 07.40		
PRU	1.33 216 Pn	26 51.50	0.6		
	0.5s	17.40nm			
		Pg	26 53.30		
		Sn	27 10.50		
		Sg	27 17.80		
		e	27 23.60		
CLL	1.76 279 iPn	26 52.40	-4.7X		
		iPg	26 55.30		
		eSg	27 21.00		
KHC	2.39 217 Pn	27 07.00	0.7		
		e	27 13.40		
		e	27 42.00		
		eSg	27 55.80		
		e	27 58.40		
MOX	2.66 263 ePg	27 15.50	5.4X		
		iSg	27 55.40		
OJC	2.70 107 eP	27 12.00	1.3		
		eS	27 48.00		
VKA	2.82 172 ePg	27 21.50	9.1X		
		eSg	28 04.00		
GRF	3.22 247 ePn	27 16.90	-1.0		
		ePg	27 30.20		
		e(Sn)	28 09.50		
		eSg	28 15.00		
S.D. = 1.4 on 6 of 9 obs.					

? FEB 11, 1993 21h 30m 48.48±2.26s
 25.997 S ± 32.6km 27.277 E ± 11.6km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 mbLg 3.4 (BUL).

SLR	0.94 74 iPc	31 06.50	-0.5		
		S	31 17.50		
BUL	5.95 12 iPn	32 25.00	5.4X		
		iSn	33 34.50		
		iSg	33 57.20		
CIR	6.34 39 iPn	32 27.00	2.0		
		iSn	33 35.50		
		iSg	34 08.00		
MTD	10.01 24 iPn	33 14.50	-1.6		
		iSn	35 03.50		
		iSg	35 59.50		
KIC	44.73 312 P	39 05.00	0.3		
LIC	44.82 311 P	39 05.00	-0.5		
TIC	45.12 311 P	39 08.20	0.3		
S.D. = 1.6 on 6 of 7 obs.					

? FEB 11, 1993 21h 44m 22.54±3.48s
 34.913 S ± 28.7km 66.247 W ± 20.1km

DEPTH = 33.0km (normol)
 SAN LUIS PROVINCE, ARGENTINA (140)

RFA	1.83 274 ePc	44 52.20	-0.1		
		S	45 15.50		
MRA	2.54 10 ePc	45 03.00	0.8		
		S	46 34.10		
MDZ	2.96 312 eP	45 14.60	6.2X		
		i	45 50.40		
		iS	45 53.80		
CFA	3.69 333 e(P)	45 26.00	7.3X		
TCA	3.83 22 iP	45 20.50	-0.1		
		(S)	46 16.00		
RTLL	4.03 332 eP	45 23.00	-0.6		
PEL	4.09 294 eP	45 33.50	9.2X		
		iS	46 26.00		
RTBS	4.21 319 eP	45 29.00	3.0X		
RTPR	4.60 357 e(P)	45 30.60	-1.0		
RTRS	5.45 329 ePd	45 44.50	0.9		
S.D. = 1.0 on 6 of 10 obs.					

? FEB 11, 1993 22h 09m 40.42±6.25s
 41.691 N ± 43.7km 22.957 E ± 15.2km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)

KNT	0.53 185 ePg	09 50.78	-0.4		
		eSg	10 00.58		
SRS	0.75 140 ePg	09 53.94	-1.1		
		eSg	10 07.10		
GRG	0.84 210 ePg	09 56.30	-0.4		
SOH	0.92 161 ePg	09 58.42	0.4		
		eSg	10 14.54		
PAIG	1.85 162 ePn	10 13.30	0.9		
S.D. = 1.1 on 5 of 5 obs.					

% FEB 11, 1993 22h 17m 45.39±0.68s
 37.087 N ± 7.3km 4.983 W ± 6.1km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)					
mbLg 2.4 (MDD).					
EPRU	0.23 239 iPg	17 50.00	-0.4		
		eSg	17 53.50		
ELUO	0.74 50 ePg	18 00.50	0.5		
		eSg	18 10.50		
EJIF	0.75 212 ePg	18 00.50	0.5		
		eSg	18 10.00		
EHOR	0.76 344 ePg	18 00.20	-0.1		
		eSg	18 11.50		
ECOG	1.15 80 ePg	18 06.50	-0.4		
		eSg	18 23.00		
EGUA	1.16 102 ePg	18 07.00	-0.1		
		eSg	18 24.00		
S.D. = 0.6 on 6 of 6 obs.					

* FEB 11, 1993 23h 00m 15.72±0.59s
 54.590 N ± 10.7km 161.405 E ± 14.6km
 DEPTH = 33.0km (normol)
 4.4mb (19 obs.)

NEAR EAST COAST OF KAMCHATKA						(218)
MAT	24.09	231	eP	05 29.00	0.0	
	0.7s		9.59nm		4.4mb	
IMA	24.42	44	eP	05 32.40	0.4	
	1.0s		6.25nm		4.1mb	
YKA	41.54	44	eP	08 00.30	-0.7	
	0.5s		0.80nm		3.7mb	
NB2	62.32	344	P	10 35.00	-1.6	
	0.7s		3.00nm		4.5mb	
HFS	62.76	342	eP	10 37.50	-1.9	
	0.4s		2.40nm		4.7mb	
EKA	69.71	351	P	11 23.00	-0.6	
	1.3s		11.70nm		4.8mb	
GRF	73.12	340	eP	11 45.30	1.1	
KHC	73.17	339	eP	11 45.00	0.5	
GEC2	73.41	338	P	11 46.30	0.3	
	0.6s		1.14nm		4.1mb	
			e	11 50.60		
CDF	75.08	342	eP	11 55.70	0.0	
	0.9s		5.55nm		4.6mb	
GBA	75.55	273	P	11 58.00	-0.7	
LOR	76.75	345	eP	12 04.90	-0.1	
	0.7s		3.95nm		4.5mb	
SSF	77.01	345	eP	12 06.40	0.0	
	0.9s		2.80nm		4.3mb	
LBF	77.01	344	eP	12 06.20	-0.3	

11d 23h

0.8s 3.10nm 4.4mb
 AVF 77.30 345 eP 12 08.10 0.1
 0.8s 2.95nm 4.4mb
 SMF 77.36 344 eP 12 08.60 0.2
 0.9s 3.30nm 4.4mb
 BGF 77.60 345 eP 12 09.80 0.1
 0.9s 5.10nm 4.6mb
 WRA 77.77 206 P 12 11.20 0.4
 0.8s 0.80nm 3.8mb
 MAF 77.97 345 eP 12 12.40 0.7
 0.9s 2.60nm 4.3mb
 LPL 77.97 342 eP 12 13.20 1.2
 0.9s 6.90nm 4.7mb
 LPG 77.99 342 eP 12 13.50 1.3
 0.8s 6.45nm 4.7mb
 LSF 78.10 346 eP 12 12.70 0.3
 ASPA 81.44 205 eP 12 30.10 -0.5
 0.9s 4.90nm 4.5mb
 S.D. = 0.8 on 23 of 23 obs.

% FEB 11, 1993 23h 32m 15.01 ± 0.72s
 37.109 N ± 7.6km 4.990 W ± 6.5km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)
 mbLg 2.2 (MDD).

EPRU 0.24 234 ePg 32 20.00 -0.1
 eSg 32 24.50
 ELUO 0.73 52 ePg 32 30.00 0.6
 eSg 32 40.90
 EHOR 0.74 344 ePg 32 29.50 0.0
 eSg 32 40.50
 EJIF 0.76 211 ePg 32 30.00 0.1
 ECOG 1.15 81 ePg 32 35.50 -1.1
 eSg 32 52.50
 EGUA 1.17 103 ePn 32 37.50 0.6
 eSn 32 53.00
 S.D. = 0.8 on 6 of 6 obs.

? FEB 12, 1993 00h 02m 10.88 ± 2.59s
 31.552 S ± 30.3km 68.683 W ± 16.8km
 DEPTH = 113.5 ± 24.0 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.12 303 iPd 02 27.00 -0.1
 RTLL 0.29 40 iPc 02 27.30 -0.2
 CFA 0.38 98 ePc 02 28.00 0.3
 S 02 40.20
 RTBS 0.67 260 ePc 02 29.60 0.1
 S 02 43.00
 RTPR 2.24 57 ePc 02 47.80 0.2
 S 03 15.60
 TCA 3.50 88 iP 03 04.40 -0.2
 (S) 03 43.50
 S.D. = 0.3 on 6 of 6 obs.

& FEB 12, 1993 00h 30m 35.24s
 60.008 N 152.240 W
 DEPTH = 87.7km
 3.6mb (1 obs.)

SOUTHERN ALASKA (2)
 <AEIC>. Felt (11) at Homer.

ILIM 0.37 282 iPd 30 48.37 -0.7
 INE 0.42 278 ePc 30 48.69 -0.8
 INW 0.45 278 ePc 30 49.11 -0.6
 RS1 0.52 331 iPd 30 49.79 -0.6
 RSO 0.52 331 iPd 30 49.75 -0.7
 RS2 0.52 331 iPd 30 49.80 -0.6
 RDW 0.55 329 iPd 30 49.97 -0.7
 RDN 0.57 333 iPd 30 50.08 -0.6
 eS 31 01.58
 OPT 0.61 235 eP 30 50.31 -0.7
 XLV 0.61 154 iPc 30 50.18 -0.8
 eS 31 02.28
 DFR 0.63 339 iPd 30 50.44 -0.8
 NCT 0.65 329 iPd 30 50.51 -0.9
 eS 31 02.88
 BRK 0.73 109 iPc 30 51.43 -0.7
 eS 31 03.55
 AUE 0.87 222 iPd 30 52.68 -0.9
 AUP 0.88 223 iPd 30 53.04 -0.8
 NKA 0.89 34 iPd 30 54.81 1.0
 AUW 0.89 225 iPd 30 53.03 -0.8
 AUI 0.90 222 iPd 30 52.98 -1.0
 eS 31 07.08
 PDB 1.01 258 iPd 30 54.06 -1.1

eS 31 08.71
 SLKM 1.12 63 ePd 30 55.18 -1.4
 SPU 1.18 4 iPd 30 56.59 -0.7
 eS 31 13.83
 CKL 1.19 358 iPd 30 56.78 -0.7
 CKT 1.20 1 iPd 30 56.73 -0.8
 CKN 1.22 1 iPd 30 57.17 -0.6
 CPAM 1.25 2 iPd 30 57.63 -0.6
 CP2 1.26 360 iPd 30 57.58 -0.9
 BGL 1.26 357 iPd 30 57.44 -0.9
 CRP 1.26 2 iPd 30 57.26 -1.2
 CDD 1.30 214 iPd 30 57.37 -1.4
 eS 31 15.52
 MCNL 1.35 233 iPd 30 57.73 -1.6
 SEW 1.40 85 ePc 30 58.36 -1.6
 eS 31 16.82
 SYI 1.40 183 iPd 30 59.10 -0.9
 MPA 1.51 70 iPd 31 00.36 -1.1
 SUA 1.64 26 iPd 31 02.48 -0.7
 eS 31 24.38

PMS 1.81 46 P 31 04.30 -1.1
 PTE 1.81 60 ePd 31 03.73 -1.6
 SVW 2.00 305 eP 31 05.63 -2.4
 S 31 26.29
 SKT 2.01 10 iPd 31 06.81 -1.2
 eS 31 33.68
 PWA 2.01 34 P 31 07.10 -1.0
 LTI 2.20 87 ePc 31 08.71 -1.9
 PLRM 2.20 42 iPd 31 08.65 -2.0
 PMR 2.20 42 ePc 31 08.33 -2.3
 S 31 29.79
 KDC 2.27 183 ePd 31 08.79 -2.7
 S 31 35.15
 KNIM 2.28 79 iPd 31 09.01 -2.6
 MTU 2.31 89 eP 31 10.15 -1.9
 GHO 2.40 41 iPd 31 11.44 -2.0
 SML 2.63 45 iPd 31 14.32 -2.2
 GLI 2.70 69 ePd 31 13.91 -3.5
 eS 31 45.42

HIN 2.89 80 eP 31 17.27 -2.8
 FID 2.96 73 ePd 31 17.24 -3.7
 VZW 3.00 67 ePd 31 18.52 -3.1
 eS 31 53.43

SCM 3.02 51 ePd 31 19.50 -2.4
 MID 3.05 98 P 31 20.20 -1.9
 VLZ 3.13 66 eP 31 20.48 -2.8
 HUR 3.23 22 ePd 31 23.91 -0.9
 CVA 3.28 78 eP 31 22.61 -2.7
 KLU 3.44 62 iPd 31 24.96 -2.8
 TTA 3.45 330 eP 31 25.46 -2.3
 SGAM 3.54 79 eP 31 26.51 -2.5
 TRF 3.58 14 eP 31 27.60 -2.1
 RND 3.77 24 eP 31 30.44 -1.9
 TZL 3.89 55 eP 31 31.69 -2.2
 KAIM 3.93 88 eP 31 32.15 -2.3
 MCK 4.05 21 eP 31 34.45 -1.7
 SDG 4.10 49 ePd 31 34.30 -2.6
 GLB 4.38 67 iPd 31 37.45 -3.3
 PAX 4.40 45 ePd 31 38.62 -2.4
 CROM 4.58 77 eP 31 41.38 -2.2
 THY 4.61 39 eP 31 42.58 -1.3
 SNH 4.71 84 eP 31 42.96 -2.3
 TGL 4.73 77 eP 31 43.26 -2.4
 NEA 4.82 16 eP 31 44.25 -2.5
 BALM 5.00 74 ePc 31 45.80 -3.6
 HDA 5.06 27 ePd 31 47.38 -2.7
 CCB 5.09 22 ePd 31 47.41 -3.1
 YAH 5.25 82 eP 31 50.29 -2.7
 MDM 5.30 19 ePd 31 50.81 -2.8
 DOT 5.32 43 eP 31 51.42 -2.4
 FBA 5.33 21 eP 31 50.37 -3.4
 CTGM 5.48 75 ePd 31 54.18 -1.9
 GLM 5.48 22 eP 31 52.49 -3.5
 IMA 6.12 354 eP 32 01.23 -3.7
 SDN 6.44 227 eP 32 05.20 -4.0
 FYU 7.30 23 eP 32 17.35 -3.6
 SIT 9.32 101 eP 32 45.40 -3.3
 0.6s 34.20nm 5.4mb X
 YKA 18.10 66 eP 34 38.50 -3.4
 0.4s 1.60nm 3.6mb
 86 obs. associated

& FEB 12, 1993 00h 50m 54.25s
 58.027 N 153.396 W
 DEPTH = 56.7km
 2.5mb (1 obs.)
 KODIAK ISLAND REGION (13)

<AEIC>. ML 2.7 (AEIC).

KDC 0.56 120 P 51 06.30 -0.4
 S 51 15.50
 SYI 0.79 42 eP 51 08.72 -0.8
 eS 51 20.00
 CDD 0.91 352 eP 51 10.58 -0.6
 MCNL 1.26 337 iP 51 14.95 -1.0
 AUI 1.31 359 eP 51 15.88 -0.7
 S 51 33.20
 AUE 1.34 1 eP 51 16.60 -0.3
 AUP 1.34 359 eP 51 16.68 -0.4
 AUW 1.35 358 eP 51 16.66 -0.4
 PDB 1.81 347 eP 51 22.16 -1.4
 INE 2.05 5 eP 51 25.79 -1.2
 INW 2.05 4 eP 51 25.70 -1.3
 ILIM 2.07 6 eP 51 26.24 -1.0
 BRK 2.18 36 eP 51 27.12 -1.6
 S 51 51.44
 RS1 2.46 7 eP 51 31.72 -1.2
 RSO 2.47 7 eP 51 32.02 -0.9
 RS2 2.47 7 eP 51 32.18 -0.8
 RDW 2.48 7 eP 51 32.02 -1.1
 REF 2.50 8 eP 51 32.25 -1.1
 NCT 2.55 5 iP 51 33.00 -1.1
 DFR 2.60 8 eP 51 33.49 -1.2
 SEW 2.91 43 eP 51 36.48 -2.6
 NKA 2.94 21 eP 51 39.26 -0.2
 SLKM 2.97 32 eP 51 37.55 -2.5
 MPA 3.22 38 eP 51 40.97 -2.5
 CKL 3.22 9 eP 51 41.90 -1.8
 SPU 3.24 12 eP 51 42.01 -1.8
 CKT 3.24 10 iP 51 42.11 -1.8
 CKN 3.27 10 eP 51 42.85 -1.3
 BGL 3.29 9 eP 51 42.88 -1.7
 CP2 3.30 10 eP 51 43.22 -1.6
 CPAM 3.30 11 eP 51 43.04 -1.7
 LTI 3.50 52 P 51 45.02 -2.4
 MTU 3.56 54 eP 51 45.57 -2.7
 PTE 3.62 36 eP 51 46.30 -2.7
 KNIM 3.73 49 eP 51 47.25 -3.4
 PMS 3.77 29 P 51 48.70 -2.5
 SKT 4.08 12 eP 51 53.10 -2.4
 HIN 4.27 53 eP 51 55.18 -3.0
 GLI 4.30 46 eP 51 55.40 -3.3
 FID 4.47 49 eP 51 57.26 -3.7
 CVA 4.66 54 eP 52 00.09 -3.6
 YKA 19.53 60 eP 55 20.60 1.1
 0.7s 0.20nm 2.5mb
 42 obs. associated

? FEB 12, 1993 01h 15m 23.94 ± 0.75s
 22.107 S ± 7.2km 69.088 W ± 18.7km
 DEPTH = 116.0 ± 13.1 km
 4.2mb (3 obs.)

NORTHERN CHILE (123)

ANT 2.01 217 iP 15 57.50 -0.2
 iS 16 26.00
 CNCB 5.37 11 P 16 43.20 -0.4
 CCH 5.46 31 P 16 44.50 0.0
 LPB 5.62 10 P 16 49.10 2.2
 ZOBO 5.86 9 P 16 48.80 -1.6
 ARE 6.06 338 eP 16 47.00 -5.8X
 eS 17 50.00
 RTRS 8.04 182 e(P) 17 20.00 0.6
 TCA 10.03 157 ePc 17 46.00 -0.4
 MIAR 60.96 337 (P) 25 21.39 -5.6X
 0.7s 9.66nm 4.9mb
 ALO 66.91 327 eP 26 06.00 -0.1
 0.9s 1.17nm 3.8mb
 YKA 91.70 341 eP 28 18.80 0.0
 0.5s 0.70nm 4.2mb
 S.D. = 1.3 on 9 of 11 obs.

FEB 12, 1993 02h 09m 54.20 ± 0.88s
 14.847 N ± 9.5km 92.329 W ± 6.9km
 DEPTH = 123.7 ± 6.9 km
 4.3mb (18 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)

TPX 0.09 49 iPc 10 12.24 -0.1
 iS 10 23.00
 SCX 1.90 351 iP 10 26.23 -0.9
 iS 10 47.43
 PPM 7.34 306 iP 11 42.01 1.2
 ACX 7.52 287 (P) 11 41.50 -1.2

III	7.69	298	iP	11	44.50	-0.8
UNM	7.93	305	(P)	12	10.00	21.5X
MRX	9.75	301	iP	12	13.95	1.3
UYO	19.33	355	iPc	14	09.90	-2.5
MIAR	19.65	357	eP	14	13.35	-2.3
	1.0s	41.35nm			4.7mb	
		pP	14	17.90	18kmX	
MEQ	20.64	345	iPd	14	23.20	-2.6
WMOK	20.64	345	eP	14	23.92	-1.9
HBF	21.03	29	(P)	14	31.09	1.5
OCO	21.10	348	e(P)	14	29.50	-0.9
PRM	21.17	23	ePc	14	31.39	0.4
SGS	21.18	28	(P)	14	32.28	1.1
GRT	21.49	6	(P)	14	33.91	-0.3
JSC	21.78	25	ePc	14	37.62	0.5
		iP	14	43.58	21kmX	
SDV	22.03	103	eP	14	41.40	1.4
TKL	22.10	19	(P)	14	41.13	0.9
LHS	22.14	26	eP	14	40.69	0.1
TOV	22.58	100	eP	14	48.90	3.8X
ACO	22.60	346	iPd	14	44.60	-0.5
ALO	23.71	330	iPc	14	56.94	0.8
CEH	24.08	27	iPc	14	59.87	0.5
	0.8s	43.88nm			5.0mb	
NAV	24.62	23	ePd	15	04.70	0.1
GLA	27.31	316	ePd	15	30.73	1.4
PV08	27.68	332	(P)	15	34.14	1.2
PV10	27.70	331	eP	15	32.95	-0.1
PV09	27.84	331	eP	15	34.60	0.2
SRU	28.99	330	eP	15	44.86	0.3
MSU	29.37	327	ePc	15	48.82	0.8
ARUT	29.53	325	eP	15	50.74	1.4
RSSD	30.84	343	(P)	15	59.50	-1.3
	0.7s	1.76nm			3.9mb	
TNP	31.94	321	eP	16	11.80	1.3
	0.6s	3.84nm			4.3mb	
HVU	32.14	331	(P)	16	12.68	0.5
BONR	32.52	320	ePc	16	17.71	2.0
PHAM	32.67	315	eP	16	19.04	2.3
LCCM	35.00	336	eP	16	36.90	0.2
		e	19	09.60		
ULM	35.43	356	eP	17	05.00	24.9X
SES	38.57	341	eP	17	30.00	23.5X
LMN	38.60	31	eP	17	09.50	2.7
		pP	17	36.00	116kmX	
ZOBO	39.09	141	P	17	18.20	6.3X
LPB	39.30	142	P	17	13.00	-0.3
LON	40.21	328	(P)	17	20.29	0.2
CCH	41.15	140	eP	17	35.00	6.6X
MCW	42.02	330	(P)	17	34.57	-0.3
FCC	43.86	359	eP	18	16.50	27.0X
YKA	50.13	347	eP	18	36.60	-2.0
	0.5s	5.30nm			4.7mb	
VAO	58.19	130	eP	19	42.30	4.4X
BMA	60.14	127	(P)	19	34.00	-17.3X
PMS	61.58	332	eP	20	01.30	0.8
	0.8s	22.20nm			5.2mb	
SVW	64.30	331	ePc	20	17.63	-0.8
TTA	65.00	333	eP	20	22.90	-0.1
IMA	65.06	337	eP	20	23.40	0.0
EKA	77.47	36	Pd	21	36.80	-0.6
	0.8s	3.10nm			4.1mb	
LPF	79.97	43	eP	21	51.10	0.0
	0.8s	7.95nm			4.5mb	
GRR	80.02	43	eP	21	51.70	0.3
	0.8s	7.80nm			4.5mb	
FLN	80.20	42	eP	21	51.90	-0.4
	1.0s	11.80nm			4.6mb	
LDF	80.46	42	eP	21	54.10	0.4
	0.6s	2.80nm			4.2mb	
LFF	81.81	46	eP	22	01.30	0.5
	0.6s	2.80nm			4.2mb	
TCF	82.51	44	eP	22	03.90	-0.6
	0.8s	1.90nm			4.0mb	
AVF	83.15	44	eP	22	07.80	0.1
	0.6s	1.10nm			3.9mb	
SSF	83.19	43	eP	22	08.00	0.1
	0.5s	1.40nm			4.1mb	
SMF	83.51	44	eP	22	09.50	-0.1
	0.8s	2.70nm			4.2mb	
LBF	83.52	43	eP	22	08.80	-0.8
	0.6s	1.25nm			4.0mb	
NB2	83.56	28	P	22	10.00	0.5
	0.6s	1.10nm			3.9mb	
WB2	135.27	257	iPKPc	29	07.60	5.8X
	0.5s	3.90nm				
WRA	135.28	257	PKP	29	10.10	8.3X

	0.7s	0.80nm				
GKN	137.30	4	PKP	29	03.20	-2.4
GUN	137.46	2	PKP	28	59.80	-6.4X
KKN	137.55	3	PKP	29	03.80	-2.4
DMN	137.72	3	PKP	29	05.00	-1.6
PKI	137.78	3	PKP	29	04.80	-2.0
HYB	146.70	16	ePKP	29	24.50	2.4
KHT	148.64	339	iPKPc	29	31.80	6.6X
GBA	149.97	20	PKP	29	31.00	3.8X
	S.D. = 1.3	on	62 of	76 obs.		
	FEB 12, 1993	02h	28m	05.11±	0.47s	
	44.584 N ± 4.5km			9.300 E ± 4.0km		
	DEPTH = 10.0km			(geophysicist)		
	NORTHERN ITALY			(545)		
	ML 2.4 (GEN), 2.3 (LDG).					
BOB	0.21	30	Pc	28	08.40	-1.4
			eSg	28	11.10	
PCP	0.54	266	P	28	15.67	-0.4
			S	28	22.28	
CKI	0.75	258	P	28	21.00	1.3
			eSg	28	33.00	
FIN	0.87	245	P	28	21.76	-0.1
			S	28	33.29	
ROB	1.06	255	P	28	25.20	0.0
			S	28	38.70	
BDI	1.07	119	P	28	26.70	1.4
			eSg	28	41.50	
IMI	1.22	237	P	28	27.67	-0.1
			S	28	42.79	
MDI	1.23	14	P	28	27.50	-0.4
			eSg	28	43.70	
PII	1.23	134	P	28	28.60	0.6
			eSn	28	46.40	
ENR	1.39	256	P	28	30.41	-0.3
			S	28	47.51	
ORO	1.40	319	P	28	31.10	0.4
			eSg	28	48.80	
ORX	1.40	319	P	28	30.46	-0.4
			S	28	47.89	
STV	1.46	257	P	28	30.96	-0.6
			S	28	48.90	
DOI	1.47	268	P	28	33.40	1.7
BHB	1.47	281	P	28	31.09	-0.6
			S	28	48.77	
SBF	1.52	242	Pn	28	32.10	-0.3
			Sn	28	53.10	
PZZ	1.57	268	P	28	32.89	-0.4
			S	28	51.92	
LPG	2.02	298	Pn	28	41.40	1.5
			Sn	29	06.20	
LPL	2.04	298	Pn	28	41.20	1.0
PGF	2.05	186	Pg	28	38.70	-1.4
			Sn	29	03.80	
FRF	2.17	243	Pn	28	42.10	0.3
			Pg	28	45.80	
			Sn	29	07.40	
			Sg	29	14.30	
LMR	2.37	239	Pn	28	43.40	-1.2
			Pg	28	49.00	
			Sg	29	10.70	
LRG	2.40	243	Pn	28	44.50	-0.6
			Pg	28	51.20	
			Sn	29	12.90	
	S.D. = 0.9	on	23 of	23 obs.		
	% FEB 12, 1993	02h	52m	28.68±	0.52s	
	45.163 N ± 3.3km			7.442 E ± 4.8km		
	DEPTH = 10.0km			(geophysicist)		
	NORTHERN ITALY			(545)		
	ML 2.1 (GEN).					
RSP	0.13	265	P	52	32.24	0.3
			S	52	33.77	
BHB	0.35	202	P	52	36.56	0.7
			S	52	41.55	
LSO	0.36	326	P	52	36.33	0.2
			S	52	41.09	
RRL	0.53	243	P	52	39.58	0.2
			S	52	46.81	
BNI	0.55	259	P	52	39.70	-0.3
			eSg	52	45.70	
LPG	0.59	305	Pg	52	40.60	-0.2
			Sg	52	47.20	
ORX	0.60	39	P	52	41.05	0.1
			S	52	49.51	

LPL	0.61	305	Pg	52	41.00	-0.2
			Sg	52	48.30	
PZZ	0.70	200	P	52	42.51	-0.1
			S	52	51.80	
ROB	0.92	160	P	52	46.58	0.3
			S	52	59.14	
STV	0.92	185	P	52	45.81	-0.6
ENR	0.94	181	P	52	46.22	-0.4
			S	52	57.92	
	S.D. = 0.4	on	12 of	12 obs.		
	FEB 12, 1993	02h	53m	07.67±	0.33s	
	41.462 N ± 3.8km			25.257 E ± 3.1km		
	DEPTH = 10.0km			(geophysicist)		
	GREECE-BULGARIA BORDER REGION			(363)		
	MD 3.4 (ATH). Felt at Kurdzhali,					
	Bulgaria.					
RDO	0.38	146	ePg	53	17.00	1.5
ALN	0.82	133	ePg	53	24.48	1.0
			eSg	53	36.55	
SRS	1.30	255	ePb	53	31.12	-0.6
			eSb	53	48.51	
OUR	1.48	221	ePb	53	33.58	-0.8
			eSb	53	52.20	
SOH	1.57	247	iPb	53	34.58	-1.1
			eSb	53	56.00	
KNT	1.80	261	ePb	53	38.29	-0.7
			eSb	54	02.59	
EZN	1.83	153	iPn	53	39.80	0.5
DMK	1.91	78	ePn	53	39.10	-1.4
THE	1.92	245	ePb	53	41.12	0.4
			eSb	54	05.36	
PAIG	1.95	219	ePb	53	39.91	-1.2
			eSb	54	05.00	
VAY	2.03	267	iPn	53	42.20	0.0
			iSn	54	11.20	
GRG	2.21	258	ePn	53	45.55	0.5
			eSn	54	13.08	
EDC	2.27	119	ePn	53	45.00	-0.8
PRK	2.35	160	ePn	53	48.00	1.2
			eSn	54	18.00	
LIT	2.50	238	ePn	53	48.00	-1.1
			iSn	54	20.04	
KCT	2.64	116	ePn	53	51.00	-0.1
KZN	2.88	248	ePn	53	56.00	1.4
ISK	2.89	97	ePn	53	54.90	0.3
SKO	2.90	281	iPn	53	56.80	2.0
FNA	3.01	258	ePn	53	56.44	0.1
DST	3.17	125	ePn	53	58.20	-0.4
GBZT	3.23	101	ePn	54	07.00	7.5X
DRA	3.30	347	ePd	54	09.00	8.7X
AGG	3.31	224	ePn	53	59.55	-1.0
OHR	3.38	266	ePn	54	03.00	1.4
IZM	3.43	153	ePn	54		

12d 03h

CD2 32.32 322 P 05 27.20 1.5
 TIY 33.66 340 eP 05 37.60 0.3
 BJI 34.74 346 eP 05 46.50 0.1
 1.0s 24.00nm 5.1mb
 LZH 36.06 328 eP 05 59.00 1.1
 1.4s 74.00nm 5.4mb
 Z 16s 0.29um 4.1MszX
 pP 06 10.00 39km
 HHC 36.78 341 P 06 04.40 0.5
 1.0s 16.00nm 4.9mb
 GTA 40.66 328 eP 06 36.50 0.3
 1.0s 27.00nm 4.9mb
 STK 40.73 160 eP 06 37.80 1.1
 1.1s 4.80nm 4.2mb
 e 06 42.60
 GUN 43.91 304 P 07 02.61 -0.6
 0.6s 19.00nm 5.0mb
 KKN 44.37 304 P 07 05.80 -1.0
 DMN 44.45 303 P 07 06.40 -1.1
 GKN 44.97 304 P 07 10.21 -1.4
 GBA 48.65 282 P 07 41.00 0.6
 WMO 50.37 324 P 07 54.00 0.7
 1.0s 8.40nm 4.7mb
 pP 08 09.00 57kmX
 OBN 84.68 325 iPd 11 28.60 -0.2
 1.2s 44.00nm 5.5mb
 e 11 45.00
 KAF 89.09 332 eP 11 47.90 -2.3
 NB2 96.26 334 P 12 21.90 -1.5
 0.8s 3.10nm 4.9mb
 S.D. = 1.1 on 23 of 24 obs.

FEB 12, 1993 03h 30m 45.85±0.46s
 38.903 N ± 4.8km 21.160 E ± 3.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.4 (ATH). ML 3.2 (THE).

VLS 0.85 212 ePg 31 01.20 -1.1
 IGT 0.90 315 ePg 31 03.20 0.1
 eSg 31 17.32
 AGG 0.92 82 ePg 31 03.32 -0.1
 eSg 31 15.58
 KEK 1.33 308 ePb 31 11.50 1.1
 KZN 1.48 18 ePb 31 13.00 0.4
 LIT 1.58 40 ePb 31 14.44 0.5
 eSb 31 34.75
 FNA 1.89 5 ePb 31 19.48 1.0
 eSb 31 43.71
 PAIG 2.20 62 iPn 31 22.08 -0.9
 eSn 31 49.83
 ATH 2.21 114 ePn 31 23.60 0.5
 THE 2.22 38 ePn 31 24.00 0.8
 OHR 2.22 353 iPn 31 24.30 1.0
 i 31 27.40
 i 31 53.20
 i 31 59.60
 GRG 2.26 25 ePn 31 23.79 -0.1
 iSn 31 54.00
 SOH 2.55 41 ePn 31 28.08 0.1
 iSn 32 00.08
 VLI 2.60 147 ePn 31 31.00 2.4
 OUR 2.61 56 ePn 31 27.95 -0.8
 KNT 2.62 30 ePn 31 27.98 -1.0
 eSn 32 01.95
 VAY 2.65 24 iPn 31 29.40 0.1
 SRS 2.89 39 ePn 31 32.32 -0.5
 SKO 3.07 4 ePn 31 35.00 -0.3
 i 31 39.50
 iSn 32 12.00
 TDS 3.82 283 P 31 46.10 0.1
 SOI 4.09 260 P 31 48.80 -0.9
 eSn 32 29.50
 ALN 4.25 61 ePn 31 50.44 -1.7
 MGR 4.51 288 P 31 54.90 -0.8
 S.D. = 1.0 on 23 of 23 obs.

? FEB 12, 1993 03h 33m 01.39±2.52s
 31.314 S ± 30.9km 68.509 W ± 15.7km
 DEPTH = 101.3 ± 29.8 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.30 235 iPd 33 16.10 -0.4
 S 33 25.50
 CFA 0.37 142 iPc 33 17.00 0.2
 S 33 28.80
 RTBS 0.88 247 ePc 33 21.00 0.2

RTPR 1.99 60 e(P) 33 35.20 0.1
 S 33 59.00
 TCA 3.35 91 iPc 33 52.70 -0.1
 (S) 34 30.50
 S.D. = 0.5 on 5 of 5 obs.

? FEB 12, 1993 03h 45m 23.46±1.74s
 8.704 S ± 17.4km 119.734 E ± 13.1km
 DEPTH = 117.7 ± 24.4 km
 4.6mb (3 obs.)
 FLORES REGION, INDONESIA (286)

KHKI 4.09 274 iPd 46 25.50 0.4
 iS 47 21.30
 e 50 13.90
 MTN 11.93 111 eP 48 10.00 -0.9
 0.3s 73.00nm 5.8mb X
 eS 50 15.00
 MEEK 17.87 183 eP 49 25.00 -1.2
 0.3s 5.00nm 4.3mb
 eS 52 24.00
 WB2 18.02 130 iPc 49 29.20 1.2
 0.5s 18.00nm 4.6mb
 iPP 49 39.90
 eS 52 32.80
 WARB 18.58 160 eP 49 35.00 0.8
 ASPA 20.13 139 eP 49 54.60 4.1X
 0.6s 36.00nm 4.9mb
 eS 53 28.00
 MUN 23.39 188 eP 50 26.00 3.5X
 BRS 36.32 125 iP 52 26.00 8.3X
 GUN 48.96 319 P 54 00.00 -0.3
 S.D. = 1.5 on 6 of 9 obs.

FEB 12, 1993 03h 53m 01.78±0.29s
 30.036 N ± 6.1km 41.949 W ± 4.7km
 DEPTH = 10.0km (geophysicist)
 4.5mb (29 obs.) 3.8Msz (6 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)

LPF 36.00 48 iPd 00 04.80 0.1
 1.0s 17.20nm 4.9mb
 GRR 36.21 48 iPd 00 06.50 0.0
 0.8s 7.00nm 4.6mb
 MFF 36.25 51 iPd 00 07.10 0.2
 0.9s 8.70nm 4.6mb
 FLN 36.55 47 iPd 00 09.20 -0.1
 0.9s 10.95nm 4.7mb
 Z 19s 0.20um 3.9Msz
 LFF 36.55 54 iPd 00 09.10 -0.3
 0.9s 8.50nm 4.6mb
 LDF 36.73 48 iPd 00 10.80 -0.1
 0.8s 5.10nm 4.4mb
 LPO 36.83 54 iPd 00 11.70 -0.1
 1.0s 8.40nm 4.5mb
 RJF 37.15 53 iPd 00 14.00 -0.5
 1.3s 9.05nm 4.4mb
 Z 19s 0.15um 3.8Msz
 LSF 37.32 52 iPd 00 15.80 -0.1
 1.3s 19.85nm 4.7mb
 CAF 37.48 54 iPd 00 17.20 -0.1
 1.1s 3.90nm 4.1mb
 TCF 37.79 52 iPd 00 19.90 0.0
 1.2s 17.55nm 4.7mb
 AVF 38.65 51 iPd 00 27.00 0.0
 1.0s 3.80nm 4.1mb
 SSF 38.80 51 iPd 00 28.10 -0.2
 1.2s 10.10nm 4.4mb
 SMF 38.96 52 iPd 00 29.80 0.1
 1.1s 22.45nm 4.8mb
 LOR 39.07 51 iPd 00 30.40 -0.2
 1.0s 7.20nm 4.3mb
 Z 21s 0.13um 3.7Msz
 LBF 39.11 51 iPd 00 30.60 -0.3
 1.0s 11.00nm 4.5mb
 LPL 40.83 54 iPd 00 46.10 0.8
 1.1s 7.55nm 4.3mb
 LPG 40.84 54 iPd 00 46.20 0.7
 0.8s 4.15nm 4.2mb
 HAU 40.85 50 iPd 00 45.00 -0.2
 1.0s 12.40nm 4.6mb
 Z 21s 0.13um 3.7Msz
 BSF 41.12 50 iPd 00 47.30 -0.3
 1.1s 10.75nm 4.5mb
 CDF 41.52 50 iPd 00 50.60 -0.2
 1.2s 13.40nm 4.5mb

LIC 42.02 117 P 00 55.62 0.5
 0.9s 17.50nm 4.8mb
 Z 20s 0.28um 4.1Msz
 KIC 42.16 116 P 00 56.46 0.2
 GRF 44.25 48 ePc 01 13.00 0.0
 Z 19s 0.10um 3.8Msz
 MOX 44.61 47 eP 01 17.00 1.2
 CLL 45.55 46 iP 01 23.90 0.6
 KHC 45.74 49 P 01 25.00 0.1
 1.4s 7.00nm 4.4mb
 e 01 40.50
 GEC2 45.80 50 P 01 25.60 0.1
 0.7s 2.30nm 4.3mb
 e 01 28.00
 e 01 32.70
 e 01 40.60
 ZST 48.05 50 eP 01 42.10 -1.0
 SRO 48.87 51 eP 01 48.40 -1.0
 ZOB0 52.52 212 P 02 18.10 -0.1
 Z 24s 0.12um 3.9MszX
 LR 17 48.00
 LPB 52.71 212 P 02 19.00 -0.4
 BW06 54.53 303 eP 02 32.14 -0.2
 0.9s 6.24nm 4.6mb
 YKA 55.87 328 eP 02 41.40 -0.1
 0.9s 1.20nm 3.9mb
 SRU 55.99 299 eP 02 43.85 0.9
 NEW 58.75 311 eP 03 01.85 -0.2
 1.0s 13.84nm 5.0mb
 OBN 59.57 41 iPd 03 08.00 0.4
 1.0s 21.00nm 5.2mb
 e 03 17.00
 BCAO 62.34 102 ePc 03 35.20 8.1X
 0.6s 3.00nm 4.7mb
 S.D. = 0.5 on 37 of 38 obs.

FEB 12, 1993 03h 57m 29.45±0.57s
 31.884 S ± 8.2km 69.781 W ± 6.6km
 DEPTH = 130.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 4.1 (SAN).

RTBS 0.36 52 iPd 57 48.20 0.0
 RTCB 0.93 65 iPd 57 52.00 -0.1
 JACH 1.05 221 iP+ 57 53.23 0.0
 iS 58 10.73
 MDZ 1.27 142 iP 57 56.10 0.7
 iS 58 14.40
 CFA 1.34 79 iPd 57 56.30 0.1
 S 58 14.90
 PEL 1.47 211 iPd 57 57.70 0.1
 iS 58 17.23
 FCH 1.50 197 iP+ 57 58.81 0.5
 iS 58 19.82
 ROCH 1.50 223 iP+ 57 57.80 -0.4
 iS 58 18.32
 SAN 1.73 205 iP 57 59.94 -0.7
 iS 58 23.08
 PCH 1.84 199 iP 58 02.45 0.5
 TACH 2.02 209 iP 58 04.09 0.0
 iS 58 29.52
 CHCH 2.17 200 iP 58 06.39 0.3
 iS 58 32.86
 LCCH 2.19 223 iP 58 06.13 -0.1
 iS 58 32.83
 CACH 2.33 197 iP 58 09.12 1.0
 iS 58 37.46
 LNV 2.48 213 iP 58 08.97 -0.9
 iS 58 38.04
 RFA 3.08 159 iPc 58 17.10 -0.8
 (S) 59 13.60
 RTPR 3.22 62 ePd 58 20.20 0.7
 (S) 58 57.80
 MRA 3.49 100 ePc 58 23.00 -0.2
 S 58 58.00
 TCA 4.46 84 iP 58 35.50 -0.8
 (S) 59 23.50
 S.D. = 0.6 on 19 of 19 obs.

? FEB 12, 1993 04h 14m 22.51±5.24s
 45.513 N ± 32.9km 26.528 E ± 12.7km
 DEPTH = 164.6 ± 47.7 km
 ROMANIA (358)

BRD 0.37 89 iPd 14 45.50 0.9
 ISR 0.38 178 iPc 14 45.00 0.3
 VRI 0.38 21 iPc 14 45.00 0.4

CVO 0.40 321 iPc 14 44.00 -0.7
MLR 0.41 267 iPc 14 44.50 -0.4
PPE 1.04 47 ePd 14 54.00 4.8X
MTUR 1.07 255 ePd 14 49.00 -0.7
CFR 1.19 105 iPc 14 50.00 -0.5
CO2 1.55 264 iPd 14 55.00 0.8
S.D. = 0.9 on 8 of 9 obs.

* FEB 12, 1993 04h 41m 48.02±2.45s
21.385 S ±18.7km 69.165 W ±19.3km
DEPTH = 33.0km (normal)

NORTHERN CHILE (123)

YJA 3.49 104 iPc 42 41.90 0.1
CNCB 4.69 14 iPc 42 58.80 0.0
CCH 4.90 36 P 43 01.00 -0.6
LPB 4.93 12 Pc 43 03.40 1.2
ZOB0 5.16 11 P 43 05.20 -0.5
ARE 5.37 335 eP 43 08.00 -0.2
eS 44 09.00
S.D. = 0.8 on 6 of 6 obs.

% FEB 12, 1993 05h 32m 30.62±1.11s
38.755 S ±8.1km 177.772 E ±9.5km
DEPTH = 11.7 ±11.3 km

NORTH ISLAND, NEW ZEALAND (159)

NOZ 0.25 57 Pc 32 45.60 -0.7
MAH2 0.44 169 P 32 47.90 0.4
PAH2 0.57 259 Pd 32 46.90 -1.5
MOH 0.62 232 P 32 48.40 -0.3
URZ 0.72 313 Pc 32 47.90 -1.6
S 32 57.20
PUZ 0.78 29 P 32 50.20 0.1
S 33 00.70
TAH2 0.89 244 P 32 51.80 0.5
WHH 1.01 262 Pc 32 52.30 -0.1
TTH 1.08 223 P 32 54.30 1.3
HBZ 1.23 20 P 32 55.80 1.1
WAH2 1.45 229 Pd 32 58.20 0.9
NGZ 1.74 255 P 33 02.10 1.0
CNZ 1.79 255 P 33 02.80 1.2
BSZ 2.44 244 eP 33 10.60 0.7
MNG 2.57 223 P 33 12.00 0.4
S 33 41.50
MTW 2.97 215 P 33 16.90 0.0
KIW 3.05 225 P 33 18.20 0.2
CAW 3.14 221 P 33 18.90 -0.3
BLW 3.15 213 P 33 19.80 0.4
MOW 3.29 215 P 33 20.80 -0.5
MRW 3.42 223 P 33 22.40 -0.6
S 34 01.70
WEL 3.42 221 P 33 22.50 -0.5
DIW 3.60 234 P 33 25.60 0.0
TCW 3.64 226 P 33 25.40 -0.6
ORZ 4.54 241 P 33 37.50 -0.8
THZ 4.79 230 eP 33 41.00 -0.7
KHZ 4.87 220 eP 33 41.00 -1.8X
S 34 34.10
DSZ 5.46 235 P 33 49.30 -1.7X
LT2 5.80 224 eP 33 53.30 -2.3X
MQZ 6.27 216 eP 34 00.10 -2.0X
S 35 05.70
ODZ 8.23 218 eP 34 26.80 -1.9X
TUZ 9.38 217 eP 34 42.50 -1.8X
S.D. = 0.8 on 26 of 32 obs.

% FEB 12, 1993 05h 38m 59.10±0.82s
48.185 N ±5.5km 0.855 W ±8.1km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 3.0 (LDG).

LPF 0.20 219 Pg 39 04.40 1.0
Sg 39 12.80
GRR 0.20 359 Pg 39 04.10 0.5
Sg 39 11.90
FLN 0.63 23 Pg 39 09.60 -2.1
Sg 39 21.80
LDF 0.64 50 Pg 39 13.30 1.4
Sg 39 27.50
MFF 1.65 163 Pn 39 27.80 -0.5
Pg 39 30.60
Sg 39 58.10
HYF 2.53 110 Pg 39 51.90 11.0X
Sg 40 33.50
TCF 2.82 131 Pn 39 45.00 -0.1

BGF 3.00 122 Pg 39 56.50
Sn 40 23.70
Sg 40 41.00
Pn 39 48.40 0.9
Pg 40 00.80
Sg 40 47.10

MAF 3.05 129 Pn 39 48.50 0.3
Pg 40 00.20
Sg 40 47.40

SSF 3.16 109 Pn 39 50.20 0.4
Pg 40 02.70
Sg 40 49.40

AVF 3.18 114 Pg 39 50.30 0.3
Sn 40 35.00
Sg 40 51.80

RJF 3.31 150 Pn 39 49.70 -2.3
Pg 40 02.50
Sn 40 33.30
Sg 40 52.50

LOR 3.31 104 Pn 39 52.10 0.1
Pg 40 06.90
Sg 40 55.50

LFF 3.43 161 Pg 40 05.40 11.8X
Sg 40 54.10

LBF 3.48 108 Pn 39 54.60 0.1
Sn 40 40.40
Sg 41 01.90

SMF 3.54 114 Pn 39 55.20 0.0
Sn 40 43.60
Sg 41 03.50
S.D. = 1.1 on 14 of 16 obs.

FEB 12, 1993 05h 46m 31.40±0.65s
38.880 N ±6.4km 21.174 E ±5.1km
DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 3.3 (ATH). ML 3.0 (THE).

VLS 0.84 213 ePg 46 47.80 0.2
AGG 0.91 81 ePg 46 48.80 -0.1
eSg 47 02.24

IGT 0.92 315 iPg 46 48.38 -0.7
eSg 47 02.57

KEK 1.35 308 ePb 46 56.60 0.3
KZN 1.50 18 ePb 46 59.10 0.7
LIT 1.59 39 ePb 46 59.83 0.2
eSb 47 21.83

FNA 1.91 5 ePb 47 05.91 1.6
eSb 47 30.40
PAIG 2.20 61 iPn 47 09.08 0.5
eSn 47 37.80

OHR 2.25 353 ePn 47 07.70 -1.5
i 47 12.40
i 47 38.00
i 47 43.00

GRG 2.28 24 ePn 47 09.59 -0.1
iSn 47 39.96

SOH 2.56 40 ePn 47 14.03 0.3
eSn 47 46.56

OUR 2.61 55 ePn 47 14.27 0.0
KNT 2.64 30 ePn 47 14.40 -0.3
VAY 2.66 23 ePn 47 15.60 0.5

SRS 2.90 39 iPn 47 18.03 -0.5
SKO 3.09 4 ePn 47 24.70 3.5X
iSn 47 57.70

ALN 4.25 60 ePn 47 36.40 -1.3
S.D. = 0.8 on 16 of 17 obs.

FEB 12, 1993 05h 56m 51.96±0.33s
39.605 N ±4.9km 143.461 E ±4.9km
DEPTH = 33.0km (normal)

4.8mb (39 obs.) 4.4Msz (8 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ 1.49 250 iP+ 57 16.60 0.0
AOMJ 2.55 293 eP 57 33.10 1.2
HOOJ 2.78 357 eP 57 34.20 -0.8
S 58 06.30

YAMJ 3.03 243 P 57 38.70 0.0
MRRJ 3.35 328 eP 57 43.70 0.6
KUSJ 3.61 15 eP 57 43.90 -3.0
eS 58 23.10

NIJ 4.22 237 P 57 56.20 0.6
KAKJ 4.28 218 P 57 54.50 -1.8
S 58 41.70

ASAJ 4.55 353 eP 57 59.10 -1.2
CHJJ 5.01 226 P 58 05.90 -0.9

MAT 5.15 235 iPc 58 08.80 0.0
0.7s 118.49nm 5.5mb X
(S) 59 28.00

MTMJ 5.38 238 P 58 13.00 0.8
TSRJ 7.19 238 P 58 39.30 1.8
MDJ 11.45 300 eP 59 36.50 0.3

1.0s 18.00nm 5.2mb
Z 16s 2.36um 4.3MszX
N 13s 1.01um
E 13s 1.53um

S 01 41.00
CN2 14.09 293 eP 00 12.00 0.7
1.0s 12.00nm 4.5mb
Z 18s 1.19um 3.7Msz

N 14s 0.94um
E 14s 0.32um
epP 00 18.00

SNY 15.24 285 eP 00 28.00 1.7
Z 18s 1.66um
E 13s 0.84um

DL2 16.92 275 eP 00 47.00 -0.8
Z 16s 0.71um
N 13s 0.76um

SSE 20.02 252 Pd 01 22.80 -1.9
1.0s 11.00nm 4.1mb
Z 20s 0.50um 3.9Msz

N 14s 0.70um
E 14s 0.40um
8JI 20.94 280 eP 01 30.50 -3.7X

Z 16s 0.88um 4.2MszX
E 14s 0.78um
eS 05 18.00

TIA 21.03 269 eP 01 32.00 -3.2X
Z 16s 2.29um 4.7MszX
E 12s 1.62um

eS 05 21.00
YAK 23.96 344 iPc 02 03.00 -0.8
1.0s 60.00nm 5.1mb

Z 18s 0.76um 4.2Msz
N 14s 0.40um
e 06 23.00

e 10 26.00
TIY 24.25 275 eP 02 08.00 1.1
Z 20s 1.50um 4.5Msz

N 16s 1.09um
HHC 24.32 283 eP 02 05.40 -2.3
1.0s 11.00nm 4.4mb

Z 18s 1.81um 4.6Msz
N 14s 0.41um
E 18s 1.64um

eS 06 25.00
WHN 25.39 258 Pd 02 18.00 0.2
1.0s 28.00nm 4.8mb

Z 18s 1.21um 4.5Msz
BTO 25.52 283 eP 02 21.00 1.9
N 14s 0.37um

E 18s 1.77um
eS 06 50.00
XAN 28.09 270 P 02 42.00 -0.6

0.6s 10.00nm 4.7mb
Z 15s 0.88um 4.5MszX
N 13s 0.60um

E 13s 0.35um
sP 02 54.70
LZH 31.31 276 eP 03 10.50 -0.9

1.0s 25.00nm 5.0mb
Z 13s 0.87um 4.6MszX
pP 03 21.00 38kmX

GYA 33.29 258 P 03 27.00 -0.9
1.0s 29.00nm 5.1mb
Z 16s 0.81um 4.5MszX

pP 03 39.80 45kmX
CD2 33.34 267 eP 03 27.40 -1.7
Z 12s 1.35um 4.9MszX

N 12s 0.94um
GTA 33.43 284 eP 03 29.00 -0.8
1.0s 19.00nm 5.0mb

E 15s 0.82um
WMO 41.18 295 P 04 35.00 0.1
1.0s 31.00nm 5.0mb

pP 04 42.00 24kmX
sP 04 45.00
LSA 43.62 274 P 04 56.60 1.2

0.8s 5.00nm 4.3mb
IMA 43.66 32 eP 04 55.60 0.7
FBA 46.07 34 eP 05 25.30 11.3X

FBA 46.07 34 eP 05 15.52 1.5

GUN	0.9s	6.23nm	4.5mb	SKO	0.61	54	iPg	45 57.80				iPKPbc16	37.05		
	48.53	274 P	05 34.00 -0.3		0.2s	188.00nm	iPg	45 50.50	-1.9			ePKPab16	45.29		
KKN	0.6s	32.00nm	5.5mb	FNA	0.95	151	eP	45 57.06	-1.0	SLKM	150.50	300	ePKP	16 30.26	4.5X
PKI	49.05	275 P	05 38.00 -0.1				iSg	45 59.90					ePKPbc16	36.89	
	49.06	274 P	05 38.00 -0.3	PVY	1.15	329	iPg	46 00.31	-1.2	FBA	150.82	310	ePKP	16 30.61	4.5X
DMN	0.6s	11.00nm	5.1mb				eS	46 12.32					ePKPbc16	36.91	
GKN	49.28	275 P	05 39.80 -0.1	ULC	1.19	288	iPg	46 17.65	-1.0				ePKPab16	41.35	
	49.44	275 P	05 40.80 -0.3	VAY	1.38	102	iPn	46 05.50	0.2	CRP	151.65	301	ePKP	16 32.27	4.6X
KSH	0.6s	21.00nm	5.3mb				iSg	46 01.26		BGL	151.75	301	ePKP	16 33.09	5.3X
	50.88	293 eP	05 50.50 -1.3	GRG	1.39	118	eP	46 05.68	0.2				ePKPbc16	39.65	
WB2	0.7s	30.00nm	5.4mb				eS	46 25.12		IMA	153.47	311	ePKP	16 34.01	3.9X
	59.85	190 iPc	06 56.60 0.0	TTG	1.39	306	iPg	46 04.33	-1.1				iPKPbc16	38.31	
WRA	0.9s	4.90nm	4.6mb				iSg	46 26.71		IMA	153.47	311	ePKP	16 38.70	8.6X
	59.85	190 P	06 57.20 0.6	IVA	1.42	333	iPg	46 05.70	-0.1				e	16 48.45	
YKA	0.9s	1.50nm	4.1mb				iSg	46 08.51	0.1	TTA	153.85	304	ePKP	16 39.17	8.5
	60.78	31 eP	07 01.20 -1.3	BDV	1.60	295	iPg	46 32.78							
GBA	0.6s	0.40nm	3.7mb	KNT	1.66	105	eP	46 09.40	0.1						
ASPA	63.02	265 Pc	07 18.00 -0.2				eS	46 32.12							
	63.57	190 eP	07 21.40 -0.2	NKY	1.78	313	iPnc	46 11.98	0.8						
KAF	1.2s	3.70nm	4.4mb				iSn	46 38.15							
	66.76	333 iP	07 41.30 -0.4	HCY	1.89	297	iPnc	46 13.37	0.8						
OBN	0.7s	7.10nm	4.9mb				iSn	46 40.93		ARE	2.69	338	iPd	42 39.50	0.6
	67.00	323 eP	08 02.00 18.7X	LIT	1.99	139	iP	46 19.64	5.5X				eS	43 17.00	
Z	16s	1.20um	5.2Msz	PLE	2.00	330	iPnd	46 15.45	1.2	CNCB	3.17	48 P		42 46.30	0.3
NEW	67.18	46 eP	07 45.29 0.6				iSn	46 43.86		LPB	3.29	43 P		42 48.30	0.0
	0.9s	4.39nm	4.6mb	BRY	2.10	309	iPnc	46 16.85	1.1				1.0s	160.00nm	
NUR	68.44	332 eP	07 48.90 -3.3X				iSn	46 46.13		ZOBO	3.45	40 iPd		42 50.00	0.0
	0.3s	1.80nm	4.6mb	SOH	2.10	111	eP	46 17.80	2.1	CCH	4.37	70 (P)		43 02.00	0.7
LCCM	71.50	45 eP	08 12.10 0.7	IGT	2.11	189	eP	46 22.08	6.3X						
HFS	72.40	336 eP	08 15.00 -1.3	SRS	2.18	102	eP	46 16.88	0.1	YJA	5.61	125 ePd		43 16.00	0.0
	0.4s	3.70nm	4.8mb							NNA	9.29	317 eP		44 06.00	0.7
Z	18s	204.00um	7.4Msz							YKA	88.34	341 eP		50 15.00	0.1
		LR	38 53.00										0.5s	0.40nm	
NB2	72.43	338 P	08 15.80 -0.7							ASPA	131.43	210 ePKP		01 00.00	0.5
	0.8s	11.10nm	4.9mb										0.9s	2.50nm	
MSU	75.91	52 (P)	08 39.38 2.1X							WRA	134.33	213 PKP		01 11.00	0.01
SRU	76.52	50 (P)	08 41.70 1.0										0.6s	0.30nm	
PV10	77.88	50 eP	08 49.54 1.3												
PV08	77.98	50 eP	08 49.83 0.9												
KSP	78.75	329 ePc	08 53.80 1.3												
CLL	79.65	331 iP	08 57.70 0.4												
	0.9s	10.00nm	4.8mb												
PRU	80.12	329 eP	09 01.00 1.2												
KHC	81.18	329 eP	09 06.50 1.0												
GEC2	81.36	329 Pd	09 07.70 1.2												
	0.9s	2.38nm	4.2mb												
GRF	81.63	331 ePc	09 09.70 1.9												
Z	18s	0.20um	4.5Msz												
CDF	84.14	332 eP	09 21.00 0.1												
	0.9s	4.40nm	4.6mb												
HAU	84.82	333 eP	09 24.10 -0.1												
	0.8s	4.55nm	4.7mb												
Z	21s	0.10um	4.2Msz												
LOR	86.32	334 eP	09 31.70 0.0												
	0.8s	7.95nm	5.0mb												
Z	18s	0.13um	4.4Msz												
LBF	86.52	334 eP	09 32.50 -0.2												
	0.9s	7.85nm	4.9mb												
SSF	86.62	334 eP	09 33.20 0.1												
	0.8s	5.90nm	4.9mb												
LPL	86.79	331 eP	09 34.60 0.3												
	0.9s	4.40nm	4.7mb												
LPG	86.80	331 eP	09 34.70 0.3												
	0.9s	6.20nm	4.8mb												
GRR	86.85	337 eP	09 34.40 0.2												
	0.9s	9.00nm	5.0mb												
SMF	86.86	333 eP	09 34.50 0.2												
	1.2s	12.20nm	5.0mb												
AVF	86.90	334 eP	09 34.80 0.3												
	0.9s	10.80nm	5.1mb												
MAF	87.67	334 eP	09 39.00 0.8												
	1.1s	8.05nm	4.9mb												
LSF	87.99	335 eP	09 40.10 0.3												
	0.8s	6.05nm	4.9mb												
ZOBO	143.99	59 PKP	16 25.70 -1.1												
LPB	144.19	59 ePKP	16 26.00 -0.9												
CNCB	144.47	59 ePKP	16 26.00 -1.5												

Principal Axes:							Z	16s	0.58um	4.5MsZ	GMW	47.69	58 (P)	00 43.79	1.9	
T Val= 3.76 Pig= 9 Azm=262							N	12s	0.37um		NEW	47.87	52 eP	00 43.83	0.6	
N 1.90 25 356									eS	05 36.00		0.9s	22.17nm		5.3mb	
P -5.66 63 153							FCC	40.40	30 eP	59 45.50 2.6				ePcP	02 11.50	
Best Double Couple: Mo=4.7*10**16							GTA	41.10	209 eP	59 49.00 -0.1				epPcP	02 21.40	
NP1: Strike=324 Dip=42 Slip=-130								1.2s	10.00nm	4.4mb	KBA	47.90	301 iPd	00 44.60	0.9	
NP2: 193 59 -60							Z	10s	1.15um	5.0MsZ			1.2s	41.10nm		5.4mb
						E	12s	0.52um					i	00 59.70	58kmX	
YAK	17.36	172 eP	56 06.00	-1.3				pP	59 58.00 30kmX		RMW	47.93	57 eP	00 43.61	-0.2	
	1.6s	229.00nm		5.1mb		TIY	41.90	194 eP	59 56.80 1.2		HAU	48.08	307 iPd	00 44.80	-0.1	
Z	14s	0.36um					Z	18s	0.97um	4.7MsZ		Z	21s	0.20um		4.1MsZ
N	14s	0.72um					N	13s	0.67um				48.19	307 iPd	00 45.50	-0.3
E	10s	0.48um				EKA	42.25	318 Pd	59 58.20 0.1				1.4s	24.40nm		5.1mb
		e	59 35.00				0.9s	9.90nm	4.5mb		SSE	48.24	184 eP	00 45.50	-0.7	
		e	02 28.00			KSP	43.76	299 iPc	00 11.10 0.5			Z	16s	0.50um		4.6MsZ
		e	05 50.00				1.2s	48.00nm	5.2mb			N	12s	0.30um		
BRW	19.70	70 eP	56 35.48	-0.1				i	00 21.40 35kmX		LDF	48.44	313 iPd	00 46.80	-0.8	
DAG	22.93	339 eP	57 08.00	-0.4				e	01 57.20			1.2s	13.10nm		4.9mb	
	1.0s	34.00nm		4.8mb		CLL	43.84	303 iPd	00 10.90 -0.3		LON	48.62	57 eP	00 49.34	0.2	
KEV	24.20	303 eP	57 27.00	6.3X			1.5s	48.00nm	5.1mb		ULM	48.63	34 eP	00 51.50	2.4	
	1.2s	57.80nm		5.1mb		LZH	44.06	204 eP	00 12.50 -0.8		GRR	48.74	314 iPd	00 49.30	-0.6	
RES	24.75	24 eP	57 28.00	1.9			1.6s	50.00nm	5.1mb			1.1s	19.80nm		5.1mb	
	1.0s	5.00nm		4.1mb		Z	12s	0.41um	4.6MsZ		WHN	48.97	192 eP	00 51.20	-0.6	
IMA	24.82	74 eP	57 27.75	0.8		E	12s	0.44um			LPF	49.12	314 iPd	00 52.40	-0.4	
	1.2s	36.18nm		4.9mb				pP	00 22.50 34kmX			1.4s	35.30nm		5.2mb	
SDF	26.41	301 iP	57 41.00	-0.6		KSH	44.10	236 eP	00 12.70 -0.8		LOR	49.17	309 iPd	00 52.70	-0.6	
FBA	26.94	70 eP	57 47.52	1.0			1.0s	50.00nm	5.3mb			1.4s	31.80nm		5.1mb	
	1.0s	13.95nm		4.6mb		Z	16s	1.89um	5.1MsZ		Z	20s	0.28um		4.2MsZ	
TTA	27.25	79 (P)	57 49.92	0.4		N	12s	1.24um			CD2	49.21	204 eP	00 53.50	-0.3	
	1.9s	65.26nm		5.0mb		E	12s	1.24um				E	12s	0.91um		
IRK	27.94	207 eP	57 45.00	-10.8X				sP	00 20.00		SSF	49.43	310 iPd	00 54.60	-0.6	
	5.0s	0.17nm				DMU	44.11	320 eP	00 14.00 0.7			1.3s	20.95nm		5.0mb	
Z	10s	0.75um		4.6MsZ		DMU	44.11	320 eP	00 23.80 10.5X		LBF	49.43	309 iPd	00 54.60	-0.7	
N	11s	0.67um				BRG	44.12	302 iP	00 13.60 0.2			1.1s	24.90nm		5.1mb	
E	12s	0.42um					1.2s	22.00nm	4.9mb		AVF	49.71	310 iPd	00 57.00	-0.4	
		e	59 22.00			DLF	44.66	320 eP	00 18.00 0.3			1.3s	29.95nm		5.1mb	
		eS	02 45.00			DCN	44.70	321 eP	00 18.00 -0.1		SMF	49.78	309 iPd	00 57.40	-0.6	
		LR	10 32.00			DCN	44.70	321 eP	00 28.50 10.4X			1.3s	26.35nm		5.1mb	
CRP	29.50	77 eP	58 10.28	0.4		SPC	44.70	295 eP	00 17.70 -0.7		MAIO	49.97	253 iPd	01 01.00	1.3	
		epP	58 18.34	28kmX		MOX	44.71	304 iPc	00 19.00 0.8				eS	08 20.00		
PMR	29.75	74 (P)	58 11.31	-0.6			1.5s	42.00nm	5.1mb		BGF	50.01	310 iPd	00 59.30	-0.5	
	0.6s	5.40nm		4.5mb				e	02 07.90 624kmX			1.4s	45.30nm		5.2mb	
Z	19s	0.49um		4.2MsZ				e	02 37.20		TCF	50.37	310 iPd	01 01.90	-0.6	
KLU	30.42	71 eP	58 18.52	0.6		PRU	44.88	301 P	00 20.10 0.5			1.2s	26.20nm		5.1mb	
		epP	58 26.89	29kmX			1.5s	18.30nm	4.8mb		MFF	50.39	313 iPd	01 02.30	-0.3	
SLKM	30.56	76 eP	58 18.52	-0.6		Z	17s	0.70um	4.7MsZ			1.3s	22.40nm		5.0mb	
		epP	58 26.67	28kmX		ENN	45.45	309 eP	00 24.00 -0.1		LPL	50.46	306 iPd	01 03.40	0.0	
KAF	31.33	296 eP	58 24.00	-1.9			1.4s	27.00nm	5.0mb			1.4s	14.80nm		4.7mb	
	0.8s	5.90nm		4.5mb				e	00 33.50 32kmX		LPG	50.47	306 iPd	01 03.90	0.3	
YKA	34.42	45 eP	58 51.40	-1.3		GRF	45.69	304 ePd	00 26.80 0.7			1.2s	13.10nm		4.8mb	
	0.9s	5.00nm		4.4mb			1.2s	28.00nm	5.1mb		LCCM	51.00	49 eP	01 07.30	-0.2	
NS2	34.74	308 P	58 54.60	-1.0		Z	22s	0.20um	4.0MsZ		RJF	51.43	311 iPd	01 10.00	-0.6	
	0.5s	6.40nm		4.8mb				e	00 35.40 29kmX			1.5s	29.25nm		5.0mb	
MDJ	34.78	174 eP	58 55.50	-0.4		XAN	45.75	198 P	00 26.50 -0.2		Z	21s	0.25um		4.2MsZ	
	1.2s	26.00nm		5.0mb			Z	12s	0.74um	4.8MsZ	LSA	51.61	218 P	01 14.00	1.3	
APO	34.81	306 eP	58 55.20	-1.0		N	11s	0.47um				1.2s	7.00nm		4.5mb	
	0.4s	1.10nm		4.1mb				eS	07 10.00		CAF	51.72	310 iPd	01 13.00	0.2	
CN2	35.54	179 eP	59 04.00	1.6		KHC	45.86	301 eP	00 29.00 1.6			1.4s	18.30nm		4.8mb	
	1.2s	25.00nm		5.0mb			1.2s	10.00nm	4.7mb		LPO	52.09	311 iPd	01 15.40	-0.1	
Z	15s	0.88um		4.6MsZ			Z	20s	0.50um	4.5MsZ		1.3s	27.10nm		5.0mb	
OSN	36.13	283 ePc	59 07.00	-0.4		N	18s	0.50um			EEO	53.64	20 eP	01 30.00	3.0X	
	1.0s	21.00nm		4.9mb		E	16s	0.80um			RSSD	53.73	42 eP	01 27.04	-1.0	
Z	10s	0.70um		4.7MsZ				e	00 43.50 55kmX			1.1s	8.68nm		4.7mb	
		i	59 21.00	54kmX		WET	45.96	302 eP	00 29.40 1.2		Z	19s	0.31um		4.4MsZ	
		i	00 29.00			PSZ	45.99	295 eP	00 29.40 0.9				epP	01 36.58	31kmX	
		e	01 35.00			GEC2	46.12	301 Pd	00 29.90 0.3		EPF	53.83	311 iPd	01 27.60	-0.9	
		LR	12 10.00				1.5s	23.12nm	4.9mb			1.1s	10.80nm		4.8mb	
SNY	37.51	181 eP	59 18.90	-0.1				e	00 40.10 34kmX		GUN	54.02	223 P	01 30.80	0.4	
	1.2s	1.09um		4.9MsZ				e	00 45.40			1.0s	64.00nm		5.6mb	
N	13s	0.58um				ZST	46.19	298 eP	00 30.80 0.8		GKN	54.09	224 P	01 30.80	0.1	
								e	02 25.60 670kmX			1.0s	56.00nm		5.5mb	
WMO	38.12	225 P	59 24.00	-0.3				i	30 17.80		BW06	54.32	47 eP	01 30.94	-1.5	
	1.5s	8.00nm		4.3mb								1.3s	8.15nm		4.6mb	
Z	14s	1.30um		4.9MsZ		DOU	46.30	309 P	00 42.40 11.6X				epP	01 40.47	31kmX	
N	12s	0.74um				SRO	46.36	297 eP	00 32.60 1.3					01 33.40	0.1	
		pP	59 32.50	29kmX		WLF	46.50	308 P	00 35.00 2.7		PKI	54.42	223 P	01 33.60	0.3	
HHC	38.82	196 eP	59 31.00	0.8		MCW	46.58	57 (P)	00 33.20 0.1		DMN	54.42	224 P	01 36.71	0.5	
	1.2s	16.00nm		4.6mb		SES	46.65	47 eP	00 34.00 0.3		HVU	54.85	50 eP	01 45.27	28kmX	
Z	17s	0.72um		4.6MsZ		VRI	46.78	288 eP	00 38.00 3.3X				epP	01 36.50	-1.2	
N	13s	0.39um				SOP	46.78	298 eP	00 35.50 0.9		KMI	55.03	204 Pd			
E	12s	0.35um				MLR	47.28	289 eP	00 39.00 0.2			1.5s	30.00nm		5.1mb	
		eS	05 28.00			NJ2	47.33	187 eP	00 40.40 1.3		Z	18s	1.00um		4.9MsZ	
BTO	39.15	198 eP	59 33.00	0.0			Z	16s	0.47um	4.5MsZ			pP	01 45.50	29kmX	
	1.4s	0.62um				N	13s	0.67um			LMN	55.07	8 eP	01 40.50	2.9	
E	16s	0.53um											pP	01 49.50	29kmX	
BJI	39.43	190 eP	59 36.00	0.9		CDF	47.55	307 iPd	00 40.90 0.1		RSNY	55.99	16 eP	01 44.37	0.2	
	1.5s	57.00nm		5.0mb			1.3s	22.40nm	5.1mb			1.1s	32.44nm		5.3mb	
						CMP	47.66	290 ePc	00 36.00 -5.7X							

12d 11h

Z	19s	0.15um	4.1Msz	
DUG	56.39	51 eP	01 54.00 31kmX	
	0.8s	4.86nm	4.6mb	
DAU	56.41	49 eP	01 56.60 31kmX	
		ePcP	02 44.86	
EMUT	57.06	49 eP	01 47.14 -0.5	
		eP	01 56.34 30kmX	
		ePd	01 52.37 0.1	
		esP	02 01.91 31kmX	
BONR	57.76	56 eP	02 06.12	
		eP	01 57.65 0.4	
		esP	02 07.60 33kmX	
SRU	57.79	49 ePd	02 12.75	
		eP	01 56.47 -0.8	
		eP	02 05.61 30kmX	
ARN	57.84	59 (P)	01 59.28 1.8	
GLD	57.88	44 eP	01 57.73 -0.2	
	1.5s	27.04nm	5.1mb	
PAB	57.90	315 eP	01 57.00 -0.9	
GOL	57.91	44 eP	01 57.72 -0.5	
	1.2s	19.01nm	5.0mb	
Z	18s	0.31um	4.5Msz	
MSU	58.14	51 eP	02 00.15 0.3	
		ePcP	02 51.92	
PV08	58.58	47 ePd	02 02.82 -0.2	
		ePcP	02 03.14	
		epPcP	03 02.37	
PV09	58.58	48 eP	02 02.55 -0.5	
		eP	02 11.87 31kmX	
ARUT	58.66	52 eP	02 03.18 -0.2	
PV10	58.72	48 ePd	02 03.72 -0.2	
		eP	02 13.39 32kmX	
TPNV	59.06	55 (P)	02 06.54 0.3	
	0.7s	3.18nm	4.6mb	
FVM	61.32	31 P	02 30.00 8.6X	
Z	21s	0.35um	4.5Msz	
ACO	61.65	39 iPd	02 22.20 -1.5	
ELC	62.13	30 eP	02 24.73 -2.1	
		eP	02 34.00 30kmX	
ALO	62.45	46 ePd	02 28.53 -0.8	
	1.2s	14.05nm	5.0mb	
		eP	02 38.39 32kmX	
GLA	63.10	54 eP	02 33.39 0.0	
		eP	02 42.87 31kmX	
MEO	63.61	39 iPc	02 35.40 -1.3	
WMOK	63.63	39 eP	02 35.78 -1.0	
	1.2s	37.52nm	5.5mb	
Z	18s	0.32um	4.5Msz	
OLY	63.67	32 eP	02 45.41 31kmX	
		eP	02 35.09 -2.0	
		eP	02 44.23 29kmX	
MIAR	64.40	34 P	02 50.00 8.1X	
Z	19s	0.26um	4.4Msz	
TUC	64.43	51 eP	02 41.77 -0.4	
	1.5s	11.40nm	4.8mb	
Z	18s	0.17um	4.3Msz	
UYO	64.68	35 iPd	02 51.85 32kmX	
HYB	65.34	229 ePc	02 42.10 -1.6	
HON	66.85	98 P	03 10.00 12.3X	
Z	19s	0.12um	4.1Msz	
GBA	69.25	230 Pd	03 12.00 -0.7	
ZOBO	116.76	14 ePKP	10 47.00 -3.2X	
LPB	117.00	14 ePKP	10 46.00 -4.4X	
CNCB	117.28	13 ePKP	10 48.00 -3.1X	
S.D. = 1.0 on 122 of 136 obs.				
? FEB 12, 1993 11h 03m 26.09±0.88s				
40.808 N ± 7.3km 22.972 E ± 7.4km				
DEPTH = 10.0km (geophysicist)				
GREECE (364)				
THE	0.18	182 iPg	03 29.94 -0.1	
		eSg	03 32.86	
SOH	0.29	87 iPg	03 32.30 0.1	
		iSg	03 37.14	
KNT	0.36	351 ePg	03 33.30 -0.2	
		eSg	03 39.26	
GRG	0.46	289 ePg	03 35.54 0.1	
		eSg	03 42.89	
S.D. = 0.3 on 4 of 4 obs.				
* FEB 12, 1993 11h 17m 00.38±0.85s				
48.740 N ± 8.8km 10.165 E ± 8.8km				
DEPTH = 10.0km (geophysicist)				
GERMANY (543)				

ML 2.5 (VIE).

FUR	0.94	127 iPg	17 19.90 1.6
TOD	1.24	315 ePn	17 24.59 1.1
SOTA	1.67	155 iPnc	17 30.50 0.5
		iPg	17 32.80
		iSg	17 57.30
FEL	1.68	240 ePn	17 29.07 -0.9
WATA	1.69	145 iPnc	17 30.70 0.4
		iPg	17 32.90
		iSn	17 53.00
		iSg	17 57.00
WTTA	1.78	146 iPnc	17 32.30 0.8
		iPg	17 34.60
		iSn	17 54.80
		iSg	17 59.50
ABH	2.06	305 ePn	17 39.61 4.2X
MOX	2.13	26 ePn	17 35.60 -0.8
		ePg	17 41.30
		iSg	18 07.60
KHC	2.28	79 eP	17 39.00 0.3
		Pg	17 44.50
		eSg	18 13.00
GEC2	2.34	86 Pn	17 40.00 0.4
		Pg	17 44.30
		Sg	18 17.00
KBA	2.71	127 iPnd	17 41.70 -3.2
		ePg	17 53.00
		iSg	18 28.70

S.D. = 1.6 on 10 of 11 obs.

FEB 12, 1993 11h 22m 57.69±0.52s
 43.301 N ± 7.8km 83.999 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 4.4mb (10 obs.)
 NORTHERN XINJIANG, CHINA (332)
 ML 4.5 (BJI).

WMO	2.74	78 Pg	23 47.00 4.5X
KSH	7.15	240 Pn	24 46.20 1.3
	0.5s	20.00nm	5.5mb X
		Sn	26 06.00
GTA	12.50	103 eP	25 55.00 -3.6X
LSA	14.73	155 P	26 30.50 2.2
GKN	15.27	178 P	26 34.80 -0.3
	0.6s	25.00nm	4.8mb
GUN	15.43	174 P	26 36.60 -0.8
	0.8s	38.00nm	4.8mb
DMN	15.68	176 P	26 43.60 3.1X
PKI	15.74	175 P	26 41.80 0.5
LZH	16.87	109 eP	26 54.50 -1.0
Z	12s	0.30um	
CD2	19.97	122 eP	27 33.00 0.0
HHC	20.57	87 eP	27 39.80 0.5
	1.0s	27.00nm	4.6mb
XAN	21.48	107 P	27 48.20 -0.3
	1.0s	14.00nm	4.3mb
TIY	22.27	95 eP	27 57.50 1.1
GYA	24.94	125 P	28 23.40 0.9
	1.0s	19.00nm	4.7mb
CN2	29.82	75 eP	29 07.00 0.1
GBA	30.13	193 P	29 08.00 -1.8
KAF	38.13	320 eP	30 18.50 0.3
	0.2s	0.60nm	4.0mb
N82	45.40	319 P	31 17.30 -0.5
	0.5s	1.50nm	4.2mb
GEC2	47.50	302 P	31 36.90 2.3
	0.4s	0.51nm	3.9mb
IMA	62.31	23 eP	33 22.70 0.6
BCAO	69.22	256 iPc	34 05.10 -1.8
	0.4s	10.00nm	5.3mb
YKA	73.50	9 eP	34 30.20 -1.6
	0.5s	0.70nm	4.0mb
ASPA	80.89	135 eP	35 11.80 -1.6
S.D. = 1.3 on 20 of 23 obs.			

FEB 12, 1993 11h 29m 14.95±0.54s
 44.483 N ± 8.9km 4.816 E ± 8.5km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
 ML 2.5 (LDG).

LRG	1.52	132 Pg	29 41.60 -0.5
		Sg	30 30.00
FRF	1.61	124 Pg	29 43.30 -0.2
		Sg	30 05.30
LMR	1.68	133 Pg	29 45.10 0.6

SMF	2.27	343 Sg	30 08.50
		Pg	29 52.70 -0.4
		Sg	30 21.60
MAF	2.35	318 Pg	29 53.00 -1.3
		Sg	30 21.90
RJF	2.48	290 Pg	29 56.30 0.2
		Sg	30 24.50
BGF	2.49	327 Pg	29 55.90 -0.3
		Sg	30 26.60
LBF	2.57	347 Pg	29 58.30 1.0
		Sg	30 29.40
TCF	2.57	315 Pg	29 58.10 0.7
		Sg	30 29.70
LPO	2.60	276 Pg	29 57.90 0.1
		Sg	30 29.60

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

FEB 12, 1993 11h 33m 00.36±0.27s
 17.580 S ± 8.0km 172.627 W ± 9.1km
 DEPTH = 31.4km (4 depth phases)
 4.9mb (16 obs.) 5.1Msz (27 obs.)
 TONGA ISLANDS REGION (174)
 Mw 5.3 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 26S, 38C
 Centroid Location:
 Origin Time 11:33: 3.0 0.9
 Lat 17.97S 0.11 Lon 172.51W 0.08
 Dep 15.0 FIX Half-duration 1.1
 Moment Tensor; Scale 10**16 Nm
 Mrr= 5.01 0.27 Mtt=-2.33 0.48
 Mff=-2.67 0.43 Mrt= 2.53 1.09
 Mrf= 7.02 1.12 Mtf=-1.82 0.26
 Principal Axes:
 T Vol= 9.31 Plg=60 Azm=283
 N -1.08 7 26
 P -8.23 29 120
 Best Double Couple: Mo=8.8*10**16
 NP1: Strike=230 Dip=17 Slip= 115
 NP2: 24 74 82

SYA	8.51	265 ePd	35 04.80 0.4
BKM	18.24	267 iPc	37 12.10 -0.8
DZM	20.18	254 iPc	37 33.00 -2.4
KUZ	21.69	206 P	37 47.00 -3.5X
URZ	22.48	202 eP	37 55.50 -2.8
NOZ	22.49	199 P	37 59.10 0.6
WLZ	22.70	205 P	37 59.50 -1.1
MNG	25.15	202 eP	38 22.50 -1.8
ORZ	26.47	206 eP	38 36.80 0.3
THZ	27.10	204 eP	38 41.50 -0.9
KHZ	27.43	203 eP	38 46.90 1.7
DSZ	27.53	206 P	38 46.20 -0.1
LTZ	28.22	204 eP	38 53.40 0.9
BRS	33.33	247 eP	39 33.00 -4.8X
CTA	38.93	260 P	40 22.89 -2.5
CTA	38.93	260 iPc	40 29.00 3.6X
HON	41.23	21 P	40 50.00 5.8X
Z	20s	1.09um	4.7Msz
TOO	41.71	233 eP	40 25.90 -22.2X
	0.8s	18.00nm	
STK	43.64	242 iPd	40 59.60 -4.3X
	0.7s	4.30nm	4.3mb
ASPA	50.18	254 iPc	41 50.10 -5.4X
	0.6s	63.60nm	5.8mb
Z	20s	0.60um	4.6Msz
		eS	48 51.50
SMY	70.96	352 P	44 30.00 13.5X
Z	19s	1.53um	5.3Msz
ISA	73.70	43 P	44 40.00 6.7X
Z	20s	1.12um	5.1Msz
CMB	73.92	41 P	44 40.00 5.6X
Z	21s	0.79um	5.0Msz
BAG	73.95	293 eP	44 33.70 -1.5
WDC	74.24	37 P	44 40.00 3.8X
Z	20s	1.38um	5.2Msz
BONR	75.17	42 eP	44 42.36 0.3
		e	44 52.49 32km
TPNV	75.91	43 P	44 50.00 3.9X
Z	19s	2.22um	5.5Msz
TNP	75.94	42 eP	44 46.18 -0.1
	0.9s	9.05nm	4.8mb
		e	45 07.63 81kmX
TUC	77.20	50 eP	44 51.50 -1.8
	0.9s	5.88nm	4.6mb
Z	20s	0.56um	4.9Msz

RMW	79.14	32	eP	45 03.68	0.1		1.2s	71.00nm		MBH	152.12	301	ePKP	52 54.50	6.6X	
MSU	79.46	44	eP	45 03.73	-2.0			e	52 40.30		LPG	152.16	1	ePKP	52 51.10	3.3X
SVW	79.60	8	e(P)	45 04.70	-1.0	CLL	146.05	354 iPKPc	52 38.20	0.5	BCAO	162.96	221 iPKPc	53 02.30	1.0	
BGL	80.23	10	eP	45 07.97	-1.2		1.3s	110.00nm				0.7s	6.00nm			
CP2	80.25	10	(P)	45 08.64	-0.8			i	52 49.00				ic	53 50.10		
CRP	80.27	10	eP	45 07.77	-1.7	KSP	146.06	350 iPKPc	52 38.80	1.0		S.D. = 1.3	on 77 of 127 obs.			
SIT	80.61	20	P	45 20.00	8.9X		1.1s	75.00nm								
Z	19s		1.80um		5.4MsZ			i	52 49.40							
PMS	80.70	11	eP	45 12.50	0.9	BRG	146.37	352 iPKP	52 39.70	1.4		FEB 12, 1993	11h 45m 00.06±0.40s			
SRU	80.87	44	eP	45 10.97	-2.2		1.6s	85.00nm					41.666 N ± 5.4km	20.779 E ± 4.3km		
PMR	81.10	11	P	45 20.00	6.4X			i	52 49.80				DEPTH = 10.0km	(geophysicist)		
Z	20s		0.76um		5.0MsZ	SPC	146.79	345 ePKP	52 41.10	1.8		ALBANIA		(391)		
DPW	81.28	34	eP	45 14.95	0.0	MOX	146.84	355 ePKP	52 41.00	1.9			ML 3.1 (SKO), 3.1 (TTG), 3.0			
TTA	81.30	8	eP	45 14.18	-0.6		2.0s	94.00nm					(THE).			
	1.1s		5.27nm		4.5mb			e	52 50.90		OHR	0.55	178 iPgc	45 09.30	-2.1	
			e	45 43.19	113kmX			e	53 00.90			0.6s	150.00nm			
PV09	81.49	45	eP	45 15.12	-1.5			e	53 19.10		SKO	0.58	58 iPgd	45 10.50	-1.3	
PV10	81.49	45	eP	45 13.63	-2.9	PRU	147.16	351 PKP	52 41.90	2.3X		0.3s	108.00nm			
ALQ	81.64	49	eP	45 13.36	-3.9X		2.1s	54.70nm					iSg	45 19.60		
Z	20s		5.85nm		4.5mb	VR1	147.52	334 ePKP	52 46.00	5.7X			iSg	45 16.86	-2.0	
PV08	81.86	45	(P)	45 17.72	-0.8	GRF	147.82	355 ePKPc	52 44.00	3.3X	FNA	0.99	153 ePg	45 31.90		
			e	45 37.40	72kmX	WLF	147.98	1 iPKPc	52 46.65	5.8X			eSg	45 20.27	-0.6	
CN2	83.22	320	eP	45 24.30	-0.7	PSZ	148.05	344 ePKP	52 44.90	3.7X	PVY	1.10	327 iPgc	45 36.58		
	1.2s		16.00nm		5.0mb	KHC	148.13	352 PKP	52 45.00	3.8X			iSg	45 21.07	-1.0	
DL2	83.22	314	eP	45 28.00	2.9X		1.5s	33.90nm			ULC	1.18	285 iPgd	45 38.14		
			eS	55 56.00		MLR	148.15	335 ePKP	52 47.00	5.5X			iSg	45 24.08	-1.0	
SNY	83.38	318	iPc	45 26.00	0.2	FLN	148.25	10 ePKP	52 40.30	-1.0	TTG	1.36	305 iPgc	45 44.58		
			pP	45 36.00	32km		1.2s	47.90nm			IVA	1.37	332 iPgd	45 25.04	-0.2	
			PP	48 32.00		Z	18s	0.30um		5.1MsZ			iSg	45 25.40	0.0	
			iS	55 44.00		GEC2	148.39	352 PKP	52 44.10	2.4X	VAY	1.39	104 iPn	45 25.42	-0.4	
BW06	83.40	41	eP	45 23.00	-3.3X		1.1s	9.32nm			GRG	1.41	120 ePb	45 28.47	0.3	
	0.9s		4.93nm		4.6mb	GEC2	148.39	352 PKP	52 55.60	13.9X			eSb	45 51.54		
LCCM	83.61	38	eP	45 27.00	-0.2		0.8s	3.37nm			BDV	1.58	294 iPgc	45 29.26	-0.2	
FBA	84.39	10	eP	45 29.37	-1.1	ZST	148.45	348 ePKP	52 42.50	0.8			iSg	45 30.00	-0.4	
	0.9s		22.27nm		5.4mb	LDF	148.47	10 ePKP	52 41.00	-0.7	KNT	1.67	107 ePb	45 31.46	0.7	
			e	45 40.21	35km		1.2s	33.05nm					eSb	45 56.30		
IMA	84.61	8	eP	45 29.42	-2.3	SRO	148.54	346 ePKP	52 46.50	4.7X	KKB	1.74	83 iP	45 32.90	0.5	
	1.1s		5.84nm		4.7mb	GRR	148.55	11 ePKP	52 41.30	-0.5	NKY	1.75	312 iPnc	45 34.54	0.9	
GOL	84.63	46	P	45 40.00	7.4X		1.1s	27.85nm					iSn	46 01.58		
Z	19s		0.80um		5.1MsZ	LPF	148.86	11 ePKP	52 42.20	-0.1	HCY	1.87	295 iPnc	45 35.00	0.2	
GLD	84.76	46	P	45 40.00	6.9X		1.4s	55.35nm			PLE	1.95	329 iPnd	45 37.42	2.7X	
	2.1s		1.64um		5.4MsZ	WLS	149.25	0 PKP	52 44.90	1.9			iSn	45 35.82	0.5	
SES	86.57	34	ePd	45 41.40	-0.3	CDF	149.25	0 PKP	52 44.75	1.7	VTS	2.03	62 eP	45 37.62	1.6	
			pP	45 50.00	27km	FUR	149.33	355 ePKP	52 48.00	4.9X	LIT	2.03	140 ePb	46 03.74		
WMOK	87.23	52	P	45 50.00	4.8X	VITF	149.42	2 PKP	52 44.14	0.9			eSb	45 38.68	2.1	
Z	20s		0.67um		5.0MsZ	HAU	149.64	1 ePKP	52 44.30	0.7	BRY	2.07	307 iPnc	45 37.00	-0.4	
MEO	87.40	52	iPd	45 47.50	1.5		1.2s	38.40nm		5.1MsZ			iSn	45 49.00	5.1X	
BJI	87.50	313	eP	45 47.00	0.7		Z	19s	0.32um		HVAR	3.54	297 iPn	45 58.00	10.0X	
	2.0s		99.00nm		5.7mb	FEL	149.78	359 PKP	52 42.88	-1.1	SOH	2.12	113 ePn	45 56.20	0.0	
	20s		0.30um		4.7MsZ	MOF	149.81	0 PKP	52 42.52	-1.4			eSb	45 58.20		
			eSKS	56 17.00		BSF	149.83	1 ePKP	52 44.60	0.6			ePn	45 58.20		
			eS	56 28.00			1.0s	11.60nm			IGT	2.16	189 ePn	45 38.68	2.1	
RSSD	87.56	42	(P)	45 46.05	-0.8	KBA	150.17	352 i(PKP)	52 50.70	6.1X	SRS	2.19	104 ePn	45 38.72	1.7	
	1.4s		10.78nm		4.9mb		1.2s	22.50nm			MMB	2.21	91 eP	45 37.00	-0.4	
Z	20s		0.51um		4.9MsZ	WTTA	150.19	354 iPKPc	52 49.50	4.8X	PGB	2.67	70 eP	45 49.00	5.1X	
			e	46 01.00	51kmX		1.0s	19.50nm			AGG	2.89	155 ePn	45 48.38	1.3	
TIY	89.21	310	eP	45 55.00	0.3	LOR	150.25	5 ePKP	52 45.80	1.3	RZN	2.95	88 eP	45 58.00	10.0X	
	20s		0.75um		5.1MsZ		1.2s	28.25nm			HVAR	3.54	297 iPn	45 56.20	0.0	
GYA	89.71	298	P	45 58.00	0.7	Z	19s	0.35um		5.2MsZ		S.D. = 1.2	on 23 of 26 obs.			
	1.2s		16.00nm		5.2mb	LOMF	150.31	1 PKP	52 45.16	0.5				FEB 12, 1993	12h 08m 38.83±0.70s	
XAN	90.50	306	eP	46 01.30	0.6	MFF	150.40	11 ePKP	52 45.90	1.2					41.637 N ± 5.1km	
HHC	91.04	313	eP	46 04.20	1.1		1.3s	26.35nm							22.292 E ± 6.1km	
	1.0s		9.90nm		5.1mb	SSF	150.43	5 ePKP	52 46.40	1.6				DEPTH = 10.0km	(geophysicist)	
MIAR	91.14	54	P	46 10.00	6.4X		1.2s	440.50nm						NORTHWESTERN BALKAN REGION	(383)	
	19s		0.35um		4.8MsZ	LBF	150.54	5 ePKP	52 46.50	1.5				ML 2.5 (THE), 2.2 (SKO).		
YKA	91.79	23	eP	46 05.00	-1.0		1.3s	28.90nm			VAY	0.38	146 iPg	08 46.60	0.0	
	1.2s		3.60nm		4.7mb	OGA	150.64	355 iPKPc	52 52.50	7.1X			iSg	08 52.00		
BTO	92.04	312	eP	46 08.40	0.7		1.0s	20.00nm			KKB	0.63	69 iPg	08 50.00	-1.6	
KMI	92.63	295	Pd	46 12.50	1.6	AVF	150.68	6 ePKP	52 46.60	1.5	KNT	0.66	136 ePg	08 51.44	-0.5	
	2.0s		60.00nm		5.7mb		1.4s	27.00nm					eSg	09 00.72		
FVM	94.69	52	P	46 30.00	10.2X	HMDT	150.70	305 ePKP	52 51.60	6.0X	GRG	0.69	173 iPg	08 52.14	-0.3	
	18s		1.08um		5.4MsZ	BGF	150.86	6 ePKP	52 47.20	1.8			eSg	09 02.58		
SLM	95.03	51	P	46 30.00	8.6X		1.3s	29.95nm			SKO	0.72	298 ePn	08 53.00	0.0	
	18s		0.60um		5.1MsZ	SMF	150.87	5 ePKP	52 47.00	1.5			eSg	09 05.00		
CEH	102.88	56	Pdiff	47 00.00	3.1X		1.2s	17.25nm			MMB	1.08	92 iP			

12d 12h

DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)

CRE	6.96	31 P	21 58.93	1.1
MME	7.00	23 P	21 59.56	1.0
SGO	7.06	64 P	21 58.59	-0.5
PGD	7.08	29 P	22 00.22	0.7
SFI	7.17	30 P	21 59.34	-1.2
SOI	7.20	85 P	22 01.26	0.2
BOB	7.22	14 P	21 59.66	-1.8
BNI	7.26	358 P	22 02.58	0.5

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

? FEB 12, 1993 12h 30m 37.80±3.55s
25.774 S ±24.1km 179.859 W ±30.3km

DEPTH = 508.7 ± 34.4 km
4.6mb (2 obs.)

SOUTH OF FIJI ISLANDS (171)

PUZ	12.37	187 eP	33 21.90	0.8
URZ	12.71	191 eP	33 22.90	-1.7
NOZ	12.93	187 eP	33 27.10	0.2
DZM	13.06	284 iPc	33 28.90	0.5
MNG	15.31	194 eP	33 48.90	-2.1
QRZ	16.29	201 P	34 01.40	0.6
THZ	17.03	199 eP	34 08.20	0.1
DSZ	17.36	201 eP	34 12.00	0.7
KHZ	17.47	196 eP	34 12.50	0.3
LTZ	18.16	199 P	34 20.50	1.5
ASPA	41.89	263 iPc	37 44.60	0.1

0.3s 5.00nm 4.5mb
WB2 42.43 268 eP 37 47.90 -0.8

0.3s 6.50nm 4.6mb
WRA 42.44 268 P 37 48.50 -0.3

0.5s 0.50nm 3.3mb X
OBN 140.42 328 ePKP 48 54.00 -15.6X

e 49 30.00
e 50 35.00
NB2 143.94 351 PKP 49 15.80 0.2

0.7s 1.70nm
S.D. = 1.1 on 14 of 15 obs.

? FEB 12, 1993 12h 35m 25.94±2.25s
83.015 N ±62.1km 119.605 E ±11.7km

DEPTH = 10.0km (geophysicist)
4.0mb (5 obs.)

NORTH OF SEVERNAYA ZEMLYA (651)

IMA	24.63	78 eP	40 46.60	-0.6
	1.1s	6.56nm	4.2mb	
FBA	26.45	73 eP	41 05.00	0.9
	1.0s	6.50nm	4.5mb	
KAF	29.24	286 eP	41 33.80	4.5X
NB2	31.98	299 P	41 54.30	0.6
	0.5s	0.90nm	4.0mb	
YKA	32.24	45 eP	41 55.60	-0.3
	0.9s	1.00nm	3.7mb	
GEC2	43.70	293 P	43 31.70	-0.5
	0.8s	0.89nm	3.6mb	

e 43 39.70
S.D. = 1.0 on 5 of 6 obs.

FEB 12, 1993 12h 44m 19.14±0.62s
23.507 N ± 8.9km 92.337 E ± 6.9km

DEPTH = 33.0km (normal)
4.3mb (8 obs.) 3.9msz (2 obs.)

INDIA-BANGLADESH BORDER REGION (315)

LSA	6.26	350 Pc	45 54.60	2.6
GUN	7.29	308 P	46 06.00	-0.4
PKI	7.45	304 P	46 09.00	0.4
KKN	7.66	305 P	46 11.80	0.3
DMN	7.70	304 P	46 11.80	-0.3
CHTO	7.73	126 eP	46 10.40	-1.9
GKN	8.26	304 P	46 19.60	-0.2
KMI	9.62	78 Pc	46 57.50	18.8X

1.6s 40.00nm
pP 47 07.00

HYB 14.26 247 eP 47 41.00 0.1
eS 50 08.00

LZH 16.01 36 eP 48 03.00 -0.6
1.0s 15.00nm 4.1mb

Z 12s 0.51um 5.6mszX
E 10s 0.32um

pP 48 09.50
GTA 17.08 20 eP 48 18.00 0.9

Z 12s 0.49um

GBA 17.21 238 P 48 27.00 8.3X
XAN 17.91 50 P 48 26.70 -0.6

WMO 20.62 350 P 48 56.00 -2.3
pP 49 02.00 22kmX

KSH 21.10 323 eP 49 00.30 -2.9
TIY 22.29 46 eP 49 14.40 -0.7

Z 20s 0.50um 3.9msz
S 53 16.00

BTO 22.62 37 eP 49 14.50 -3.9X
HHC 23.66 39 eP 49 30.30 1.8

1.2s 10.00nm 4.2mb
Z 22s 0.52um 4.0msz

CN2 33.87 45 eP 51 00.00 -0.8
WRA 59.52 133 P 54 23.20 1.4

0.6s 0.80nm 4.0mb
WB2 59.53 133 eP 54 22.40 0.5

0.7s 5.30nm 4.8mb
ASPA 61.87 136 iPc 54 38.70 0.9

0.9s 5.50nm 4.7mb
GEC2 65.34 315 P 55 01.30 0.9

1.0s 2.05nm 4.2mb
e 55 04.00

BCAO 73.39 268 iPd 55 54.00 3.7X
1.0s 15.00nm 4.9mb

YKA 91.65 12 eP 57 25.00 1.0
0.7s 0.40nm 3.9mb

BGR 110.92 350 PKP 02 58.20 7.6X
S.D. = 1.4 on 21 of 26 obs.

? FEB 12, 1993 12h 53m 05.48±1.01s
6.193 S ±14.7km 151.309 E ±21.8km

DEPTH = 33.0km (normal)
4.3mb (5 obs.)

NEW BRITAIN REGION, P.N.G. (192)

RAB 2.16 23 eP 53 40.00 0.1
PMG 5.21 232 eP 54 24.00 0.9

RMO 20.33 187 iPc 57 41.50 -0.3
0.5s 11.00nm 4.5mb

BRS 21.13 176 iPd 57 49.50 -0.5
1.0s 6.00nm 4.0mb

WB2 21.41 229 eP 57 50.40 -2.4
0.6s 12.90nm 4.5mb

ASPA 24.13 222 iPc 58 20.40 0.8
0.9s 30.70nm 4.8mb

eS 02 43.70
STK 27.12 198 eP 58 48.80 1.3

3.0s 2.50nm 3.3mb
S.D. = 1.5 on 7 of 7 obs.

& FEB 12, 1993 13h 02m 27.72s
62.031 N 149.390 W

DEPTH = 42.9km
4.7mb (28 obs.)

CENTRAL ALASKA (1)

<AEIC>. ML 4.4 (AEIC), 4.8
(PMR). Felt (V) at Eagle River;

(IV) at Chickoloon, Palmer,
Tolkeetno and Wasilla; (III) at
Anchorage and Skwentno.

GHO 0.34 139 iPd 02 36.50 -0.3
eS 02 43.60

PWA 0.45 211 P 02 37.70 -0.2
PLRM 0.46 164 iPc 02 37.34 -0.7

PMR 0.46 164 iPd 02 37.00 -1.0
SML 0.55 114 iPc 02 38.43 -0.9

eS 02 48.11
CUT 0.56 313 eP 02 38.87 -0.5

eS 02 47.71
PMS 0.79 186 P 02 41.90 -0.7

SUA 0.86 229 iPd 02 43.27 -0.4
HUR 0.96 353 iPc 02 44.12 -0.8

SCM 1.00 101 iPc 02 44.42 -1.1
SKT 1.01 268 iPc 02 44.76 -0.9

eS 02 58.53
PTE 1.18 171 iPc 02 47.52 -0.5

RND 1.40 10 iPc 02 50.27 -1.0
CGLM 1.44 241 eP 02 52.19 0.3

TRF 1.48 344 iPc 02 51.62 -0.9
CRP 1.53 241 ePc 02 51.98 -1.1

SPU 1.53 237 iPc 02 52.79 -0.3
MPA 1.55 179 ePc 02 52.54 -0.7

CKN 1.56 240 ePc 02 53.34 -0.1
CP2 1.56 242 eP 02 52.84 -0.8

NKA 1.57 215 ePd 02 54.94 1.4
SLKM 1.58 195 ePc 02 53.13 -0.6

CKT 1.58 239 ePc 02 53.30 -0.5
GLI 1.60 135 iPc 02 53.32 -0.6

BGL 1.63 243 eP 02 53.53 -0.9
CKL 1.64 241 ePc 02 53.98 -0.7

VZW 1.67 124 iPc 02 54.22 -0.8
VLZ 1.72 120 iPc 02 54.51 -1.1

eS 03 16.14
MCK 1.72 7 ePc 02 55.01 -0.7

KLU 1.74 107 iPc 02 55.06 -0.9
eS 03 17.07

SDG 1.87 73 iPc 02 57.47 -0.3
KNIM 1.87 154 ePc 02 56.12 -1.7

TZL 1.87 88 ePc 02 57.66 -0.1
FID 1.90 131 iPc 02 57.35 -0.9

SEW 1.93 181 eP 02 57.82 -0.9
PAX 2.05 61 iPc 02 59.97 -0.5

LTJ 2.13 159 iPc 02 59.78 -1.8
DFR 2.15 229 iPc 03 01.30 -0.6

HIN 2.15 138 ePc 03 00.44 -1.5
THY 2.18 49 ePd 03 02.12 -0.1

MTU 2.22 157 ePc 03 01.11 -1.7
RDN 2.23 228 eP 03 02.42 -0.7

NCT 2.26 231 ePc 03 02.90 -0.5
eS 03 30.05

RSO 2.26 227 ePc 03 02.98 -0.6
RS2 2.26 227 ePc 03 03.05 -0.6

RS1 2.27 227 ePc 03 03.10 -0.6
RDW 2.27 228 ePc 03 03.00 -0.6

CVA 2.30 129 ePc 03 03.01 -0.4
BRK 2.39 198 eP 03 03.24 0.0

SGAM 2.54 125 eP 03 03.31 -0.2
NEA 2.56 3 ePc 03 03.31 -0.5

ILIM 2.62 223 ePc 03 03.31 -0.6
HDA 2.63 24 ePc 03 03.31 -0.6

INE 2.66 224 ePc 03 03.31 -0.6
INW 2.68 224 eP 03 03.31 -0.6

GLB 2.72 100 iPc 03 03.31 -0.6
CCB 2.72 15 ePc 03 03.31 -0.6

RAGM 2.82 124 eP 03 03.31 -0.6
DOT 2.93 54 ePd 03 03.31 -0.6

FBA 2.97 13 ePc 03 03.31 -0.6
MDM 2.99 10 ePc 03 03.31 -0.6

MID 3.01 149 P 03 03.31 -0.6
GLM 3.10 16 ePc 03 03.31 -0.6

eS 03 03.31 -0.6
SVW 3.12 255 ePc 03 03.31 -0.6

TTA 3.20 289 ePc 03 03.31 -0.6
TMW 3.22 63 eP 03 03.31 -0.6

PDB 3.25 228 eP 03 03.31 -0.6
CROM 3.27 110 eP 03 03.31 -0.6

AUL 3.32 219 eP 03 03.31 -0.6
AUE 3.32 218 eP 03 03.31 -0.6

AUP 3.33 218 eP 03 03.31 -0.6
AUH 3.34 218 eP 03 03.31 -0.6

AUI 3.36 218 eP 03 03.31 -0.6
TGL 3.41 109 ePc 03 03.31 -0.6

BALM 3.52 103 iPc 03 03.31 -0.6
SNH 3.68 117 eP 03 03.31 -0.6

SYI 3.74 205 eP 03 03.31 -0.6
MCNL 3.75 223 eP 03 03.31 -0.6

CDD 3.76 216 eP 03 03.31 -0.6
CTGM 4.01 102 ePc 03 03.31 -0.6

YAH 4.06 111 eP 03 03.31 -0.6
IMA 4.47 337 ePc 03 03.31 -0.6

KDC 4.57 201 eP 03 03.31 -0.6
PCA 4.84 110 eP 03 03.31 -0.6

FYU 4.90 20 ePd 03 03.31 -0.6
BCPM 5.19 109 ePc 03 03.31 -0.6

PNL 5.43 111 eP 03 03.31 -0.6
HON 5.77 112 eP 03 03.31 -0.6

SIT 8.70 119 eP 04 28.57 -5.3
SDN 8.85 226 e(P) 04 26.80 1.0

BRW 9.75 346 eP 04 43.04 -5.2
YKA 16.09 73 eP 06 07.00 -5.1

0.8s 6.10nm 3.8mb
ADK 17.87 248 (P) 06 32.45 -2.0

MCW 19.97 120 (P) 06 55.77 -3.1
eS 07 14.66

GMW 20.89 122 (P) 07 05.99 -2.3
eS 07 26.20

RMW 21.36 120 eP 07 11.45 -1.7
BMW 21.59 124 (P) 07 13.46 -2.0

e 07 33.51 95kmX
LON 21.93 122 eP 07 17.13 -1.7

eP 07 30.58 57kmX
eS 07 37.49
SHW 22.21 123 (P) 07 20.45 -1.3

DPW	22.54	115	eP	07 23.15	-1.7	KBA	70.36	12	iPd	13 34.60	-4.1	EASTERN NEW GUINEA REG., P.N.G. (207)					
			epP	07 36.70	57kmX		0.7s		7.00nm		4.8mb	YYYY	0.94	299	eP	36 22.20	0.4
			esP	07 42.35					ic	13 34.80	1kmX			eS	36 43.20		
RES	22.64	34	eP	07 23.50	-2.0	RJF	70.49	21	eP	13 34.30	-5.0			eP	36 33.20	-0.3	
	0.5s		2.00nm		3.8mb	LFF	70.70	22	eP	13 36.20	-4.4	MDG	1.76	325	eP	36 33.20	-0.3
NEW	22.71	112	eP	07 24.69	-1.8		0.6s		12.00nm		5.1mb	PMG	2.71	172	eP	36 47.00	0.1
	1.0s		48.39nm		4.9mb	CAF	70.95	21	eP	13 37.50	-4.6	MNDI	3.17	280	eP	37 02.00	8.3X
			epP	07 37.37	52kmX		0.6s		3.45nm		4.5mb	WB2	17.87	221	eP	40 12.10	-0.5
			esP	07 44.26		LPO	71.03	22	eP	13 38.10	-4.5		0.6s		5.80nm		3.9mb
SES	23.90	101	eP	07 36.00	-2.0		0.7s		7.30nm		4.8mb	ASPA	20.93	215	eP	40 47.70	0.4
FCC	26.81	72	ePd	08 04.90	-0.3	LPL	71.10	18	eP	13 39.50	-3.8		0.8s		8.40nm		4.2mb
LCCM	26.87	110	eP	08 03.50	-2.7		1.0s		8.20nm		4.7mb	S.D. = 0.8 on 5 of 6 obs.					
BW06	30.31	111	eP	08 33.00	-4.2	LPG	71.12	17	eP	13 39.80	-3.7						
	0.9s		9.89nm		4.6mb		0.9s		6.70nm		4.6mb	& FEB 12, 1993 13h 59m 01.85s					
BONR	30.76	127	eP	08 39.05	-2.2	SBF	72.82	17	eP	13 48.80	-4.5	38.364 N 119.316 W					
			epP	08 50.49	43kmX		0.7s		20.30nm		5.2mb	DEPTH = 11.7km					
			esP	09 00.03		GUN	80.04	312	P	14 30.80	-3.6	CALIFORNIA-NEVADA BORDER REGION (40)					
TNP	31.06	125	eP	08 41.00	-2.8	GKN	80.39	313	P	14 32.40	-3.6	<GM>P>. MD 3.0 (GM).					
	0.9s		9.77nm		4.6mb	PKI	80.52	313	P	14 32.80	-4.1						
			e	08 57.59	69kmX	156 obs. associated					MEMM	0.76	157	eP	59 15.99	-0.5	
ULM	31.12	87	eP	08 43.00	-0.9	* FEB 12, 1993 13h 08m 31.28± 0.37s					BONR	0.90	117	eP	59 18.68	-0.4	
DAU	31.50	116	(P)	08 45.50	-2.2	4.046 N ± 8.0km 126.640 E ± 13.5km					CMB	0.90	249	iPc	59 18.43	-0.6	
RSSD	31.74	103	ePc	08 46.94	-2.8	DEPTH = 33.0km (normal)							S	59 30.45			
	0.6s		26.82nm		5.3mb	4.8mb (10 obs.)					MRCM	0.94	137	eP	59 19.41	-0.4	
MSU	32.71	119	eP	08 55.71	-2.5	TALAUD ISLANDS, INDONESIA (263)							S	59 32.63			
			esP	09 13.00		TNE	3.30	168	eP	09 23.00	1.2	MTUM	1.17	149	eP	59 23.86	0.1
ARUT	32.81	121	eP	08 56.70	-2.3	WB2	25.02	163	eP	13 53.10	-0.8	KVN	1.17	54	eP	59 22.27	-1.5
			epP	09 06.84	36kmX		0.8s		14.70nm		4.6mb			S	59 38.34		
			esP	09 13.20		ASPA	28.44	166	eP	14 34.60	9.3X	TNP	1.68	99	eP	59 31.13	-0.2
SRU	32.90	116	eP	08 56.93	-2.8		1.0s		5.00nm		4.2mb	ARN	2.03	241	eP	59 37.92	1.7
GSC	33.67	127	eP	09 03.73	-2.6	XAN	34.09	333	P	15 14.00	-1.1	ORV	2.08	306	eP	59 36.95	0.0
PV09	34.00	115	eP	09 06.09	-3.4		0.6s		13.00nm		5.0mb	COE	2.17	240	ePn	59 41.18	2.9
			(pP)	09 16.48	37kmX				pP	15 21.40	25kmX			ePg	59 45.80		
			(sP)	09 23.48		TIY	35.94	341	eP	15 30.70	-0.1	NTYM	2.63	272	(P)	59 47.01	2.2
PV10	34.14	115	eP	09 07.52	-3.2	BJI	37.06	347	eP	15 40.50	0.4	PHAM	2.67	199	(P)	59 42.21	-3.2
			epP	09 18.72	41kmX	LZH	38.19	329	eP	15 50.00	0.2	ISA	2.78	166	(Pn)	59 47.75	0.7
			esP	09 28.86			1.4s		29.00nm		4.9mb			ePg	59 52.19		
PV08	34.14	114	(P)	09 07.68	-3.1	STK	38.46	159	eP	15 51.90	0.0	TPNV	2.81	119	(Pn)	59 48.07	0.4
DAG	38.05	16	eP	09 39.00	-3.9	HHC	39.07	342	eP	15 57.60	0.5	GSC	3.66	146	(Pn)	59 56.44	-3.2
	1.0s		12.00nm		4.7mb	BRS	40.16	143	eP	16 05.00	-1.2	MSU	5.61	86	(Pn)	00 26.46	-0.9
TUC	38.64	122	eP	09 46.89	-1.6	ARMA	41.78	147	eP	16 20.00	0.5	16 obs. associated					
	1.0s		5.45nm		4.3mb		0.6s		3.40nm		4.3mb	* FEB 12, 1993 14h 05m 14.25± 2.57s					
			e	10 07.94	89kmX	LSA	42.16	311	P	16 24.60	1.4	37.584 N ± 22.2km 21.346 E ± 9.7km					
ACO	39.91	106	iPc	09 55.40	-3.5		0.8s		4.00nm		4.2mb	DEPTH = 10.0km (geophysicist)					
WMOK	41.70	107	eP	10 10.60	-3.0	GUN	45.47	306	P	16 49.00	-0.8	3.7mb (1 obs.)					
	1.0s		18.42nm		4.8mb	KKN	45.91	305	P	16 53.00	-0.1	SOUTHERN GREECE (368)					
			epP	10 24.38	52kmX	DMN	45.98	305	P	16 53.60	-0.1	MD 3.6 (ATH).					
			esP	10 31.37		GKN	46.51	305	P	16 57.60	-0.2	VLS	0.84	315	eP	05 29.00	-1.5
FVM	42.90	96	eP	10 19.00	-4.4	GBA	49.45	284	P	17 20.00	-0.6	AGG	1.63	28	eP	05 41.96	-1.2
	0.5s		14.00nm		4.9mb	WMQ	52.41	325	eP	17 42.80	-0.1			eS	06 06.64		
			epP	10 31.20	44kmX	KSH	57.73	315	P	18 28.00	6.4X	ATH	1.92	78	eP	05 47.50	0.3
UYO	44.14	103	iPd	10 29.70	-3.8		0.2s		20.00nm		5.8mb X	IGT	2.10	338	eP	05 50.64	0.7
LMN	48.56	68	eP	11 07.00	-1.2	YAK	57.88	2	eP	18 22.00	0.0			eS	06 18.52		
JSC	50.22	91	eP	11 15.90	-5.2		1.0s		30.00nm		5.3mb	KEK	2.45	331	eP	06 00.40	5.6X
NB2	56.36	11	P	11 59.70	-6.6	OBN	86.73	325	ePc	21 14.00	0.9	LIT	2.67	19	eP	05 59.12	1.1
	0.9s		2.50nm		4.2mb		1.3s		26.00nm		5.3mb			eS	06 32.33		
LZH	65.98	302	eP	13 00.00	-11.6	KAF	91.28	332	eP	21 34.80	0.3	KZN	2.74	7	eP	06 01.30	2.2
GRR	67.09	22	eP	13 13.50	-4.8		0.5s		3.60nm		5.0mb	PAIG	2.97	37	eP	06 01.64	-0.6
LPF	67.40	22	eP	13 15.70	-4.5	S.D. = 0.7 on 20 of 22 obs.					FNA	3.20	0	eP	06 05.66	0.1	
	0.7s		7.40nm		4.9mb	? FEB 12, 1993 13h 29m 09.98± 1.07s					OUR	3.43	36	eP	06 08.82	0.0	
CDF	68.33	16	eP	13 21.30	-4.9	25.212 S ± 15.6km 28.587 E ± 32.0km					OHR	3.55	353	ePn	06 10.80	0.3	
KHC	68.35	12	eP	13 22.00	-4.3	DEPTH = 5.0km (geophysicist)					SOH	3.59	25	eP	06 10.36	-0.8	
			e	13 47.00	98kmX	REPUBLIC OF SOUTH AFRICA (584)					KNT	3.77	18	eP	06 12.10	-1.6	
HAU	68.61	17	eP	13 23.00	-4.8	mbLg 3.4 (BUL).					VAY	3.85	14	iPn	06 08.00	-6.8X	
GEC2	68.65	12	P	13 23.40	-4.8	SLR	0.59	208	iPd	29 21.80	0.0			i	06 15.00		
	0.8s		1.36nm		4.0mb				S	29 33.40		SRS	3.93	26	eP	06 15.84	-0.1
			e	13 25.30	6kmX	CIR	5.00	34	iPb	30 28.00	0.4	SKO	4.38	1	ePn	06 30.00	7.7X
BSF	68.84	17	eP	13 24.40	-4.9				iSn	31 21.00				iSn	07 17.50		
MFF	68.94	22	eP	13 25.20	-4.6	BUL	5.04	0	iPn	30 28.60	0.3	NB2	24.33	348	P	10 33.80	0.9
	0.9s		8.70nm		4.7mb				iSg	31 51.00			0.7s		1.50nm		3.7mb
LOR	68.96	19	eP	13 25.10	-4.9				iSg	32 05.00		S.D. = 1.1 on 14 of 17 obs.					
	0.9s		9.65nm		4.8mb	MTD	8.84	19	iPnc	31 20.80	-0.7	? FEB 12, 1993 14h 10m 54.67± 0.63s					
SSF	69.10	19	eP	13 26.20	-4.6				iSn	33 05.00		57.720 S ± 14.6km 29.263 W ± 18.4km					
	0.9s		12.60nm		4.9mb				iSg	33 57.00		DEPTH = 33.0km (normal)					
LBF	69.25	19	eP	13 26.80	-5.0	S.D. = 0.9 on 4 of 4 obs.					5.1mb (6 obs.) 5.2Msz (1 obs.)						
	0.8s		6.05nm		4.6mb	? FEB 12, 1993 13h 36m 04.76± 2.37s					SOUTH SANDWICH ISLANDS REGION (153)						
AVF	69.34	20	eP	13 27.40	-4.9						SPA	32.46	180	iPd	17 24.10	0.4	
	0.8s		5.90nm		4.6mb								1.2s		38.73nm		5.2mb
BGF	69.49	20	eP	13 28.40	-4.8						PPD	39.09	326	(P)	18 13.00	-7.2X	
SMF	69.56	19	eP	13 28.80	-4.8								i	18 21.00			
	0.7s		5.30nm		4.6mb						BAO	44.30	334	iPc	19 04.30	1.2	
LSF	69.57	21	eP	13 28.80	-4.9								e	19 10.70			
	0.8s		13.70nm		5.0mb						WIN	48.37	64	e(P)	19 28.00	-7.3X	
TCF	69.65	21	eP	13 29.30	-												

12d 14h

ZOBO 50.47 309 P 19 51.00 -0.9
SLR 51.38 77 iPd 19 57.70 -0.5
0.8s 14.93nm 5.0mb
Z 20s 2.13um 5.2msz
BUL 56.15 73 iPc 20 26.50 -6.9X
1.0s 12.50nm 4.9mb
LIC 66.70 26 P 21 44.18 -0.1
KIC 66.90 27 P 21 45.42 -0.1
1.0s 24.00nm 5.2mb
TIC 67.10 26 P 21 46.72 -0.1
0.9s 21.00nm 5.2mb
BCAO 72.86 51 iPc 22 22.90 0.9
0.7s 9.00nm 4.9mb
SES 126.82 308 ePKP 29 55.00 -0.4
YKA 136.65 318 ePKP 30 06.00 -7.6X
1.1s 4.40nm
WMO 139.31 82 PKP 30 19.00 -0.3
XAN 143.35 112 ePKP 30 24.00 -2.7
NJ2 146.36 126 PKPd 30 33.40 1.7
SSE 146.52 130 PKP 30 33.00 1.0
TIY 147.99 112 ePKP 30 37.00 2.7X
BTO 148.95 106 ePKP 30 40.00 4.2X
TIA 149.06 119 ePKP 30 40.00 4.1X
HHC 149.93 107 PKP 30 32.00 -5.2X
PMR 150.33 303 ePKP 30 42.70 5.7X
1.0s 45.30nm
KDC 150.45 295 e(PKP) 30 40.60 3.3X
FBA 150.75 310 ePKP 30 43.30 5.7X
BJI 151.64 114 ePKP 30 46.00 6.4X
IMA 153.40 311 ePKP 30 49.70 8.2X
0.9s 10.40nm
TTA 153.79 304 ePKP 30 51.60 9.5X
BRW 154.70 323 e(PKP) 30 39.80 -3.1X
S.D. = 1.2 on 13 of 28 obs.

FEB 12, 1993 14h 13m 11.21 ± 0.24s
4.028 N ± 4.7km 126.665 E ± 7.8km
DEPTH = 39.2km (4 depth phases)
5.0mb (40 obs.) 4.4msz (11 obs.)
TALAUD ISLANDS, INDONESIA (263)

DAV 3.23 340 eP 14 05.00 4.3X
1.5s 888.89nm
TNE 3.28 168 eP 14 02.00 0.6
eS 14 45.10
SWI 6.68 137 iPd 14 48.00 -1.5
iS 16 02.50
KKM 10.60 281 ePd 15 50.00 6.2X
1.4s 131.50nm 5.9mb
BAG 13.68 335 ePd 16 32.50 7.3X
KHKI 16.53 222 ePc 17 05.60 3.7X
e 19 54.20
MTN 17.34 165 eP 17 08.00 -4.1X
PJG 20.32 61 eP 17 50.70 3.8X
OIZ 22.19 314 eP 18 06.70 0.9
GZH 22.91 327 Pd 18 13.00 0.2
PMG 24.40 123 e(P) 18 21.00 -6.3X
WRA 24.99 163 P 18 32.50 -0.5
WB2 24.99 163 eP 18 31.00 -2.0
1.0s 53.20nm 5.1mb
i 18 34.50 12kmX
eS 22 42.80
IPM 25.57 272 ePd 18 41.00 2.5
1.0s 34.60nm 4.9mb
SSE 27.41 350 Pc 18 56.50 1.3
1.6s 33.00nm 4.7mb
Z 20s 0.50um 4.1msz
LOE 27.82 300 eP 18 59.00 -0.1
eP 23 50.00
ASPA 28.42 166 eP 19 03.00 -1.4
0.5s 7.60nm 4.6mb
eP 19 12.10 32km
eS 23 50.00
WHN 28.82 338 eP 19 07.50 -0.5
Z 20s 1.24um 4.5msz
pP 19 19.00 44km
NJ2 28.83 346 Pc 19 08.00 0.0
GYA 29.40 321 P 19 12.80 -0.6
Z 20s 0.63um 4.2msz
PcP 22 19.40
KHT 29.64 293 eP 19 16.50 0.9
WARB 30.03 180 eP 19 18.50 -0.4
CTA 30.74 142 iPc 19 26.50 1.3
CHTO 30.81 301 iPc 19 15.20 -10.7X
1.0s 31.25nm
KMI 31.12 315 eP 19 29.50 0.7
1.4s 40.00nm 5.0mb
Z 22s 1.20um 4.5msz

MEEK 31.46 194 eP 19 30.20 -1.3
XAN 34.12 333 Pc 19 53.00 -1.6
0.8s 46.00nm 5.5mb
Z 20s 0.91um 4.5msz
sP 20 14.50
CD2 34.37 324 Pd 19 56.00 -0.8
1.0s 29.00nm 5.2mb
MRWA 34.61 197 iPd 19 58.20 -0.6
0.4s 3.00nm 4.6mb
DL2 35.02 353 eP 20 03.00 0.9
1.0s 120.00nm 5.8mb
TIY 35.97 341 Pd 20 10.00 -0.3
KLB 36.42 193 eP 20 13.50 -0.6
0.6s 8.00nm 4.8mb
BJI 37.08 347 eP 20 20.00 0.5
0.9s 21.00nm 5.0mb
Z 20s 0.30um 4.1msz
MUN 37.16 195 eP 20 20.00 -0.3
SNY 37.74 356 Pc 20 25.80 0.8
0.8s 48.00nm 5.4mb
LZH 38.21 329 eP 20 29.50 0.2
1.5s 130.00nm 5.6mb
Z 10s 0.80um 4.8mszX
pP 20 42.50 49km
sP 20 47.50
PcP 22 45.00
STK 38.43 159 eP 20 31.10 0.1
0.6s 14.70nm 5.0mb
HHC 39.10 342 P 20 37.00 0.4
1.2s 45.00nm 5.1mb
Z 28s 0.52um 4.2mszX
BTO 39.38 340 eP 20 38.00 -0.9
CN2 39.62 359 eP 20 41.00 0.2
0.8s 7.70nm 4.5mb
CMS 39.76 154 eP 20 42.50 0.4
0.8s 3.00nm 4.1mb
BRS 40.13 143 iPc 20 43.00 -2.3
i 20 46.00 10kmX
ADE 40.41 165 eP 20 49.00 1.6
MDJ 40.50 3 eP 20 49.50 1.5
1.2s 50.00nm 5.1mb
ARMA 41.75 147 iPc 20 59.30 0.7
0.6s 16.00nm 4.9mb
LSA 42.19 311 Pc 21 03.80 1.1
0.7s 17.00nm 4.9mb
GTA 42.81 329 P 21 07.00 -0.2
1.2s 21.00nm 4.7mb
Z 20s 0.87um 4.6msz
E 15s 0.41um
BWA 43.39 154 eP 21 14.30 2.4
BFD 43.58 162 eP 21 14.30 1.0
1.1s 39.00nm 5.1mb
ePcP 23 28.60
CAN 44.40 154 eP 21 21.60 1.6
TOO 44.94 159 eP 21 25.90 1.6
0.9s 23.00nm 5.0mb
GUN 45.50 306 P 21 28.30 -1.0
PKI 45.74 305 P 21 30.60 -0.6
KKN 45.94 305 P 21 31.60 -1.0
DMN 46.01 305 P 21 32.20 -1.0
GKN 46.54 305 P 21 36.40 -0.9
HYB 48.95 290 ePd 21 55.50 -0.6
GBA 49.48 284 Pd 21 59.00 -1.1
IRK 51.54 343 ePc 22 13.00 -2.3
5.0s 0.21nm 2.4mb X
Z 20s 0.19um 4.1msz
e 22 34.70 88kmX
e 23 23.00
LR 43 43.00
WMO 52.44 325 P 22 22.00 -0.4
1.5s 14.00nm 4.7mb
Z 20s 0.80um 4.8msz
KSH 57.76 315 eP 23 00.00 -1.0
YAK 57.90 2 iPc 23 01.10 -0.3
1.1s 155.00nm 6.0mb
eP 23 31.00 125kmX
iPcP 23 53.00
e(S) 31 07.00
eScS 32 35.00
MAIO 69.28 307 iPc 24 16.20 -0.7
1.0s 10.00nm 4.8mb
HON 74.89 69 P 25 00.00 9.7X
Z 21s 0.37um 4.6msz
TTA 80.67 27 eP 25 22.86 1.4
0.9s 9.04nm 4.7mb
IMA 82.14 24 eP 25 30.39 1.2
0.7s 11.80nm 5.0mb

SLKM 83.12 30 eP 25 34.05 -0.2
PMR 83.72 29 eP 25 37.53 0.4
0.9s 40.21nm 5.5mb
FBA 84.48 25 eP 25 38.97 -2.0
0.7s 4.25nm 4.7mb
KLU 85.25 29 (P) 25 42.54 -2.5
OBN 86.76 325 iPc 25 51.60 -0.9
1.4s 130.00nm 6.0mb
e 26 02.00 33km
e 26 34.00
BALM 86.99 29 (P) 25 53.08 -0.5
KAF 91.30 332 iP 26 13.70 -0.1
0.6s 16.00nm 5.6mb
NUR 92.41 331 eP 26 18.30 -0.6
0.8s 20.10nm 5.6mb
VRI 94.04 316 eP 26 29.00 2.3
ISR 94.29 316 eP 26 32.00 4.0X
MLR 94.64 316 ePd 26 32.50 2.8
DAG 96.97 352 eP 26 39.20 -0.3
0.9s 8.40nm 5.3mb
HFS 97.73 332 ePKP 26 42.20 -1.0
0.4s 1.30nm 4.0mb
NB2 98.49 334 PKP 26 46.50 -0.2
0.6s 1.70nm 4.0mb
YKA 99.26 24 eP 26 50.00 0.5X
0.9s 0.80nm 4.2mb
KSP 99.57 323 iP 26 52.00 1.0
PRU 100.91 322 ePd 26 50.00 0.8
BRG 100.96 323 iPd 26 50.00 1.0
0.8s 20.00nm 5.0mb
CLL 101.36 324 ePd 26 50.00 -0.7
KHC 101.79 322 ePd 26 50.00 0.7
GEC2 101.81 322 Pd 26 50.00 0.5
0.9s 2.47nm 4.0mb
MOX 102.42 324 ePd 26 50.00 0.9
GRF 103.02 323 ePd 26 50.00 0.5
RSSD 113.99 38 PKP 31 00.00 0.6X
Z 20s 0.10um 4.0mb
MDZ 147.83 155 ePKP 31 00.00 0.8X
TCA 150.84 160 ePKP 31 00.00 0.8X
ZOBO 161.03 131 PKP 31 00.00 0.8X
LR 31 00.00 0.8X
S.D. = 1.2 on 10 of 14 obs.

FEB 12, 1993 15h 39m 26.51 ± 0.71s
36.748 N ± 7.2km 2.479 E ± 4.7km
DEPTH = 10.0km (geophysicist)
3.7mb (2 obs.)
NORTHERN ALGERIA (396)
mbLg 3.3 (MDD). Felt in the
Tipasa area.

SSE 16.76 264 Pd 30 10.20 2.1X
0.8s 17.00nm
TIA 19.30 282 eP 36 21.00 -6.4X
BJI 20.26 293 eP 36 26.00 -11.5X
TIY 23.03 286 eP 37 02.40 -3.1
XAN 26.22 278 P 37 35.50 -0.5
LZH 30.01 284 eP 38 09.50 -0.9
1.0s 16.00nm 4.8mb
GUN 46.88 278 P 40 33.20 1.5
0.6s 23.00nm 5.3mb X
PKI 47.39 277 P 40 36.80 1.0
KKN 47.41 278 P 40 37.00 1.2
0.6s 32.00nm 5.5mb X
DMN 47.62 278 P 40 38.60 1.1
GKN 47.86 278 P 40 40.00 0.8
0.6s 15.00nm 5.2mb X
ASPA 58.23 187 eP 41 54.90 -0.8
1.6s 6.20nm 4.4mb
GBA 60.47 266 Pd 42 21.00 9.6X
KAF 70.28 333 eP 43 13.80 -0.1
0.3s 1.60nm 4.6mb
S.D. = 1.6 on 10 of 14 obs.

ESEL 3.03 6 ePn 40 15.20 -0.2
eSn 40 50.70
ENIJ 3.76 275 ePn 40 26.10 0.2
eSn 41 08.70
ECHE 3.93 317 ePn 40 29.00 0.8
eSn 41 13.70

EHUE	4.18	286	ePn	40 33.10	1.2
			eSn	41 20.60	
EBR	4.35	340	eP	40 39.00	4.9X
EROO	4.38	339	ePn	40 34.20	-0.3
			eSn	41 23.20	
EVIA	4.38	297	ePn	40 34.30	-0.4
			eSn	41 25.30	
EGUA	4.85	273	ePn	40 41.70	0.4
			eSn	41 36.00	
ECOG	4.87	278	ePn	40 42.20	0.6
			eSn	41 39.00	
EBAN	5.18	288	ePn	40 45.90	-0.1
			eSn	41 44.30	
ETOR	5.39	320	ePn	40 48.90	-0.1
			eSn	41 48.80	
ETER	5.55	3	ePn	40 51.00	-0.2
PAB	6.06	299	ePg	40 58.00	-0.4
			e(Sn)	42 05.00	
			eSg	42 22.00	
GUD	6.48	309	ePn	41 04.30	-0.1
			eSn	42 15.50	
EPF	6.49	346	Pn	41 04.00	-0.4
CAF	8.18	358	Pn	41 28.50	0.5
RJF	8.58	355	Pn	41 32.60	-1.0
LPG	9.31	19	Pn	41 44.70	0.7
ERUA	9.32	310	ePn	41 43.10	-0.8
LPL	9.33	19	Pn	41 44.80	0.7
MAF	9.47	0	Pn	41 45.40	-0.4
TCF	9.53	359	Pn	41 46.00	-0.8
GEC2	14.61	31	Pn	42 57.80	2.7
	0.7s		0.70nm		3.4mb
			e	43 08.10	
GKN	67.97	71	P	50 27.20	-0.9
KKN	68.56	71	P	50 31.20	-0.7
PKI	68.78	71	P	50 33.20	-0.2
GUN	68.96	70	P	50 39.60	5.1X
YKA	69.03	334	eP	50 33.40	-0.6
	0.9s		0.90nm		4.0mb

S.D. = 0.8 on 26 of 28 obs.

% FEB 12, 1993 15h 40m 12.04 ± 1.21s
 33.148 S ± 4.9km 70.285 W ± 9.7km
 DEPTH = 10.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.5 (SAN).

FCH	0.18	181	iPd	40 16.17	-0.1
			iS	40 18.93	
PEL	0.34	271	iPd	40 19.18	0.2
PCH	0.51	202	iP+	40 22.44	0.1
			iS	40 30.36	
JACH	0.53	331	iP	40 22.83	0.0
			iS	40 31.86	
ROCH	0.63	286	iP	40 24.82	-0.1
			iS	40 34.56	
TACH	0.74	227	iP	40 26.52	-0.1
			iS	40 37.17	
CHCH	0.84	201	iP	40 28.28	0.0
			iS	40 40.03	
CACH	1.00	195	iP	40 31.40	0.3
			iS	40 45.35	
LCCH	1.12	253	iP	40 33.26	0.2
			iS	40 48.96	
LNV	1.24	229	iP+	40 34.72	-0.3
			iS	40 51.58	

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

& FEB 12, 1993 16h 09m 43.65s
 37.544 N 118.803 W
 DEPTH = 4.4km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 3.1 (GM).

MEMM	0.16	319	iPd	09 47.37	0.4
MMPM	0.19	290	iPd	09 47.68	0.1
MRCM	0.27	61	ePc	09 49.16	0.1
MTUM	0.27	135	iPd	09 49.10	0.0
BONR	0.57	44	iPc	09 54.82	-0.3
CMB	1.35	292	ePd	10 08.28	-0.8
			S	10 25.17	
TNP	1.37	66	eP	10 09.36	-0.2
			S	10 27.36	
KVN	1.60	20	eP	10 13.72	0.8
PKEM	1.81	216	eP	10 16.37	0.5
ISA	1.90	172	ePn	10 17.08	0.0
			eLg	10 43.09	
TPNV	2.12	105	ePn	10 20.46	0.0

PHAM	2.13	217	eP	10 19.73	-0.8
ARN	2.18	266	ePn	10 22.18	1.0
			eSg	10 51.23	
COE	2.30	264	eP	10 24.80	1.8
GSC	2.76	144	(P)	10 28.94	-0.6
ARUT	4.26	85	(Pn)	10 54.93	4.0
PLM	4.47	159	(P)	10 54.00	0.1

17 obs. associated

* FEB 12, 1993 16h 16m 35.76 ± 0.78s
 40.334 N ± 14.4km 77.912 E ± 11.8km
 DEPTH = 21.6km (2 depth phases)
 3.8mb (5 obs.)
 KYRGYZSTAN-XINJIANG BORDER REG. (320)
 ML 4.3 (BJI).

KSH	1.73	240	Pgc	17 12.20	7.2X
			Sg	17 37.00	
WMO	8.07	61	eP	18 35.00	0.4
			S	20 01.00	
QUE	13.50	225	eP	19 49.40	0.7
HYB	22.84	178	eP	21 42.50	3.9X
XAN	25.41	94	P	22 03.50	0.2
	0.8s		5.50nm		4.3mb
			pP	22 09.10	20km
HHC	25.47	78	eP	22 02.20	-1.7
KMI	25.70	119	eP	22 07.00	0.7
GBA	26.63	181	P	22 14.00	-0.6
TIY	26.85	84	eP	22 20.00	3.4X
NB2	44.73	321	P	24 51.10	2.2
	0.5s		0.40nm		3.6mb
GEC2	45.27	303	P	24 50.50	-2.9
	0.6s		0.23nm		3.3mb
			e	24 57.50	23km
			e	25 03.10	
YKA	77.03	6	eP	28 29.10	0.9
	0.7s		0.40nm		3.6mb
ASPA	82.26	130	eP	28 57.10	0.2
	0.7s		4.30nm		4.6mb

S.D. = 1.6 on 10 of 13 obs.

% FEB 12, 1993 18h 22m 02.75 ± 0.64s
 40.098 S ± 5.5km 176.797 E ± 6.9km
 DEPTH = 77.3 ± 11.6 km
 NORTH ISLAND, NEW ZEALAND (159)

TEHZ	0.11	6	Pd	22 13.10	-0.7
WAHZ	0.52	319	P	22 14.40	-2.3
TTH	0.56	2	Pc	22 16.30	-0.6
MOH	1.00	16	Pc	22 22.30	0.4
MNG	1.13	242	P	22 24.50	0.9
			S	22 38.50	
WHH	1.23	349	P	22 24.60	-0.3
MAHZ	1.24	43	P	22 26.40	1.5
PAHZ	1.25	9	P	22 25.20	0.1
DRZ	1.26	310	P	22 25.60	0.1
NGZ	1.30	314	P	22 25.80	-0.1
CNZ	1.32	313	P	22 25.90	-0.2
MTW	1.45	222	P	22 28.80	1.1
BSZ	1.46	281	P	22 29.10	1.2
BLW	1.62	218	P	22 31.10	1.1
CAW	1.66	232	P	22 31.30	0.8
NOZ	1.76	33	P	22 32.50	0.6
MOW	1.77	221	P	22 32.60	0.6
URZ	1.85	8	P	22 32.60	-0.5
			eS	22 53.30	
WEL	1.95	232	eP	22 35.10	0.7
MRW	1.95	234	P	22 34.90	0.4
			S	22 58.50	
DIW	2.30	251	P	22 39.50	0.2
PUZ	2.32	30	P	22 39.10	-0.4
			S	23 06.70	
NRZ	2.34	288	eP	22 41.30	1.6
HBZ	2.76	26	P	22 45.50	-0.1
QRZ	3.34	256	P	22 53.20	-0.4
KHZ	3.38	226	eP	22 53.10	-1.0
			S	23 31.50	
THZ	3.39	239	P	22 53.70	-0.7
			eS	23 31.90	
LTZ	4.33	230	eP	23 05.90	-1.8
MOZ	4.75	219	eP	23 12.40	-1.0
			S	24 02.00	
ODZ	6.71	221	eP	23 39.30	-1.3
			eS	24 49.80	
BWZ	6.77	227	eP	23 39.10	-2.4X

S.D. = 1.0 on 30 of 31 obs.

FEB 12, 1993 18h 26m 10.21 ± 0.57s
 37.629 N ± 5.4km 137.466 E ± 4.3km
 DEPTH = 38.9 ± 6.7 km
 4.8mb (18 obs.) 4.7msz (1 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ	1.08	165	iP+	26 28.60	-0.5
			S	26 44.90	
MAT	1.24	151	iPc	26 30.90	-0.4
			iS	26 47.90	
NIJ	1.28	107	iP+	26 31.40	-0.5
			S	26 49.00	
CHJJ	2.00	142	P	26 42.70	0.5
			S	27 10.00	
YAMJ	2.11	74	P	26 43.10	-0.6
			S	27 15.60	
IIDJ	2.17	170	P	26 44.80	0.1
TSRJ	2.40	210	P	26 47.40	-0.6
KAKJ	2.59	122	P	26 51.50	0.8
OFUJ	3.61	65	iP+	27 05.20	0.1
AOMJ	3.70	37	P	27 06.00	-0.3
			S	27 49.70	
WKYJ	3.73	205	P	27 06.20	-0.6
			S	28 00.30	
YONJ	4.04	234	P	27 10.30	-1.0
TKSJ	4.58	218	P	27 19.80	1.0
SHNJ	6.23	238	P	27 42.80	0.7
KUMJ	7.44	229	eP	28 00.80	1.7
KAGJ	8.41	222	eP	28 15.80	3.2X
CN2	11.00	308	eP	28 47.80	-0.3
	1.1s		8.00nm		4.8mb
Z	12s		0.54um		3.8mszX
BJI	16.76	285	eP	30 04.00	0.4
TIY	19.80	278	Pc	30 41.30	1.0
	20s		0.87um		
Z	10s		0.30um		
HHC	20.30	287	eP	30 44.70	-0.8
XAN	23.38	270	eP	31 18.00	1.8
LZH	26.87	277	eP	31 51.20	1.9
	1.5s		48.00nm		4.9mb
Z	14s		0.30um		4.0mszX
			pP	32 00.00	31kmX
IMA	47.79	31	eP	34 45.45	0.1
	0.8s		3.44nm		4.4mb
			e	34 49.79	
FBA	50.28	32	eP	35 04.10	-0.3
BALM	53.35	37	eP	35 27.29	-0.4
WB2	57.34	183	iPd	35 55.40	-1.3
	0.5s		25.00nm		5.5mb
WRA	57.34	183	P	35 55.80	-0.9
	0.6s		8.70nm		5.0mb
GBA	58.15	263	P	36 01.00	-1.6
ASPA	61.06	184	iPc	36 21.50	-0.9
	0.5s		11.80nm		5.3mb
KAF	66.31	331	eP	36 54.80	-1.6
	0.5s		2.30nm		4.5mb
NUR	67.91	331	eP	37 05.00	-1.6
NB2	72.39	336	P	37 32.80	-1.1
	0.9s		4.00nm		4.4mb
TNP	78.00	51	eP	38 07.50	1.1
	0.5s		4.00nm		4.7mb
CLL	78.97	328	iP	38 10.90	-0.3
BW06	79.44	44	eP	38 14.60	0.3
	0.8s		3.10nm		4.3mb
MSU	80.78	48	eP	38 23.61	2.2
VBY	82.26	323	eP	38 29.10	0.3
PV10	82.70	47	iPd	38 33.75	2.2
			e	38 37.34	
CDF	83.57	329	eP	38 35.00	-0.6
LOR	85.86	330	eP	38 46.60	-0.4
	0.7s		2.10nm		4.5mb
Z	19s		0.32um		4.7msz
LBF	86.04	330	eP	38 47.50	-0.4
	0.7s		1.55nm		4.3mb
SSF	86.16	330	eP	38 48.30	-0.2
	1.0s		6.60nm		4.8mb
SMF	86.37	330	eP	38 50.20	0.7
AVF	86.45	330	eP	38 49.80	0.0
	0.7s		4.30nm		4.8mb
ALQ	86.57	48	ePd	38 53.18	2.3

12d 18h

LFF 89.00 331 eP 39 00.40 -1.8
 ZOBO 149.00 54 PKP 45 57.00 4.4X
 CNCB 149.48 54 ePKP 45 54.00 0.8
 S.D. = 1.1 on 49 of 51 obs.

FEB 12, 1993 18h 26m 51.87±0.30s
 11.301 N ± 6.3km 86.735 W ± 5.7km
 DEPTH = 21.2km (7 depth phases)
 4.8mb (21 obs.) 4.5Msz (14 obs.)
 NEAR COAST OF NICARAGUA (74)
 MD 5.0 (UPA). Felt in northern
 Costa Rica.

BRU 4.80 121 iPc 28 06.49 1.3
 DVD 5.09 124 iPd 28 09.91 1.0
 eS 29 10.67
 TPX 6.47 304 (P) 27 30.50 -57.8X
 ECO 7.19 105 iP 28 39.97 1.5
 UPA 7.45 107 iPc 28 44.81 2.7
 eS 30 08.91
 LR 31 29.03
 PPM 13.83 305 iPc 30 11.70 2.1
 III 14.17 301 iP 30 15.80 2.0
 SDV 16.03 97 iPd 30 39.50 1.5
 TOV 16.73 94 eP 30 47.70 1.0
 CAR 19.47 90 eP 31 16.00 -4.6X
 e(S) 35 14.00

GUAN 20.77 92 iP 31 32.10 -2.2
 JSC 23.41 11 ePc 32 02.40 2.1
 LHS 23.70 12 ePc 32 04.70 1.6
 UYO 23.83 344 iPc 32 04.50 0.1
 MIAR 23.96 346 eP 32 06.05 0.4
 0.8s 43.15nm 5.0mb
 Z 22s 0.55um 4.0Msz

GBTN 24.36 5 ePc 32 10.97 1.4
 OLY 24.47 351 ePc 32 10.20 -0.4
 e 32 16.61 23km
 ePcP 35 49.35

GRT 24.97 355 eP 32 15.05 -0.4
 CEH 25.44 15 eP 32 20.47 0.6
 1.1s 73.71nm 5.2mb
 FNO 25.74 340 iPc 32 21.70 -1.0
 MEO 25.75 337 iPd 32 21.60 -1.2
 WMOK 25.78 337 eP 32 22.18 -0.9
 1.1s 203.07nm 5.7mb

ELC 25.97 355 eP 32 24.28 -0.5
 OCO 26.01 340 iPd 32 25.70 0.5
 RRO 26.26 338 iPd 32 28.40 0.9
 BLA 26.42 11 eP 32 29.44 0.5
 1.1s 58.88nm 5.1mb

NAV 26.45 11 ePd 32 30.05 0.8
 FVM 26.77 354 eP 32 30.64 -1.5
 0.7s 11.49nm 4.6mb
 CVL 27.58 14 ePd 32 39.90 0.4
 ACO 27.65 338 iPc 32 39.00 -1.3
 ALQ 29.59 326 eP 32 57.77 -0.2
 0.8s 16.68nm 4.9mb
 Z 20s 0.43um 4.1Msz

e 33 03.61 20km
 ePcP 36 02.47
 TUC 30.45 317 (P) 33 06.43 0.9
 0.9s 12.25nm 4.7mb
 Z 19s 0.97um 4.5Msz

ARE 31.44 151 eP 33 16.00 1.5
 GLO 32.74 333 P 33 40.00 14.5X
 Z 20s 1.11um 4.6Msz
 GOL 32.76 333 eP 33 25.23 -0.6
 0.8s 14.36nm 5.0mb
 Z 22s 0.60um 4.2Msz

ZOBO 33.02 146 P 33 28.00 -0.7
 i 36 13.70
 LPB 33.24 146 (P) 33 38.00 7.7X
 LR 44 20.00
 PV08 33.47 328 eP 33 31.47 -0.7
 e 33 37.43 20km

CNCB 33.53 146 P 33 33.00 0.0
 i 36 13.50
 PV10 33.53 327 ePc 33 31.39 -1.1
 e 33 36.84 19km
 GLA 33.65 314 (P) 33 34.50 1.1
 ePcP 36 14.85

PV09 33.67 327 ePc 33 33.03 -0.8
 HRV 33.79 20 P 33 50.00 15.6X
 Z 20s 0.90um 4.5Msz
 RSNY 34.75 15 eP 33 41.56 -1.2
 1.0s 56.46nm 5.4mb
 Z 19s 1.22um 4.7Msz

SRU 34.85 327 ePc 33 43.24 -0.7
 e 33 48.75 19km
 ePcP 36 16.57
 PLM 35.25 313 eP 33 48.52 1.1
 ePcP 36 18.50

MSU 35.35 324 ePc 33 47.93 -0.3
 ARUT 35.61 322 eP 33 50.71 0.4
 e 33 56.99 21km

PEC 35.75 314 eP 33 52.95 1.6
 1.0s 27.12nm 5.1mb
 ePcP 36 18.81
 EEO 35.82 9 eP 33 53.50 1.7
 RSSD 35.95 339 eP 33 52.59 -0.6
 0.8s 9.01nm 4.7mb
 Z 20s 0.31um 4.1Msz

DAU 36.18 328 ePc 33 55.28 0.0
 GSC 36.26 316 eP 33 56.75 1.0
 ePcP 36 21.35
 TPNV 36.84 319 eP 34 02.16 1.5
 0.8s 12.10nm 4.8mb
 ePcP 36 23.65

DUG 36.87 326 eP 34 00.16 -0.7
 1.0s 13.53nm 4.7mb
 ePcP 36 22.62
 BW06 37.12 332 eP 34 01.03 -2.0
 0.8s 12.35nm 4.8mb
 e 34 08.96 27km

ISA 37.60 315 eP 34 08.30 1.3
 0.8s 4.09nm 4.3mb
 Z 22s 1.06um 4.6Msz
 HVU 37.96 328 eP 34 10.69 0.6
 ePcP 36 25.25
 TNP 38.13 320 eP 34 12.63 1.1
 0.9s 7.39nm 4.5mb

BCH 38.48 314 eP 34 14.81 0.4
 ePcP 36 29.46
 CBM 38.85 20 P 34 30.00 12.8X
 Z 19s 1.27um 4.8Msz
 MEMM 39.00 318 (P) 34 18.25 -0.4
 PHAM 39.03 314 (P) 34 21.18 2.3

LMN 39.18 24 ePc 34 22.80 2.8X
 KVN 39.26 320 (P) 34 20.99 0.0
 ULM 39.56 351 ePc 34 23.40 0.3
 CM8 40.16 317 P 34 40.00 11.7X
 Z 20s 0.57um 4.4Msz

LCCM 40.54 333 eP 34 31.40 0.0
 e 36 34.70
 e 37 57.00
 ARN 40.58 316 eP 34 32.91 1.2
 ePcP 36 35.06
 ORV 41.72 319 eP 34 42.77 1.8
 ePcP 36 38.55

WDC 42.94 319 P 35 00.00 9.0X
 Z 20s 0.59um 4.5Msz
 LBFM 42.95 320 eP 34 50.28 -1.1
 ePcP 36 41.93
 LNOR 43.67 328 P 34 57.22 0.3
 SES 43.80 338 ePc 34 56.60 -1.3

VIPM 44.06 325 P 35 00.56 0.3
 VGB 44.77 326 eP 35 05.72 -0.1
 WAH2 44.92 328 P 35 06.31 -0.6
 VBEM 44.94 325 P 35 07.40 0.1
 DPW 44.99 330 eP 35 06.53 -1.0
 ePcP 36 48.66

SAW 45.47 329 P 35 10.79 -0.5
 ASR 45.61 326 P 35 12.73 0.1
 WTV 45.74 329 P 35 13.15 -0.4
 LON 46.10 327 ePd 35 15.87 -0.5
 iPcP 36 52.22
 FMW 46.14 327 P 35 16.54 -0.3
 RMW 46.55 328 eP 35 19.40 -0.5
 i 35 29.61 34kmX

iPcP 36 53.66
 BMW 46.71 326 eP 35 21.09 -0.1
 ePcP 36 55.17
 BAO 46.77 124 iPd 35 20.90 -1.2
 e 35 23.00 7kmX
 e 35 56.00

JCW 47.08 328 P 35 22.37 -1.6
 GMW 47.12 327 ePd 35 23.02 -1.3
 ePcP 36 55.93
 TCA 47.42 154 e(P) 35 27.00 0.0
 FCC 47.69 355 eP 35 29.50 0.9
 MCW 47.85 328 iPd 35 29.10 -1.0
 iPcP 36 59.14

YKA 54.90 345 eP 36 19.50 -3.5X

RES 1.0s 12.40nm 4.9mb
 63.53 358 eP 37 21.00 -1.5
 0.8s 3.00nm 4.5mb
 BALM 63.91 333 eP 37 26.39 1.0
 ePcP 37 59.17

PMR 67.15 333 P 38 00.00 14.0X
 Z 19s 0.33um 4.6Msz
 HON 68.65 289 P 38 10.00 13.9X
 Z 19s 0.36um 4.6Msz
 EKA 77.14 36 P 38 42.00 -3.5X
 0.8s 5.90nm 4.7mb

TIC 80.63 85 P 39 02.50 -2.8
 LIC 80.70 85 P 39 02.60 -3.0
 0.7s 12.00nm 5.0mb
 KIC 80.95 85 P 39 04.10 -2.9
 ADK 81.18 321 ePc 39 07.65 0.3
 0.8s 96.12nm 5.9mb X

GEC2 88.35 41 P 39 39.40 -4.2X
 0.8s 1.24nm 4.3mb
 MAIO 122.95 32 ePKP 45 48.00 -0.7
 BJI 124.67 339 ePKP 45 51.00 -0.7
 WMO 124.91 5 PKP 45 52.00 -0.2
 HHC 125.42 343 PKP 45 53.60 0.2
 TIY 128.04 341 PKPd 45 58.40 -0.1

Z 30s 0.62um 5.1MszX
 GTA 129.18 353 PKP 46 01.00 0.3
 SSE 130.05 328 PKP 46 01.50 -0.8
 NJ2 130.42 331 ePKP 46 03.50 0.5
 STK 131.08 237 ePKP 46 07.90 3.6X
 0.7s 3.60nm

LZH 131.82 348 ePKP 46 06.00 0.2
 XAN 132.52 342 PKP 46 06.80 -0.3
 CD2 136.84 347 PKPd 46 15.50 0.1
 LSA 139.19 3 PKP 46 21.00 0.7
 ASPA 139.48 247 ePKP 46 15.90 -4.5X
 0.9s 4.80nm

WB2 139.60 253 iPKPc 46 17.90 -2.8
 0.7s 6.40nm
 WRA 139.61 253 PKP 46 20.00 -0.7
 0.8s 4.10nm
 GKN 140.05 12 PKP 46 17.40 -4.1X
 GUN 140.37 10 PKP 46 13.60 -8.7X
 0.8s 27.00nm

KKN 140.38 11 PKP 46 15.80 -6.4X
 0.8s 15.00nm
 DMN 140.52 11 PKP 46 18.40 -4.1X
 PKI 140.62 11 PKP 46 16.00 -6.8X
 KMI 142.64 346 ePKP 46 26.00 -0.2
 QIZ 145.72 331 iPKPd 46 32.60 1.3
 HYB 147.98 27 ePKP 46 33.00 -2.0

CHTO 149.56 349 ePKPc 46 27.30 -10.2X
 1.1s 48.29nm
 MUN 150.49 222 ePKP 46 43.00 4.5X
 0.9s 19.00nm
 GBA 150.69 33 PKPd 46 39.00 -0.2
 KHT 153.55 348 ePKP 46 44.30 1.0

S.D. = 1.2 on 108 of 131 obs.
 * FEB 12, 1993 18h 28m 04.62±0.47s
 39.386 N ± 10.5km 73.108 E ± 10.5km
 DEPTH = 33.0km (normal)
 4.4mb (10 obs.) 4.2Msz (1 obs.)
 TAJIKISTAN-XINJIANG BORDER REG. (719)

QUE 10.48 211 eP 30 35.80 0.0
 eS 32 35.20
 MAIO 11.20 258 eP 30 39.00 -6.5X
 eS 32 42.00
 GKN 14.85 136 P 31 34.40 0.3
 0.6s 14.00nm 4.5mb

KKN 15.36 135 P 31 39.40 -1.4
 0.6s 22.00nm 4.6mb
 PKI 15.61 135 P 31 44.20 0.1
 GBA 25.96 170 P 33 40.00 4.1X
 HFS 41.88 320 eP 35 52.30 -0.7
 0.4s 5.40nm 4.6mb

GEC2 42.69 303 P 36 00.10 0.2
 0.5s 1.69nm 4.0mb
 e 38 19.60
 e 38 22.90
 KHC 42.72 303 eP 36 01.00 0.9
 e 38 19.50
 e 39 40.00
 e 40 11.00

NB2 43.13 321 P 36 02.80 -0.5
 0.5s 2.90nm 4.3mb
 GRF 44.13 305 eP 36 12.50 1.0

Z 20s 0.30um 4.2msz
LPG 48.10 300 eP 36 42.70 -0.6
0.8s 2.95nm 4.4mb
LPL 48.11 300 eP 36 43.10 -0.2
0.6s 1.80nm 4.3mb
LBF 49.48 303 eP 36 53.90 0.3
AVF 49.95 303 eP 36 56.40 -0.7
0.8s 4.55nm 4.6mb
MAF 50.65 302 eP 37 02.10 -0.4
0.6s 2.45nm 4.4mb
WRA 82.15 124 P 40 30.50 7.0X
0.7s 0.20nm 3.3mb X
WB2 82.16 124 eP 40 25.20 1.6
0.5s 2.90nm 4.6mb
S.D. = 0.8 on 15 of 18 obs.

* FEB 12, 1993 18h 57m 33.74± 1.23s
36.672 N ± 19.2km 69.983 E ± 7.0km
DEPTH = 33.0km (normal)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE 6.95 202 eP 59 16.00 0.0
eS 00 28.40
MAIO 8.46 271 eP 59 37.00 0.0
eS 01 04.00
GKN 15.09 121 P 01 05.60 -0.7
0.4s 12.00nm 4.5mb
DMN 15.66 121 P 01 14.00 0.2
KKK 15.67 120 P 01 13.80 -0.1
PKI 15.89 120 P 01 17.60 0.7
GUN 16.02 119 P 01 18.40 -0.1
0.4s 20.00nm 4.6mb
S.D. = 0.5 on 7 of 7 obs.

* FEB 12, 1993 18h 59m 27.80± 1.79s
33.625 S ± 7.0km 71.861 W ± 13.9km
DEPTH = 19.4 ± 6.5 km
NEAR COAST OF CENTRAL CHILE (135)
MD 4.5 (SAN).

LCCH 0.28 59 iPd 59 34.69 0.5
iS 59 39.67
LNV 0.50 132 iPd 59 38.20 0.4
IHA 0.62 17 iPc 59 39.70 -0.2
iS 59 48.30
TACH 0.77 92 iPd 59 41.92 -0.5
ROCH 0.96 48 iPd 59 45.26 -0.6
SAN 1.02 81 iPd 59 45.92 -0.7
iS 00 00.37
CHCH 1.05 107 iPd 59 46.39 -0.9
PEL 1.09 64 iP+ 59 47.79 -0.2
iS 00 02.64
PCH 1.12 90 iPd 59 47.59 -0.9
iS 00 04.59
CACH 1.16 115 iP 59 49.06 0.0
iS 00 07.13
FCH 1.35 78 iP+ 59 51.47 -0.4
iS 00 09.84
JACH 1.42 49 iPd 59 52.55 -0.2
iS 00 10.98
MDZ 2.63 74 eP 00 12.70 2.6X
iS 00 14.50
iS 00 49.70
RFA 3.04 113 ePc 00 16.70 0.9
(S) 01 01.00
RTCV 3.31 59 ePc 00 20.20 0.5
RTCB 3.35 51 eP 00 21.20 0.9
CFA 3.66 58 e(P) 00 25.00 0.3
S 01 17.10
RTLL 3.67 52 eP 00 25.50 0.7
S 01 18.50
RTRS 4.00 31 ePd 00 30.20 0.8
TCA 6.55 72 eP 01 02.00 -3.6X
(S) 02 23.20
FSA 9.07 36 e(P) 01 42.00 1.4
CNCB 17.10 13 P 03 30.80 2.8X
ZOBO 17.59 12 P 03 31.80 -2.3
S.D. = 0.9 on 20 of 23 obs.

* FEB 12, 1993 19h 26m 07.23± 2.05s
40.088 N ± 10.2km 40.682 E ± 20.9km
DEPTH = 10.0km (geophysicist)
3.2mb (2 obs.)
TURKEY (366)
TBZ 1.14 323 iPg 26 29.80 1.3
SVST 2.89 265 iP 26 53.90 -0.4

TRHT 3.46 276 eS 27 30.10
KVT 3.67 287 iPn 27 08.80 3.4X
BNN 3.93 253 ePn 27 10.00 1.0
CTK 4.51 280 eP 27 17.30 0.0
TAB 4.83 113 eP 27 49.00 27.1X
KAS 5.41 286 eP 27 38.00 8.0X
BBTK 6.09 270 eP 27 52.60 13.0X
BHL 7.37 215 P 27 58.00 0.5
S 30 00.00
OBN 15.27 351 eP 29 45.00 0.8
GEC2 21.06 303 Pn 30 52.10 -1.7
0.7s 0.64nm 3.1mb
e 30 59.40
KHC 21.21 304 eP 30 54.00 -1.3
e 31 01.00
CLL 22.22 310 e(P) 31 05.00 -0.2
YKA 75.85 348 eP 37 59.50 4.6X
0.4s 0.10nm 3.2mb
S.D. = 1.2 on 9 of 15 obs.

FEB 12, 1993 19h 55m 50.97± 0.94s
47.397 N ± 7.6km 7.118 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.0 (STR).

LOMF 0.20 257 Pg 55 55.45 0.0
BBS 0.27 76 Pg 55 56.87 0.1
MOF 0.46 1 Pg 56 00.02 -0.2
FEL 0.77 51 ePg 56 05.89 -0.2
ECH 0.82 2 Pg 56 06.96 0.1
Sg 56 19.02
CDF 1.02 6 Pg 56 10.48 0.1
Sg 56 24.99
WLS 1.03 9 Pg 56 10.66 0.2
VITF 1.12 317 Pg 56 11.98 0.0
Sg 56 28.79
S.D. = 0.2 on 8 of 8 obs.

* FEB 12, 1993 19h 59m 38.89s
61.258 N 150.230 W
DEPTH = 42.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

SUA 0.32 310 iP 59 47.55 -0.2
eS 59 55.39
PMS 0.32 92 iP 59 47.45 -0.2
PLRM 0.63 57 eP 59 50.48 -0.9
PTE 0.71 123 iP 59 51.73 -0.8
S 00 01.33
NKA 0.71 224 eP 59 53.73 1.1
SLKM 0.75 180 eP 59 51.98 -1.2
eS 00 03.35
GHO 0.81 50 eP 59 53.08 -1.0
eS 00 04.97
MPA 0.88 151 eP 59 53.94 -1.0
eS 00 06.68
SPU 0.89 266 iP 59 54.01 -1.1
eS 00 06.93
CPAM 0.92 271 iP 59 55.00 -0.7
eS 00 08.38
CRP 0.93 271 eP 59 55.09 -0.7
S 00 08.81
CKN 0.94 269 eP 59 55.29 -0.6
S 00 08.50
SKT 0.95 320 iP 59 55.30 -0.7
eS 00 08.80
CKT 0.96 267 iP 59 55.26 -0.9
iS 00 08.44
CP2 0.97 271 eP 59 55.67 -0.8
CKL 1.02 267 iP 59 56.12 -1.0
iS 00 10.49
BGL 1.04 271 iP 59 56.46 -0.9
iS 00 10.88
SML 1.06 58 eP 59 56.51 -1.1
eS 00 11.59
SEW 1.22 161 eP 59 58.52 -1.2
DFR 1.37 242 eP 00 00.94 -1.1
eS 00 18.78
REF 1.43 239 eP 00 01.98 -1.0
eS 00 20.16
RSO 1.47 238 eP 00 02.44 -1.1
S 00 21.38
RS2 1.47 238 eP 00 02.52 -1.0
eS 00 21.42

RS1 1.47 238 eP 00 02.32 -1.2
S 00 20.94
RDW 1.48 239 eP 00 02.64 -1.0
eS 00 21.66
NCT 1.49 243 iP 00 02.81 -0.9
eS 00 21.64
SCM 1.51 66 eP 00 02.70 -1.2
KNIM 1.53 126 eP 00 01.38 -2.7
BRLK 1.53 192 eP 00 02.85 -1.4
GLI 1.57 103 eP 00 02.58 -2.2
eS 00 22.42
LTI 1.69 135 eP 00 03.88 -2.6
ILIM 1.79 230 eP 00 07.03 -0.9
VZW 1.79 95 eP 00 06.48 -1.5
MTU 1.80 134 eP 00 05.86 -2.1
VLZ 1.89 92 eP 00 07.80 -1.4
FID 1.90 104 eP 00 06.83 -2.6
KLU 2.09 82 eP 00 10.30 -1.9
eS 00 35.20
TRF 2.20 359 eP 00 13.21 -0.7
CVA 2.30 106 eP 00 14.33 -0.8
PDB 2.45 235 eP 00 16.13 -1.1
GLB 3.10 84 eP 00 25.75 -0.8
TGL 3.64 95 eP 00 32.99 -1.3
BALM 3.83 90 eP 00 34.44 -2.5
43 obs. associated

FEB 12, 1993 20h 51m 41.92± 0.60s
32.908 S ± 5.9km 70.957 W ± 6.8km
DEPTH = 74.5 ± 9.2 km
4.2mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.5 (SAN). Felt at Quillota,
San Felipe and Santiago, Chile.

ROCH 0.08 216 iP 51 52.67 -0.6
iS 52 01.01
PEL 0.33 136 iPd 51 53.83 -0.2
iS 52 02.75
JACH 0.38 54 iP 51 53.79 -0.7
IHA 0.59 258 iPc 51 55.70 -0.4
iS 52 10.60
SAN 0.60 156 iP 51 56.37 0.1
iS 52 07.16
FCH 0.70 127 iP 51 57.63 -0.1
TACH 0.74 179 iP 51 57.89 0.0
LCCH 0.76 222 iP 51 58.42 0.4
PCH 0.80 153 iP 51 58.46 -0.2
CHCH 1.05 166 iP 52 01.78 0.1
LNV 1.11 200 iP 52 02.23 -0.1
CACH 1.24 166 iP 52 04.84 0.7
RTCV 2.30 64 iPd 52 19.40 1.0
RTCB 2.31 53 iPd 52 19.90 1.2
RTLL 2.63 54 iPc 52 23.70 0.7
CFA 2.64 61 iPc 52 23.80 0.6
RFA 2.78 133 iPc 52 26.00 0.8
RTRS 3.01 25 iPc 52 29.30 1.0
MRA 4.45 85 ePc 52 47.10 -1.4
S 53 34.80
TCA 5.62 76 iP 53 02.30 -2.6
(S) 54 03.00
FSA 8.05 34 eP 53 34.00 -4.3X
CNCB 16.25 10 P 55 27.00 -0.6
LPB 16.51 10 P 55 32.10 1.5
ZOBO 16.74 9 P 55 32.20 -1.6
1.0s 16.75nm 4.2mb
BAO 26.99 56 eP 57 15.00 -3.8X
S.D. = 1.0 on 23 of 25 obs.

FEB 12, 1993 21h 37m 53.44± 0.34s
37.578 N ± 3.3km 22.578 E ± 1.9km
DEPTH = 74.5 ± 3.4 km
4.4mb (51 obs.)
SOUTHERN GREECE (368)
MD 4.5 (TTG). Felt in Akhaia,
Argolis, Arkadhia, Attiki and
Viotia.

VLI 0.91 161 ePg 38 12.50 1.2
ATH 0.98 66 ePg 38 13.50 1.3
AGG 1.45 352 ePb 38 19.42 1.0
VLS 1.68 291 ePb 38 23.00 1.6
PAIG 2.50 20 iPn 38 32.90 0.3
eSn 39 01.74
LIT 2.52 358 iPn 38 33.54 0.6
eSn 39 02.74
IGT 2.63 319 ePn 38 36.06 1.6

12d 21h

KZN	2.80	347	ePn	38	38.00	1.1				iSn	40	32.01		ORO	13.55	311	P	41	02.50	-1.3
OUR	2.96	21	iPn	38	39.29	0.2	MNO	6.26	276	P	39	24.00	-1.3	LLS	13.67	317	ePd	41	10.30	4.8X
			eSn	39	13.82		BCK	6.37	89	iPn	39	28.90	2.2	PRU	13.68	338	eP	41	07.00	1.6
KEK	3.05	315	ePn	38	41.00	0.7	SGO	6.39	300	P	39	26.30	-0.6				e	41	13.00	
THE	3.06	6	ePn	38	40.46	0.0	GPA	6.61	63	eP	39	30.40	0.4				e	43	46.50	
			eSn	39	16.34		EYL	6.61	61	ePn	39	29.80	-0.3	MMK	13.78	312	ePd	41	11.30	4.3X
SOH	3.29	10	iPn	38	44.70	0.9	MCT	7.10	273	P	39	37.77	0.8	KSP	14.00	343	eP	41	13.60	4.1X
			eSn	39	21.78		DRA	7.21	10	ePc	39	38.00	-0.2	DIX	14.13	312	ePd	41	13.00	1.5
FNA	3.33	344	ePn	38	45.50	1.2	PSN	7.44	33	iP	39	40.00	-1.4	AYN	14.19	124	eP	41	10.00	-2.0
			eSn	39	23.20		RFI	7.62	302	P	39	43.33	-0.5	LPG	14.24	309	eP	41	14.90	2.0
PRK	3.34	59	iPd	38	44.50	0.1	CVT	7.77	274	P	39	45.68	-0.3		0.7s		7.05nm			4.1mb
NPS	3.37	132	eP	38	45.00	0.3	CMP	7.90	13	iPc	39	39.00	-8.8X	LPL	14.26	309	eP	41	15.10	2.0
GRG	3.38	358	iPn	38	45.46	0.6	SDI	7.92	304	P	39	47.30	-0.8		0.7s		7.40nm			4.1mb
			eSn	39	25.02					eSn	41	06.60		ZLA	14.38	318	ePc	41	18.00	3.5X
KNT	3.59	4	iPn	38	48.82	1.0	ERC	7.92	276	P	39	47.83	-0.3	EMS	14.41	311	ePd	41	16.40	1.4
			eSn	39	28.54		BZS	8.06	355	eP	39	48.00	-2.0	SLE	14.50	319	ePc	41	20.40	4.3X
SRS	3.62	12	iPn	38	48.74	0.5	ISR	8.12	20	eP	39	54.00	3.2X	GRF	14.61	330	eP	41	23.50	6.0X
			eSn	39	29.74		TNR	8.17	8	ePd	39	51.00	-0.4	BRG	14.65	338	i(P)	41	24.00	6.1X
EZN	3.69	51	iPn	38	48.70	-0.5	BBTK	8.28	71	eP	39	54.50	1.4	BBS	14.84	316	P	41	21.62	1.1
VAY	3.74	360	iPnd	38	50.80	0.9	MLR	8.30	17	iPc	39	59.00	5.6X	LOMF	15.16	315	P	41	24.83	0.3
			iSg	39	33.70		AQU	8.51	307	P	39	56.50	0.3	MOX	15.23	333	eP	41	30.70	5.3X
OHR	3.79	339	iPn	38	51.90	1.2	CVO	8.66	17	eP	40	01.00	2.7X		0.7s		7.00nm			4.0mb
			i	38	58.50		VRI	8.84	19	ePd	40	04.00	3.3X	MOF	15.28	317	P	41	26.62	0.5
			iSn	39	30.20		ASS	9.35	309	P	40	06.90	-0.8	CLL	15.32	337	iP	41	30.40	3.9X
			iSg	39	36.10		ARV	9.42	312	P	40	08.00	-0.6		0.7s		29.00nm			4.6mb
Izm	3.79	76	iPn	38	50.50	-0.2				eSn	41	42.00					i	41	53.70	
MMB	4.10	12	iPd	38	55.00	-0.1	KAS	9.44	63	iPd	40	09.40	0.4				e(S)	44	28.00	
RDO	4.24	32	ePn	38	56.80	-0.1	VBY	9.63	328	ePn	40	09.80	-1.6	BSF	15.45	317	eP	41	28.60	0.3
ALN	4.27	38	ePn	38	56.62	-0.8				iSn	41	52.50			0.9s		15.90nm			4.2mb
			eSn	39	45.00		RSM	9.96	313	P	40	15.40	-0.5	ECH	15.48	318	P	41	30.27	1.6
KKB	4.30	5	iPd	38	58.00	0.2	CRE	10.09	310	P	40	18.40	0.6	WLS	15.50	319	P	41	31.26	2.3
CIN	4.38	88	eP	39	00.00	1.1				eSn	41	59.10		CDF	15.54	319	P	41	30.87	1.4
RZN	4.42	21	iP	39	00.00	0.3	CEY	10.18	326	eP	40	16.00	-2.9X	LANF	15.64	321	P	41	34.40	3.8X
SKO	4.48	349	iPn	39	01.00	0.7				eS	42	05.50		HAU	15.80	316	eP	41	34.20	1.6
			i	39	04.50		SFI	10.31	311	P	40	20.80	0.2		0.6s		8.75nm			4.1mb
			iSn	39	51.30		PGD	10.36	311	P	40	22.75	1.2	Z	21s		0.15um			5.1msz
			iSg	40	08.00		LJU	10.37	327	eP	40	23.50	2.1	VITF	16.12	317	P	41	37.21	0.6
LCI	4.53	309	P	38	59.10	-2.0				eS	42	09.00		SMF	16.56	309	eP	41	40.70	-1.5
			eSn	39	44.80		TRI	10.46	324	e(Pn)	40	22.20	-0.4		0.9s		10.50nm			4.0mb
KDZ	4.62	27	iPd	39	01.00	-1.3				e	41	09.20		L8F	16.63	310	eP	41	42.00	-1.1
PLD	4.81	19	iPd	39	05.00	0.1				e(Sn)	42	09.40			0.6s		10.45nm			4.2mb
EDC	4.96	55	iPn	39	07.00	-0.1				e	42	19.70		LOR	16.84	311	eP	41	45.40	-0.3
GRI	5.01	286	P	39	07.38	-0.4	PSZ	10.52	350	eP	40	22.20	-1.4		0.7s		12.35nm			4.2mb
DIM	5.01	26	iPd	39	08.00	0.3	HLW	10.60	134	eP	40	16.80	-7.9X	Z	17s		0.13um			
VTs	5.03	5	iPd	39	09.00	0.8				eS	42	08.70		WLF	16.91	321	P	41	50.00	3.6X
ULC	5.07	331	iPnc	39	08.46	-0.2	VOY	10.64	325	eP	40	22.80	-2.4	AVF	16.93	309	eP	41	46.20	-0.5
			iSn	40	02.71					eS	42	15.10		SSF	16.95	310	eP	41	45.90	-1.2
PGB	5.11	13	iPd	39	09.00	-0.2	SRO	10.70	344	eP	40	43.30	17.4X		0.8s		21.20nm			4.4mb
DST	5.15	65	iPn	39	10.40	0.6	TRMT	10.95	71	eP	40	33.00	3.6X	CAF	17.06	302	eP	41	45.90	-2.5
SOI	5.19	277	Pd	39	09.70	-0.5	RBL	11.10	326	P	40	32.00	0.6	BGF	17.14	308	eP	41	48.10	-1.3
			eSn	40	02.10		VVI	11.30	321	P	40	35.31	1.2		0.8s		11.30nm			4.1mb
KCT	5.24	58	iPn	39	10.80	-0.1	ZST	11.34	341	e(P)	40	47.20	12.7X	MAF	17.19	306	eP	41	48.40	-1.6
TDS	5.31	295	P	39	11.60	-0.4				e	40	53.10			0.9s		6.70nm			3.9mb
BRT	5.32	310	P	39	11.47	-0.6	SVST	11.44	75	eP	40	40.00	3.9X	TCF	17.44	306	eP	41	51.80	-1.3
GMB	5.35	278	P	39	11.75	-0.8	FVI	11.57	324	P	40	38.00	0.5		0.9s		7.85nm			3.9mb
ORI	5.39	299	P	39	12.50	-0.6	KBA	11.69	327	iPc	40	40.60	1.3	RJF	17.55	303	eP	41	52.50	-1.9
			eSn	40	06.80					i	40	48.80			0.7s		5.75nm			3.9mb
PVY	5.39	339	iPnd	39	13.97	0.8				i	40	53.20		Z	19s		0.13um			
			iSn	40	11.55					i(S)	42	38.40		LPO	17.58	301	eP	41	54.00	-0.9
TTG	5.47	333	iPnd	39	13.49	-0.7	MLL	11.70	112	eP	40	36.00	-3.5X		0.6s		2.55nm			3.6mb
BDV	5.51	330	iPnd	39	13.49	-1.3	SPC	11.73	352	eP	40	52.80	13.0X	ENN	17.74	323	eP	42	01.00	4.3X
			iSn	40	12.49		CTI	11.74	320	P	40	38.50	-1.5		0.7s		4.70nm			3.8mb
KHL	5.54	80	iPn	39	16.50	1.3				eSn	42	39.50		EPF	17.80	295	eP	41	55.90	-1.7
MSI	5.59	279	Pc	39	15.30	-0.5	DSI	12.13	116	eP	40	41.00	-4.0X	LSF	17.86	306	eP	41	56.00	-2.3
ATN	5.66	278	P	39	16.10	-0.8	BHG	12.39	328	eP	40	55.90	7.5X		0.9s		8.20nm			4.0mb
			eSn	40	14.00		SAGI	12.43	123	eP	40	44.40	-4.6X	LFF	17.96	301	eP	41	56.60	-2.9X
BAI	5.67	310	P	39	15.50	-1.4				eS	42	51.90		DOU	17.97	320	P	42	01.80	2.3
IVA	5.67	340	iPnd	39	17.30	0.3	WTTA	12.60	324	iPc	40	51.10	-0.2		0.9s		35.00nm			4.6mb
			iSn	40	18.49					iPP	40	59.60		EGRA	18.15	292	eP	41	56.90	-4.9X
CTT	5.77	50	iPn	39	17.30	-1.0				i	42	48.80		BSD	18.30	346	iP	42	02.30	-1.2
HCY	5.78	328	iPnd	39	16.95	-1.6				i	42	54.40			0.5s		17.00nm			4.5mb
			iSn	40	18.49		OSS	12.95	319	ePc	41	03.90	8.0X	SNF	18.38	321	P	42	09.30	4.8X
DMK	5.82	42	iPn	39	18.20	-0.9	SBF	13.08	303	eP	40	57.50	-0.1	ECHE	18.51	284	eP	42	07.50	1.2
NKY	5.90	333	iPnd	39	20.14	-0.1				0.9s		26.35nm	4.9mb	TAB	18.76	81	eP	42	09.00	-0.4
			iSn	40	22.82		VAI	13.21	313	P	40	59.50	0.3	MFF	19.07	305	eP	42	10.80	-1.8
ELL	5.91	96	iPn	39	24.70	4.2X	KHC	13.26	333	eP	41	02.00	2.1		1.1s		32.00nm			4.5mb
PVL	6.01	20	iPd	39	20.00	-1.7				e	41	11.50		ELIZ	19.17	294	eP	42	13.50	-0.2
MGR	6.05	297	P	39	21.70	-0.5				e	41	19.00		EVIA	19.75	281	eP	42	20.00	0.0
			eSn	40	22.50					e	41	3								

FLN	20.11	311 eP	42 22.50	-1.0		0.8s	5.80nm	4.6mb		iS	29 50.19	
Z	0.4s	10.65nm		4.5mb	YKA	74.50 341 eP	49 24.80	-0.3	PCH	0.82 155 iP	29 37.92	0.0
LPF	22s	0.17um		3.4Msz		0.6s	2.00nm	4.2mb		iS	29 50.82	
GRR	20.16	309 eP	42 22.70	-1.2	IMA	76.64 358 iPc	49 38.55	1.2	CHCH	1.08 168 iP	29 41.28	0.1
	0.8s	16.40nm		4.4mb		0.8s	6.44nm	4.6mb		iS	29 56.66	
EBAW	20.19	310 eP	42 23.30	-0.9	ULM	77.14 325 eP	49 44.00	3.8X	LNV	1.15 200 iP+	29 41.84	-0.2
PAB	0.5s	11.60nm		4.5mb	FBA	77.58 356 eP	49 43.50	1.2		iS	29 57.90	
ELUO	20.80	280 eP	42 31.80	1.1		0.5s	2.69nm	4.4mb	S.D.	= 0.1 on 9 of 9 obs.		
EHOR	21.12	284 eP	42 33.00	-1.0	ANM	78.00 4 (P)	49 45.58	0.9	FEB	12, 1993 22h 32m 39.45± 0.18s		
AJIF	21.26	278 eP	42 36.00	0.7	TTA	79.83 359 eP	49 56.80	2.1		51.622 N ± 5.3km 175.991 W ± 2.6km		
EJIF	21.99	279 eP	42 43.50	1.0	KLU	80.83 354 eP	50 00.97	0.9		DEPTH = 33.3km (17 depth phases)		
MJMA	22.15	121 eP	42 45.67	1.4	BALM	80.96 353 eP	50 01.96	1.1		5.1mb (83 obs.) 5.3Msz (36 obs.)		
UPP	22.40	276 eP	42 46.90	0.4	PMS	81.32 356 eP	50 04.30	1.7		ANDREANOF ISLANDS, ALEUTIAN IS. (7)		
IFR	22.52	115 eP	42 48.40	0.6	CRP	81.41 357 eP	50 03.30	0.1		ML 5.0 (PMR). Felt (IV) on Adak		
NUR	22.52	353 iP	42 46.90	-0.6	SVW	81.65 359 eP	50 06.50	2.2				
RVD	22.87	268 iP	42 54.50	3.1X	SLKM	82.09 356 eP	50 07.25	0.7				
NB2	22.99	3 eP	42 50.80	-1.2	NEW	87.31 334 eP	50 34.59	1.5	ADK	0.50 302 iPd	32 53.45	3.3
KAF	0.5s	16.60nm		4.7mb		1.0s	9.00nm	4.9mb	SMY	6.20 284 eP	34 11.64	0.7
AVE	24.15	115 eP	43 04.80	1.1	DPW	88.02 335 eP	50 38.10	1.6	SDN	9.96 62 eP	35 02.19	-0.9
EKA	24.55	347 P	43 06.90	-0.3	WRA	118.88 94 PKP	56 35.50	0.4	SVW	14.69 42 eP	36 09.16	2.7
EDL	0.5s	5.80nm		4.3mb		0.5s	0.90nm			0.8s	136.32nm	5.4mb
TIO	24.67	4 iP	43 07.70	-0.6	WB2	118.89 94 iPKPd	56 34.70	-0.5	KDC	14.86 56 eP	36 07.50	-1.1
EAO	0.4s	7.00nm		4.4mb	DZM	145.29 74 iPKPc	57 25.40	0.9		0.7s	39.70nm	4.9mb
EDU	24.75	269 iP	43 13.00	3.6X		S.D.	= 1.2 on 209 of 252 obs.		TTA	15.57 36 eP	36 19.97	2.1
EDH		i	43 25.50		% FEB	12, 1993 22h 00m 07.62± 0.89s				1.3s	168.79nm	5.1mb
EDT	24.86	324 Pc	43 11.00	0.8		38.679 S ± 5.4km 175.604 E ± 6.3km			BGL	16.14 44 eP	36 20.03	-5.1X
EDV	0.9s	20.30nm		4.6mb		DEPTH = 193.2 ± 10.3 km			CP2	16.20 44 eP	36 28.64	2.5X
EDW	25.07	325 eP	43 12.60	0.5	NORTH ISLAND, NEW ZEALAND	(159)			CRP	16.24 44 eP	36 29.01	2.5X
EDX	25.22	325 eP	43 14.40	0.9	NGZ	0.50 180 P	00 33.70	-0.4	SLKM	16.81 48 eP	36 32.58	-1.0
EDY	1.2s	12.00nm		4.2mb	CNZ	0.52 185 P	00 34.10	-0.1	PMS	17.38 46 eP	36 41.40	0.7
EDZ	25.30	325 eP	43 13.00	-1.2	WHH	0.73 107 P	00 34.20	-1.1	PMR	17.70 45 eP	36 45.63	1.0
ED1	25.47	264 iP	43 17.50	1.2	WLZ	0.81 360 P	00 35.70	0.0		0.6s	25.93nm	4.5mb
ED2	25.51	326 eP	43 17.30	1.1	eS	0.0			IMA	18.35 29 ePc	36 54.00	1.2
ED3	1.2s	26.00nm		4.6mb	PAHZ	1.15 99 P	00 38.00	-0.1		1.0s	48.65nm	4.6mb
ED4	25.53	317 eP	43 18.60	2.2	WAHZ	1.17 150 Pc	00 38.50	0.2	KLU	19.11 47 eP	36 59.03	-3.0X
ED5	25.78	326 eP	43 19.00	0.3	BSZ	1.23 205 P	00 39.40	0.7	FBA	19.69 37 eP	37 06.10	-2.3X
ED6	1.2s	9.00nm		4.2mb	URZ	1.25 71 P	00 38.10	-0.7		0.7s	36.84nm	4.8mb
ED7	25.95	317 eP	43 22.90	2.6	TTH	1.28 133 P	00 38.50	-0.6	BALM	20.67 50 eP	37 15.53	-3.2X
ED8	26.27	132 eP	43 25.67	1.9	MOH	1.29 111 eP	00 38.30	-0.8	BRW	21.58 17 eP	37 27.62	-0.1
ED9	27.03	132 eP	43 32.00	1.1	TEHZ	1.61 145 P	00 42.50	0.5	SIT	24.04 61 eP	37 53.58	1.6
ED10	29.42	81 iPc	43 51.00	-1.0	MAHZ	1.85 107 P	00 45.40	1.0		1.2s	99.02nm	5.2mb
ED11	29.97	3 iP	43 56.00	-0.4	KUZ	1.93 3 P	00 46.00	0.8	Z	19s	4.21um	4.9Msz
ED12	32.33	3 eP	44 16.00	-1.0	MNG	1.94 183 Pd	00 45.70	0.4	KUSJ	27.67 268 eP	38 23.20	-2.7
ED13	33.19	187 iPc	44 35.10	10.0X		S	01 10.00		ASAJ	28.43 271 eP	38 33.50	0.7
ED14	0.2s	20.00nm		5.6mb X	KIW	2.25 194 P	00 49.00	0.4	YAK	30.56 311 eP	38 50.00	-1.7
ED15		id	44 42.00		HBZ	2.38 64 P	00 50.50	0.4		Z 16s	3.30um	5.1MszX
ED16	37.29	88 eP	45 00.40	0.3	CAW	2.46 189 P	00 51.40	0.4	N	15s	2.00um	
ED17	39.71	226 P	45 20.28	0.1	MTW	2.48 182 P	00 51.20	0.0	E	16s	2.70um	
ED18	0.8s	16.50nm		5.0mb	DIW	2.49 211 P	00 51.80	0.5			ePP	39 48.00
ED19	39.79	225 Pd	45 21.08	0.3	MRW	2.64 195 P	00 53.40	0.3			ePPP	40 34.00
ED20	40.06	226 Pd	45 23.48	0.5		S	01 24.40				ePcP	41 49.00
ED21	41.32	70 P	45 33.50	0.2	BLW	2.69 182 P	00 53.80	0.2			eS	43 42.00
ED22	0.7s	30.00nm		5.2mb	TCW	2.73 202 P	00 54.60	0.5			eScP	45 29.00
ED23	43.26	347 eP	45 49.00	0.5	MOW	2.75 186 P	00 54.30	-0.1			eSSS	45 32.00
ED24	0.7s	4.79nm		4.4mb	ORZ	3.20 227 P	00 59.60	-0.1			ePcS	45 34.00
ED25	48.63	61 P	46 31.00	-0.5		S	01 37.70				eScS	49 36.00
ED26	1.0s	9.80nm		4.8mb	THZ	3.71 213 eP	01 06.20	0.1	PGC	33.21 74 eP	39 18.00	3.1X
ED27	52.21	81 P	46 57.20	-1.9	KHZ	4.05 202 P	01 10.70	0.4	HON	33.33 148 P	39 23.21	7.0X
ED28	0.4s	18.00nm		5.5mb		eS	01 54.50		Z	20s	8.86um	5.5Msz
ED29	52.76	82 P	47 01.60	-1.7	DSZ	4.23 222 eP	01 11.90	-0.7			eS	44 46.08
ED30	0.4s	29.00nm		5.7mb X	LTZ	4.82 211 P	01 19.40	-0.8	MCW	33.57 74 eP	39 19.81	1.7
ED31	52.76	96 eP	47 01.30	-1.8	MOZ	5.50 203 P	01 27.70	-1.1X	YKA	33.79 47 eP	39 19.00	-0.8
ED32	52.81	81 P	47 01.60	-2.0	ODZ	7.36 209 eP	01 52.50	-0.8		0.6s	9.80nm	4.9mb
ED33	0.6s	29.00nm		5.5mb X		S.D.	= 0.6 on 29 of 30 obs.		GMW	34.10 75 eP	39 23.98	1.3
ED34	53.01	81 P	47 03.20	-2.1		% FEB	12, 1993 22h 29m 21.51± 3.37s		JCW	34.32 74 P	39 25.25	0.6
ED35	0.4s	11.00nm		5.2mb			32.875 S ±17.5km 70.931 W ±10.3km		BMW	34.33 77 eP	39 25.64	0.9
ED36	53.23	81 P	47 05.00	-1.8			DEPTH = 66.2 ± 29.8 km				epP	39 35.81
ED37	0.6s	32.00nm		5.5mb X			CHILE-ARGENTINA BORDER REGION (127)				eSP	39 42.31
ED38	54.08	101 P	47 11.00	-1.8			MD 3.1 (SAN).		RMW	34.73 75 eP	39 28.76	0.5
ED39	56.50	76 Pc	47 30.00	-0.8	ROCH	0.12 215 iP+	29 31.81	-0.1	FMW	35.06 76 P	39 32.33	1.2
ED40	0.8s	14.00nm		5.1mb	PEL	0.34 142 iP	29 32.89	0.1	LON	35.06 76 eP	39 31.41	0.4
ED41	60.79	344 eP	48 01.00	1.7		iS	29 41.80				e	39 48.47
ED42	0.6s	1.00nm		4.1mb	JACH	0.34 56 iP	29 42.91	0.0	SHW	35.07 77 eP	39 33.02	1.8
ED43	62.64	308 eP	48 17.50	5.4X		iS	29 42.02				epP	39 42.97
ED44	63.01	64 eP	48 13.00	-1.9	FCH	0.70 130 iPd	29 36.61	-0.1			iPd	39 34.90
ED45	1.4s	26.00nm		5.1mb		iS	29 48.88		CHJJ	35.39 262 iPd	39 34.90	1.0
ED46	64.18	310 (P)	48 23.76	1.6		iS	29 49.12		ASR	35.48 77 P	39 35.53	0.9
ED47	1.0s	8.60nm		4.6mb	TACH	0.78 180 iP	29 37.27	0.0	MAT	35.56 263 eP	39 36.00	0.7
ED48	65.47	69 eP	48 29.40	-1.4		iS	29 49.12		Z	20s	4.61um	5.2Msz
ED49	66.03	56 P	48 33.20	-1.1	LCCH	0.80 222 iP	29 37.70	0.1			eS	44 24.00
ED50	1.0s	14.00nm		4.8mb					SSOR	35.59 79 P	39 36.93	1.3
ED51	67.64	64 eP	48 43.20	-1.4					WTV	35.73 74 P	39 37.22	0.5
ED52	68.16	83 eP	48 36.00	-11.9X					DBO	36.02 82 P	39 44.04	4.8X
ED53	1.0s	12.50nm							VBEM	36.02 79 P	39 40.16	0.8
ED54	70.58	330 eP	49 06.00	3.9X					SAW	36.06 73 P	39 39.93	0.5
ED55	71.42	360 eP	49 07.81	0.9					MDJ	36.26 281 eP	39 40.00	-1.1
ED56	73.10	48 P	49 16.20	-1.1						1.0s	18.00nm	4.9mb

12d 22h																			
	Z	26s	8.29um	5.4MsZx		GSC	44.68	87 eP	40 51.02	0.2		Z	28s	2.51um	5.1MsZx				
	N	20s	3.14um			SSK	44.84	89 (P)	40 53.10	0.9		N	20s	2.63um					
	E	20s	7.16um			DAU	44.92	78 eP	40 53.24	0.3				sP	42 21.50				
VGB		36.29	77 eP	39 41.81	0.4	ARUT	45.19	82 eP	40 55.06	0.1		ACO	54.60	74 iPc	42 05.80	-1.0			
			e	39 58.84		PEC	45.38	89 (P)	41 01.87	5.5X		XAN	55.33	283 iPc	42 11.50	-0.6			
WAH2		36.41	75 P	39 43.14	0.8		1.1s	43.72nm		5.3mb			1.0s	85.00nm		5.7mb			
IIDJ		36.43	262 P	39 43.60	0.9	MSU	45.52	81 eP	40 57.51	-0.1		Z	24s	4.87um	5.5MsZx				
CROR		36.43	78 P	39 43.37	0.7			e	41 14.62			N	19s	1.92um					
DPW		36.69	72 eP	39 44.51	-0.3	EMUT	45.55	78 (P)	40 58.18	0.3		E	18s	2.71um					
			epP	39 54.68	35km			e	41 14.42					pP	42 21.00	31km			
			esP	40 02.34		PLM	45.93	90 eP	41 01.24	0.4				sP	42 28.00				
FHC		36.84	86 (P)	39 45.58	-0.5	IRK	46.74	304 ePc	41 02.00	-4.8X				ScS	51 58.00				
		1.0s	114.39nm	5.7mb			Z	19s	1.81um	5.1MsZ		QZH	55.71	268 Pc	42 15.00	0.1			
			esP	40 04.26			N	20s	2.02um			WMOK	56.14	75 eP	42 16.80	-1.1			
JBO		36.89	77 P	39 47.09	0.7		E	18s	1.32um				1.3s	144.73nm	5.8mb				
VIPM		36.90	79 P	39 47.68	1.0				e	41 43.70		Z	21s	4.05um	5.5MsZ				
KMPM		36.98	87 (P)	39 46.34	-1.0				e	42 38.50				esP	42 34.72				
			epP	39 56.64	35km				e	42 58.00		MEO	56.23	75 iPc	42 18.00	-0.5			
			esP	40 05.40					e	44 45.00		OCO	56.39	74 iPd	42 32.40	12.7X			
NEW		37.15	71 eP	39 48.03	-0.6				e	48 06.00		LZH	56.99	288 eP	42 23.50	-0.7			
		1.0s	148.13nm	5.8mb					e	51 31.00			1.5s	70.00nm	5.5mb				
			epP	39 57.97	34km				LR	57 41.00		Z	22s	6.09um	5.7MsZ				
			esP	40 02.27						41 10.00	0.8	E	20s	3.85um					
LGPM		37.50	85 (P)	39 52.58	0.8	BUI	47.03	284 eP						pP	42 35.00	39km			
LNOR		37.62	75 P	39 53.31	0.7		Z	21s	7.89um	5.7MsZ				sP	42 40.00				
LBFM		37.83	84 eP	39 55.47	0.8		N	18s	3.88um			GTA	57.09	293 P	42 25.00	0.2			
WDC		37.87	85 P	40 00.00	5.3X	RSSD	47.04	69 ePc	41 08.96	-0.6			1.2s	21.00nm	5.0mb				
	Z	18s	2.36um	5.0MsZ				0.6s	21.25nm	5.3mb		Z	16s	8.57um	5.9MsZx				
WKYJ		38.69	263 P	40 02.90	1.2		Z	22s	2.18um	5.1MsZ		E	15s	0.05um					
RES		38.79	25 eP	40 03.00	1.0	PV09	47.39	79 eP	41 11.37	-1.2				sP	42 40.00				
		1.0s	3.00nm	4.0mb X				epP	41 22.70	40km		KEV	57.78	351 eP	42 32.00	3.0			
ORV		39.12	86 (P)	40 05.14	0.0			esP	41 28.44			Z	20s	4.30um	5.6MsZ				
CN2		39.22	282 P	40 05.60	-0.3	GLA	47.39	88 eP	41 11.77	-0.5				LR	08 10.00				
		1.0s	17.00nm	4.8mb		PV10	47.53	79 ePd	41 13.53	0.0		SLM	58.51	66 P	42 40.00	5.4X			
	Z	22s	9.78um	5.6MsZ		PV08	47.64	78 eP	41 11.92	-2.6		Z	19s	3.02um	5.4MsZ				
	N	20s	3.36um			ULM	48.07	58 eP	41 18.50	1.2		FVM	58.85	67 ePc	42 34.46	-2.5			
	E	20s	4.43um			TIA	48.87	279 Pc	41 23.40	-0.2			0.6s	45.96nm	5.8mb				
			esP	40 16.00				1.5s	200.00nm	5.9mb		Z	20s	4.90um	5.6MsZ				
YONJ		39.37	266 eP	40 08.80	1.5		Z	22s	4.75um	5.4MsZ		EEO	59.01	53 ePd	42 38.60	0.6			
SES		39.67	65 iPc	40 09.00	-0.7		E	24s	5.19um			UYO	59.12	73 iPd	42 27.60	-11.3X			
		0.9s	120.00nm	5.7mb					pP	41 32.00	29km	MIAR	59.38	72 eP	42 38.67	-2.0			
HMR		39.77	88 (P)	40 12.31	1.7	GOL	48.92	75 eP	41 24.17	-0.2			1.0s	92.33nm	5.9mb				
TKSJ		39.80	264 P	40 12.10	1.2			0.9s	90.16nm	5.8mb		Z	20s	1.53um	5.1MsZ				
COE		40.41	89 eP	40 22.74	6.9X		Z	21s	6.16um	5.6MsZ				S	50 42.40				
			epP	40 33.18	36km				esP	41 42.04		OLY	59.96	70 eP	42 41.82	-2.8			
ARN		40.44	89 eP	40 16.64	0.5	GLD	48.98	75 eP	41 25.34	0.7		ELC	60.02	67 eP	42 43.07	-1.9			
			e	40 23.00				1.4s	165.05nm	5.9mb		SDF	60.09	350 iP	42 40.00	-5.1X			
CM8		40.73	87 eP	40 17.26	-1.3		Z	21s	5.19um	5.5MsZ		GZH	60.34	270 iPc	42 47.00	-0.3			
		0.9s	26.75nm	5.0mb					esP	41 41.42		GZH	60.34	270 P	42 47.60	0.3X			
SNY		41.46	281 iPc	40 25.00	0.6	GUMO	49.26	234 eP	41 24.10	-2.6			1.0s	50.00nm	5.6mb				
		1.1s	210.00nm	5.8mb			Z	29s	1.48um	4.8MsZx				S	50 32.00				
	Z	26s	6.76um	5.4MsZx		HHC	49.30	287 P	41 27.80	0.8		GRT	60.62	68 eP	42 58.76	9.7X			
	N	17s	2.32um					1.2s	14.00nm	4.9mb		CD2	60.63	284 Pc	42 49.00	-0.3			
LCCM		41.47	72 eP	40 26.30	1.7		Z	23s	4.22um	5.4MsZx			1.0s	99.00nm	5.9mb				
KVN		41.53	84 (P)	40 33.56	8.3X		N	17s	1.54um			Z	20s	2.99um	5.4MsZ				
SHNJ		41.53	266 P	40 26.40	1.3				sP	41 44.00		E	18s	2.38um					
MEMM		41.86	86 (P)	40 28.19	0.5	SSE	49.75	271 Pc	41 28.00	-2.4				epP	43 02.00	46kmX			
BQNR		42.07	86 eP	40 30.54	0.7			1.4s	75.00nm	5.5mb		WMO	60.67	304 P	42 58.00	8.5X			
PKEM		42.14	89 (P)	40 33.39	3.4X		Z	20s	1.80um	5.1MsZ			1.0s	14.00nm	5.0mb				
MTUM		42.28	86 eP	40 32.18	0.7		N	20s	1.90um			Z	24s	3.71um	5.4MsZx				
TNP		42.67	85 eP	40 35.28	0.7				sP	41 47.00		N	17s	3.71um					
		0.8s	24.76nm	5.0mb		BTO	50.38	288 iPd	41 35.00	-0.2				pP	43 02.50	15kmX			
			isP	40 51.95			N	15s	0.74um					sP	43 07.00				
KUMJ		42.77	265 eP	40 37.00	1.8		E	16s	2.95um			BAG	60.85	259 ePc	42 49.00	-2.0			
PTI		42.81	76 eP	40 36.46	0.8				pP	41 46.00	38km			eS	51 07.00				
			epP	40 45.82	31km	TUC	50.41	86 eP	41 34.69	-0.9				iPc	42 59.20	0.2			
			esP	40 53.89				1.1s	49.69nm	5.4mb		GVA	62.04	278 iPc					
HVU		43.19	77 eP	40 38.77	0.0		Z	19s	1.72um	5.1MsZ			1.0s	120.00nm	6.0mb				
			e	40 56.20					e	41 51.88		Z	32s	2.14um	5.1MsZx				
ISA		43.41	88 eP	40 38.31	-2.2	NJ2	50.55	274 Pd	41 36.00	-0.5		N	20s	3.02um					
		1.0s	28.45nm	5.0mb			Z	24s	2.19um	5.1MsZx		E	20s	2.61um					
	Z	20s	3.23um	5.2MsZ			N	13s	0.67um					pP	43 14.00	54kmX			
KAGJ		43.65	263 eP	40 43.10	0.7		E	15s	0.90um			RSNY	62.74	52 eP	43 01.21	-2.1			
TPNV		43.98	85 eP	40 45.28	0.1	TIY	50.76	284 iPc	41 39.00	0.8			0.6s	7.10nm	5.0mb				
		0.6s	22.12nm	5.1mb				1.0s	120.00nm	5.8mb		Z	19s	3.38um	5.5MsZ				
			epP	40 52.76	25km		Z	24s	7.83um	5.6MsZx		MCWV	63.55	59 P	43 20.00	11.4X			
			e	40 59.12			N	25s	6.09um			Z	20s	1.98um	5.3MsZ				
DUG		44.10	79 eP	40 46.63	0.5				sP	41 56.00		CBM	64.00	47 eP	43 09.47	-2.1			
		1.0s	52.94nm	5.3mb		DAG	51.06	7 eP	41 38.00	-1.8			0.4s	12.73nm	5.4mb				
			epP	40 56.32	32km			1.5s	30.56nm	5.0mb		Z	21s	2.47um	5.4MsZ				
			esP	41 03.31		ALQ	51.33	80 eP	41 42.18	-0.5		NAV	64.73	61 iPc	43 15.60	-0.8			
DL2		44.39	279 P	40 48.00	-0.3			1.3s	45.48nm	5.3mb		BLA	65.01	61 eP	43 17.63	-0.6			
		1.0s	180.00nm	5.9mb			Z	21s	2.18um	5.1MsZ			0.8s	68.09nm	5.8mb				
	Z	35s	3.01um	5.0MsZx					epP	41 53.47	39km			epP	43 26.36	28km			
	N	17s	2.39um																

	1.5s	270.00nm	6.1mb X		N 20s	1.00um		WB2	83.42	226 eP	45 02.80	-1.8
Z	24s	3.60um	5.5MsZ		E 20s	0.80um			0.8s	11.90nm		5.1mb
N	17s	1.60um				e	45 22.20	WRA	83.43	226 P	45 04.70	0.1
E	17s	1.60um				e	00 20.00		0.8s	1.60nm		4.2mb
		pP	43 30.50	24km	SPC	78.62	349 e(P)		83.43	2 eP	45 03.90	-0.5
		sP	43 37.00		DOU	78.66	360 P		0.9s	11.45nm		5.0mb
CVL	65.51	59 ePc	43 20.59	-0.7	CTA	78.68	216 iPc	44 39.50 -0.1	Z	21s	1.55um	5.4MsZ
OIZ	65.52	270 P	43 24.00	2.3			i	45 56.00	BNI	83.68	358 P	45 09.00 3.1X
HRV	65.70	52 P	43 30.00	7.5X			eS	54 33.00	RMQ	83.72	211 iPd	45 07.00 1.0
	Z 20s	2.86um	5.5MsZ		MTN	78.80	232 eP	44 40.00 -0.4		1.1s	55.00nm	5.6mb
CBN	65.92	59 eP	43 24.00	0.0	GRF	78.88	355 eP	44 40.40 0.0	CAF	83.82	1 eP	45 05.50 -0.9
LMN	66.31	45 eP	43 27.50	1.1		Z 20s	0.90um	5.1MsZ		1.1s	17.60nm	5.1mb
JSC	66.69	64 eP	43 27.69	-1.2	WLF	79.08	359 P	44 45.00 3.6X	KAS	83.83	338 eP	45 09.00 2.4
CEH	66.70	61 ePc	43 28.04	-1.0			i	49 32.85	BOB	83.88	356 P	45 07.00 0.2
	0.7s	74.31nm	5.9mb		KHC	79.29	354 eP	44 42.50 -0.2	LPO	84.05	2 eP	45 06.30 -1.2
LHS	66.79	64 eP	43 28.57	-1.0		Z 1.1s	4.20nm	4.3mb		0.9s	11.80nm	5.1mb
NUR	67.00	349 eP	43 29.70	-0.8		Z 24s	2.70um	5.5MsZ	BDI	84.53	355 P	45 12.00 1.9
	0.2s	1.80nm	4.8mb		N 24s	1.40um			SFI	84.60	354 P	45 13.50 3.2X
NB2	67.54	356 P	43 32.40	-1.6	E 22s	1.50um			PGD	84.65	354 P	45 14.50 3.7X
	0.6s	2.60nm	4.5mb			e	45 08.50		FIR	84.77	355 eP	45 12.00 0.8
SGS	67.91	64 iPd	43 36.86	0.2		e	45 40.00		PII	84.87	355 P	45 12.50 0.9
HFS	68.33	355 eP	43 36.70	-2.1		e	45 56.50		ARV	84.94	353 P	45 14.50 2.4
	0.4s	4.40nm	4.8mb			e	46 20.00		CDR	85.07	359 eP	45 01.40 -11.3X
Z	23s	2921.00um	8.4MsZ		MAIO	79.89	317 iPc	44 45.80 -0.4		i	45 02.10	
		LR	07 00.00			eS	55 15.00		ASS	85.39	354 P	45 14.50 0.1
UPP	68.33	353 iP	43 38.00	-0.8	FLN	79.92	3 eP	44 44.30 -1.7	SKO	85.56	347 eP	45 15.50 0.3
SWI	68.55	239 iPc	43 40.50	-0.3		Z 0.7s	9.25nm	4.9mb		1.1s	63.00nm	5.7mb
KSH	69.79	338 P	43 58.90	10.6X		Z 22s	1.35um	5.2MsZ		Z 19s	1.72um	5.5MsZ
	1.0s	40.00nm			ZST	79.93	351 eP	44 46.80 0.7		i	45 49.50	
	Z 24s	5.50um	5.7MsZ			e	45 19.80		HYB	85.76	293 ePc	45 16.00 -0.6
N	16s	3.45um			LDF	80.10	3 eP	44 45.20 -1.8		1.2s	121.40nm	6.0mb
E	16s	2.97um				0.6s	7.75nm	4.9mb	VAY	86.04	346 eP	45 20.50 3.0
		eS	52 47.00		GRR	80.28	3 eP	44 46.30 -1.6	AQU	86.05	353 P	45 18.00 0.3
		sS	53 06.00			0.8s	11.30nm	4.9mb	KNT	86.14	346 eP	45 18.36 0.2
OBN	70.25	341 eP	43 48.00	-2.6	CDF	80.31	358 eP	44 47.70 -0.5	GRG	86.42	346 eP	45 34.32 14.8X
	Z 16s	2.90um	5.6MsZ		SNQ	80.32	269 eP	44 50.00 1.4	OHR	86.49	347 eP	45 26.70 6.8X
N	16s	2.30um			LPF	80.63	3 eP	44 48.40 -1.4	ARMA	86.51	208 eP	45 21.20 1.3
E	16s	0.90um				0.7s	10.35nm	4.9mb		1.0s	22.00nm	5.3mb
		iPcP	44 04.00		HAU	80.73	358 eP	44 49.80 -0.6		eP	45 38.10	60kmX
		e	44 41.00			1.0s	12.80nm	4.9mb	SDI	86.66	353 P	45 17.50 -3.2X
		i	45 09.00			Z 22s	0.98um	5.1MsZ	ASPA	86.88	225 iPd	45 22.30 0.5
		ePP	46 25.00		BSF	80.90	358 eP	44 50.70 -0.7		0.9s	20.50nm	5.4mb
		ePPP	48 26.00			1.0s	9.60nm	4.7mb		Z 22s	1.50um	5.4MsZ
		(S)	53 20.00		VRI	80.93	344 eP	44 45.00 -6.5X	CMS	89.30	212 eP	45 34.10 1.0
		eSS	58 00.00		WTTA	81.28	355 iPc	44 53.60 0.1		0.6s	4.00nm	4.9mb
		eSSS	01 36.00			1.2s	10.20nm	4.7mb	GBA	89.44	291 P	45 33.00 -1.3
PMO	70.71	151 iPc	44 04.40	10.5X			i	45 18.90	CSS	90.02	336 eP	45 39.50 2.7
	1.7s	632.30nm			CFR	81.35	343 eP	44 50.00 -3.6X	STK	91.11	215 eP	45 42.10 0.6
TPT	70.78	151 iPc	44 04.90	10.6X	KBA	81.35	354 iPd	44 53.60 -0.3		1.4s	6.20nm	4.8mb
	1.8s	694.00nm				1.1s	30.90nm	5.2mb		e	45 59.90	
VAH	71.01	151 iPc	44 06.10	10.4X			iP	45 06.70 4.4kmX	TOV	92.26	71 eP	45 48.80 1.4
	1.6s	572.10nm			MLR	81.43	345 eP	44 59.00 4.8X	SDV	92.47	73 eP	45 49.40 0.8
RUV	71.04	151 iPc	44 06.40	10.5X	LOR	81.49	0 eP	44 54.10 -0.2	TIC	121.45	11 PKP	51 29.96 -1.0
	1.9s	962.20nm				0.6s	4.80nm	4.7mb	KIC	121.76	10 PKP	51 30.64 -0.9
LOE	71.79	275 eP	43 59.50	-1.1		Z 21s	1.40um	5.3MsZ		0.8s	13.00nm	
CHTO	72.46	278 iPc	43 54.00	-10.5X	QUE	81.63	309 eP	44 56.40 0.8	LIC	121.86	11 PKP	51 30.86 -0.9
	0.9s	23.44nm					eS	55 24.30	BCAO	122.80	343 iPKPc	51 32.50 -1.1
AFR	72.57	154 iPc	44 15.20	10.2X	ISR	81.68	344 eP	45 00.00 4.6X		0.8s	14.00nm	
	1.3s	326.40nm			SSF	81.70	0 eP	44 55.20 -0.2		i	51 57.00	
EKA	73.25	4 Pd	44 08.00	-0.5		0.7s	7.95nm	4.8mb	BAO	125.39	69 ePKP	51 38.40 -0.3
	1.2s	17.70nm	4.9mb		LBF	81.77	0 eP	44 55.40 -0.5		e	51 53.00	
GUN	73.38	294 P	44 10.00	-0.2		0.7s	4.95nm	4.6mb		i	52 01.90	
KKN	73.81	294 P	44 12.40	-0.2	CMP	81.80	345 ePc	44 56.00 0.0	MTD	138.91	318 iPKPc	52 04.00 -0.2X
PKI	73.91	294 P	44 12.80	-0.4	FVI	81.88	354 P	45 02.00 5.7X	SPA	141.43	180 ePKP	52 04.20 -3.2
GKN	74.01	295 P	44 13.30	-0.3	AVF	81.97	0 eP	44 56.50 -0.3		1.0s	31.50nm	
DMN	74.05	294 P	44 13.60	-0.4		0.7s	7.40nm	4.8mb	BUL	143.15	319 iPKPd	52 02.00 -9.8X
DMU	74.45	7 eP	44 18.10	2.5	RBL	81.97	353 P	45 01.00 4.1X		1.0s	15.00nm	
DZM	74.98	197 iPc	44 19.90	0.9	IPM	82.07	267 ePc	44 58.20 0.3	MAW	147.75	218 ePKP	52 22.00 4.3X
DCN	74.98	7 eP	44 16.20	-2.4	MFF	82.09	3 eP	44 56.30 -1.2		1.0s	41.67nm	
KHT	75.73	276 iPc	44 23.60	0.2		0.8s	13.95nm	5.0mb	SLR	148.24	315 iPKPc	52 22.70 2.7X
WIT	75.92	358 eP	44 26.00	2.1	SMF	82.11	0 eP	44 57.10 -0.5		0.9s	147.06nm	
CLL	77.16	354 e(P)	44 30.00	-0.9		0.5s	6.40nm	4.9mb		Z 18s	2.75um	6.1MsZ
		e	45 03.00		BGF	82.20	1 eP	44 57.50 -0.5		i	53 33.00	
KSP	77.38	352 eP	44 36.00	3.8X		0.8s	6.05nm	4.7mb	WIN	149.27	336 iPKPc	52 26.00 4.2X
BRG	77.53	354 e(P)	44 31.00	-2.0	PTJ	82.31	352 eP	44 57.10 -1.7		0.6s	56.67nm	
		e	44 58.00		TCF	82.46	1 eP	44 58.80 -0.6		S.D. = 1.2	on 219 of 275 obs.	
NDI	77.58	301 iPc	44 32.00	-1.6		0.8s	5.65nm	4.7mb				
OJC	77.65	350 eP	44 40.90	7.2X	LSF	82.49	2 eP	44 58.90 -0.6				
		e	45 26.50			0.8s	14.25nm	5.1mb				
MOX	77.91	355 eP	44 35.00	0.0	CTI	82.49	355 P	45 07.00 7.3X				
	Z 21s	1.00um	5.1MsZ		MAF	82.53	1 eP	44 59.40 -0.4				
		e	45 00.50			0.8s	8.20nm	4.8mb				
ENN	77.98	359 eP	44 35.00	-0.4	KGM	82.64	264 eP	45 01.50 0.7				
	0.8s	13.10nm	5.0mb		VBY	82.77	352 iPd	45 03.80 2.8				
SNF	78.24	360 P	44 46.60	9.8X			e	45 26.20	GELF	0.03	165 Pg	44 57.03 -0.3
PRU	78.37	353 eP	44 37.30	-0.3	VAI	82.81	357 P	45 10.00 8.9X	TREF	0.22	353 Pg	44 59.43 -0.6
	Z 20s	1.90um	5.4MsZ		BRS	83.33	208 iP	45 05.00 1.0	BERF	0.22	116 Pg	45 00.27 0.1

FEB 12, 1993 22h 44m 55.32±0.87s
 43.408 N ± 5.5km 5.418 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.5 (STR).

12d 22h

PUYF 0.24 59 Pg 44 59.21 -1.2
 PRAF 0.44 336 Pg 45 04.62 0.4
 TAVF 0.51 66 Pg 45 04.85 -0.8
 GANF 0.69 31 Pg 45 08.97 0.0
 CALN 1.12 72 Pg 45 17.36 0.9
 TOUF 1.46 65 Pg 45 22.00 0.1
 Sg 45 42.50
 AURF 1.47 70 Pg 45 22.84 0.9
 SBF 1.53 72 Pn 45 23.82 1.0
 Sg 45 44.08
 AUTN 1.57 67 Pn 45 23.95 0.4
 SAOF 1.65 69 Pn 45 24.32 -0.2
 PGF 2.77 107 Pn 45 39.79 -0.8

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

% FEB 12, 1993 23h 16m 03.47 ± 3.31s
 32.873 S ± 17.4km 70.937 W ± 10.3km
 DEPTH = 65.2 ± 29.4 km
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.1 (SAN).

ROCH 0.12 212 iPd 16 13.65 -0.1
 iS 16 21.82
 PEL 0.34 142 iPd 16 14.78 0.1
 iS 16 23.65
 JACH 0.35 57 iP 16 14.84 0.1
 iS 16 23.96
 FCH 0.71 130 iPd 16 18.51 -0.2
 iS 16 30.94
 TACH 0.78 180 iP 16 19.33 0.1
 iS 16 30.91
 LCCH 0.80 221 iP 16 19.49 0.0
 iS 16 32.40
 PCH 0.83 155 iP 16 19.81 -0.1
 iS 16 32.72
 CHCH 1.08 167 iP 16 23.26 0.1
 iS 16 38.45
 LNV 1.15 200 iP 16 23.81 -0.1
 iS 16 39.92

S.D. = 0.2 on 9 of 9 obs.

FEB 12, 1993 23h 38m 17.58 ± 0.34s
 1.767 S ± 5.4km 81.114 W ± 7.3km
 DEPTH = 33.0km (normal)
 4.6mb (12 obs.)
 OFF COAST OF ECUADOR (104)

PSO 4.79 52 eP 39 30.00 0.3
 BOG 9.48 48 eP 40 36.00 0.7
 eS 42 30.00
 UPA 10.79 8 iPd 40 52.15 -0.8
 NNA 11.00 158 eP 40 54.00 -1.9
 0.4s 21.19nm 5.7mb X
 Z 18s 3.78um 3.9msz
 eS 43 01.00
 SDV 14.87 44 eP 41 48.70 1.2
 TOV 16.09 44 eP 42 01.20 -1.9
 ARE 17.41 148 eP 42 22.00 2.0
 ZOBO 19.28 139 P 42 42.90 -0.4
 1.2s 62.50nm 4.7mb
 S 46 28.00
 LR 49 44.00
 LPB 19.48 140 P 42 46.70 1.3
 Z 16s 10.91um
 S 46 36.00
 LR 51 18.00
 CNCB 19.76 140 iPc 42 49.00 0.5
 CCH 21.38 137 P 43 05.00 0.0
 TPP 22.96 58 eP 43 23.81 3.5X
 TRN 23.17 57 eP 43 25.90 3.6X
 YJA 25.33 144 e(P) 43 44.50 0.8
 MDZ 33.03 161 eP 44 52.80 0.6
 TCA 33.30 154 ePc 44 54.50 -0.1
 UYO 37.88 342 iPc 45 37.20 3.8X
 OLY 38.32 346 eP 45 38.55 1.5
 VAO 39.27 125 eP 45 43.60 -1.7
 ELC 39.58 350 eP 45 48.95 1.4
 MEO 39.88 337 iPd 45 53.40 3.3X
 WMOK 39.92 337 eP 45 49.90 -0.5
 0.9s 6.70nm 4.4mb
 FVM 40.48 349 eP 45 54.72 -0.2
 0.8s 17.06nm 4.8mb
 ACO 41.78 338 iPc 46 09.10 3.4X
 ALO 43.56 329 eP 46 20.38 -0.1
 0.8s 4.88nm 4.3mb
 TUC 44.02 323 eP 46 24.37 0.3
 0.8s 2.44nm 4.1mb

RSNY 46.48 6 eP 46 46.23 2.8
 1.1s 20.67nm 5.0mb
 EEO 48.24 2 eP 47 02.00 -4.8X
 MSU 49.25 328 (P) 47 05.93 0.5
 LMN 49.56 15 eP 47 12.00 4.6X
 RSSD 50.08 339 eP 47 11.38 -0.2
 0.8s 7.17nm 4.7mb
 DAU 50.19 330 eP 47 11.90 -0.8
 BW06 51.22 333 eP 47 18.41 -1.9
 1.0s 5.23nm 4.5mb
 HVU 51.98 330 (P) 47 26.71 0.7
 BONR 52.36 323 eP 47 28.53 -0.6
 ULM 53.34 348 eP 47 36.00 0.2
 LCCM 54.65 334 eP 47 45.40 -0.4
 ORV 55.31 322 eP 47 49.55 -0.9
 LBFM 56.65 324 eP 47 58.51 -1.8
 LGPM 56.94 323 eP 48 02.95 0.6
 SES 57.93 338 ePc 48 08.80 -0.2
 LON 60.08 329 eP 48 24.35 0.4
 FCC 61.22 352 eP 48 31.50 0.1
 MCW 61.87 330 eP 48 37.18 1.1
 YKA 68.91 344 eP 49 17.70 -3.3X
 1.0s 4.20nm 4.5mb
 LIC 76.37 83 P 50 04.86 -1.1
 TIC 76.40 83 P 50 05.12 -1.1
 KIC 76.66 83 P 50 06.58 -1.1
 RES 76.79 356 eP 50 08.00 0.8
 EKA 84.60 34 P 50 54.00 5.1X
 1.1s 4.90nm 4.6mb
 EPF 84.95 47 eP 50 50.60 -0.3
 1.4s 13.50nm 5.0mb
 LFF 85.47 45 eP 50 52.90 -0.5
 1.6s 29.25nm 5.2mb
 CAF 86.40 45 eP 50 57.40 -0.7
 SMF 87.80 43 eP 51 00.20 -4.6X
 WRA 139.08 236 PKP 57 48.00 4.3X
 0.8s 0.90nm
 LZH 145.54 353 ePKP 57 53.00 -1.8
 1.5s 89.00nm
 pP 58 02.50
 sP 58 07.50
 i 58 20.00
 GKN 150.57 26 PKP 58 04.50 1.6
 KKN 151.03 25 PKP 58 07.40 3.7X
 DMN 151.11 26 PKP 58 07.60 3.7X
 GUN 151.18 24 PKP 58 08.00 3.9X
 PKI 151.28 26 PKP 58 08.20 4.0X
 HYB 154.68 51 ePKP 58 10.00 1.2

S.D. = 1.1 on 47 of 62 obs.

* FEB 12, 1993 23h 54m 53.54 ± 0.80s
 6.811 N ± 13.6km 72.950 W ± 13.9km
 DEPTH = 175.6 ± 8.1 km
 4.1mb (1 obs.)
 NORTHERN COLOMBIA (99)

BOG 2.44 207 eP 55 36.00 -0.1
 eS 56 08.00
 SDV 3.09 48 iPnc 55 44.40 0.7
 iSn 56 22.10
 TOV 4.30 46 ePn 55 59.80 0.7
 CEOS 5.08 64 iP 56 08.70 -0.5
 MORO 6.10 48 eP 56 22.50 -0.3
 GUAC 6.54 59 iP 56 28.70 0.0
 OLLA 6.87 62 iP 56 32.10 -0.8
 YKA 63.33 340 eP 05 05.30 -0.4
 0.6s 1.90nm 4.1mb
 LIC 67.43 86 P 05 33.00 0.2
 KIC 67.71 86 P 05 34.90 0.4

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

* FEB 13, 1993 00h 06m 55.80 ± 1.39s
 14.912 N ± 4.2km 60.479 W ± 22.4km
 DEPTH = 59.7 ± 20.5 km
 WINDWARD ISLANDS (95)
 MD 3.8 (TRN). Felt (11) on
 Mortinique.

CRM 0.45 250 iPc 07 07.40 0.1
 MVM 0.54 229 iPc 07 08.48 0.2
 FDF 0.67 255 iPc 07 09.60 -0.2
 S 07 19.20
 BIM 0.69 236 iPc 07 10.15 0.1
 S 07 20.30
 DPMT 0.94 292 eP 07 20.41 7.3X
 SLW 0.99 207 eP 07 13.86 0.0
 eS 07 26.88

SLB 1.21 207 eP 07 16.94 0.1
 eS 07 30.92
 MGG 1.29 321 ePd 07 17.70 -0.1
 DEG 1.50 338 iPd 07 20.80 -0.1
 DOG 1.56 316 eP 07 21.67 -0.1
 SVV 1.74 204 eP 07 24.55 0.4
 eS 07 46.17
 SEG 1.78 326 eP 07 25.30 0.6
 SVB 1.79 205 eP 07 25.30 0.4
 eS 07 46.06
 FCV 1.90 203 eP 07 26.61 0.3
 eS 07 48.18
 GRW 2.97 203 eP 07 41.29 -0.3
 eS 08 15.50
 TRN 4.33 192 eP 08 00.27 -0.4

S.D. = 0.3 on 15 of 16 obs.

* FEB 13, 1993 00h 16m 57.36s
 34.272 N 116.452 W
 DEPTH = 0.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.7 (PAS).

PEC 0.70 237 eP 17 10.68 -0.7
 eLg 17 20.08
 PLM 0.98 201 eP 17 15.09 -1.9
 SSK 1.03 267 ePn 17 16.50 -1.4
 eSg 17 31.08
 GSC 1.07 344 ePn 17 17.45 -1.0
 eSg 17 33.71
 GLA 1.82 131 ePn 17 27.96 -2.3
 ePg 17 31.42
 ISA 2.16 310 (Pn) 17 35.40 0.2
 ePg 17 37.41
 TPNV 2.68 3 (Pn) 17 43.21 0.6
 ePg 17 48.88
 TNP 3.85 351 (P) 18 06.52 7.1
 BONR 3.97 338 ePg 18 12.61 11.5
 MSU 5.46 38 (Pg) 18 31.01 8.8
 10 obs. associated

FEB 13, 1993 00h 19m 51.55 ± 0.22s
 2.657 N ± 3.9km 79.861 W ± 3.9km
 DEPTH = 33.0km (normal)
 5.1mb (48 obs.) 4.9msz (1 obs.)
 SOUTH OF PANAMA (83)
 MD 4.6 (UPA).

PSO 2.92 120 iPc 20 35.00 -2.1
 BOG 6.10 71 eP 21 22.50 0.3
 eS 22 36.00
 UPA 6.29 3 ePc 21 23.17 -1.3
 iS 22 32.25
 ECO 6.67 1 ePc 21 28.52 -1.3
 eS 22 41.90
 BMG 8.06 57 eP 21 34.00 -15.4X
 SDV 11.07 56 eP 22 28.50 -2.4
 TOV 12.26 54 eP 22 44.80 -2.0
 CEOS 13.09 61 iP 22 52.00 -6.0X
 NNA 14.85 168 eP 23 19.50 -1.6
 0.6s 16.67nm 4.6mb
 eS 25 55.70
 LLAV 15.11 58 iP 23 14.20 -10.3X
 TCE 19.67 65 eP 24 23.87 2.9X
 TPP 19.80 67 eP 24 22.85 0.6
 TRN 19.97 66 eP 24 22.91 -1.1
 TBH 20.21 67 eP 24 26.95 0.3
 ARE 20.72 157 eP 24 33.00 0.8
 SVB 21.21 59 eP 24 37.29 0.4
 SVV 21.26 59 eP 24 36.49 -0.9
 SLB 21.66 58 eP 24 43.69 2.3
 SLW 21.84 58 eP 24 45.79 2.6
 BIM 21.97 56 eP 24 46.20 1.6
 FDF 22.02 56 eP 24 46.30 1.3
 ZOBO 22.11 149 Pc 24 45.00 -1.6
 MVM 22.14 57 eP 24 49.20 3.0X
 CRM 22.22 56 eP 24 48.40 1.4
 LPB 22.33 149 P 24 48.20 -0.3
 CNCB 22.62 149 P 24 50.90 -0.7
 CCH 24.08 146 eP 25 06.00 0.5
 SIV 26.24 136 eP 25 28.00 2.4
 JSC 31.49 358 eP 26 11.60 -0.9
 UYO 34.18 338 iPc 26 35.50 -0.5
 MIAR 34.20 340 eP 26 34.84 -1.4
 1.0s 10.96nm 4.7mb
 OLY 34.41 343 eP 26 36.23 -1.8
 ELC 35.52 347 ePd 26 45.67 -1.8

BAO	36.39	121	eP	26	54.80	-0.4	MFF	81.01	43	eP	32	04.50	-0.1	PKI	146.76	24	PKP	39	30.80	-0.4
			e	27	10.90			0.8s	12.65nm				5.0mb	HYB	150.82	46	ePKP	39	35.00	-2.4
WMOK	36.45	333	ePd	26	54.31	-1.1	EPF	81.03	47	eP	32	05.10	0.2	GBA	152.28	54	PKPd	39	46.00	6.5X
	0.8s	10.13nm			4.8mb			1.1s	16.85nm				5.0mb	S.D. = 0.9 on 139 of 150 obs.						
FVM	36.47	346	ePc	26	54.23	-1.2	LDF	81.22	41	eP	32	05.60	-0.1	FEB 13, 1993 00h 43m 00.50± 0.18s						
	0.8s	31.57nm			5.3mb			1.1s	46.65nm				5.4mb	6.658 N ± 3.2km 126.860 E ± 5.0km						
TCA	36.80	158	ePc	26	58.50	0.1	LFF	81.47	45	eP	32	07.00	0.0	DEPTH = 22.2km (14 depth phases)						
MDZ	36.85	164	eP	26	45.50	-13.3X	LPO	81.77	45	eP	32	08.60	0.0	5.1mb (37 obs.) 4.8Msz (17 obs.)						
ACO	38.26	335	iPc	27	10.20	-0.4		1.3s	38.25nm				5.3mb	MINDANAO, PHILIPPINE ISLANDS (259)						
ALO	40.53	326	ePd	27	31.20	1.6	RJF	82.05	45	eP	32	09.90	-0.2	Mw 5.3 (HRV)						
	0.8s	26.64nm			5.0mb			1.5s	36.55nm				5.2mb	CENTROID, MOMENT TENSOR (HRV)						
VAO	40.97	130	eP	27	34.50	1.2	LSF	82.13	44	eP	32	10.20	-0.3	Data Used: GDSN						
RSNY	41.98	6	eP	27	41.38	0.2	CAF	82.41	45	eP	32	11.90	-0.1	L.P.B.: 32S, 44C						
	1.0s	23.75nm			4.9mb			1.5s	36.05nm				5.2mb	Centroid Location:						
GLD	43.51	331	eP	27	55.16	1.2	TCF	82.60	44	eP	32	12.60	-0.4	Origin Time 00:43: 8.5 0.5						
	1.2s	38.04nm			5.0mb			1.0s	11.00nm				4.9mb	Lat 6.57N 0.07 Lon 127.38E 0.07						
GOL	43.54	331	eP	27	55.02	0.7	MAF	82.85	44	eP	32	14.00	-0.2	Dep 24.8 2.9 Half-duration 1.1						
	1.0s	18.72nm			4.8mb			1.2s	21.40nm				5.1mb	Moment Tensor; Scale 10**16 Nm						
PV10	44.44	327	ePd	28	01.64	0.1	BGF	83.06	44	eP	32	15.10	-0.2	Mrr= 9.38 0.46 Mtt=-0.39 0.64						
PV09	44.58	327	eP	28	03.56	0.8	AVF	83.42	43	eP	32	16.60	-0.5	Mff=-8.99 0.64 Mrt= 3.03 1.13						
		ePcP	29	45.70				1.1s	14.15nm				5.0mb	Mrf= 0.73 1.29 Mtf=-3.98 0.55						
LMN	45.00	15	eP	28	09.00	3.4X	SSF	83.54	43	eP	32	17.10	-0.6	Principal Axes:						
CBM	45.27	11	ePd	28	08.10	0.4		1.3s	20.95nm				5.1mb	T Vol= 10.25 Plg=73 Azm= 5						
	0.9s	21.54nm			5.1mb		SMF	83.75	44	eP	32	18.50	-0.3	N 0.46 16 204						
SRU	45.78	326	ePd	28	12.47	0.3		1.1s	15.65nm				5.1mb	P -10.71 5 113						
MSU	46.30	325	ePd	28	16.90	0.6	LOR	83.79	43	eP	32	18.50	-0.5	Best Double Couple: Mo=1.0*10**17						
EMUT	46.43	327	eP	28	18.41	1.0		0.7s	6.05nm				4.9mb	NP1: Strike=186 Dip=42 Slip= 66						
ARUT	46.57	323	eP	28	19.66	1.3	LBF	83.86	43	eP	32	18.60	-0.8	NP2: 37 52 110						
DAU	47.09	327	ePd	28	22.85	0.2	DOU	84.41	40	Pc	32	22.30	0.3	DAV	1.35	289	iPd	43	30.30	6.3X
GSC	47.19	318	eP	28	24.17	0.9		1.0s	30.50nm				5.4mb	MNI	5.56	201	eP	44	30.00	6.0X
		ePcP	29	54.58			VITF	85.26	42	P	32	26.46	0.1	SWI	8.67	149	ePc	45	05.50	-2.1
TPNV	47.80	320	(P)	28	28.54	0.4	ENN	85.28	39	eP	32	27.00	0.7				eS	46	38.00	
	0.6s	2.07nm			4.3mb			1.0s	24.00nm				5.4mb	OCP	9.75	325	eP	45	28.00	5.4X
		ePcP	29	56.88			WLF	85.40	41	iPc	32	27.98	1.0	KKM	10.60	267	ePd	45	42.00	7.7X
DUG	47.80	326	eP	28	28.74	0.7	LRG	85.44	47	eP	32	27.60	0.3	BAG	11.48	328	ePc	45	51.20	4.8X
	0.6s	2.98nm			4.5mb			1.0s	19.40nm				5.3mb				eS	48	06.00	
HVU	48.87	327	ePc	28	36.34	0.0	HAU	85.50	42	eP	32	27.40	-0.2	KHKI	18.67	217	eP	47	20.60	1.3
ULM	49.33	346	eP	28	40.00	0.5		0.7s	7.05nm				5.0mb				e	50	29.00	
BONR	49.71	320	eP	28	44.02	1.0	LMR	85.55	47	eP	32	28.00	0.2	GUMO	19.01	67	eP	47	34.10	10.6X
		ePcP	30	04.02			FRF	85.65	47	eP	32	28.60	0.2		Z	23s	1.36um			
LCCM	51.31	332	eP	28	38.00	-16.9X		1.3s	33.95nm				5.4mb	HKC	19.80	323	eP	47	38.00	5.6X
		e	28	55.20			LPL	85.73	45	eP	32	29.80	0.8			S	51	29.00		
		e	29	08.40				1.0s	9.00nm				4.9mb	OZH	19.83	337	eP	47	31.00	-1.8
ORV	52.67	320	eP	29	06.09	1.0	LPG	85.74	45	eP	32	30.00	0.8		Z	20s	2.74um			
SES	54.38	336	eP	29	17.00	-0.5		1.4s	27.00nm				5.3mb			S	51	04.00		
NEW	55.56	331	eP	29	25.32	-0.8	BSF	85.80	42	P	32	29.04	-0.1	QIZ	20.62	308	eP	47	42.00	0.8
	1.0s	14.64nm			5.0mb		WIT	85.80	37	eP	32	30.50	1.7		N	16s	1.92um			
DPW	55.84	330	eP	29	27.85	-0.3	EMS	85.87	44	ePc	32	30.20	0.5		E	17s	1.82um			
		ePcP	30	26.17			MOF	86.03	42	P	32	30.12	-0.1	GZH	20.88	323	P	47	42.00	-1.8
LON	57.02	327	eP	29	36.04	-0.6	ECH	86.05	42	P	32	30.46	0.2		Z	20s	10.40um			5.2Msz
		ePcP	30	30.61			CDF	86.13	42	P	32	30.67	-0.1	KGM	23.92	260	eP	48	24.00	10.1X
FCC	57.05	351	ePc	29	37.00	0.5	WLS	86.18	42	P	32	31.04	0.1	SSE	24.89	348	eP	48	03.00	-20.1X
GMW	58.04	327	eP	29	42.61	-1.1	DIX	86.21	44	ePc	32	32.40	1.0		Z	20s	2.30um			4.7Msz
MCW	58.74	328	eP	29	48.06	-0.6	BBS	86.28	43	P	32	31.64	0.2		N	12s	0.50um			
YKA	65.05	343	eP	30	28.40	-2.2	LIBD	86.34	42	P	32	31.71	0.0		E	10s	0.20um			
	0.8s	6.00nm			4.7mb		LANF	86.48	41	P	32	32.83	0.5			S	52	50.00		
RES	72.50	356	eP	31	16.00	-0.5	SRBF	86.51	41	P	32	33.12	0.7			sS	53	06.00		
	1.0s	4.00nm			4.4mb		MMK	86.59	44	ePd	32	34.50	1.2	SSE	24.89	348	eP	48	23.00	-0.1
LIC	74.65	84	P	31	28.90	-1.2	FEL	86.62	42	P	32	33.18	0.0		Z	20s	2.30um			4.7Msz
TIC	74.65	84	P	31	28.80	-1.4	ZLA	86.87	43	ePc	32	34.50	0.1		N	12s	0.50um			
	0.9s	22.50nm			5.1mb		TNS	86.89	40	ePc	32	35.00	0.6		E	10s	0.20um			
KIC	74.93	84	Pd	31	30.66	-1.1	SLE	86.94	42	ePc	32	34.90	0.2	PMG	25.76	128	eP	48	41.00	9.4X
	0.9s	34.00nm			5.4mb		TMA	87.22	44	ePd	32	36.60	0.3	IPM	25.79	267	ePd	48	33.10	1.2
EMON	75.52	46	eP	31	34.00	-0.7	LLS	87.30	43	ePd	32	37.70	1.1		0.6s	19.00nm				4.9mb
EPLA	75.90	49	eP	31	37.00	0.1	VDL	87.63	44	ePc	32	39.00	0.8	NJ2	26.35	345	eP	48	38.50	1.7
PAB	77.15	50	eP	31	43.00	-1.0	OSS	88.09	44	ePc	32	41.00	0.6		Z	20s	1.18um			4.4Msz
GUD	77.44	49	eP	31	46.00	0.4	NB2	88.22	29	P	32	40.80	0.3		N	15s	0.93um			
ECOG	77.49	53	iPd	31	46.20	0.3		0.9s	16.40nm				5.3mb			S	53	05.00		
DCN	77.52	36	eP	31	44.90	-0.6	GRF	88.70	41	ePd	32	43.80	0.8							
	0.8s	63.00nm			5.7mb			1.6s	38.00nm				5.5mb	WHN	26.51	335	eP	48	39.00	0.7
DMU	77.85	35	eP	31	47.30	-0.1		Z	22s	0.50um			4.9Msz		Z	18s	2.42um			4.8Msz
DLF	77.95	36	eP	31	48.00	0.1	MOX	88.90	40	iPc	32	45.00	1.0		N	18s	2.78um			
EHUE	78.32	52	eP	31	50.50	0.1		1.4s	17.00nm											

13d 00h

	1.0s	40.00nm	5.2mb	ARMA	43.85	149 eP	51	07.70	0.6	NEW	101.86	38 ePdiff56	54.09	0.3
	Z 20s	3.10um	4.9Msz		1.0s	31.00nm			5.1mb		1.0s	7.00nm		5.2mb
	N 18s	1.40um		GUN	44.17	304 P	51	10.20	0.1			eP	57	01.50
	E 18s	2.30um		PKI	44.44	303 P	51	11.80	-0.5	MSU	109.24	45 ePKP	01	30.98 -0.2
					0.9s	34.00nm			5.2mb	PV10	111.50	44 ePKP	01	35.95 0.4
				KKN	44.63	303 P	51	13.40	-0.2			ipPKP	01	43.88
					1.0s	60.00nm			5.4mb	GOL	113.34	42 ePKP	01	38.18 -0.8
CHTO	29.73	297 eP	49 11.00 17km	DMN	44.71	303 P	51	14.00	-0.3			ipPKP	01	47.05
ASPA	30.91	167 eP	49 06.90 -0.8		1.0s	62.00nm			5.5mb	WMOK	120.44	43 ePKP	01	51.43 -1.0
	0.8s	11.50nm	4.8mb	GKN	45.23	303 P	51	18.00	-0.4			ipPKP	01	59.76
				BWA	45.66	155 eP	51	23.10	1.6	KIC	130.00	284 PKP	02	10.60 -0.7
CHJJ	31.30	19 P	49 20.00 -1.3			ipP	51	28.80	19km			e	05	29.00
MAT	31.50	18 eP	49 22.00 -1.1			e	51	40.30		MDZ	150.09	153 ePKP	02	52.30 5.8X
	0.8s	27.61nm	5.2mb	BFD	46.01	163 iPd	51	23.10	1.6	TCA	153.21	158 iPKP	02	59.00 7.9X
Z 20s	1.77um	4.7Msz			0.9s	48.00nm			5.4mb	SDV	156.71	49 ePKP	03	04.50 8.1X
				CAN	46.67	155 eP	51	29.80	0.3	CNCB	162.33	126 PKP	03	08.00 5.1X
CD2	32.42	321 Pc	49 30.60 -0.6			ipP	51	35.90	20km	LPB	162.38	125 ePKP	03	04.00 1.2
	0.8s	26.00nm	5.2mb			i	51	47.30		ZOBO	162.48	124 PKP	03	04.00 0.8
Z 20s	1.87um	4.8Msz		DZM	48.16	127 iPc	51	40.90	-0.5		Z 24s	0.25um		
N 15s	1.32um			HYB	48.31	287 ePd	51	43.00	0.4			LR	03	00.00
WARB	32.65	180 eP	49 33.30 0.2	GBA	49.07	282 Pd	51	48.00	-0.4	SIV	167.90	141 PKP	03	12.00 5.0X
	0.4s	18.00nm	5.4mb	IRK	49.11	342 eP	52	07.20	19.0X		S.D. = 1.0	on 100 of 121 obs.		
					1.6s	26.00nm								
CTA	32.72	145 P	49 35.29 1.4		Z 20s	0.89um			4.8Msz					
YAMJ	33.57	19 P	49 41.50 0.4		N 20s	0.89um								
TIY	33.58	339 eP	49 40.00 -1.3			e	52	36.80	128kmX					
	Z 19s	2.21um	4.9Msz			LR	13	40.00						
N 19s	1.78um			WMO	50.44	324 Pc	51	58.50	-0.1					
MEEK	34.05	193 eP	49 45.00 -0.4		1.5s	32.00nm			5.1mb					
BJI	34.59	345 eP	49 49.00 -0.9		Z 20s	0.43um			4.5Msz					
	1.0s	11.00nm	4.7mb		N 18s	1.29um								
	Z 20s	0.90um	4.5Msz			pP	52	07.50	30km					
N 16s	0.58um					sP	52	11.50						
						PP	53	51.00						
OFUJ	34.94	20 P	49 53.60 0.8			ScP	57	16.00						
SNY	35.14	356 eP	49 54.20 -0.3			eS	59	12.00						
	Z 26s	1.22um	4.5MszX	TAU	52.72	161 eP	52	14.00	-1.8					
LZH	36.09	327 eP	50 02.50 -0.4	KSH	56.07	314 P	52	41.70	1.1					
	1.5s	67.00nm	5.3mb		1.0s	50.00nm			5.5mb					
Z 23s	2.10um	4.8MszX			Z 20s	1.87um			5.2Msz					
E 18s	1.27um				E 16s	1.35um								
				QUE	60.74	301 eP	53	13.00	-0.4					
HHC	36.69	340 P	50 07.50 -0.3	MAIO	67.87	306 iPc	53	59.00	-0.7					
	1.0s	14.00nm	4.8mb	KDC	79.41	33 eP	55	07.01	0.7					
Z 20s	2.24um	4.9Msz			1.0s	38.55nm			5.4mb					
N 20s	1.72um					eP	55	14.81	25km					
				IMA	79.67	24 eP	55	07.63	-0.2					
BTO	37.00	338 eP	50 10.50 0.1		0.6s	5.13nm			4.7mb					
	N 15s	0.74um				eP	55	15.56	25km					
E 16s	0.53um			CRP	79.86	29 eP	55	08.05	-0.9					
CN2	37.02	358 eP	50 13.00 2.7	SLKM	80.75	30 eP	55	12.54	-1.0					
	Z 20s	0.73um	4.5Msz	PMR	81.33	29 eP	55	15.59	-0.9					
MRWA	37.17	196 eP	50 12.30 0.5		1.1s	41.12nm			5.4mb					
	0.5s	12.00nm	5.0mb			eP	55	23.39	25km					
FORT	37.24	178 eP	50 12.00 -0.3	FBA	82.04	25 eP	55	19.47	-0.6					
MRRJ	37.78	17 eP	50 17.30 0.6		0.6s	4.68nm			4.7mb					
MDJ	37.89	3 eP	50 19.00 1.4	KLU	82.87	29 eP	55	24.70	0.1					
	1.2s	29.00nm	5.0mb	BALM	84.61	29 eP	55	33.95	0.5					
BAL	38.31	194 iPc	50 21.70 0.3			ipP	55	41.62	24km					
	0.5s	25.00nm	5.3mb	OBN	84.74	325 iPc	55	33.50	-0.6					
HOOJ	38.44	20 eP	50 24.70 2.4		1.2s	57.00nm			5.7mb					
KLB	39.02	192 iPc	50 27.60 0.3	HMDT	87.62	302 eP	55	47.80	-1.0					
	0.9s	70.00nm	5.4mb	JVI	87.80	302 eP	55	49.90	0.2					
RMO	39.20	148 eP	50 29.00 0.1	RMN	88.58	300 eP	55	53.30	-0.3					
				KAF	89.08	332 eP	55	54.50	-0.6					
KUSJ	39.56	21 eP	50 33.20 1.6		0.6s	4.00nm			4.9mb					
MUN	39.74	194 eP	50 34.00 0.7	NUR	90.22	331 eP	55	59.20	-1.2					
	0.7s	44.00nm	5.3mb		0.9s	11.40nm			5.1mb					
ASAJ	39.79	18 eP	50 35.40 1.8	SLL	95.54	333 ePKP	56	22.50	-2.5					
LSA	40.66	309 Pc	50 43.00 1.5		0.5s	2.50nm			4.9mb					
	Z 20s	1.50um	4.8Msz	NB2	96.24	334 P	56	25.70	-2.5					
N 18s	1.78um				1.0s	3.80nm			4.8mb					
GTA	40.69	327 P	50 41.50 0.3	VAY	96.25	313 eP	56	27.00	-1.6					
	1.0s	33.00nm	5.0mb	YKA	96.79	24 eP	56	29.80	-0.8					
Z 18s	3.14um	5.2Msz			0.8s	3.40nm			4.9mb					
E 18s	1.36um			KSP	97.60	323 eP	56	34.00	-0.5					
STK	40.82	161 iPc	50 42.10 -0.1	GMW	98.59	40 eP	56	39.80	0.8					
	0.5s	13.00nm	4.9mb	PRU	98.95	323 eP	56	40.00	-0.6					
				BRG	98.97	324 eP	56	48.60	7.9X					
CMS	42.04	155 eP	50 52.00 -0.2	CLL	99.35	324 e(P)	56	46.00	3.6X					
	1.0s	19.00nm	4.8mb	KHC	99.85	322 eP	56	44.50	-0.3					
RKG	42.05	192 eP	50 54.00 1.8			e	56	53.60	28km					
BRS	42.12	145 iPc	50 52.50 -0.5			e	57	21.40						
	0.7s	6.00nm	4.4mb			e	56	37.30	-7.7X					
				GEC2	99.88	322 P	56	43.50	19km					
						e	56	48.90						
ADE	42.88	166 e(P)	51 00.00 0.9			e	56	48.90						

& FEB 13, 1993 00h 47m 31.71s

34.028 N 116.317 W

DEPTH = 0.8km

SOUTHERN CALIFORNIA (43)

<PAS>P>. ML 2.6 (PAS).

PEC 0.71 259 eP 47 45.02 -1.0

PLM 0.81 214 ePd 47 47.12 -0.8

SSK 1.16 279 ePn 47 53.36 -0.9

GSC 1.33 343 ePn 47 55.86 -1.4

GLA 1.58 128 ePn 47 59.22 -1.8

ISA 2.41 313 ePn 48 10.24 -2.8

TPNV 2.91 1 (Pn) 48 19.59 -0.7

7 obs. associated

? FEB 13, 1993 01h 20m 14.59± 1.03s

15.447 N ±16.7km 119.212 E ±17.7km

DEPTH = 33.0km (normal)

4.4mb (3 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BAG 1.63 54 iPd 20 41.50 0.0

OCP 1.97 114 eP 20 53.00 6.7X

WB2 38.19 157 eP 27 33.10 0.0

KAF 77.84 331 eP 32 10.70 0.6

NB2 85.05 332 P 32 47.50 -0.6

S.D. = 0.8 on 4 of 5 obs.

FEB 13, 1993 02h 25m 49.77± 0.38s

8.331 N ± 6.0km 39.308 E ± 4.4km

DEPTH = 12.4km (3 depth phases)

5.0mb (35 obs.) 4.9Msz (14 obs.)

ETHIOPIA (558)

Mw 5.3 (HRV). Some injuries and

damage in the Nazret area. Felt

at Addis Ababa and Debre Zeyit.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 22S, 33C

Centroid Location:

Origin Time 02:25:49.7 1.1

Lot 7.75N 0.10 Lon 39.06E 0.06

Dep 15.0 FIX Half-duration 1.2

Moment Tensor: Scale 10**17 Nm

Mrr=-0.27 0.04 Mtt= 0.08 0.05

Mff= 0.19 0.06 Mrt= 0.34 0.15

Mrf= 0.41 0.17 Mtf= 1.05 0.05

Principal Axes:

T Val= 1.36 P1g=18 Azm=313

N -0.45 71 147

P -0.92 4 45

Best Double Couple:Mo=1.1*10**17

NP1:Strike= 90 Dip=74 Slip= 10

NP2: 357 80 164

NAI 9.86 195 ePn 28 28.00 13.4X

iSn 29 53.50

			I Sg	30 48.00		e	34 32.00	67kmX	ECRI	50.09 320 eP	34 48.70	2.0
DHJN	10.13	23	eP	28 18.00	-0.3	e	35 13.50		GUD	50.21 317 eP	34 48.50	0.8
KMTA	10.37	19	eP	28 21.33	-0.3	e	36 30.00		MFF	50.87 326 eP	34 52.40	0.0
ABHA	10.41	18	eP	28 20.67	-1.5	e	54 42.00		EPLA	51.27 316 eP	34 56.00	0.3
AFIF	16.11	13	eP	29 39.33	1.5	Sg	55 02.00		LDF	52.04 328 eP	35 00.10	-1.2
RYD	17.73	22	eP	29 59.00	0.9	BNI	46.19 328 P	34 10.00 -6.3X		1.1 s	12.70nm	4.8mb
MUMA	18.33	17	eP	30 08.67	3.0X	MMK	46.22 330 ePd	34 16.90 0.2	LPF	52.20 327 eP	35 01.80	-0.7
DHR	20.63	29	iPc	30 31.80	0.2	FUR	46.23 334 eP	34 16.70 0.2	GRR	52.31 327 eP	35 02.30	-1.0
AYN	20.67	352	iPc	30 32.67	0.6	LLS	46.30 331 ePd	34 17.50 0.2		1.1 s	13.45nm	4.8mb
BCAO	21.00	261	iPc	30 37.00	1.4	WET	46.33 336 eP	34 16.90 -0.4	FLN	52.33 328 eP	35 02.30	-1.2
	0.7 s		36.00nm		4.9mb	PRU	46.37 338 eP	34 16.50 -1.0	Z	21 s	0.75um	4.7Msz
							e	36 06.00 619kmX	LSA	52.92 59 Pc	35 09.00	0.2
MBH	21.73	350	eP	30 44.20	1.2	KSP	46.47 340 ePc	34 18.20 -0.1		1.4 s	19.00nm	4.8mb
HLW	22.68	342	eP	30 53.00	0.7	LPL	46.47 329 eP	34 18.30 -0.4	NUR	53.22 351 iP	35 12.40	2.5X
			eS	35 11.00			1.1 s	23.70nm		0.5 s	3.80nm	4.6mb
SDOM	22.93	351	eP	30 56.70	2.0	DIX	46.52 330 ePd	34 19.30 0.2	MUD	53.50 340 iP	35 13.00	1.0
LISJ	23.07	352	P	31 03.50	7.4X	OBN	46.69 358 eP	34 19.00 -0.9		1.2 s	66.00nm	5.5mb
MASJ	23.52	352	P	31 19.50	18.9X	Z	18 s	1.40um	KAF	54.52 353 eP	35 21.60	2.2
SHI	24.57	29	eP	31 11.00	0.1	N	20 s	1.10um		1.2 s	22.50nm	5.1mb
BHL	25.67	353	P	31 24.00	2.7X	E	18 s	1.70um	WMO	54.90 41 P	35 22.50	-0.2
			S	36 18.00			i	34 24.00 17km		1.5 s	32.00nm	5.1mb
MTD	26.09	197	iPc	31 26.30	1.0		e	34 37.00	Z	24 s	2.06um	5.1MsZx
			i	31 38.00	46kmX		e	35 14.00	N	18 s	0.78um	
				39 32.20			ePP	36 14.00		sP		35 36.00
			iLg	39 46.00			ePPP	37 00.00		eS		43 10.00
BUL	30.19	200	iP	32 02.00	-0.5		eS	41 20.00	HFS	55.16 345 eP	35 26.50	2.3
MAIO	33.37	30	eP	32 31.00	0.9		eSS	44 52.00		0.6 s	1.60nm	4.2mb
			i	33 41.00	367kmX		LO	47 40.00	Z	15 s	0.57um	4.8MsZx
			eS	38 04.00			LR	51 50.00				57 08.00
QUE	33.79	46	eP	32 36.70	2.7X	EMS	46.75 329 ePd	34 20.40 -0.4	NB2	56.59 344 P	35 37.20	2.7X
			eS	38 06.10		GKN	46.97 59 P	34 22.20 -0.6		0.7 s	5.30nm	4.7mb
SLR	35.52	197	e(P)	32 55.00	6.2X	SLE	47.19 332 ePd	34 23.60 -0.4	EKA	57.64 333 P	35 41.00	-0.9
VAY	36.05	338	eP	32 57.00	4.1X	DMN	47.27 60 P	34 24.80 -0.5		1.0 s	7.90nm	4.7mb
OHR	36.55	336	eP	33 15.50	18.3X	BRG	47.32 338 iP	34 24.50 -0.5	GTA	62.07 50 eP	36 12.50	-0.4
SKO	37.04	338	eP	33 02.00	0.8		1.6 s	26.00nm		1.2 s	20.00nm	5.2mb
Z	20 s		1.87um		4.9MsZ		i	34 27.50 10km	Z	16 s	1.43um	5.2MsZx
				33 45.00	200kmX	GRF	47.43 335 iPc	34 25.80 -0.2	E	15 s	0.82um	
WIN	37.63	215	eP	33 10.50	3.8X		1.3 s	26.00nm		64.59 54 eP	36 29.50	-0.1
	1.5 s		69.44nm		5.2mb	Z	21 s	0.90um	LZH	1.6 s	25.00nm	5.1mb
			e	45 52.00			e	34 29.00 11km	GYA	66.09 65 P	36 38.40	-0.9
GBA	37.77	79	P	33 08.00	0.4	KKN	47.46 60 P	34 26.20 -0.6	Z	40 s	1.02um	4.7MsZx
CFR	37.97	347	eP	33 01.00	-7.9X		0.9 s	26.00nm	XAN	68.50 57 eP	37 00.00	5.6X
MLR	38.78	345	eP	33 21.50	5.5X	PKI	47.52 60 P	34 26.40 -0.9	BTO	69.99 50 eP	37 04.00	0.6
CMP	38.81	344	ePc	33 07.00	-9.2X	GUN	48.01 60 P	34 30.60 -0.6	N	17 s	1.03um	
VRI	38.94	346	eP	33 21.00	3.8X		1.2 s	71.00nm	E	17 s	0.75um	
HYB	39.24	73	eP	33 19.00	-1.1	CLL	48.02 338 iP	34 29.30 -1.2		eS	46 20.00	
			eS	39 24.00			1.3 s	16.00nm	HHC	71.18 50 eP	37 12.00	1.3
BZS	40.16	341	eP	33 27.00	-0.3	MOX	48.02 337 iP	34 30.60 0.0		1.2 s	16.00nm	5.0mb
NDI	41.00	55	eP	33 35.00	0.6		1.4 s	15.00nm	Z	30 s	1.09um	4.9MsZx
PTJ	42.48	336	eP	33 47.30	0.9	Z	18 s	0.60um	TIY	71.61 53 eP	37 10.00	-3.3X
BUD	42.66	340	e(P)	33 47.00	-0.8		e	35 00.00 127kmX		1.45um		5.3MsZ
PSZ	42.75	341	eP	33 48.90	0.3	BSF	48.04 331 eP	34 29.90 -1.0	N	17 s	0.97um	
SRO	43.19	339	eP	33 56.00	3.9X		1.0 s	13.80nm	BJI	74.64 51 eP	37 13.00	-17.9X
KIC	43.72	271	P	34 02.60	5.8X	CDF	48.22 332 eP	34 31.20 -1.0	Z	20 s	0.66um	4.9MsZ
SPC	43.76	342	eP	33 57.40	0.5		1.0 s	7.60nm		eS	47 08.00	
RBL	43.91	334	P	34 01.00	3.0X	ECOG	48.29 313 eP	34 30.00 -3.0		eSS	52 12.00	
ZST	43.95	339	eP	33 58.80	0.6	HAU	48.38 331 eP	34 32.30 -1.0	BJI	74.64 51 eP	37 33.00	2.1
VKA	44.29	338	eP	34 00.00	-1.0		0.8 s	8.85nm	Z	20 s	0.66um	4.9MsZ
FVI	44.37	334	P	33 59.00	-2.6		Z	19 s		eS	47 08.00	
CTI	44.46	333	P	34 03.50	1.0	EGRA	48.49 321 eP	34 32.00 -2.3	YAK	82.90 28 eP	38 15.00	-0.4
KBA	44.51	335	iPc	34 03.60	0.6	CAF	48.63 325 eP	34 36.00 0.6	Z	18 s	1.70um	5.5MsZ
			i	34 26.90	99kmX		1.1 s	15.65nm	N	20 s	1.00um	
OJC	44.80	342	eP	34 05.00	-0.1	SMF	48.73 328 eP	34 35.30 -0.8	E	16 s	1.50um	
KSH	45.12	41	eP	34 13.00	5.0X	LBF	48.88 328 eP	34 36.40 -0.9	YKA	106.57 348 ePKP	44 26.20	10.3X
	Z	20 s			5.4MsZ		1.0 s	7.20nm		1.0 s	0.80nm	
	N	14 s				ETOR	48.90 318 eP	34 39.00 1.4	S.D. = 1.0 on 99 of 125 obs.			
	E	14 s				LPO	48.99 324 eP	34 38.70 0.6	? FEB 13, 1993 02h 39m 06.46±1.29s			
			sP	34 16.00			1.3 s	24.90nm	40.185 N ± 9.5km 29.109 E ±10.3km			
			ePcP	35 48.00		AVF	49.08 328 eP	34 38.10 -0.6	DEPTH = 5.0km (geophysicist)			
			S	40 48.00		LOR	49.12 329 eP	34 38.20 -0.9	TURKEY (366)			
			sS	40 53.00			1.3 s	11.20nm	MD 2.6 (ISK).			
			eScS	44 02.00		Z	22 s	0.80um	4.7MsZ			
BHG	45.21	335	eP	34 09.00	0.6	MAF	49.14 327 eP	34 39.60 0.3	YLV	0.43 28 iPg	39 15.10	0.0
WTTA	45.39	334	iPd	34 10.80	0.8	RJF	49.17 325 eP	34 39.70 0.3		eSg	39 21.00	
	1.1 s		21.60nm		5.0mb		1.2 s	18.45nm	KCT	0.58 277 iPg	39 17.90	-0.2
GEC2	45.77	337	Pc	34 12.80	-0.1		Z	20 s		iSg	39 26.40	
	1.0 s		5.88nm		4.5mb	SSF	49.17 328 eP	34 38.60 -0.9	DST	0.69 213 iPg	39 20.20	0.0
			e	34 20.70	26kmX	BGF	49.20 327 eP	34 39.40 -0.3		iSg	39 29.20	
CDR	45.77	326	e(P)c	34 13.10	0.2	EPUR	49.37 312 eP	34 37.00 -4.2X	EDC	0.97 280 ePn	39 25.50	0.2
TMA	45.81	331	ePc	34 13.70	0.3	TCF	49.38 327 eP	34 41.40 0.3	S.D. = 0.3 on 4 of 4 obs.			
ORO	45.91	329	P	34 13.00	-1.1		1.4 s	19.15nm	* FEB 13, 1993 02h 44m 17.63±0.67s			
KHC	46.04	337	P	34 15.10	0.1	LFF	49.39 324 eP	34 41.90 0.7	11.416 N ±11.4km 125.241 E ±16.9km			
	1.1 s		8.40nm		4.6mb		1.3 s	43.30nm	DEPTH = 33.0km (normal)			
	Z	18 s	1.60um		5.0MsZ	LSF	49.73 326 eP	34 44.00 0.2	4.5mb (9 obs.) 4.1MsZ (2 obs.)			
	N	18 s	2.00um			ELIZ	49.76 321 eP	34 46.00 1.9	SAMAR, PHILIPPINE ISLANDS (251)			
	E	16 s	2.20um			PAB	49.84 316 eP	34 45.00 0.1				

13d 02h

SSE 19.94 350 Pc 48 51.00 1.3
1.0s 15.00nm 4.3mb
Z 20s 0.50um
N 14s 0.70um
NJ2 21.37 345 eP 49 06.00 1.6
Z 20s 0.30um 3.7msz
XAN 27.01 329 P 49 58.50 -0.1
0.6s 5.10nm 4.3mb
SNY 30.33 358 Pc 50 28.00 -0.3
Z 19s 1.02um 4.5msz
E 17s 1.21um
HHC 31.70 340 eP 50 40.00 -0.6
Z 16s 0.95um 4.6mszX
N 18s 1.01um
ASPA 35.88 166 iPd 51 17.70 1.0
0.2s 3.60nm 5.0mb
GUN 40.32 300 P 51 51.60 -2.7
0.8s 27.00nm 5.0mb
PKI 40.63 299 P 51 57.60 0.8
KKN 40.80 299 P 51 59.00 1.0
GKN 41.40 300 P 52 03.60 0.7
STK 45.81 160 eP 52 38.20 -0.1
0.5s 2.30nm 4.4mb
IMA 76.02 25 eP 56 03.05 -0.2
0.7s 1.67nm 4.1mb
KAF 84.15 332 eP 56 45.70 -0.8
0.7s 5.40nm 4.8mb
NUR 85.31 331 iP 56 52.00 -0.3
0.7s 6.00nm 4.9mb
YKA 93.12 24 eP 57 28.30 -1.1
1.1s 1.30nm 4.3mb
S.D. = 1.2 on 15 of 15 obs.

FEB 13, 1993 02h 53m 35.94±1.08s
43.533 N ±18.2km 143.709 E ±28.0km
DEPTH = 33.0km (normol)
4.5mb (6 obs.)

HOKKAIDO, JAPAN REGION (224)

MAT 8.16 213 eP 55 35.00 0.0
0.7s 4.79nm 4.7mb
(S) 56 53.00
FBA 42.74 36 ePc 01 32.60 1.4
0.9s 8.33nm 4.5mb
YKA 57.35 33 eP 03 21.20 -1.6
0.5s 0.30nm 3.6mb
KAF 63.36 332 eP 04 03.70 0.0
0.5s 2.30nm 4.6mb
NUR 65.06 332 eP 04 14.80 0.0
0.3s 3.90nm 5.0mb
NB2 68.87 337 P 04 39.10 0.1
0.5s 1.50nm 4.3mb
S.D. = 1.2 on 6 of 6 obs.

FEB 13, 1993 03h 09m 39.88±0.79s
31.701 S ±9.9km 69.942 W ±8.2km
DEPTH = 120.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

MD 4.0 (SAN).

RTBS 0.42 85 iPd 09 58.20 0.7
RTCB 1.00 78 iPd 10 02.20 -0.1
JACH 1.12 209 iP 10 03.76 0.2
IS 10 21.18
RTLL 1.31 74 iPc 10 05.80 0.2
CFA 1.46 87 ePc 10 07.70 0.5
S 10 26.00
MDZ 1.50 142 eP 10 08.60 0.9
IS 10 29.40
ROCH 1.56 215 iP+ 10 08.23 -0.4
IS 10 28.87
PEL 1.57 203 eP 10 08.65 0.1
IS 10 29.09
FCH 1.65 190 iP 10 10.54 0.7
IS 10 33.22
SAN 1.85 199 iP 10 12.14 0.2
IS 10 35.56
PCH 1.97 194 iPd 10 13.88 0.3
IS 10 39.81
TACH 2.12 203 iP 10 14.78 -0.6
IS 10 41.84
LCCH 2.24 217 iP 10 16.29 -0.6
CHCH 2.31 195 iP 10 18.86 1.1
IS 10 46.96
CACH 2.47 193 iP 10 20.49 0.5
IS 10 51.65

LNV 2.57 208 iP 10 19.80 -1.3
RTPR 3.26 66 ePd 10 30.40 0.1
S 11 08.00
RFA 3.30 158 ePc 10 30.00 -1.0
(S) 11 02.70
MRA 3.66 102 ePd 10 35.20 -0.5
TCA 4.58 87 iP 10 47.20 -1.1
(S) 11 37.00
S.D. = 0.7 on 20 of 20 obs.

% FEB 13, 1993 03h 27m 53.87±0.54s
40.143 N ±4.7km 29.210 E ±4.4km
DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

YLV 0.44 16 iPg 28 02.70 0.0
eSg 28 09.00
KCT 0.66 279 iPg 28 07.30 0.2
iSg 28 17.70
DST 0.70 220 iPg 28 07.20 -0.7
iSg 28 17.20
EYL 0.84 59 ePg 28 10.20 -0.4
eSg 28 22.70
GPA 0.85 80 ePn 28 11.00 0.2
ISK 0.93 353 ePn 28 11.70 -0.3
EDC 1.05 282 ePn 28 14.00 -0.1
CTT 1.17 330 iPn 28 16.70 0.6
KHL 1.83 172 ePn 28 27.00 0.6
S.D. = 0.5 on 9 of 9 obs.

% FEB 13, 1993 03h 31m 20.92±0.96s
40.089 N ±7.7km 29.225 E ±7.0km
DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

YLV 0.49 13 iPg 31 30.70 -0.1
DST 0.67 224 iPg 31 34.20 -0.1
iSg 31 43.20
KCT 0.68 284 ePg 31 34.30 -0.3
EYL 0.86 56 ePg 31 38.00 0.0
eSg 31 51.00
ISK 0.98 353 ePg 31 40.00 0.0
EDC 1.07 284 ePn 31 42.00 0.4
S.D. = 0.3 on 6 of 6 obs.

FEB 13, 1993 03h 42m 53.40±0.76s
34.430 N ±9.7km 24.809 E ±6.4km
DEPTH = 33.0km (normol)
3.7mb (8 obs.)

CRETE (370)

CIN 4.13 39 eP 43 56.00 0.3
ELL 4.76 59 ePn 44 05.80 1.1
KHL 5.44 43 ePn 44 13.00 -1.3
EZN 5.52 12 ePn 44 12.60 -2.8
BCK 5.58 56 ePn 44 15.00 -1.3
OUR 5.93 354 eP 44 22.68 1.5
LIT 5.95 343 iP 44 22.86 1.3
SOH 6.48 350 eP 44 28.68 -0.4
SRS 6.74 352 eP 44 35.36 2.7X
GRG 6.79 344 eP 44 35.40 2.1
KNT 6.89 348 eP 44 34.12 -0.5
VAY 7.10 346 eP 44 40.30 2.7X
SKO 7.98 342 eP 44 51.50 1.5
BGIO 9.04 105 iP 45 04.00 -0.7
DSI 9.32 105 eP 45 08.40 -0.1
SAGI 9.33 114 eP 45 09.40 0.7
eS 46 47.00
GEC2 16.60 334 Pn 46 46.20 1.1
SMF 20.00 314 eP 47 23.60 -2.3
0.7s 1.85nm 3.5mb
LBF 20.09 315 eP 47 24.80 -2.1
0.5s 2.05nm 3.7mb
LOR 20.31 315 eP 47 26.60 -2.5
BGF 20.56 313 eP 47 31.00 -0.7
0.5s 1.70nm 3.7mb
LPO 20.83 306 eP 47 34.80 0.3
0.9s 3.60nm 3.8mb
RJF 20.85 308 eP 47 34.70 0.0
0.6s 1.80nm 3.6mb
LFF 21.22 307 eP 47 39.40 1.0
1.0s 11.80nm 4.2mb
LSF 21.23 311 eP 47 38.80 0.2
DOU 21.55 323 P 47 41.30 -0.4
MFF 22.43 310 eP 47 51.20 0.7

0.6s 3.00nm 3.9mb
LDF 23.29 315 eP 47 59.60 0.7
FLN 23.58 315 eP 48 02.30 0.6
DMN 51.47 80 P 52 00.20 2.1
YKA 78.05 342 eP 54 50.00 0.1
0.4s 0.30nm 3.7mb
S.D. = 1.4 on 29 of 31 obs.

% FEB 13, 1993 04h 50m 26.64±0.65s
46.094 N ±5.8km 2.781 E ±5.4km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 1.9 (LDG).

MAF 0.20 311 Pg 50 31.20 0.2
Sg 50 34.50
BGF 0.47 6 Pg 50 36.00 -0.1
Sg 50 42.50
AVF 0.80 29 Pg 50 41.90 -0.3
Sg 50 52.30
LSF 0.88 281 Pg 50 43.40 -0.2
Sg 50 55.70
SMF 0.92 53 Pg 50 44.00 -0.2
Sg 50 56.20
SSF 1.09 27 Pg 50 47.10 0.0
Sg 51 01.20
LBF 1.21 42 Pg 50 49.50 0.2
Sg 51 05.30
CAF 1.27 204 Pg 50 50.30 0.0
Sg 51 06.40
LOR 1.39 32 Pg 50 51.40 0.3
Sg 51 10.40
S.D. = 0.3 on 5 of 5 obs.

? FEB 13, 1993 05h 30m 10.10±0.10s
18.802 N ±37.8km 80.021 E ±11.0km
DEPTH = 33.0km (normol)

DOMINICAN REPUBLIC REGION (001)

MGP 2.80 106 P 30 55.00 0.0
LRS 2.96 99 P 30 57.50 0.0
PORP 3.21 103 P 30 00.00 -0.1
S 30 01.00
SJG 3.65 100 iP 30 01.00 0.0
LPR 3.88 97 P 30 00.00 0.0
CPD 3.88 101 P 30 00.00 -0.1
MORO 8.04 169 iP 40 07.00 -0.1
TOV 8.96 179 eP 40 21.00 0.0
OLLA 9.24 160 iP 40 25.30 0.3
GUAN 9.72 154 iP 40 31.00 -0.5
CEOS 9.84 171 iP 40 33.00 0.4
SDV 9.88 184 eP 40 35.00 -0.3
S.D. = 0.7 on 12 of 12 obs.

% FEB 13, 1993 09h 50m 16.39±0.79s
40.666 N ±6.3km 22.983 E ±7.1km
DEPTH = 10.0km (geophysicist)

GREECE (364)

THE 0.04 202 iPg 50 17.32 -1.1
eSg 50 18.24
SOH 0.32 61 iPg 50 22.50 -0.6
eSg 50 28.12
KNT 0.50 353 ePg 50 26.42 -0.1
iSg 50 34.28
GRG 0.53 304 iPg 50 27.52 0.4
eSg 50 35.36
SRS 0.65 45 ePg 50 29.55 0.2
eSg 50 38.85
PAIG 0.91 144 ePg 50 34.92 1.1
S.D. = 1.0 on 6 of 6 obs.

% FEB 13, 1993 09h 50m 38.10±0.79s
40.672 N ±6.3km 22.980 E ±7.2km
DEPTH = 10.0km (geophysicist)

GREECE (364)

THE 0.04 196 ePg 50 39.20 -1.0
eSg 50 40.32
SOH 0.32 62 ePg 50 44.32 -0.5
eSg 50 49.73
KNT 0.49 353 iPg 50 48.68 0.6
eSg 50 56.56
GRG 0.52 303 ePg 50 48.72 0.0
iSg 50 57.04
SRS 0.64 46 ePg 50 50.58 -0.4
PAIG 0.92 144 ePg 50 56.84 1.2

S.D. = 1.0 on 6 of 6 obs.
 % FEB 13, 1993 09h 56m 43.89±0.84s
 39.230 N ± 7.3km 27.676 E ± 8.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.9 (ISK).

DST 0.83 63 ePn 57 00.00 0.1
 IZM 0.89 201 iPg 57 01.00 0.0
 EDC 1.12 27 ePn 57 05.00 0.0
 KCT 1.14 27 iPn 57 05.20 -0.1
 EZN 1.20 300 ePn 57 06.30 0.0
 S.D. = 0.1 on 5 of 5 obs.

& FEB 13, 1993 10h 08m 55.14s
 62.598 N 151.240 W
 DEPTH = 98.8km
 CENTRAL ALASKA (1)
 <AEIC>.

SKT 0.63 192 iP 09 11.95 -0.2
 HUR 0.83 62 iP 09 13.68 -0.3
 TRF 0.96 26 iP 09 15.05 -0.5
 PWA 1.15 145 P 09 17.30 -0.1
 SUA 1.16 168 eP 09 17.67 -0.1
 RND 1.36 52 iP 09 19.66 -0.4
 GH0 1.37 126 eP 09 20.25 0.1
 CRP 1.40 198 eP 09 19.91 -0.8
 CPAM 1.41 198 eP 09 20.67 -0.1
 PLRM 1.42 135 eP 09 20.26 -0.4
 PMR 1.42 135 eP 09 19.87 -0.7
 CP2 1.42 200 eP 09 20.65 -0.3
 BGL 1.45 203 eP 09 21.41 0.3
 CKN 1.45 198 eP 09 21.48 0.4
 SPU 1.47 196 eP 09 21.07 -0.4
 CKT 1.48 198 eP 09 21.36 -0.1
 CKL 1.50 201 eP 09 22.00 0.2
 MCK 1.55 42 eP 09 21.97 -0.4
 PMS 1.57 149 P 09 22.30 -0.4
 SML 1.58 119 eP 09 22.43 -0.3
 NKA 1.86 180 eP 09 28.74 2.4
 SCM 1.99 111 eP 09 27.40 -0.7
 PTE 2.03 148 eP 09 27.73 -0.9
 DFR 2.13 200 eP 09 30.06 0.1
 SLKM 2.15 166 eP 09 30.00 -0.2
 NCT 2.20 202 eP 09 30.90 0.0
 NEA 2.21 25 eP 09 29.73 -1.2
 TTA 2.22 281 P 09 31.10 -0.1
 REF 2.23 199 eP 09 32.63 1.2
 RDW 2.25 200 eP 09 31.16 -0.5
 RS2 2.26 199 eP 09 32.48 0.6
 RSO 2.26 199 eP 09 32.64 0.8
 MPA 2.30 156 eP 09 31.26 -0.9
 SVW 2.56 236 eP 09 34.99 -0.7
 CCB 2.57 35 eP 09 34.72 -1.0
 GLI 2.62 129 eP 09 35.12 -1.3
 SDG 2.64 89 eP 09 35.42 -1.3
 HDA 2.64 45 eP 09 35.77 -1.0
 SEW 2.65 160 eP 09 36.34 -0.5
 PAX 2.68 79 eP 09 37.99 0.6
 VZW 2.71 123 eP 09 36.37 -1.3
 MDM 2.72 28 eP 09 36.99 -0.9
 KLU 2.74 112 eP 09 36.56 -1.6
 VLZ 2.75 120 eP 09 36.25 -2.0
 TZL 2.77 99 eP 09 38.26 -0.3
 FBA 2.77 32 iPd 09 37.35 -1.2
 KNIM 2.81 142 eP 09 36.57 -2.5
 FID 2.93 127 eP 09 39.12 -1.6
 GLM 2.95 34 eP 09 40.12 -0.8
 LTI 3.04 146 eP 09 39.94 -2.2
 HIN 3.17 132 eP 09 42.20 -1.8
 CVA 3.34 126 eP 09 44.17 -2.0
 IMA 3.64 344 iPc 09 49.43 -1.1
 eSg 10 29.25

GLB 3.69 105 eP 09 49.56 -1.6
 MCNL 3.74 205 eP 09 52.29 0.5
 RAGM 3.85 122 eP 09 53.31 0.0
 CDD 3.86 199 eP 09 54.11 0.6
 TGL 4.41 111 eP 09 58.81 -2.3
 BALM 4.50 106 eP 10 00.12 -2.2
 YAH 5.07 112 eP 10 08.40 -2.0
 60 obs. associated

? FEB 13, 1993 10h 10m 55.94±0.98s
 39.003 N ± 11.4km 27.719 E ± 18.8km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.70 211 iPg 11 10.00 0.0
 DST 0.93 49 iPn 11 14.00 -0.1
 KCT 1.34 21 iPn 11 21.50 0.4
 EDC 1.35 5 ePn 11 21.00 -0.2
 S.D. = 0.5 on 4 of 4 obs.

* FEB 13, 1993 10h 12m 12.15±2.13s
 5.837 S ± 11.5km 154.433 E ± 20.3km
 DEPTH = 419.1 ± 21.1 km
 4.7mb (6 obs.)
 SOLOMON ISLANDS (193)

PMG 8.03 243 iPc 14 09.00 0.3
 CTA 16.24 209 iPc 15 39.00 0.2
 BRS 21.49 184 eP 16 31.00 0.8
 WB2 24.03 232 iPd 16 53.20 -0.4
 ASPA 26.55 226 iPc 17 15.00 -1.2
 WARB 33.36 230 eP 18 14.50 -0.7
 MAT 44.81 341 eP 19 48.00 -0.4
 GUN 74.05 301 P 23 06.80 0.8
 DMN 74.63 301 P 23 10.20 1.0
 FBA 82.25 21 eP 23 47.90 -0.9
 YKA 95.58 28 eP 24 51.50 -0.2
 GEC2 125.78 329 PKP 30 27.30 0.7
 BAO 149.20 134 (PKP) 31 15.00 5.3X
 S.D. = 0.9 on 12 of 13 obs.

FEB 13, 1993 10h 34m 28.92±0.42s
 38.629 N ± 6.4km 78.233 E ± 6.9km
 DEPTH = 28.2km (2 depth phases)
 4.5mb (10 obs.) 4.3Msz (1 obs.)
 SOUTHERN XINJIANG, CHINA (321)
 ML 4.4 (BJI).

KSH 1.94 296 iPg 35 01.30 0.6
 WMO 8.81 51 P 36 35.60 -1.9
 NDI 9.96 185 iPc 36 53.20 0.0
 GKN 11.87 151 P 37 18.60 -0.8
 KKN 12.31 149 P 37 24.20 -1.2
 DMN 12.40 150 P 37 25.80 -0.9
 GUN 12.45 147 P 37 27.20 -0.2
 QUE 12.55 231 eP 37 24.50 -4.1X
 PKI 12.56 149 P 37 27.80 -1.0
 LSA 13.90 126 P 37 51.40 4.6X
 MAIO 15.06 267 eP 37 57.00 -4.6X
 GTA 16.79 81 eP 38 23.00 -0.7
 LZH 20.50 89 eP 39 07.50 0.0
 HYB 21.14 179 ePc 39 14.60 0.6
 CD2 22.29 102 eP 39 27.00 1.6

IRK 22.66 45 ePc 39 34.20 5.3X
 BTO 24.50 75 eP 39 48.60 1.6
 GBA 24.93 182 P 39 52.00 0.8
 XAN 25.08 91 P 39 55.20 2.7
 HHC 25.64 74 eP 40 01.40 3.6X
 CHTO 26.71 132 eP 40 08.60 0.9
 GYA 26.75 109 P 40 13.00 4.8X
 TIY 26.82 81 eP 40 11.90 3.3X
 OBN 32.30 314 eP 40 56.00 -1.3
 MLR 38.84 297 ePd 41 58.50 5.2X
 NUR 39.61 321 eP 42 00.00 0.7
 UPF 43.05 320 iP 42 27.90 0.4
 NB2 46.22 322 P 42 50.80 -2.1
 GEC2 46.43 305 P 42 54.10 -0.7
 KHC 46.45 305 eP 43 02.00 7.1X
 LPG 51.91 302 eP 43 38.40 1.0
 LPL 51.92 302 eP 43 38.40 1.0
 AVF 53.70 305 eP 43 54.60 4.4X
 IMA 68.25 20 eP 45 29.31 0.4
 YKA 78.69 6 eP 46 28.10 -1.5
 S.D. = 1.2 on 25 of 35 obs.

FEB 13, 1993 10h 55m 56.15±0.19s
 14.926 S ± 6.6km 176.924 W ± 4.5km
 DEPTH = 33.0km (normal)
 5.7mb (56 obs.) 6.0Msz (52 obs.)
 FIJI ISLANDS REGION (181)
 Mw 6.2 (GS), 6.2 (HRV).
 Mo=3.2*10**18 Nm (PPT).
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 33 Dip=70 Slip= 150
 NP2: 134 62 23
 Principal Axes:
 T P1g=35 Azm=351
 P 5 85
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sto: 22 Focal mech. F
 Energy 1.7±0.3*10**13 Nm
 MOMENT TENSOR SOLUTION
 Dep 4 No. of sto: 26
 Moment Tensor; Scale 10**18 Nm
 Mrr= 0.27 Mtt= 1.59
 Mff=-1.86 Mrt= 0.85
 Mrf= 0.59 Mtf=-0.15
 Principal axes:
 T Vol= 2.01 P1g=27 Azm=358
 N 0.04 58 214
 P -2.05 16 96
 Best Double Couple: Mo=2.0*10**18
 NP1:Strike=139 Dip=59 Slip= 8
 NP2: 45 83 149
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 43S, **C M.W.: 35S, 69C
 Centroid Location:
 Origin Time 10:55:59.9 0.1
 Lat 14.84S 0.01 Lon 176.65W 0.01
 Dep 15.0 FIX Half-duration 2.8
 Moment Tensor; Scale 10**18 Nm
 Mrr=-0.40 0.01 Mtt= 1.89 0.01
 Mff=-1.48 0.01 Mrt= 0.53 0.05

13d 10h

Mrf= 0.36 0.04 Mtf=-0.51 0.01					1.5s 38.89nm 5.3mb					eSS 22 24.07				
Principal Axes:					Z 20s 3.55um 5.6Msz					eHSS 22 24.57				
T Val= 2.06 Plg=11 Azm= 7					SMY 67.82 354 P 07 00.30 7.5X					KVN 76.76 43 eP 07 45.90 -0.5				
N -0.35 68 249					Z 20s 20.62um 6.3Msz					TNP 76.84 44 eP 07 46.09 -0.8				
P -1.71 19 101					KAGJ 67.91 313 eP 06 57.10 3.2X					TPNV 76.93 46 eP 07 46.65 -0.7				
Best Double Couple:Ma=1.9*10**18					KUMJ 68.72 314 eP 06 57.10 -1.8					Z 18s 47.92nm 5.4mb				
NP1:Strike=143 Dip=68 Slip= -6					BAG 69.11 294 ePc 07 04.90 3.1X					HKC 76.96 298 eP 07 52.00 4.4X				
NP2: 235 84 -158					KKM 69.45 282 eP 07 07.00 3.2X					NJ2 77.18 308 Pc 07 48.80 0.2				
					YSS 71.50 332 (P) 07 16.43 1.0					Z 22s 2.43um 5.5Msz				
PVC 14.44 257 iP 59 25.40 5.1X					TATO 71.94 303 (P) 07 16.49 -2.1					N 15s 1.86um				
BKM 14.50 257 iPc 59 26.60 5.6X					SBC 73.23 47 (P) 07 24.94 -1.1					E 20s 3.64um				
DZM 17.29 243 iPc 59 58.90 2.0					PHAM 73.50 45 eP 07 27.25 -0.3					RSO 77.60 12 eP 07 50.00 -0.6				
					ARN 73.57 43 eP 07 27.69 -0.3					SVW 77.66 10 eP 07 49.63 -1.1				
SVO 23.45 282 iP 01 14.00 10.4X					KMPM 73.69 39 eP 07 29.76 1.1					Z 1.4s 79.86nm 5.6mb				
WLZ 23.79 195 eP 01 05.40 -1.4					PKEM 73.82 45 (P) 07 29.04 -0.4					BMW 77.84 35 eP 07 52.76 0.7				
PAE 26.38 100 iPd 01 32.50 1.1					HMR 73.84 42 (P) 07 29.62 0.2					GZH 77.96 298 eP 07 55.00 1.9				
					PAS 74.17 47 ePc 07 32.25 0.8					Z 33s 4.98um 5.6MszX				
PPT 2.1s 819.20nm 6.0mb					OZH 74.30 302 eP 07 33.00 0.6					E 13s 1.70um				
26.38 99 iPd 01 32.60 1.1					Z 27s 5.20um 5.7MszX					SLKM 78.18 13 eP 07 50.86 -2.7				
1.7s 494.10nm 5.8mb					N 16s 3.17um					SHW 78.23 35 eP 07 54.66 0.4				
TVO 26.69 100 iPd 01 35.40 1.0					SSK 74.54 48 (P) 07 33.19 -0.7					CP2 78.44 12 eP 07 53.91 -1.3				
1.8s 711.20nm 6.0mb					CMB 74.70 43 (P) 07 34.24 -0.3					DL2 78.44 316 P 07 56.00 0.6				
MRW 27.20 194 P 01 41.10 2.3X					1.5s 171.68nm 5.8mb					Z 1.5s 140.00nm 5.8mb				
SNZO 27.28 194 P 01 47.17 7.8X					Z 19s 5.43um 5.9Msz					N 17s 8.97um 5.5Msz				
					PLM 74.71 49 eP 07 33.80 -1.1					E 16s 4.41um				
QRZ 27.39 198 eP 01 37.00 -3.5X					ISA 74.73 46 eP 07 36.18 1.4					CRP 78.46 12 (P) 07 54.95 -0.3				
PMO 28.03 94 iPd 01 47.10 0.5					Z 20s 8.61um 6.0Msz					CN2 78.57 321 eP 07 56.00 0.0				
2.0s 762.70nm 6.0mb					WDC 74.76 40 eP 07 34.97 0.2					1.4s 27.00nm 5.1mb				
VAH 28.28 94 iPd 01 49.10 0.4					PEC 74.76 48 eP 07 33.97 -1.0					Z 22s 3.41um 5.6Msz				
2.1s 808.50nm 6.1mb					1.2s 60.65nm 5.5mb					N 13s 2.05um				
TPT 28.30 94 iPd 01 49.50 0.5					LGPm 74.77 40 ePc 07 34.71 -0.3					E 13s 1.00um				
1.9s 455.00nm 5.8mb					ORV 74.82 41 eP 07 34.33 -0.9					PP 11 00.00				
DSZ 28.45 198 eP 01 46.20 -4.0X					SSE 74.98 308 (P) 07 35.47 -0.7					eS 17 54.00				
RUV 28.52 94 iPd 01 51.40 0.5					Z 20s 69.00nm 5.3mb					SNY 78.66 319 Pd 07 57.40 0.9				
1.9s 489.20nm 5.9mb					N 14s 4.60um 5.8Msz					1.8s 250.00nm 5.9mb				
RAB 32.25 286 eP 02 24.00 0.0					E 14s 1.90um					Z 20s 6.08um 5.9Msz				
ARMA 32.72 236 iPd 02 27.40 -0.7					PFO 75.13 49 ePc 07 38.59 1.4					N 15s 3.88um				
					SPA 75.17 180 ePc 07 35.10 -1.9					E 16s 1.71um				
0.8s 44.00nm 5.4mb					Z 16s 2.59um 5.6MszX					SS 22 54.00				
RMQ 34.00 245 eP 02 38.50 -0.7					MEMM 75.38 44 eP 07 38.23 -0.6					VGB 78.66 37 eP 07 55.83 -0.7				
1.1s 84.00nm 5.6mb					MTUM 75.55 44 eP 07 38.92 -0.8					GMW 78.73 34 eP 07 56.63 -0.2				
CTAO 35.44 256 ePc 02 50.42 -1.2					LBFM 75.60 40 eP 07 39.81 -0.1					TUC 78.76 52 (P) 07 57.28 -0.1				
					GSC 75.72 47 eP 07 39.92 -0.6					1.8s 337.65nm 6.0mb				
CAN 36.67 230 eP 03 00.70 -1.1					MRCM 75.76 44 eP 07 39.82 -1.1					Z 20s 8.40um 6.1Msz				
e 03 07.20 0.3					BONR 76.05 44 eP 07 41.80 -0.8					e 08 01.62				
BWA 36.74 232 eP 02 59.80 -2.6					GLA 76.06 50 eP 07 41.80 -0.6					eS 17 53.93				
i 03 08.90 0.3					MDJ 76.61 324 (P) 07 46.12 1.0					ePS 18 38.63				
i 03 16.10 0.3					Z 28s 240.00nm 5.8mb					LON 78.79 35 ePc 07 58.20 0.9				
CMS 37.77 238 iPd 03 10.00 -1.1					N 14s 1.70um					PGC 79.05 33 eP 08 00.00 1.5				
0.7s 31.00nm 5.3mb					E 14s 1.90um					RMW 79.21 35 eP 07 58.52 -1.1				
TOO 40.17 229 eP 03 29.60 -1.5					PFO 75.13 49 ePc 07 38.59 1.4					ARUT 79.29 46 eP 07 59.26 -1.1				
HON 40.53 28 P 03 35.44 1.4					SPA 75.17 180 ePc 07 35.10 -1.9					e 08 03.52				
Z 20s 26.02um 6.1Msz					Z 16s 2.59um 5.6MszX					TTA 79.31 10 eP 07 59.37 -0.4				
S 09 56.99 0.9					MEMM 75.38 44 eP 07 38.23 -0.6					1.5s 126.18nm 5.7mb				
STK 41.36 239 iPc 03 40.10 -0.7					MTUM 75.55 44 eP 07 38.92 -0.8					PMR 79.39 13 eP 07 59.50 -0.6				
1.1s 14.60nm 4.6mb X					LBFM 75.60 40 eP 07 39.81 -0.1					Z 19s 149.52nm 5.8mb				
TAU 41.41 220 eP 03 45.00 4.0X					GSC 75.72 47 eP 07 39.92 -0.6					6.34um 6.0Msz				
e 05 48.00 0.5					MRCM 75.76 44 eP 07 39.82 -1.1					S 18 14.15				
e 09 54.00 0.5					BONR 76.05 44 eP 07 41.80 -0.8					MCW 79.39 33 eP 08 00.42 0.0				
BFD 42.20 231 eP 03 46.40 -1.2					GLA 76.06 50 eP 07 41.80 -0.6					QIZ 79.58 293 Pd 08 05.50 3.5X				
1.4s 105.00nm 5.4mb					MDJ 76.61 324 (P) 07 46.12 1.0					N 17s 2.26um				
ADE 44.47 235 eP 04 07.70 1.5					Z 28s 240.00nm 5.8mb					E 17s 1.06um				
WB2 46.63 257 eP 04 18.70 -4.8X					N 15s 4.63um					SIT 79.59 22 P 08 10.00 8.7X				
0.9s 11.80nm 4.9mb					E 15s 4.22um					Z 19s 18.65um 6.4Msz				
ASPA 47.03 251 iPc 04 24.90 -1.7					COR 76.66 36 Pc 07 50.10 4.6X					WHN 80.03 305 eP 08 06.00 1.8				
1.0s 56.20nm 5.5mb					Z 28s 240.00nm 5.8mb					Z 20s 4.38um 5.8Msz				
Z 22s 21.10um 6.1Msz					N 15s 4.63um					N 16s 4.00um				
GUMO 47.25 305 e(P) 04 19.00 -9.3X					E 15s 4.22um					iS 18 08.00				
					COR 76.66 36 Pc 07 50.10 4.6X					KLU 80.04 15 eP 08 03.96 0.2				
Z 30s 7.97um 5.5MszX					Z 28s 240.00nm 5.8mb					TIA 80.33 311 eP 08 04.50 -1.2				
e 04 36.50 0.4					N 15s 4.63um					Z 20s 4.85um 5.8Msz				
eS 11 22.30 0.4					E 15s 4.22um					N 14s 2.03um				
GUMO 47.25 305 (P) 04 27.93 -0.4					COR 76.66 36 Pc 07 50.10 4.6X					E 14s 1.33um				
Z 30s 7.97um 5.5MszX					Z 28s 240.00nm 5.8mb					sP 08 14.50				
ed 04 38.27 0.4					N 15s 4.63um					eS 18 10.00				
eS 11 22.30 0.4					E 15s 4.22um					ePd 08 06.59 -0.4				
DRV 58.93 199 eP 06 00.00 5.8X					COR 76.66 36 Pc 07 50.10 4.6X					i 08 10.76				
eP 06 00.00 5.8X					Z 28s 240.00nm 5.8mb					BALM 80.57 16 eP 08 05.83 -0.8				
PP 08 12.00 0.2					N 15s 4.63um					DUG 80.86 44 eP 08 07.67 -1.0				
S 14 24.00 0.2					E 15s 4.22um									
SS 18 27.00 0.2					COR 76.66 36 Pc 07 50.10 4.6X									
eP 06 09.00 -3.1					Z 28s 240.00nm 5.8mb									
0.9s 35.00nm 5.5mb					N 15s 4.63um									
MUN 62.76 242 eP 06 21.00 0.2					E 15s 4.22um									
Z 20s 11.80um 6.1Msz					COR 76.66 36 Pc 07 50.10 4.6X									
MAJO 66.42 322 Pc 06 42.74 -1.6					Z 28s 240.00nm 5.8mb									
					N 15s 4.63um									
eS 15 39.52 0.2					E 15s 4.22um									
eScS 16 15.44 0.2					COR 76.66 36 Pc 07 50.10 4.6X									
eSS 19 51.00 0.2					Z 28s 240.00nm 5.8mb									
MAT 66.42 322 (P) 06 41.00 -3.4X					N 15s 4.63um									
					E 15s 4.22um									

[illegible]

13d 11h

CDF	146.43	355	PKP	15	35.7	1.5	LSF	148.75	2	ePKP	15	40.60	2.7X	TIC	66.50	23	P	03	53.90	-0.5
GRR	146.48	5	ePKP	15	34.40	0.3		1.4s	145.05nm					BCAO	71.68	48	iPd	04	27.00	0.7
	1.7s	214.70nm					EMS	148.78	355	ePKPd	15	43.80	5.6X		0.9s	9.00nm	ic	05	02.50	4.8mb
KCT	146.49	324	ePKP	15	36.40	2.0	VAI	148.79	352	PKP	15	41.50	3.6X	ASPA	97.13	162	eP	06	36.70	0.6
AYN	146.58	300	ePKP	15	36.00	1.1	MAF	148.80	1	ePKP	15	41.20	3.3X	SRU	119.33	297	ePKP	11	51.93	-1.0
ECH	146.64	355	PKP	15	35.71	1.3		1.5s	135.30nm				MSU	119.65	296	iPKPc	11	53.21	-0.4	
VITF	146.72	356	PKP	15	36.69	2.1	AGO	148.97	360	PKP	15	42.20	4.0X	RSSD	120.34	305	ePKPc	11	53.13	-1.6
BEQ	146.76	337	ePKP	15	34.70	0.0	PLDF	149.05	359	PKP	15	42.02	3.6X	DUG	121.27	297	ePKP	11	56.26	-0.2
WAJH	146.80	295	ePKP	15	39.00	3.7X	GRG	149.10	331	ePKP	15	38.50	-0.1	BW06	121.76	301	ePKP	11	55.21	-2.3
LPF	146.82	5	ePKP	15	35.10	0.5	ORO	149.12	353	PKP	15	42.80	4.2X	ULM	121.91	315	ePKP	11	58.50	1.3
	1.3s	197.10nm					RSL	149.19	355	PKP	15	43.62	4.8X	LCCM	125.17	301	ePKP	12	04.90	1.0
KBA	146.82	347	iPKPd	15	35.90	0.9	PYM	149.27	0	PKP	15	42.24	3.5X	FCC	128.04	322	ePKP	12	10.50	1.8
	0.6s	9.00nm					LPL	149.35	355	ePKP	15	43.20	4.1X	BMW	131.00	295	ePKP	12	15.70	0.8
		i	15	40.30				1.6s	119.40nm				KLU	150.30	303	ePKPc	12	53.60	5.2X	
FEL	146.89	354	PKP	15	37.08	2.1	LPG	149.37	355	ePKP	15	43.40	4.2X	PMR	151.78	302	ePKP	12	55.77	5.3X
HAU	146.91	356	ePKP	15	35.90	1.0		1.6s	148.00nm				SLKM	151.93	299	ePKP	12	56.61	5.8X	
	1.6s	110.70nm					COLF	149.50	359	PKP	15	44.73	5.6X	FBA	152.10	309	ePKPc	12	56.38	5.5X
Z	21s	5.88um				6.3MsZ	RJF	149.69	2	ePKP	15	43.10	3.8X	IMA	154.72	311	(PKP)	13	02.56	7.9X
WATA	146.92	349	iPKPd	15	38.20	3.1X		1.8s	206.30nm					S.D. = 1.1 on 21 of 28 obs.						
SLE	146.95	353	ePKPc	15	39.20	4.2X	OHR	149.70	333	iPKP	15	42.80	3.3X	FEB 13, 1993 12h 09m 05.14±1.66s						
WTTA	146.98	349	iPKPc	15	36.60	1.4		1.5s	180.00nm					44.133 N ±12.5km 11.851 E ±7.8km						
		i	15	39.60			FNA	149.71	332	ePKP	15	42.70	3.1X	DEPTH = 10.0km (geophysicist)						
		i	15	45.30			SS8	149.72	358	PKP	15	44.88	5.5X	NORTHEN ITALY (545)						
MOTA	146.99	350	iPKPc	15	36.50	1.3	B08	149.77	351	PKP	15	44.90	5.4X	SFI	0.21	180	P	09	09.50	-0.2
		i	15	39.50			LBL	149.79	360	PKP	15	43.62	4.1X				eSg	09	15.00	
		i	15	49.70			BNI	149.82	355	PKP	15	44.80	5.1X	PGD	0.27	200	Pd	09	10.40	-0.6
MOF	147.00	355	PKP	15	37.50	2.4X	RSM	150.01	346	PKP	15	49.10	9.3X				eSg	09	17.40	
KHL	147.02	320	ePKP	15	39.00	3.6X	LFF	150.02	3	ePKP	15	44.20	4.4X	RSM	0.48	115	P	09	14.70	-0.2
BSF	147.05	355	ePKP	15	36.20	1.0	HLW	150.04	305	ePKPc+15	50.00	9.7X	CRE	0.51	172	P	09	16.30	0.8	
	1.5s	75.75nm					CAF	150.09	1	ePKP	15	44.30	4.3X				eSg	09	21.30	
SOTA	147.10	350	iPKPd	15	37.10	1.8		1.6s	74.65nm				BDI	0.91	266	P	09	22.70	0.2	
	1.2s	59.10nm					MME	150.12	349	PKP	15	49.10	8.8X	S.D. = 0.7 on 5 of 5 obs.						
		i	15	39.80			SFI	150.15	347	PKP	15	47.50	7.5X	FEB 13, 1993 12h 20m 33.92±0.44s						
MBH	147.22	302	ePKP	15	44.50	8.5X	PGD	150.22	347	PKP	15	47.20	6.8X	44.596 N ±2.6km 6.996 E ±4.6km						
ZLA	147.24	353	ePKPc	15	40.20	4.7X	EMON	150.22	15	ePKP	15	49.00	8.8X	DEPTH = 10.7 ± 4.7 km						
PTJ	147.28	343	iPKP	15	38.80	3.2X	CKI	150.27	352	PKP	15	47.40	7.2X	FRANCE	(538)					
ZAG	147.35	343	iPKPc	15	41.80	6.2X	LPO	150.30	3	ePKP	15	44.50	4.3X	ML	1.9 (GEN), 1.9 (LDG).					
		i	15	39.60				1.7s	116.15nm				PZZ	0.12	140	P	20	37.29	0.2	
BBS	147.35	354	PKP	15	38.37	2.8X	ARV	150.30	345	PKP	15	48.90	8.6X				S	20	39.54	
RBL	147.37	346	PKP	15	38.40	2.7X	STS	150.40	17	ePKP	15	47.50	7.1X	BHB	0.31	38	P	20	40.77	0.3
FVI	147.40	348	PKP	15	42.60	7.0X	CRE	150.40	347	PKP	15	48.60	8.0X				S	20	45.21	
BADA	147.52	300	ePKP	15	42.00	5.6X	FIR	150.41	348	ePKP	15	48.00	7.6X	RRL	0.36	335	P	20	41.41	0.0
LJU	147.52	345	ePKP	15	40.00	4.1X	ASS	150.77	346	PKP	15	46.80	5.7X				S	20	46.29	
LOMF	147.52	355	PKP	15	37.08	1.1	ERUA	151.25	16	ePKP	15	50.00	8.2X	STV	0.42	146	P	20	42.37	-0.2
VOY	147.69	346	ePKP	15	39.20	2.9X	AQU	151.25	344	PKP	15	51.10	9.3X				S	20	47.91	
ELL	147.71	317	ePKP	15	43.00	6.4X	ELIZ	151.58	7	ePKP	15	56.00	13.7X	ENR	0.48	140	P	20	43.33	-0.4
LOR	147.75	359	ePKP	15	38.20	2.0	SDI	151.74	343	PKP	15	51.20	8.6X				S	20	49.47	
	1.5s	106.05nm					EPF	151.89	4	ePKP	15	48.40	5.6X	RSP	0.59	18	P	20	46.08	0.3
Z	20s	5.80um				6.4MsZ	ECRI	152.00	9	ePKP	15	47.00	4.1X				S	20	54.59	
LLS	147.77	352	ePKPd	15	42.00	5.5X	PGF	152.01	351	ePKP	15	48.40	5.4X	ROB	0.69	115	P	20	47.59	-0.1
OSS	147.79	351	ePKPd	15	39.50	3.0X	SGO	152.32	340	PKP	15	52.40	9.1X				S	20	56.62	
CEY	147.83	345	ePKP	15	40.00	3.6X	MGR	152.61	339	PKP	15	52.40	8.6X	SBF	0.80	157	Pg	20	49.90	0.5
VBY	147.83	344	iPKPd	15	41.00	4.6X	EGRA	152.67	5	ePKP	15	50.00	6.3X				Sg	21	00.30	
EZN	147.92	325	ePKP	15	39.90	3.2X	GUD	153.61	12	ePKP	15	49.00	3.6X	LSD	0.87	7	P	20	50.71	0.0
SSF	147.96	359	ePKP	15	39.00	2.5X	ETOR	153.82	9	ePKP	15	57.00	11.4X				S	21	02.15	
	1.7s	208.05nm					PAB	154.62	13	ePKP	16	05.00	18.3X	IMI	0.94	137	P	20	52.06	0.2
TRI	148.02	346	ePKP	15	41.20	4.6X	EVAL	155.81	19	ePKP	16	01.00	12.8X	LPL	0.94	349	Pg	20	51.50	-0.4
		e	29	20.00			EHOR	156.03	16	ePKP	16	05.00	16.5X	FIN	0.95	114	P	20	51.63	-0.4
		e	38	48.00			MBO	160.61	89	ePKP	16	11.50	17.1X	FRF	1.06	194	Pg	20	53.70	-0.2
		eLR	06	04.00			BCAO	161.55	237	iPKPd	15	58.00	2.5X				Sg	21	07.20	
LBF	148.03	359	ePKP	15	38.90	2.2		0.9s	27.00nm				PCP	1.11	92	P	20	54.65	0.0	
	1.8s	138.95nm							ic	16	46.00		LMR	1.31	196	Pg	20	58.30	0.2	
VDL	148.08	352	ePKPc	15	42.40	5.4X			ic	20	26.10						Sg	21	15.10	
CTI	148.15	349	PKP	15	36.60	-0.4		S.D. = 1.2 on 188 of 328 obs.					S.D. = 0.3 on 15 of 15 obs.							
AVF	148.23	360	ePKP	15	39.20	2.2		* FEB 13, 1993 11h 53m 06.03±0.62s					FEB 13, 1993 13h 26m 21.39±0.76s							
	1.0s	29.40nm						57.821 S ±15.9km 26.163 W ±15.6km					22.443 S ±6.9km 68.555 W ±10.2km							
MFF	148.31	4	ePKP	15	39.30	2.2		DEPTH = 33.0km (

RTRS 7.74 186 eP 29 04.00 1.8 RTLL 8.85 180 ePc 28 27.20 -0.6 RTCB 9.01 181 e(P) 28 34.50 4.5X RTCV 9.38 180 eP 28 33.00 -1.9 TCA 9.54 159 eP 28 35.20 -1.9 SIV 9.55 49 P 28 36.00 -1.2 VAO 19.92 96 (P) 30 44.00 -1.9 LIC 68.34 73 P 37 11.20 -0.7 TIC 68.53 73 P 37 14.10 1.0 KIC 68.65 73 P 37 12.90 -0.9 PV08 71.39 328 eP 37 30.95 0.5 SRU 72.74 327 eP 37 38.57 0.4 YKA 92.18 340 eP 39 17.20 -0.5 0.6s 1.40nm 4.4mb WRA 132.31 210 PKP 45 25.50 2.2 0.5s 0.80nm PMG 132.81 232 ePKP 45 34.00 9.6X GBA 146.55 99 PKP 45 50.00 1.0 S.D. = 1.5 on 20 of 25 obs.					DAU 4.42 177 (Pn) S 30 01.80 -1.6 Pg 29 34.42 -1.6 NEW 5.14 314 eP 29 44.17 -1.7 S 31 05.71 RSSD 5.45 95 (Pn) 29 50.01 -0.5 S 31 08.68 DPW 5.50 306 eP 29 49.73 -1.3 SRU 5.77 172 (Pn) 29 55.02 0.1 S.D. = 0.9 on 17 of 18 obs.					SOUTH OF KERMADEC ISLANDS (179) HBZ 4.22 211 eP 02 55.10 0.8 PUZ 4.64 208 eP 02 59.80 -0.5 eS 03 58.40 NOZ 5.20 207 eP 03 09.60 1.4 URZ 5.31 216 eP 03 09.00 -0.6 DZM 17.51 309 iPc 05 56.00 2.1 ASPA 42.24 271 eP 09 41.40 -1.1 0.6s 5.60nm 4.5mb WB2 43.54 276 iPd 09 51.80 -1.3 0.5s 6.10nm 4.6mb WRA 43.55 276 P 09 52.30 -0.9 0.9s 0.90nm 3.5mb KAF 147.62 338 iPKP 21 28.20 -1.3 0.5s 1.70nm NUR 149.36 337 ePKP 21 33.80 1.5 0.3s 1.40nm S.D. = 1.5 on 10 of 10 obs.				
? FEB 13, 1993 13h 29m 56.22±3.10s 20.912 S ±21.7km 169.379 E ±30.0km DEPTH = 92.3 ±19.1 km 4.2mb (2 obs.) VANUATU ISLANDS (186)					? FEB 13, 1993 15h 34m 50.51±3.24s 31.791 S ±20.8km 69.674 W ±37.8km DEPTH = 130.0km (geophysicist) SAN JUAN PROVINCE, ARGENTINA (137)					% FEB 13, 1993 16h 06m 08.75±1.67s 38.037 N ±28.9km 14.145 E ±10.2km DEPTH = 10.0km (geophysicist) SICILY (398)				
DZM 2.97 247 iPc 30 42.10 -0.2 iS 31 19.40 BKM 3.40 341 iPc 30 48.30 0.1 iS 31 40.00 WB2 32.80 265 eP 36 21.80 -1.1 0.4s 4.60nm 4.6mb WRA 32.81 265 P 36 23.90 0.9 0.5s 0.60nm 3.7mb ASPA 32.89 259 iPd 36 24.00 0.3 0.4s 29.00nm 5.5mb X CLL 144.48 334 ePKP 49 29.00 5.9X GEC2 146.02 331 PKP 49 25.20 -0.8 0.6s 2.21nm GRF 146.45 334 ePKP 49 26.10 -0.4 BCAO 147.28 244 iPKPc 49 30.00 1.1 0.7s 6.00nm S.D. = 1.0 on 8 of 9 obs.					& FEB 13, 1993 15h 45m 49.73s 38.371 N 119.312 W DEPTH = 13.1km CALIFORNIA-NEVADA BORDER REGION (40) <GM-P>. MD 3.1 (GM). ML 3.0 (BRK), 2.8 (GS).					& FEB 13, 1993 16h 10m 20.00s 59.370 N 152.550 E DEPTH = 69.0km SOUTHERN ALASKA <AEIC>. ML 2.9 (AEIC)				
PEC 0.47 209 iPd 45 24.65 -0.7 SSK 0.67 263 ePc 45 28.52 -1.0 eLg 45 37.86 PLM 0.94 179 ePd 45 33.41 -1.2 eS 45 45.98 GSC 1.00 4 ePd 45 34.45 -1.0 ISA 1.88 317 ePn 45 50.01 0.9 eSg 46 13.26 GLA 2.12 125 ePn 45 50.20 -2.4 TPNV 2.69 11 ePn 46 00.57 -0.3 ePg 46 06.09 BONR 3.82 343 ePg 46 27.71 10.7 8 obs. associated					MEMM 0.76 157 eP 46 03.82 -0.5 MMPM 0.79 163 eP 46 04.39 -0.7 eS 46 16.09 BONR 0.90 117 eP 46 06.76 -0.1 CMB 0.91 249 iPc 46 06.38 -0.5 eS 46 18.64 MRCM 0.94 137 eP 46 07.40 -0.2 eS 46 20.89 KVN 1.17 54 eP 46 09.77 -1.6 eS 46 26.21 MTUM 1.18 150 ePd 46 11.82 0.3 FRI 1.41 193 iPd 46 16.04 1.0 eS 46 34.67 TNP 1.67 99 eP 46 18.90 -0.1 eS 46 43.11 HMR 1.97 264 eP 46 23.71 0.6 ARN 2.03 241 eP 46 25.73 1.7 eS 46 53.53 ORV 2.08 305 iPc 46 25.55 0.9 eS 46 53.12 MHC 2.11 242 eP 46 27.38 2.1 eS 46 56.50 COE 2.17 240 (P) 46 27.28 1.2 LLA 2.18 217 eP 46 28.54 2.4 eS 46 58.30 SAO 2.33 227 eP 46 30.27 1.9 eS 47 01.40 BKS 2.36 259 ePd 46 30.85 2.2 eS 47 03.10 ZSP 2.36 261 ePd 46 31.79 3.1 eS 47 05.31 PRI 2.47 206 ePc 46 34.79 4.4 eS 47 08.24 GCC 2.52 239 eP 46 35.14 4.2 PRS 2.61 219 eP 46 33.89 1.5 MIN 2.65 319 iPc 46 36.73 3.7 PHAM 2.68 199 ePg 46 45.94 12.7 ISA 2.78 166 ePn 46 33.69 -1.2 eS 47 16.43 TPNV 2.81 119 ePn 46 35.07 -0.3 ePg 46 41.84 WDC 3.33 312 eP 46 42.81 0.3 eS 47 29.01 GSC 3.66 146 (Pn) 46 48.28 0.9 ARUT 4.67 95 (Pn) 47 02.02 0.3 ePg 47 16.49 28 obs. associated					AUE 0.32 268 eP 10 11.00 -0.2 AUI 0.35 264 eP 10 11.00 0.1 eS 10 40.00 AUL 0.35 272 eP 10 11.00 0.1 AUH 0.35 269 eP 10 13.00 0.4 XLV 0.54 80 eP 10 33.00 -0.7 CDD 0.64 226 eP 10 34.00 -0.6 INE 0.71 347 iP 10 35.00 -0.8 ILIM 0.72 352 iP 10 35.00 -0.8 S 10 46.00 INW 0.73 345 eP 10 35.00 -0.7 eS 10 47.00 MCNL 0.83 258 iP 10 36.00 -0.8 eS 10 48.00 BRK 1.03 67 eP 10 38.00 -0.8 S 10 53.00 RS1 1.09 360 iP 10 39.89 -0.8 RSO 1.10 0 iP 10 39.87 -0.8 RS2 1.10 360 iP 10 39.87 -0.8 S 10 55.58 RDW 1.12 359 eP 10 40.04 -0.9 S 10 55.90 REF 1.12 1 iP 10 40.21 -0.8 eS 10 55.76 RDN 1.15 360 eP 10 40.55 -0.7 NCT 1.20 356 iP 10 41.12 -0.8 DFR 1.23 2 iP 10 41.52 -0.8 NKA 1.57 28 eP 10 47.54 0.7 KDC 1.63 175 P 10 46.50 -1.1 SLKM 1.71 47 eP 10 47.56 -1.2 SEW 1.83 65 eP 10 49.02 -1.3 CKL 1.84 6 iP 10 49.90 -0.8 SPU 1.85 11 iP 10 49.85 -0.9 CKT 1.86 8 iP 10 49.96 -0.9 CKN 1.88 8 eP 10 50.45 -0.7 BGL 1.91 5 iP 10 50.84 -0.7 CPAM 1.92 9 eP 10 50.87 -0.8 CP2 1.92 7 ePd 10 50.78 -1.0 CRP 1.93 9 ePd 10 50.32 -1.6 MPA 2.04 55 eP 10 51.96 -1.4 SVW 2.26 322 ePn 10 54.67 -1.7 SUA 2.33 25 eP 10 56.63 -0.8 PTE 2.40 50 eP 10 56.44 -1.8 PMS 2.46 39 P 10 57.70 -1.5 LTI 2.57 73 eP 10 58.33 -2.4 SKT 2.69 12 eP 11 01.00 -1.3				
FEB 13, 1993 14h 28m 27.05±0.43s 44.829 N ±3.4km 111.584 W ±5.0km DEPTH = 10.0km (geophysicist) HEBGEN LAKE REGION (458) ML 3.1 (GS), 3.4 (BUT).					? FEB 13, 1993 16h 01m 50.66±1.64s 34.003 S ±10.6km 178.961 W ±25.8km DEPTH = 33.0km (normal) 4.3mb (3 obs.)					? FEB 13, 1993 16h 01m 50.66±1.64s 34.003 S ±10.6km 178.961 W ±25.8km DEPTH = 33.0km (normal) 4.3mb (3 obs.)				
TPMT 0.11 210 iPc 28 30.70 0.5 LTMT 0.48 231 ePd 28 37.20 0.3 BGMT 0.52 322 iPd 28 38.00 0.4 MEMT 0.89 29 iPc 28 43.80 -0.4 MCMT 0.90 270 ePc 28 45.00 0.5 LCCM 1.03 348 iPc 28 47.10 0.5 LRM 1.17 329 ePnd 28 49.50 0.5 HBMT 1.20 324 ePnd 28 50.20 0.5 SXM 1.35 11 ePn 28 52.60 0.6 BUT 1.37 330 ePg 28 53.70 1.3X iSn 29 12.00 HRY 1.89 355 ePnc 28 59.90 0.1 BW06 2.52 144 ePn 29 10.26 1.3 Sg 29 44.26 HVU 3.17 196 (Pn) 29 18.27 0.2 ePg 29 21.28					GCC 2.52 239 eP 46 35.14 4.2 PRS 2.61 219 eP 46 33.89 1.5 MIN 2.65 319 iPc 46 36.73 3.7 PHAM 2.68 199 ePg 46 45.94 12.7 ISA 2.78 166 ePn 46 33.69 -1.2 eS 47 16.43 TPNV 2.81 119 ePn 46 35.07 -0.3 ePg 46 41.84 WDC 3.33 312 eP 46 42.81 0.3 eS 47 29.01 GSC 3.66 146 (Pn) 46 48.28 0.9 ARUT 4.67 95 (Pn) 47 02.02 0.3 ePg 47 16.49 28 obs. associated					PTE 2.40 50 eP 10 56.44 -1.8 PMS 2.46 39 P 10 57.70 -1.5 LTI 2.57 73 eP 10 58.33 -2.4 SKT 2.69 12 eP 11 01.00 -1.3				

13d 16h

KNIM	2.72	67	eP	11	00.16	-2.6
PMR	2.86	37	ePn	11	02.05	-2.7
GHO	3.06	36	eP	11	06.20	-1.5
GLI	3.21	59	eP	11	06.03	-3.6
SML	3.28	40	eP	11	07.64	-3.0
HIN	3.32	69	eP	11	08.59	-2.6
KLU	4.00	55	ePn	11	17.42	-3.4
			eSg	12	00.37	
BALM	5.45	68	ePn	11	37.51	-3.7
46 obs. associated						

? FEB 13, 1993 16h 40m 03.01±1.92s
 17.794 S ±50.9km 178.373 W ±31.6km
 DEPTH = 610.1 ± 16.7 km
 4.3mb (4 obs.)

FIJI ISLANDS REGION (181)

SVA	3.03	263	eP	41	23.00	-0.6
BKM	12.75	269	iPc	42	51.00	1.9
DZM	14.89	251	iPc	43	10.60	0.6
WB2	44.67	259	eP	47	23.20	-1.9
	0.5s	4.40nm			4.2mb	
ASPA	44.86	254	eP	47	25.40	-1.1
	0.6s	13.20nm			4.6mb	
		iS	53	19.20		
MAT	67.84	323	eP	50	03.00	-0.5
	0.5s	5.63nm			4.3mb	
BGMT	86.83	40	eP	51	45.60	0.4
YKA	94.21	25	eP	52	17.10	-1.4
	0.5s	0.60nm			4.1mb	
KSP	145.01	344	iPKPd	58	34.30	1.2
CLL	145.36	347	iPKPd	58	34.90	1.3
	0.9s	21.00nm				
PRU	146.24	345	PKPd	58	37.50	2.4X
		e	58	40.30		
GRF	147.25	348	iPKPd	58	40.50	3.7X
GEC2	147.51	345	PKP	58	40.80	3.5X
	0.5s	5.00nm				
DOU	147.69	356	PKPd	58	41.10	3.7X
WLF	148.00	354	iPKPc	58	42.70	4.8X
FLN	149.06	3	ePKP	58	44.10	4.5X
	0.4s	4.45nm				
CDF	149.12	353	ePKP	58	44.70	4.9X
	0.5s	5.70nm				
LDF	149.25	2	ePKP	58	44.50	4.6X
	0.4s	4.40nm				
GRR	149.42	3	ePKP	58	45.20	5.1X
	0.4s	6.25nm				
HAU	149.62	354	ePKP	58	45.80	5.3X
	0.4s	4.00nm				
BSF	149.74	353	ePKP	58	46.00	5.2X
	0.6s	5.05nm				
LPF	149.76	4	ePKP	58	46.10	5.5X
	0.4s	8.40nm				
LOR	150.55	357	ePKP	58	48.00	6.1X
	0.5s	6.65nm				
SSF	150.77	357	ePKP	58	48.60	6.4X
	0.5s	5.05nm				
LBF	150.83	357	ePKP	58	48.50	6.1X
	0.8s	5.50nm				
AVF	151.05	358	ePKP	58	48.80	6.2X
SMF	151.17	357	ePKP	58	49.30	6.5X
MFF	151.24	3	ePKP	58	49.30	6.4X
	0.6s	5.05nm				
BGF	151.30	358	ePKP	58	49.70	6.7X
	0.5s	4.45nm				
OHR	151.52	329	ePKP	58	49.50	5.9X
TCF	151.58	359	ePKP	58	50.20	6.7X
	0.6s	2.55nm				
LSF	151.63	0	ePKP	58	50.00	6.5X
	0.5s	3.50nm				
MAF	151.64	359	ePKP	58	50.60	7.1X
	0.6s	3.00nm				
LPL	152.03	352	ePKP	58	52.20	7.8X
	0.7s	1.55nm				
LPG	152.05	352	ePKP	58	52.30	7.8X
	0.6s	2.00nm				
RJF	152.57	0	ePKP	58	52.40	7.5X
LFF	152.93	1	ePKP	58	53.10	7.8X
CAF	152.95	359	ePKP	58	53.50	8.1X
LPO	153.19	1	ePKP	58	53.70	8.0X

S.D. = 1.6 on 10 of 39 obs.

* FEB 13, 1993 17h 22m 08.71±1.15s
 43.181 N ±13.3km 7.759 E ±15.3km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)

ML 1.8 (STR).

SBF	0.72	341	Pg	22	22.70	-0.2
			Sg	22	32.30	
AURF	0.77	336	Pg	22	23.91	0.1
SAOF	0.82	350	Pg	22	24.65	0.1
AUTN	0.85	344	Pg	22	25.30	0.1
CALN	0.85	312	Pg	22	25.25	0.0
TOUF	0.91	336	Pg	22	26.29	0.0
PGF	1.11	124	Pg	22	29.61	0.0
			Sg	22	42.89	
CDR	1.53	289	eP	22	40.50	4.4X
			e	22	52.40	

S.D. = 0.1 on 7 of 8 obs.

& FEB 13, 1993 17h 25m 56.72s
 60.011 N 152.256 W
 DEPTH = 85.0km
 SOUTHERN ALASKA (2)
 <AEIC>.

ILIM	0.36	281	iP	26	09.65	-0.5
			eS	26	20.08	
INE	0.41	277	iP	26	10.03	-0.6
			S	26	20.14	
INW	0.44	278	eP	26	10.38	-0.5
			eS	26	21.63	
RS1	0.52	331	eP	26	10.89	-0.6
			eS	26	22.14	
RSO	0.52	331	iP	26	10.86	-0.7
			iS	26	21.94	
RS2	0.52	331	iP	26	10.92	-0.6
			eS	26	21.91	
REF	0.53	335	eP	26	10.96	-0.7
			eS	26	22.16	
RDW	0.55	330	iP	26	11.13	-0.7
			eS	26	22.41	
RDN	0.56	334	eP	26	11.11	-0.8
XLV	0.62	154	eP	26	11.76	-0.5
DFR	0.62	340	iP	26	11.50	-0.8
			iS	26	23.22	
NCT	0.65	329	eP	26	11.78	-0.8
			eS	26	23.41	
BRLK	0.73	109	eP	26	12.76	-0.6
			eS	26	25.17	
AUL	0.87	224	eP	26	14.75	-0.1
AUH	0.89	223	eP	26	14.91	-0.2
NKA	0.89	34	eP	26	15.79	0.7
AUI	0.90	222	eP	26	14.97	-0.2
			S	26	28.25	
SLKM	1.13	63	eP	26	16.51	-1.5
SPU	1.18	5	eP	26	17.53	-1.1
			eS	26	33.52	
CKL	1.19	358	eP	26	17.51	-1.3
CKT	1.19	1	iP	26	17.82	-1.0
			S	26	33.98	
CKN	1.22	2	eP	26	18.34	-0.7
			S	26	35.61	
CPAM	1.25	3	eP	26	18.65	-0.9
			S	26	35.79	
CP2	1.26	0	eP	26	18.93	-0.8
BGL	1.26	357	iP	26	18.68	-1.0
			S	26	34.90	
CRP	1.26	2	eP	26	18.87	-0.9
CDD	1.30	214	eP	26	19.45	-0.6
MCNL	1.34	233	eP	26	20.53	-0.1
			eS	26	37.48	
SEW	1.41	85	eP	26	20.01	-1.4
MPA	1.52	70	eP	26	21.60	-1.3
SUA	1.64	26	eP	26	23.40	-1.2
PMS	1.82	46	eP	26	25.57	-1.3
PTE	1.82	60	eP	26	25.55	-1.2
SVW	1.99	305	eP	26	27.51	-1.8
SKT	2.01	10	eP	26	27.70	-1.7
			eS	26	52.27	
LTI	2.21	87	eP	26	29.89	-2.3
KNIM	2.28	80	eP	26	29.97	-3.2
GHO	2.40	41	eP	26	33.40	-1.5
SML	2.63	45	eP	26	35.80	-2.2
GLI	2.70	69	eP	26	37.42	-1.5
KLU	3.45	62	eP	26	46.22	-3.0
TRF	3.58	14	eP	26	49.87	-1.3

42 obs. associated

% FEB 13, 1993 17h 51m 36.71±0.73s
 40.424 N ± 7.0km 30.010 E ± 5.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

EYL	0.18	38	iPg	51	41.50	0.7
GPA	0.27	120	iPg	51	41.90	-0.4
			eSg	51	45.50	
HRT	0.48	327	ePg	51	45.70	-0.7
YLV	0.51	287	iPg	51	47.00	0.0
			eSg	51	54.70	
KCT	1.28	263	ePn	52	00.70	0.3
DST	1.34	233	ePn	52	01.60	0.2

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

? FEB 13, 1993 18h 06m 18.24±1.69s
 45.536 N ±20.1km 149.700 E ±18.9km
 DEPTH = 175.8 ± 13.4 km
 4.8mb (2 obs.)

KURIL ISLANDS (221)

KUSJ	4.33	238	eP	07	23.00	-1.0
			eS	08	10.10	
ASAJ	5.22	257	eP	07	36.40	0.8
HOJ	5.60	238	eP	07	41.10	0.5
			eS	08	41.10	
YAK	20.15	332	eP	10	39.70	-0.4
	0.9s	31.00nm			4.8mb	
GUN	52.73	274	P	15	17.00	-0.2
KKN	53.22	274	P	15	20.80	0.1
PKI	53.26	274	P	15	21.00	-0.1
YKA	53.30	35	eP	15	20.80	0.3
	0.5s	0.30nm			3.3mb X	
DMN	53.45	274	P	15	22.60	0.2
GKN	53.54	274	P	15	23.00	0.0
	0.5s	12.00nm			4.9mb	

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

* FEB 13, 1993 18h 30m 10.78±0.78s
 13.725 N ±12.1km 89.754 W ±10.7km
 DEPTH = 86.4km (3 depth phases)
 4.5mb (8 obs.)

EL SALVADOR (73)

TPX	2.70	296	iPc	30	53.80	0.9
			iS	31	22.40	
SCX	4.09	317	iP	31	30.00	17.9X
OXX	7.50	297	iP	32	00.80	1.1
PPM	10.03	303	iP	32	35.00	0.4
UYO	20.79	349	iPc	34	46.60	-0.4
MIAR	21.02	351	eP	34	49.04	-0.2
	0.5s	18.36nm			4.7mb	
			e	34	52.62	
			pP	35	06.51	81km
PRM	21.35	17	eP	34	54.90	2.3
OLY	21.74	356	ePc	34	58.05	1.6
			pP	35	18.10	94km
MEO	22.44	341	iPd	35	02.30	-1.1
WMOK	22.46	340	ePc	35	02.07	-1.5
	0.5s	18.47nm			4.7mb	
FNO	22.52	343	iPd	35	04.30	0.1
OCO	22.79	344	iPc	35	07.40	0.6
ELC	23.47	1	eP	35	14.14	0.9
			pP	35	40.27	126kmX
FVM	24.17	359	ePd	35	20.62	0.5
	0.3s	41.47nm			5.3mb	
ACO	24.37	341	iPc	35	21.90	-0.2
NAV	24.82	17	eP	35	27.48	1.1
			pP	35	46.20	84km
PV08	29.88	329	(P)	36	11.91	-0.8
PV10	29.92	329	eP	36	11.77	-1.2
PLM	31.45	313	(P)	36		

HFS 0.8s 1.90nm 4.1mb
84.78 29 eP 42 35.40 -1.1
0.4s 0.70nm 4.0mb
WB2 137.43 255 iPKPd 49 28.60 1.6
0.6s 9.60nm
WRA 137.44 255 PKP 49 29.50 2.5
1.0s 2.20nm
GKN 138.17 7 PKP 49 26.20 -2.2
GUN 138.40 6 PKP 49 29.00 -0.1
KKN 138.45 7 PKP 49 28.80 -0.2
DMN 138.61 7 PKP 49 28.00 -1.3
PKI 138.68 7 PKP 49 29.00 -0.6
GBA 150.03 26 PKP 49 50.00 1.5
S.D. = 1.3 on 36 of 41 obs.

& FEB 13, 1993 19h 15m 31.28s
61.474 N 149.765 W
DEPTH = 35.6km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.5 (AEIC), 3.6
(PMR). Felt (III) at Eagle
River, Palmer and Wasilla.

PWA 0.19 343 P 15 37.90 -0.1
PMS 0.25 157 P 15 38.90 0.2
PLRM 0.33 68 iPc 15 38.99 -0.5
PMR 0.33 68 iPd 15 38.66 -0.8
SUA 0.47 269 iPd 15 40.88 -0.7
eS 15 49.62
GHO 0.50 53 P 15 41.20 -0.8
S 15 49.80
PTE 0.71 149 iPc 15 43.98 -0.8
eS 15 54.48
SML 0.76 63 iPc 15 44.55 -1.1
eS 15 55.56
SKT 0.98 302 iPc 15 47.73 -1.0
eS 16 01.09
SLKM 0.99 193 eP 15 47.73 -1.2
MPA 1.01 169 iPd 15 47.84 -1.2
eS 16 02.71
NKA 1.02 225 eP 15 50.13 0.8
CGLM 1.09 262 eP 15 49.90 -0.5
SPU 1.14 256 iPc 15 50.18 -0.9
eS 16 05.63
CPAM 1.17 260 iPc 15 50.92 -0.5
CRP 1.17 261 ePc 15 50.31 -1.3
CKN 1.19 259 iPc 15 51.34 -0.4
CKT 1.21 258 iPc 15 51.29 -0.8
CP2 1.21 261 ePc 15 51.22 -1.0
SCM 1.22 72 iPc 15 51.57 -0.6
eS 16 08.30
CKL 1.27 258 iPc 15 52.24 -0.7
BGL 1.28 262 iPc 15 52.38 -0.8
SEW 1.38 173 ePc 15 52.91 -1.6
GLI 1.42 114 iPd 15 54.18 -1.0
eS 16 12.84
KNIM 1.50 138 ePd 15 54.22 -2.1
HUR 1.51 2 ePd 15 55.97 -0.5
eS 16 16.11
VZW 1.61 104 eP 15 57.09 -0.7
DFR 1.67 239 iPc 15 57.82 -1.0
VLZ 1.69 100 ePc 15 57.74 -1.2
eS 16 20.44
LTI 1.72 146 ePd 15 57.08 -2.3
RDN 1.75 238 ePc 15 58.73 -1.2
FID 1.75 113 iPd 15 58.08 -1.8
eS 16 20.26
RSO 1.78 236 ePc 15 59.09 -1.3
RS2 1.78 237 ePc 15 59.40 -1.0
RS1 1.78 236 ePc 15 59.42 -1.0
RDW 1.79 238 iPc 15 59.52 -1.0
NCT 1.79 241 iPc 15 59.63 -0.9
BRILK 1.80 198 eP 15 58.78 -1.8
KLU 1.84 88 iPc 15 59.94 -1.3
eS 16 23.36
HIN 1.93 123 eP 16 00.53 -1.8
eS 16 25.95
RND 1.99 12 eP 16 02.56 -0.7
TRF 2.00 353 ePc 16 02.75 -0.8
eS 16 28.03
ILIM 2.10 230 eP 16 03.74 -1.1
TZL 2.14 73 eP 16 04.91 -0.5
INE 2.15 230 eP 16 04.61 -1.0
CVA 2.17 114 eP 16 03.73 -1.9
INW 2.17 231 eP 16 04.83 -1.1
SDG 2.25 60 eP 16 06.63 -0.3
OPT 2.50 225 eP 16 09.69 -0.8

PAX 2.51 51 eP 16 10.99 0.3
RAGM 2.71 111 eP 16 11.26 -2.3
AUL 2.78 223 eP 16 14.19 -0.2
AUH 2.79 222 eP 16 14.99 0.3
SVW 2.85 265 iPc 16 13.44 -2.0
GLB 2.86 88 eP 16 13.94 -1.6
NEA 3.13 5 eP 16 18.18 -1.3
CDD 3.20 219 eP 16 18.96 -1.5
MCNL 3.23 227 eP 16 19.39 -1.5
TTA 3.27 299 iPc 16 19.15 -2.3
CROM 3.30 100 eP 16 19.95 -2.0
CCB 3.31 15 eP 16 20.38 -1.5
DOT 3.42 48 P 16 25.20 1.6
TGL 3.44 99 eP 16 22.05 -1.8
FBA 3.55 14 ePn 16 23.05 -2.3
MDM 3.57 11 eP 16 24.56 -1.0
BALM 3.61 94 eP 16 23.92 -2.4
SNH 3.63 108 eP 16 23.76 -2.8
GLM 3.69 16 eP 16 26.01 -1.3
KDC 3.99 202 ePn 16 29.87 -1.6
YAH 4.07 102 eP 16 30.97 -2.0
CTGM 4.11 93 eP 16 31.94 -1.5
IMA 4.93 341 ePn 16 41.79 -3.2
BRW 10.25 347 (Pn) 17 54.61 -4.3
73 obs. associated

% FEB 13, 1993 19h 19m 48.05±3.26s
32.872 S ±17.4km 70.936 W ±10.4km
DEPTH = 63.6 ± 29.0 km
CHILE-ARGENTINA BORDER REGION (127)
MD 3.3 (SAN).

ROCH 0.12 212 iP 19 58.12 0.0
iS 20 06.29
PEL 0.34 142 iPd 19 59.28 0.2
iS 20 08.11
JACH 0.35 57 iP 19 59.18 0.0
iS 20 08.47
FCH 0.71 130 iP 20 02.97 -0.2
iS 20 15.27
TACH 0.78 180 iP 20 03.45 -0.2
iS 20 15.32
LCCH 0.80 221 iP 20 04.02 0.1
PCH 0.83 155 iP 20 04.19 -0.2
iS 20 17.23
CHCH 1.08 167 iP 20 08.16 0.5
iS 20 22.81
LNV 1.15 200 iP 20 08.34 -0.1
iS 20 24.31

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

FEB 13, 1993 19h 56m 22.45±0.52s
40.364 N ± 5.5km 25.950 E ± 5.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

ALN 0.54 8 iPg 56 32.93 -0.4
eSg 56 41.26
EZN 0.61 152 iPg 56 33.30 -1.4
iSg 56 42.80
RDO 0.84 338 ePg 56 37.70 -1.0
eSg 56 49.50
PRK 1.14 167 ePg 56 43.80 0.0
eSg 56 59.50
EDC 1.46 90 ePn 56 50.00 1.1
OUR 1.50 269 iPb 56 45.74 -3.7X
PAIG 1.79 257 ePb 56 53.98 0.3
SRS 1.94 294 ePb 56 56.29 0.5
iSb 57 20.97
SOH 2.03 284 ePn 56 57.38 0.3
iSn 57 23.93
DST 2.19 109 ePn 57 00.00 0.5
KNT 2.45 290 ePn 57 03.26 0.1
eSn 57 33.42

S.D. = 0.9 on 10 of 11 obs.

* FEB 13, 1993 20h 35m 41.13±0.54s
16.949 N ±10.3km 86.151 W ±11.4km
DEPTH = 33.0km (normal)
4.7mb (8 obs.)
CARIBBEAN SEA (94)

OXX 10.12 272 iP 38 05.20 -2.2
UYO 18.70 338 iPc 39 58.90 -0.1
MIAR 18.74 341 eP 39 58.94 -0.6
0.5s 5.05nm 4.0mb
MEO 20.95 330 iPd 40 23.50 -0.2

WMOK 21.01 330 ePc 40 24.00 -0.3
1.0s 60.97nm 5.0mb
OCO 21.07 334 iPc 40 25.60 0.7
ACO 22.79 332 iPc 40 42.90 0.9
ALO 25.50 319 iPc 41 09.27 0.9
1.0s 15.62nm 4.6mb
TUC 27.02 309 (P) 41 22.99 0.6
e 41 26.84
SRU 30.65 321 ePc 41 54.97 0.0
MSU 31.31 319 iPc 42 01.50 0.7
TNP 34.42 314 ePc 42 29.15 1.2
0.9s 9.92nm 4.7mb
BONR 35.11 313 eP 42 35.75 1.8
KVN 35.50 315 eP 42 38.42 1.4
LCCM 35.91 329 eP 42 40.60 0.2
ZOBO 37.50 151 eP 42 54.00 -0.6
Z 24s 0.08um 3.4MsZx

LPB 37.73 151 eP 43 05.00 8.8X
CNCB 38.03 151 eP 42 53.00 -5.9X
SIV 41.02 142 P 43 25.40 2.2
GMW 42.83 324 (P) 43 37.01 -0.6
SLKM 62.69 330 (P) 46 03.58 -1.2
FBA 62.87 335 iPc 46 04.86 -1.1
0.6s 3.08nm 4.6mb
GEC2 83.72 41 P 48 07.70 -0.6
0.9s 0.75nm 3.8mb
e 48 17.40
KAF 85.19 26 eP 48 13.60 -1.6
0.8s 11.40nm 5.1mb
NUR 85.21 28 eP 48 14.70 -0.6
0.4s 3.10nm 4.9mb
WB2 141.53 259 ePKP 55 10.70 -0.8
0.8s 3.80nm
WRA 141.54 259 PKP 55 12.20 0.7
0.8s 2.00nm
GBA 145.58 29 PKPc 55 18.00 -0.5
S.D. = 1.1 on 26 of 28 obs.

FEB 13, 1993 21h 19m 36.03±0.12s
51.720 N ± 3.1km 176.447 E ± 1.8km
DEPTH = 33.0km (normal)
5.3mb (117 obs.) 4.5MsZ (21 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)
Mw 5.1 (HRV). ML 5.3 (PMR). Felt
(II) on Shemya.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 32S, 48C
Centroid Location:
Origin Time 21:19:37.8 0.7
Lat 52.08N 0.07 Lon 177.26E 0.13
Dep 25.6 4.5 Half-duration 1.1
Moment Tensor: Scale 10**16 Nm
Mrr= 3.81 0.22 Mtt=-3.54 0.31
Mff=-0.26 0.23 Mrt= 4.34 1.09
Mrf= 0.38 0.77 Mtf=-0.07 0.34
Principal Axes:
T Val= 5.84 P1g=65 Azm=353
N -0.27 2 87
P -5.57 25 177
Best Double Couple: Mo=5.7*10**16
NP1: Strike=271 Dip=20 Slip= 95
NP2: 86 70 88

SMY 1.76 306 ePd 20 05.38 0.7
ADK 4.27 85 ePc 20 42.70 2.4
(S) 21 31.82
SDN 14.16 66 eP 22 56.83 0.7
SVW 17.95 48 eP 23 45.15 0.8
0.9s 118.35nm 5.0mb
TTA 18.46 42 eP 23 51.50 0.9
1.3s 89.79nm 4.8mb
KDC 18.81 59 eP 23 51.29 -3.5X
0.6s 64.56nm 5.0mb
RSO 19.12 51 ePc 23 59.42 0.6
CP2 19.56 49 ePc 24 05.10 1.2
CRP 19.60 49 ePc 24 05.06 0.8
SLKM 20.35 51 eP 24 10.18 -1.8
IMA 20.79 35 ePc 24 16.88 0.3
0.8s 35.78nm 4.8mb
PMS 20.81 50 iPc 24 17.70 0.9
PMR 21.09 49 P 24 18.32 -1.1
Z 20s 1.68um 4.4MsZ
FBA 22.56 41 ePc 24 34.12 0.0
0.6s 31.83nm 5.0mb
KLU 22.58 50 ePc 24 34.51 0.0

13d 21h

KUSJ	22.99	261	eP	24	37.80	-0.7	SES	43.84	62	eP	27	39.00	-1.4			sP	29	02.50		
BRW	23.05	22	ePd	24	39.03	0.2	TIA	44.18	274	Pc	27	43.00	-0.2			PcP	29	57.50		
ASAJ	23.73	265	iP+	24	47.50	1.8		1.0s	210.00nm			5.9mb		GTA	52.66	289	P	28	48.50	
BALM	24.25	51	eP	24	50.99	0.2	HMR	44.46	83	(P)	27	46.97	1.5			150.00nm		5.9mb		
HOJ	24.26	260	eP	24	51.20	0.3	HHC	44.73	283	Pc	27	48.00	0.2		Z	20s	0.86um	4.8msz		
MRRJ	25.60	263	eP	25	01.50	-2.1		1.0s	130.00nm			5.8mb		E	15s	0.41um				
YAK	26.94	311	iPc	25	13.90	-1.8	Z	26s	0.71um			4.5msz				pP	29	01.00		
	1.0s	483.00nm			6.1mb				PP	29	30.00					PcP	29	57.00		
Z	18s	1.30um			4.5msz		SSE	45.05	265	Pd	27	50.70	0.4			53.39	70	eP		
E	18s	1.10um						1.0s	120.00nm			5.7mb		GOL	0.8s	22.61nm		5.2mb		
			25	37.00	105kmX		Z	20s	0.50um			4.4msz			Z	19s	0.44um	4.5msz		
		eP	25	37.00					sP	28	07.50					eP	29	05.23		
		26	15.00						34	28.00					esP	29	15.66			
		28	36.00				COE	45.10	83	eP	27	50.92	0.3		TUC	55.07	81	P		
		29	47.00				ARN	45.13	83	eP	27	51.05	0.1		Z	21s	0.37um	4.4msz		
		30	23.00				HRV	45.38	67	eP	27	51.90	-1.0		GZH	55.64	264	Pc		
		31	12.00				CMB	45.40	82	eP	27	54.14	1.0		ALQ	55.91	75	ePc		
OFUJ	27.22	256	eP	25	18.90	0.4		1.1s	28.33nm			5.1mb				0.9s	10.14nm	4.9mb		
SIT	28.09	60	eP	25	25.96	-0.3			e	28	11.99				Z	20s	0.63um	4.7msz		
	0.6s	9.69nm			4.7mb		HBMT	45.45	68	eP	27	52.30	-1.4				eP	29	22.71	
KAKJ	29.99	253	P	25	43.60	0.1	BTO	45.82	283	iPd	27	57.00	0.6				esP	29	27.58	
NIIJ	30.01	256	P	25	43.90	0.2	NJ2	45.85	268	Pc	27	56.20	-0.4				iPc	29	12.10	
CHJJ	30.80	254	P	25	50.70	0.0		1.0s	39.00nm			5.3mb			CD2	55.99	278	iPc		
MAT	30.95	256	iPc	25	52.00	0.0			45.85	68	eP	27	55.00	-1.7			1.0s	66.00nm	5.6mb	
	0.8s	50.75nm			5.4mb		LCCM	45.86	69	eP	27	55.30	-1.6		WMQ	56.63	300	iPc		
		31	22.00				MCMT	46.10	68	eP	27	57.50	-1.2			0.8s	140.00nm	6.0mb		
MDJ	31.59	276	eP	25	55.70	-1.8	BGMT	46.12	279	Pc	27	59.00	0.2			Z	20s	1.34um	5.0msz	
	1.0s	37.00nm			5.2mb		TIY	46.8s	72.00nm			5.7mb					ScP	34	05.00	
IIDJ	31.84	255	P	26	00.20	0.4		0.8s	72.00nm			5.7mb		KEV	56.80	348	iP	29	17.00	
CN2	34.56	277	Pc	26	21.60	-1.7	KVN	46.17	79	eP	28	00.31	1.0			0.6s	14.30nm	5.2mb		
	0.8s	14.00nm			4.9mb		MEMT	46.50	67	eP	28	00.50	-1.4		GYA	57.34	272	iPc		
Z	22s	0.63um			4.3msz		MEMM	46.52	81	eP	28	03.18	1.3			0.8s	63.00nm	5.7mb		
		26	36.00	57kmX			TPMT	46.61	69	eP	28	04.80	2.0		ACO	59.03	69	iPc		
HON	36.26	137	P	26	50.00	12.1X	80NR	46.73	80	eP	28	04.32	0.4		SDF	59.07	347	iP		
	Z	21s	0.98um		4.6msz		MRCM	46.79	81	eP	28	05.12	0.9		WMOK	60.61	70	ePc		
SNY	36.79	276	Pc	26	41.60	-0.6	PHAM	46.79	84	eP	28	04.69	0.6			0.6s	10.45nm	5.1mb		
	1.0s	48.00nm			5.3mb		MTUM	46.95	81	eP	28	06.30	0.8				eP	29	54.63	
Z	24s	0.65um			4.3msz		PTI	47.29	71	(P)	28	07.73	-0.4				esP	30	00.34	
SHNJ	36.87	260	P	26	44.50	1.5	TNP	47.32	79	eP	28	08.30	-0.1		MEO	60.69	70	iPc		
YKA	37.14	46	eP	26	45.20	0.3		0.7s	27.52nm			5.4mb		KMI	60.74	274	Pc	29	45.00	
	0.5s	18.30nm			5.2mb				epP	28	18.25	33kmX			1.0s	60.00nm		5.7mb		
MCW	38.01	70	(P)	26	52.90	0.5			esP	28	25.86			QIZ	60.83	264	P	29	47.80	
		29	08.79				HVU	47.71	73	eP	28	10.99	-0.4		AKU	62.39	7	iP	29	56.60
KUMJ	38.13	258	P	26	54.40	0.8	FCC	47.84	45	ePc	28	14.50	2.6			0.9s	36.97nm		5.5mb	
GMW	38.58	71	eP	26	57.74	0.5	ISA	48.10	83	eP	28	13.79	-0.6		UYO	63.52	68	iPc	30	03.60
		29	09.63					0.9s	23.16nm			5.2mb		KAF	64.07	345	eP	30	07.80	
BMW	38.86	73	eP	27	01.33	1.7	Z	19s	0.48um			4.5msz		ELC	64.22	62	eP	30	07.92	
		29	10.70						e	28	33.57			OLY	64.26	65	(P)	30	08.80	
KAGJ	39.04	256	P	27	02.30	1.1	TPNV	48.63	80	eP	28	18.18	-0.4		LSA	64.51	286	Pc	30	12.50
RMW	39.20	71	(P)	27	03.49	1.0		0.7s	73.27nm			5.8mb			0.8s	86.00nm		5.9mb		
LON	39.56	72	eP	27	04.76	-0.7			e	28	39.10			PMG	65.91	212	eP	30	20.00	
		29	12.27				DUG	48.66	74	eP	28	18.23	-0.5		KSH	65.92	303	Pc	30	20.60
SHW	39.59	73	eP	27	06.51	0.7		0.5s	4.74nm			4.8mb			1.0s	160.00nm		6.1mb		
		27	17.71	40kmX			BW06	49.00	70	ePc	28	19.55	-1.9		RSNY	66.27	48	ePd	30	20.42
		27	23.83					0.6s	9.45nm			5.0mb			0.5s	5.11nm		4.9mb		
DL2	39.70	273	P	27	06.50	-0.1	GSC	49.36	82	ePc	28	24.27	0.1		NB2	66.97	352	P	30	25.70
	0.7s	150.00nm			5.9mb				e	28	43.92				0.8s	83.80nm		5.9mb		
RES	40.65	24	eP	27	15.50	1.5	DAU	49.46	73	eP	28	24.54	-0.6		LOE	67.09	269	eP	30	26.70
	0.5s	5.00nm			4.5mb		SSK	49.53	84	eP	28	25.79	0.2		CBM	67.23	42	P	30	26.96
VGB	40.81	73	eP	27	15.56	-0.2	WHN	49.68	270	iPc	28	25.70	-0.8		UPP	67.47	349	iPc	30	28.60
		29	17.30					0.5s	250.00nm			6.5mb		HFS	67.64	351	eP	30	29.10	
DPW	41.10	69	eP	27	17.08	-1.0	ARUT	49.81	77	eP	28	27.23	-0.4			0.4s	46.20nm		5.9mb	
		29	17.63				PEC	50.07	84	eP	28	29.50	-0.1		Z	19s	282.00um		7.5msz	
NEW	41.52	68	eP	27	20.64	-0.9		0.4s	5.70nm			4.9mb				LR	56	21.00		
	0.8s	32.96nm			5.1mb		MSU	50.11	76	ePc	28	29.52	-0.5		CHTO	67.76	272	ePc	30	31.30
		29	18.91				PLM	50.62	84	eP	28	33.76	-0.1			0.8s	31.66nm		5.5mb	
KMPM	41.65	82	(P)	27	21.89	-0.8			e	28	53.75			TKL	68.39	60	(P)	30	34.39	
LGPM	42.15	80	eP	27	27.86	1.0	XAN	50.68	277	iPc	28	33.00	-1.1		OBN	68.44	337	iPc	30	35.20
		29	22.66					1.0s	50.00nm			5.5mb			0.9s	110.00nm		5.9mb		
BJI	42.39	279	eP	27	29.00	0.3	Z	20s	0.61um			4.6msz			Z	20s	1.10um		5.1msz	
	1.0s	66.00nm			5.3mb				pP	28	44.00	38kmX			N	20s	1.10um			
Z	24s	0.57um			4.4msz				sP	28	49.20						ePcP	30	50.00	
LBFM	42.47	79	eP	27	30.32	0.7	SRU	50.72	74	eP	28	34.14	-0.4				eP	30	59.00	
WDC	42.53	80	ePd	27	30.88	1.1	RSSD	51.34	65	ePc	28	37.64	-1.7				esP	31	09.00	
	0.9s	16.33nm			4.8mb			0.4s	3.93nm			4.7mb					eSS	44	30.00	
IRK	42.70	300	iPc	27	29.60	-1.4	Z	22s	0.41um			4.4msz					eSSS	47	44.00	
	1.5s	41.00nm			4.9mb				ePcP	29	52.92			NAV	68.71	57	eP	30	36.63	
Z	20s	1.27um			4.8msz		DAG	51.42	4	iPd	28	38.00	-1.1				ePcP	31	01.98	
N	20s	0.85um						0.8s	22.39nm			5.2mb		GUN	68.95	289	P	30	40.20	
E	20s	0.85um					ULM	51.94	55	ePc	28	45.00	1.5		BLA	68.98	56	eP	30	39.11
		27	46.00						pP	29	58.00	349kmX			0.6s	18.12nm		5.3mb		
		29	20.20				PV09	51.94	74	eP	28	41.70	-2.3		NST	69.39	269	eP	30	43.00
		37	21.00				PV10	52.08	74	eP	28	43.70	-1.3		KKN	69.40	289	P	30	42.80
		42	26.00				GLA	52.08	83	eP	28	45.04	0.2		CVL	69.40	55	eP	30	41.88
NTYM	43.78	83	eP	27	41.01	1.1			e	29	04.22					</				

GKN	69.62	289	P	30	43.80	-0.3	ZST	78.91	346	iPc	31	38.00	0.8	RMO	81.59	205	eP	31	52.10	0.5	
DMN	69.63	289	P	30	44.20	-0.1	VKA	78.95	347	eP	31	37.00	-0.5		0.3s	6.00nm			5.1mb		
PRM	70.33	60	eP	30	47.27	-0.9	SRO	79.09	345	iP	31	39.20	1.0	AVF	81.69	355	iPc	31	52.00	0.0	
CEH	70.68	56	eP	30	49.25	-1.0	LANF	79.21	352	P	31	38.73	-0.1		0.4s	8.50nm			5.1mb		
	0.4s	44.29nm			5.9mb		BUD	79.30	345	eP	31	39.60	0.3	CEY	81.69	347	eP	31	52.00	-0.1	
		eP	31	00.78	38kmX		VRI	79.35	339	ePd	31	42.00	2.4	CTI	81.74	349	Pc	31	52.10	-0.3	
JSC	70.78	59	ePc	30	49.91	-0.9	SOP	79.49	346	eP	31	40.60	0.3	VBY	81.81	347	eP	31	52.60	0.0	
LHS	70.86	59	ePc	30	50.34	-1.0	CVO	79.52	339	ePc	31	44.00	3.4X			i		32	08.70		
KHT	71.03	270	iPc	30	52.30	-0.3	STR	79.61	352	P	31	41.46	0.5	SMF	81.81	355	iPc	31	52.70	0.1	
MUD	71.68	353	iPc	30	56.50	0.7	FUR	79.69	350	iPc	31	41.50	0.1		0.4s	13.85nm			5.3mb		
	0.9s	52.00nm			5.6mb			1.2s	56.00nm			5.4mb	TRI	81.81	348	eP	31	51.40	-1.2		
EDU	72.10	360	ePc	30	57.60	-0.8	WLS	79.81	353	P	31	41.96	-0.2	BGF	81.95	356	iPc	31	53.40	0.1	
	1.4s	29.00nm			5.1mb		CDF	79.82	353	P	31	41.96	-0.3		0.5s	7.85nm			5.0mb		
COP	72.15	351	iPc	30	58.10	-0.6	FLN	79.86	358	iPc	31	41.90	-0.4	TMA	81.97	351	iPc	31	54.00	0.3	
	0.8s	95.52nm			5.8mb			0.4s	14.00nm			5.3mb	MFF	82.01	358	iPc	31	53.90	0.2		
		iP	31	14.40	59kmX		Z	20s	0.15um			4.3Msz		0.6s	8.20nm			4.9mb			
ELO	72.18	0	ePc	30	58.10	-0.8	MLR	79.88	339	ePc	31	45.00	2.3	MMK	82.10	352	ePc	31	55.50	1.0	
EBH	72.40	360	ePc	30	59.60	-0.6	BHG	79.94	349	eP	31	43.40	0.6	DIX	82.12	352	iPc	31	55.60	1.0	
	1.2s	29.00nm			5.2mb		ECH	80.02	353	P	31	42.90	-0.3	EMS	82.17	353	iPc	31	55.30	0.5	
BSD	72.44	349	iP	30	59.00	-1.4	LDF	80.02	358	iPc	31	42.80	-0.4	MDI	82.21	351	P	31	54.60	-0.1	
	0.7s	22.00nm			5.3mb			0.6s	23.25nm			5.4mb	VAI	82.22	351	Pc	31	54.90	0.2		
		iP	31	18.00	71kmX		LIBD	80.05	352	P	31	43.33	0.0	TCF	82.25	356	iPc	31	55.00	0.1	
ESY	72.73	359	ePc	31	01.40	-0.7	VITF	80.11	354	P	31	43.49	-0.2		0.5s	6.70nm			4.9mb		
	1.3s	20.00nm			5.0mb		UZD	80.23	345	eP	31	44.80	0.5	SAL	82.30	350	P	31	55.20	0.1	
EAU	72.80	360	ePc	31	02.30	-0.3	GRR	80.24	358	iPc	31	44.30	0.0	MAF	82.30	356	iPc	31	55.50	0.3	
	1.2s	32.00nm			5.2mb			0.5s	25.65nm			5.5mb		0.8s	16.10nm			5.1mb			
EBL	72.87	360	eP	31	03.30	0.3	WB2	80.28	220	iPd	31	44.00	-0.9	LSF	82.31	356	iPc	31	55.30	0.0	
EKA	73.32	360	Pc	31	05.20	-0.3		0.7s	22.70nm			5.3mb		0.7s	14.10nm			5.1mb			
	0.7s	21.00nm			5.2mb				i			31	56.30								
PMO	73.32	144	iPc	31	06.40	0.4	WRA	80.29	220	P	31	45.00	0.1	ORX	82.52	352	P	31	56.00	0.1	
TPT	73.40	144	iPc	31	06.90	0.4		0.6s	2.60nm			4.4mb	RSL	82.58	353	P	31	56.40	0.6		
VAH	73.63	144	iPc	31	05.50	-2.3	FEL	80.29	352	P	31	44.43	-0.4X	LPL	82.74	353	iPc	31	56.00	0.0	
RUV	73.68	144	iPc	31	08.50	0.4	CMP	80.29	340	ePd	31	49.00	4.3X		0.8s	23.65nm			5.3mb		
DZM	73.99	190	iPc	31	11.50	1.6	HAU	80.29	353	iPc	31	44.50	-0.2	LPG	82.76	353	iPc	31	56.10	0.1	
DMU	74.72	2	eP	31	13.50	-0.2		0.6s	18.85nm			5.3mb	LSD	82.76	352	P	31	56.10	0.1		
	0.8s	71.00nm			5.7mb		Z	22s	0.25um			4.5Msz	COLF	82.94	355	P	31	56.10	0.1		
DCN	75.26	2	eP	31	16.50	-0.3	SLE	80.36	352	ePc	31	44.80	-0.2	RSP	83.06	352	P	31	56.10	0.1	
MTN	75.31	226	eP	31	17.00	-0.5	MOF	80.39	353	P	31	45.03	-0.2	SSB	83.13	354	P	31	56.10	0.1	
	0.6s	90.00nm			5.9mb		BSF	80.43	353	iPc	31	45.20	-0.3	BNI	83.20	353	Pc	31	56.10	0.1	
DLF	75.33	2	eP	31	17.30	0.1		0.7s	17.40nm			5.2mb	BOB	83.24	351	Pc	31	56.10	0.1		
	0.9s	86.00nm			5.7mb		WATA	80.47	350	iPc	31	46.00	0.2	RJF	83.26	356	iPc	31	56.00	-0.2	
WIT	75.49	354	eP	31	19.50	1.4			i			31	57.20						4.2mb		
CTA	76.23	209	iP	31	22.50	-0.2			i			32	01.80		Z	23s	0.13um		4.2mb		
CLL	76.39	349	iPc	31	22.50	-0.8	MOTA	80.52	350	iPc	31	46.00	-0.1	PLE	83.26	343	iPc	31	56.10	0.1	
	1.5s	27.00nm			5.0mb			1.0s	44.60nm			5.4mb	RRL	83.33	353	P	31	56.10	0.1		
KSP	76.44	347	iPc	31	23.30	-0.2			i			31	57.40		BHB	83.37	352	P	31	56.10	-0.6
		i	31	29.90					i			32	02.00		KER	83.48	320	eP	31	56.00	5.31
MAIO	76.48	312	iPc	31	24.50	0.3	KBA	80.52	348	iPc	31	47.10	1.0	PCP	83.55	351	P	31	56.00	-0.1	
	0.8s	16.47nm			5.1mb			0.5s	67.80nm			5.9mb	CAF	83.61	356	iPc	31	56.00	0.4		
OJC	76.52	345	iP	31	24.10	0.1			i			32	05.20		IVA	83.61	343	iPc	31	56.10	0.4
	0.7s	95.00nm			5.9mb				i			32	11.20		MME	83.67	350	Pc	31	56.00	0.3
		e	31	34.00					i			32	14.90		CKI	83.69	351	Pc	31	56.10	-0.3
BRG	76.71	349	iPc	31	24.20	-0.9	WTTA	80.54	350	iPc	31	46.70	0.5	DOI	83.70	352	Pd	31	56.10	-0.7	
	1.1s	21.00nm			5.1mb			0.5s	27.10nm			5.5mb	PZZ	83.71	352	P	31	56.10	-0.3		
		e	31	34.20					i			32	02.70		RSM	83.73	348	Pc	31	56.10	1.6
MOX	77.20	350	iPc	31	27.50	-0.3			i			32	06.20		SURF	83.76	353	P	31	56.10	1.2
	1.1s	34.00nm			5.3mb		TAB	80.54	322	eP	31	48.00	1.7	BDI	83.82	350	Pd	31	56.10	0.1	
		e	31	42.30			LPF	80.61	358	iPc	31	46.30	0.0	ASPA	83.82	219	iPc	31	56.10	0.3	
IPM	77.40	261	ePc	31	28.50	-0.9		0.6s	13.80nm			5.1mb		0.9s	28.30nm			5.4mb			
	0.8s	56.80nm			5.7mb		SQTA	80.63	350	iPc	31	46.90	0.3	BRY	83.83	344	iPc	31	56.10	-0.3	
SPC	77.44	344	iPc	31	29.80	0.4		0.7s	27.70nm			5.4mb	NKY	83.83	344	iPc	31	56.10	-0.1		
PRU	77.51	348	Pc	31	29.30	-0.2			i			31	59.10		ROB	83.86	352	P	31	56.00	-0.2
	1.0s	14.70nm			5.0mb				i			32	02.80		PVY	83.87	343	iPc	31	56.10	0.1
		e	31	45.00			GZR	80.64	342	iPd	31	47.00	0.4	PGD	83.87	349	Pc	31	56.10	1.6	
ENN	77.57	354	iPc	31	29.90	0.1	BZS	80.64	342	iPd	31	46.50	0.0	LPO	83.89	357	iPc	31	56.10	0.2	
	0.9s	63.40nm			5.6mb		ZLA	80.65	352	iPc	31	46.70	0.1		0.6s	17.25nm			5.4mb		
		e	31	42.50			BBS	80.74	352	P	31	47.07	0.0	FIN	83.91	352	P	31	56.10	-0.4	
VRAC	77.89	347	iPc	31	32.10	0.6	LOMF	80.91	353	P	31	48.01	0.0	STV	83.95	352	P	31	56.10	-1.2	
	1.3s	238.20nm			6.1mb		OGA	81.00	350	iPc	31	49.30	0.6	ENR	83.96	352	P	31	56.10	-1.1	
TNS	77.92	352	ePc	31	31.80	0.0		0.5s	16.00nm			5.3mb	FIR	84.02	349	eP	31	56.10	-1.0		
SNF	77.93	355	iPc	31	31.61	-0.1	FVI	81.06	349	Pc	31	48.60	-0.1	CRE	84.09	349	Pc	31	56.10	0.8	
		e	31	45.20			RBL	81.12	348	Pc	31	49.00	-0.1	ARV	84.09	348	Pc	31	56.10	1.0	
GRF	78.19	350	iPc	31	33.60	0.4	LOR	81.19	355	iPc	31	49.20	-0.2	TTG	84.16	343	iPc	31	56.10	-0.1	
	0.8s	34.00nm			5.4mb			Z	18s	0.15um		4.4Msz	PII	84.16	350	Pc	31	56.10	-0.4		
	Z	20s	0.20um		4.4Msz		LLS	81.20	351	ePc	31	50.10	0.4	SAOF	84.19	352	P	31	56.10	0.1	
		e	31	38.00			OSS	81.27	351	iPc	31	50.60	0.6	TOUF	84.19	352	P	31	56.10	0.6	
		e	31	49.10			HYB	81.29	287	iPc	31	50.20	-0.2	SKO	84.19	342	iP	31	56.10	0.6	
DOU	78.33	355	Pc	31	33.90	0.0		0.8s	173.												

13d 21h

CALN 84.48 352 P 32 06.98 0.4
 ASS 84.55 348 Pc 32 07.40 0.6
 GAZ 84.57 328 iP 32 07.80 0.9
 VAY 84.59 341 iPc 32 07.60 0.7
 1.0s 75.00nm 5.8mb
 ULC 84.61 343 iPc 32 07.06 0.0
 ARMA 84.65 201 iPd 32 09.20 1.9
 0.5s 10.00nm 5.3mb
 FRF 84.69 353 eP 32 07.90 0.5
 0.7s 19.85nm 5.4mb
 LRG 84.82 353 iPc 32 08.70 0.7
 0.6s 12.80nm 5.3mb
 Z 22s 0.32um 4.7msz
 LMR 84.93 353 iPc 32 09.20 0.6
 0.7s 18.10nm 5.4mb
 GBA 84.94 285 Pc 32 08.00 -1.0
 OHR 85.15 342 iP 32 09.60 -0.2
 AQU 85.15 347 P 32 10.90 1.1
 EMON 85.17 3 iPd 32 10.00 0.1
 PGF 85.48 351 P 32 11.90 0.4
 LESF 85.54 356 P 32 12.33 0.6
 EPF 85.57 357 iPc 32 11.70 -0.2
 0.6s 7.30nm 5.1mb
 MTHF 85.57 356 P 32 12.84 0.9
 STS 85.67 4 eP 32 13.00 0.7
 GRBF 85.72 356 P 32 13.26 0.6
 SDI 85.73 347 P 32 12.50 -0.3
 KHL 85.79 335 eP 32 13.00 -0.1
 ECR 86.05 359 eP 32 15.00 0.7
 RFI 86.11 347 P 32 15.68 1.2
 1.4s 81.60nm 5.8mb
 ETER 86.19 355 eP 32 15.90 1.0
 EGRA 86.42 358 eP 32 16.50 0.5
 ORI 86.94 345 Pd 32 19.60 0.9
 MGR 87.01 345 P 32 18.50 -0.5
 CMS 87.11 266 iPd 32 20.80 1.5
 0.5s 4.00nm 4.9mb
 TDS 87.36 345 P 32 20.10 -0.5
 ETOR 87.83 359 iPd 32 24.80 1.8
 GRI 88.16 345 P 32 24.32 -0.3
 0.8s 49.80nm 5.9mb
 STK 88.70 289 iPc 32 27.70 0.8
 0.9s 4.00nm 4.7mb
 WARB 89.02 223 iPc 32 29.30 0.7
 TOO 92.95 204 iPd 32 48.10 1.6
 0.5s 15.00nm 5.7mb
 BFD 93.36 207 eP 32 34.40 -13.9X
 0.7s 7.00nm
 ZOBO 118.34 80 PKP 38 22.00 -0.4
 CNCB 118.83 80 PKP 38 24.20 1.0
 BCAO 120.97 334 iPKPc 38 25.90 -0.8
 0.2s 20.00nm
 ic 38 36.00
 id 39 46.50
 id 39 54.10
 ic 40 09.80
 TIC 121.85 2 PKP 38 27.62 -0.7
 KIC 122.14 1 PKPc 38 28.24 -0.6
 0.7s 20.00nm
 LIC 122.27 2 PKPc 38 28.46 -0.7
 Z 20s 0.13um 4.6msz
 SIV 122.39 74 PKP 38 31.40 2.1
 AVY 128.36 290 ePKP 38 41.40 0.4
 VTY 128.60 290 ePKP 38 40.80 -0.6
 BAO 129.62 61 iPKPc 38 43.10 -0.3
 e 38 56.80
 TCA 131.53 90 iPKPc 38 46.80 0.2
 SPA 141.53 180 ePKPd 39 00.00 -4.2X
 0.7s 93.75nm
 SLR 144.57 305 iPKPc 39 07.80 -2.8X
 0.8s 44.78nm
 MAW 144.94 218 iPKP 39 09.00 -0.7
 0.9s 146.67nm
 WIN 146.80 323 ePKP 39 15.00 0.5
 0.7s 52.05nm
 FRS 149.35 305 ePKP 39 18.00 -0.1
 0.7s 44.52nm
 i 39 27.20
 S.D. = 0.9 on 360 of 369 obs.
 % FEB 13, 1993 21h 58m 44.31±0.74s
 42.802 N ±10.3km 12.918 E ±15.9km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 ASS 0.33 325 Pc 58 50.20 -0.9
 eSg 58 55.40

AQU 0.57 141 P 58 55.30 -0.7
 eSg 59 04.50
 ARV 0.70 1 P 58 57.80 -0.3
 eSg 59 09.80
 CRE 1.09 320 P 59 04.70 -0.1
 eSg 59 19.50
 RSM 1.18 343 P 59 07.20 1.0
 SDI 1.28 148 P 59 08.70 0.6
 PGD 1.38 321 P 59 10.20 0.4
 S.D. = 0.9 on 7 of 7 obs.
 FEB 13, 1993 22h 11m 11.85±0.33s
 6.699 N ±3.3km 123.709 E ±5.0km
 DEPTH = 616.9 ±4.9 km
 5.0mb (42 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)
 Mw 5.3 (HRV)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 18C
 Centroid Location:
 Origin Time 22:11:17.0 0.7
 Lat 6.71N FIX:Lon 123.71E FIX
 Dep 615.4 6.6 Half-duration 1.0
 Moment Tensor: Scale 10**16 Nm
 Mrr=-1.21 0.95 Mtt= 2.16 1.01
 Mff=-0.95 1.71 Mrt=-5.69 0.91
 Mrf=-7.08 1.20 Mtf= 0.06 1.14
 Principal Axes:
 T Val= 8.84 Plg=42 Azm=140
 N 0.83 9 41
 P -9.66 47 301
 Best Double Couple:Mo=9.2*10**16
 NP1:Strike=295 Dip=10 Slip= -16
 NP2: 41 87 -99
 DAV 1.89 78 ePd 12 27.50 -1.3
 1.0s 952.00nm
 MNI 5.34 168 ePd 12 49.00 0.1
 eS 14 09.00
 KKM 7.48 265 ePc 13 07.70 0.3
 0.9s 723.10nm 5.7mb
 e 14 35.00
 KHK 17.00 208 eP 14 40.50 1.7
 OIZ 18.23 314 P 14 49.00 -1.2
 0.6s 15.00nm 4.6mb
 eS 17 47.00
 MTN 20.77 159 eP 15 12.40 -1.1
 0.4s 83.00nm 5.6mb
 KGM 20.85 258 ePd 15 14.50 0.2
 IPM 22.67 266 ePd 15 30.20 -0.5
 1.0s 66.50nm 5.2mb
 LOE 23.95 298 iPd 15 42.00 -0.1
 SSE 24.39 355 eP 15 46.80 1.1
 NST 24.76 293 iPd 15 56.00 6.8X
 WHN 25.30 341 Pc 15 54.70 1.0
 0.5s 260.00nm 6.1mb X
 S 19 40.00
 GYA 25.49 322 P 15 55.80 0.1
 0.8s 17.00nm 4.7mb
 PcP 19 05.40
 S 19 42.00
 ScP 21 46.60
 ScS 25 36.00
 NJ2 25.63 350 Pc 15 57.60 1.0
 KHT 25.93 290 iPd 16 00.00 0.6
 CHTO 26.94 299 iPd 16 08.30 0.1
 0.6s 44.61nm 5.3mb
 KMI 27.17 315 Pd 16 11.50 1.1
 1.5s 200.00nm 5.5mb
 PMG 28.32 124 eP 16 18.50 -1.7
 0.8s 44.78nm 5.1mb
 WRA 28.47 159 P 16 20.90 -0.5
 0.6s 18.00nm 4.9mb
 WB2 28.47 159 iPd 16 20.30 -1.1
 0.5s 504.80nm 6.4mb X
 eS 20 23.40
 iScP 21 55.40
 TIA 29.99 349 eP 16 34.00 -0.2
 XAN 30.45 335 iPd 16 37.80 -0.4
 0.5s 75.00nm 5.6mb
 pP 17 33.80 287kmX
 S 20 56.00
 CD2 30.49 325 Pd 16 38.40 -0.2
 0.6s 28.00nm 5.1mb
 ASPA 31.78 162 iPc 16 49.40 0.0
 0.3s 242.90nm 6.3mb X

Z 23s 0.10um 3.4mszX
 eS 21 15.40
 eScP 22 06.10
 DL2 32.12 357 P 16 52.00 0.0
 TIY 32.53 343 iPc 16 55.90 0.3
 0.8s 59.00nm 5.3mb
 S 21 31.00
 WARB 32.81 175 eP 16 58.50 0.5
 MEEK 33.50 188 iPc 17 03.50 -0.3
 0.3s 20.00nm 5.2mb
 BJI 33.88 350 eP 17 06.50 -0.2
 1.0s 22.00nm 4.7mb
 eS 21 50.00
 LZH 34.45 331 iPd 17 12.50 0.8
 1.6s 82.00nm 5.1mb
 eS 22 00.00
 CTA 34.65 141 iPc 17 13.80 0.5
 0.5s 29.93nm 5.2mb
 i 22 17.50
 SNY 34.98 360 Pd 17 15.40 -0.4
 HMC 35.69 344 Pd 17 22.60 0.8
 0.6s 38.00nm 5.2mb
 BTO 35.91 342 eP 17 23.30 -0.3
 MRWA 36.47 191 iPc 17 27.20 -1.0
 0.4s 23.00nm 5.1mb
 CN2 36.99 2 eP 17 30.50 -1.7
 COOL 37.45 184 iPc 17 35.60 -0.6
 0.4s 12.00nm 4.8mb
 FORT 37.50 174 eP 17 36.70 0.2
 BAL 37.69 190 iPc 17 37.80 -0.4
 0.4s 14.00nm 4.9mb
 MDJ 38.12 7 eP 17 41.80 0.4
 LSA 38.23 311 iPd 17 44.60 1.4
 0.8s 51.00nm 5.1mb
 KLB 38.50 188 iPc 17 44.40 -0.2
 0.4s 19.00nm 5.0mb
 GTA 39.03 330 P 17 50.00 0.9
 1.0s 57.00nm 5.1mb
 PcP 19 43.00
 ScP 22 34.00
 MUN 39.12 190 iPc 17 49.40 -0.3
 RKG 41.53 188 iPc 18 09.40 0.6
 0.4s 13.00nm 4.8mb
 GUN 41.56 305 P 18 09.80 0.1
 PKI 41.81 304 P 18 11.40 -0.2
 STK 41.99 157 iPc 18 13.00 0.5
 0.6s 61.60nm 5.3mb
 eScP 22 45.00
 eS 23 47.90
 KKN 42.00 305 P 18 12.80 -0.2
 DMN 42.08 304 P 18 13.60 0.0
 GKN 42.61 305 P 18 17.60 -0.1
 CMS 43.46 152 iPc 18 24.60 0.6
 0.4s 10.00nm 4.7mb
 ADE 43.79 162 eP 18 27.20 0.6
 BRS 44.04 142 iPd 18 28.50 0.0
 0.5s 20.00nm 4.9mb
 e 22 55.00
 ARMA 45.59 146 iPc 18 42.10 1.6
 0.6s 47.00nm 5.2mb
 GBA 46.00 282 Pd 18 43.00 -0.7
 BFD 47.07 159 iPc 18 51.20 -0.3
 0.4s 16.00nm 4.9mb
 BWA 47.10 152 iPc 18 53.50 1.6
 CAN 48.11 152 iPc 19 00.00 0.6
 IRK 48.15 344 eP 18 59.30 -0.2
 1.8s 62.00nm 4.8mb
 TOO 48.51 157 iPc 19 03.00 0.6
 0.4s 63.00nm 5.5mb
 WMQ 48.59 325 P 19 03.00 0.1
 1.0s 53.00nm 5.0mb
 PcP 20 15.00
 pP 20 50.00 585kmX
 ScP 23 11.50
 S 25 20.00
 ScS 27 46.00
 sS 28 38.00
 NDI 48.99 302 iPd 19 04.50 -1.5
 0.7s 109.59nm 5.5mb
 DZM 50.70 126 iPc 19 19.20 0.5
 KSH 53.80 315 Pd 19 42.00 1.3
 0.7s 70.00nm 5.1mb
 TAU 53.84 159 eP 19 41.00 0.3
 QUE 58.03 301 eP 20 10.50 0.4
 MSZ 64.73 147 P 20 53.70 1.0
 0.5s 53.00nm 5.2mb
 MAIO 65.33 307 iPd 20 56.70 -0.1

LITZ 66.07 143 P 21 00.90 -0.2
0.6s 30.00nm 4.9mb
MNG 66.88 139 P 21 05.10 -0.9
DHJN 78.71 287 iPc 22 14.40 0.6
AVY 79.02 249 iPd 22 14.70 -0.6
TAN 79.19 249 iPd 22 15.60 -0.5
VTY 79.23 249 iPd 22 15.60 -0.7
KMTA 79.27 287 iPd 22 14.00 -2.7
ABHA 79.37 287 eP 22 19.00 1.8
IMA 80.91 24 eP 22 24.81 0.7

0.6s 2.74nm 4.0mb X
RSO 81.02 30 (P) 22 24.67 -0.2
SLKM 82.28 30 eP 22 30.63 -0.3
FBA 83.34 25 eP 22 38.00 1.8
0.9s 3.33nm 3.9mb X
KVT 83.89 311 iP 22 39.00 -0.4
AYN 84.81 298 ePd 22 44.67 0.7
KEV 86.08 340 eP 23 04.00 14.6X
SDF 86.67 337 iP 22 51.20 -1.0
NAI 87.07 268 iPd 22 56.00 0.6

Z 20s 0.18um 4.5msz

KAF 87.59 332 iP 22 55.60 -1.0
0.6s 14.90nm 4.9mb

NUR 88.66 331 iP 23 00.10 -1.4
0.6s 10.70nm 4.9mb

VR1 90.08 316 eP 23 10.00 1.6
MLR 90.69 316 ePc 23 13.00 1.6

VAY 93.92 312 iP 23 24.50 -1.6
DAG 93.94 352 eP 23 24.80 -0.8

0.7s 6.85nm 4.9mb
NB2 94.80 333 P 23 28.10 -1.7

0.7s 4.70nm 4.8mb
GEC2 97.90 321 P 23 43.60 -0.6

0.6s 1.39nm 4.5mb
e 23 45.70

VBV 97.97 318 eP 23 44.40 0.0
YKA 98.02 24 eP 23 44.00 -0.3

0.9s 1.00nm 4.1mb
GRF 99.13 323 eP 23 50.00 0.5

KIC 126.95 283 PKP 29 09.20 -0.2
TIC 127.16 284 PKP 29 09.60 -0.2

LIC 127.26 283 PKP 29 09.70 -0.3

S.D. = 0.9 on 98 of 100 obs.

% FEB 13, 1993 22h 26m 55.57±0.51s
40.415 N ± 5.7km 28.865 E ± 4.3km

DEPTH = 5.0km (geophysicist)

TURKEY (366)
MD 3.0 (ISK).

YLV 0.42 68 iPg 27 04.00 0.1
eSg 27 09.50

KCT 0.42 247 iPg 27 03.50 -0.6
eSg 27 09.10

ISK 0.67 13 iPg 27 09.00 0.1
iSg 27 17.50

HRT 0.73 56 ePg 27 09.60 -0.6
EDC 0.77 265 iPg 27 10.00 -1.0

iSg 27 21.00

DST 0.83 193 ePg 27 11.40 -0.7
EYL 1.00 81 iPg 27 14.30 -0.7

eSg 27 28.50

GPA 1.11 96 ePn 27 17.00 0.1
DMK 1.64 330 iPn 27 25.90 0.8

ALT 1.66 144 ePn 27 27.00 1.4
EZN 2.03 254 ePn 27 32.00 1.1

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

* FEB 14, 1993 00h 46m 25.24±1.17s
23.619 S ± 8.3km 70.880 W ± 17.7km

DEPTH = 33.0km (normol)

4.0mb (1 obs.)

NEAR COAST OF NORTHERN CHILE (122)

ANT 0.43 101 iPd 46 34.50 -0.4
iS 46 40.50

RTRS 6.65 169 e(P) 48 03.50 0.4
ARE 7.14 355 e(P) 48 20.00 9.6X

CNCB 7.30 22 P 48 13.20 0.4
LPB 7.52 21 eP 48 17.00 1.2

ZOBO 7.74 20 eP 48 18.00 -1.0
SIV 11.94 52 Pc 49 20.60 4.3X

YKA 92.58 341 eP 59 33.50 -0.6
0.7s 0.40nm 4.0mb

S.D. = 1.1 on 6 of 8 obs.

& FEB 14, 1993 01h 22m 57.43s
39.455 N 119.664 W
DEPTH = 2.2km
NEVADA (37)
<GM-P>. MD 2.5 (GM).

KVN 1.28 108 ePn 23 20.52 -1.5
eS 23 37.32

ORV 1.42 275 ePn 23 23.21 -1.1
eS 23 43.47

BONR 1.84 144 ePn 23 30.69 0.2
eS 23 57.08

MEMM 1.87 162 ePn 23 31.93 1.2
eS 23 59.84

MTUM 2.27 157 (P) 23 37.20 0.5
TNP 2.35 125 ePn 23 39.10 1.2

eS 24 11.92

LBFM 2.54 319 (Pn) 23 42.43 1.9
7 obs. associated

% FEB 14, 1993 01h 31m 39.32±0.74s
37.041 N ± 6.0km 3.647 W ± 6.6km

DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.6 (MDD).

EGUA 0.22 162 iPnc 31 43.73 -0.3
eS 31 47.00

ECOG 0.24 15 iPnc 31 43.60 -1.0
eS 31 46.90

ELUO 0.72 317 ePn 31 53.30 -0.2
eS 32 03.00

EBAN 1.13 354 ePn 32 00.33 -0.1
eS 32 16.60

EHUE 1.14 47 ePn 32 01.83 1.1
eS 32 16.00

ENIJ 1.16 93 iPnd 32 00.88 -0.1
eS 32 16.20

EHOR 1.49 302 ePg 32 06.82 0.6
eSg 32 25.60

EVIA 1.83 29 ePg 32 11.13 -0.1
eSg 32 33.80

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

FEB 14, 1993 01h 38m 36.74±0.77s
38.022 N ± 8.0km 23.038 E ± 7.5km

DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 3.0 (ATH).

ATH 0.54 95 eP 38 47.50 -0.1
eS 38 57.50

VLI 1.30 184 eP 39 01.00 0.1
VLS 1.94 275 eP 39 10.00 0.0

VAY 3.31 354 ePn 39 31.00 1.3
OHR 3.54 331 ePn 39 37.30 4.4X

SKO 4.13 343 ePn 39 40.00 -1.2
GAZ 11.28 90 ePn 41 20.90 -0.1

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

FEB 14, 1993 01h 52m 59.19±0.34s
55.270 N ± 11.5km 35.449 W ± 4.7km

DEPTH = 10.0km (geophysicist)

4.4mb (17 obs.)

NORTH ATLANTIC OCEAN (402)

EKA 18.30 76 P 57 16.00 1.6
1.0s 7.90nm 3.8mb

LMN 20.75 255 eP 57 50.00 7.7X
LPF 22.36 95 eP 57 58.60 0.1

1.5s 40.75nm 4.7mb
LSF 24.81 96 eP 58 22.70 0.3

0.9s 6.90nm 4.3mb
TCF 25.17 95 eP 58 26.20 0.3

SSF 25.48 92 eP 58 28.80 0.1
0.9s 5.55nm 4.3mb

AVF 25.54 93 eP 58 29.80 0.5
1.0s 6.00nm 4.2mb

LOR 25.57 92 eP 58 29.60 0.0
Z 23s 0.22um 3.6mszx

LBF 25.79 92 eP 58 31.80 0.1
1.3s 10.85nm 4.4mb

GEC2 30.35 81 P 59 11.60 -1.4
1.0s 0.81nm 3.5mb

e 02 11.60
e 18 26.00

FCC 31.23 301 eP 59 24.00 3.6X

KAF 31.67 52 iP 59 22.90 -1.4
1.0s 16.10nm 4.9mb

ULM 35.90 288 eP 00 04.50 3.5X
YKA 39.08 314 eP 00 26.50 -1.0

0.9s 2.40nm 3.9mb
FVM 40.35 268 eP 00 40.00 1.7

0.6s 6.50nm 4.5mb
OLY 42.69 266 eP 00 58.04 0.6

SES 43.85 297 eP 01 09.00 2.2X
UYO 45.35 268 iPc 01 19.10 0.0

ACO 46.23 274 iPd 01 24.30 -1.7
LCCM 47.14 292 eP 01 33.70 0.5

MEO 47.27 272 iPc 01 34.70 0.5
GOL 47.68 281 eP 01 41.70 4.0X

1.3s 3.13nm 4.2mb
BW06 47.91 287 eP 01 39.29 -0.2

0.9s 1.41nm 4.1mb
NEW 48.28 298 (P) 01 42.00 0.0

1.0s 5.00nm 4.5mb
FBA 49.54 329 eP 01 50.81 -0.6

1.2s 5.22nm 4.4mb
IMA 50.34 332 eP 01 57.09 -0.6

1.0s 5.75nm 4.5mb
PV10 50.65 283 eP 02 01.70 1.1

BMW 52.55 300 eP 02 14.00 -0.6
CRP 53.58 328 (P) 02 20.30 -1.4

TNP 55.37 288 eP 02 36.50 0.9
0.9s 3.52nm 4.4mb

BONR 56.05 289 eP 02 40.00 0.2
BCAO 66.52 118 ePd 03 40.00 -3.2

1.0s 5.00nm 4.4mb
BAO 71.42 193 iPd 04 20.00 -0.0

SIV 74.23 206 Pd 04 41.00 5.1
ZOBO 76.46 212 P 04 41.00 0.4

GKN 82.57 50 P 04 41.00 0.7
KKN 83.04 50 P 04 41.00 0.0

DMN 83.12 50 P 04 41.00 0.1
GUN 83.19 50 P 04 41.00 0.2

PKI 83.28 50 P 04 41.00 0.0
ASPA 147.46 18 iPkPd 04 41.00 0.0

0.7s 13.80nm

S.D. = 1.1 on 3 of 4 obs.

? FEB 14, 1993 02h 30m 41.70±0.70s
38.530 N ± 39.0km 23.331 E ± 7.0km

DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.9 (THE).

AGG 0.81 308 ePg 38 57.00 -0.0
eSg 39 12.10

PAIG 1.45 16 ePb 39 09.00 0.0
LIT 1.65 342 ePb 39 12.40 0.6

eSb 39 36.20
OUR 1.91 19 ePn 39 15.00 -0.6

SOH 2.29 4 ePn 39 21.40 0.2
IGT 2.42 295 ePn 39 23.30 0.4

SRS 2.61 7 ePn 39 25.56 0.0
eS 40 00.12

KNT 2.64 356 ePn 39 26.32 0.3
eS 40 02.00

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

* FEB 14, 1993 03h 35m 01.31±0.45s
28.143 S ± 13.9km 176.893 W ± 12.9km

DEPTH = 33.2km (2 depth phases)

4.7mb (8 obs.)

KERMADEC ISLANDS REGION (177)

THZ 15.94 209 eP 38 45.30 0.6
KHZ 16.23 206 eP 38 47.90 -0.4

eS 41 37.10
DZM 16.25 288 iPd 38 57.10 8.3X

CTA 34.48 275 P 41 51.09 2.7
ASPA 44.25 264 iPd 43 09.20 -0.4

1.2s 8.80nm 4.5mb
i 43 23.50 55kmX

i 44 53.60
WB2 45.02 269 iPd 43 14.90 -0.9

1.0s 6.60nm 4.5mb
i 44 56.50

WRA 45.03 269 P 43 15.60 -0.3
0.8s 1.00nm 3.8mb

GSC 84.82 45 eP 47 34.17 0.3
BONR 85.62 43 ePd 47 38.80 0.8

LBFM 85.84 38 eP 47 39.89 0.9
TPNV 86.22 44 eP 47 41.49 0.6

14d 03h

KVN	0.7s	6.37nm	5.0mb	
TUC	86.45	42 eP	47 42.34	0.3
	86.95	51 eP	47 45.41	1.0
	0.8s	7.14nm	5.0mb	
		e	47 56.04	33km
GMW	89.68	33 ePd	47 57.25	0.2
MSU	89.72	45 ePc	47 58.06	0.3
RMW	90.10	34 eP	47 59.24	0.2
		e	48 09.86	33km
PV08	92.00	47 eP	48 08.56	0.2
BW06	93.84	43 ePd	48 15.50	-1.1
	0.9s	2.64nm	4.7mb	
LCCM	94.28	39 eP	48 14.20	-4.3X
FBA	95.46	12 eP	48 21.70	-1.6
	0.9s	3.75nm	4.8mb	
RSSD	97.93	44 eP	48 34.81	-0.4
	1.0s	7.15nm	5.2mb	
YKA	103.00	25 ePd	49 08.80	11.5X
	0.6s	0.20nm		
KAF	142.73	342 iPKP	54 26.10	-6.1X
	0.4s	1.60nm		
OBN	143.83	327 ePKP	54 31.00	-3.2X
	1.8s	48.00nm		
		e	54 32.90	
NUR	144.50	342 iPKP	54 32.50	-2.7
	0.6s	18.70nm		
UPP	146.77	347 iPKP	54 38.50	-0.5
COP	151.67	349 iPKPd	54 52.70	6.0X
	0.9s	36.97nm		
BCAO	152.23	215 iPKPc	54 56.00	7.1X
	0.2s	36.00nm		
		id	55 07.00	
		id	55 21.00	
KSP	155.23	340 ePKP	55 00.70	8.9X
		e	55 16.40	
CLL	155.69	345 ePKP	55 02.00	9.6X
		i	55 17.30	

S.D. = 1.1 on 21 of 30 obs.

% FEB 14, 1993 04h 35m 38.64± 1.21s
 38.039 N ±15.2km 14.174 E ± 6.7km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

GIB	0.13	247 P	35 41.00	-0.8
		eSg	35 43.30	
MNO	0.43	104 P	35 47.00	-0.4
		eSg	35 55.10	
MCT	0.59	227 P	35 51.50	0.8
ATN	1.02	83 P	35 57.80	-0.2
		eSg	36 12.80	
MEU	1.11	147 P	35 59.30	-0.3
		eSg	36 17.00	
SOI	1.49	88 P	36 06.20	0.8

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

? FEB 14, 1993 05h 04m 20.01± 2.02s
 10.987 N ±10.6km 60.351 W ±21.6km
 DEPTH = 62.9 ± 8.7 km
 4.2mb (1 obs.)

TRINIDAD (98)

MD 3.6 (TRN).

BOT	0.40	296 eP	04 30.66	-0.7
		eS	04 41.46	
TPR	0.46	295 iP	04 31.65	-0.3
		eS	04 43.40	
PIG	0.51	290 iP	04 32.61	0.2
TBH	0.86	235 iP	04 36.83	0.2
		eS	04 54.25	
TRN	1.09	252 iP	04 39.52	0.0
		eS	04 56.43	
TPP	1.27	238 iP	04 42.69	0.7
		eS	05 02.11	
TCE	1.41	258 iP	04 44.88	1.0
		eS	05 05.42	
GRW	1.73	312 eP	04 49.49	1.0
		eS	05 16.54	
FCV	2.33	338 eP	04 57.61	0.9
		eS	05 27.54	
SVB	2.44	339 eP	04 57.83	-0.4
		eS	05 30.62	
SVV	2.47	340 eP	04 59.21	0.5
		eS	05 32.07	
SLB	2.90	347 eP	05 03.63	-1.2
		eS	05 40.82	
GUAN	5.31	259 iP	05 37.90	-0.9

OLLA	6.42	262 iP	05 53.20	-1.1
CEOS	8.10	257 iP	06 12.80	-4.8X
SDV	10.34	259 eP	06 42.60	-5.8X
ULM	48.84	330 eP	13 04.00	3.1X
FCC	54.04	339 eP	13 44.50	4.5X
YKA	64.28	335 eP	14 50.90	0.2
	0.5s	1.40nm	4.2mb	

S.D. = 0.8 on 15 of 19 obs.

% FEB 14, 1993 05h 09m 26.22± 3.04s
 10.958 N ±11.1km 60.060 W ±26.0km
 DEPTH = 33.0km (normal)

TRINIDAD (98)

MD 3.3 (TRN).

BOT	0.68	288 eP	09 39.48	0.2
		eS	09 50.14	
TPR	0.74	288 iP	09 40.13	-0.1
		eS	09 51.22	
PIG	0.79	285 eP	09 41.18	0.3
		eS	09 53.07	
TBH	1.10	245 eP	09 45.50	0.2
		eS	10 01.56	
TRN	1.36	257 iPd	09 48.14	-0.8
		eS	10 05.27	
TPP	1.51	245 iP	09 51.70	0.5
		eS	10 11.00	
TCE	1.68	261 eP	09 53.51	-0.3
		iS	10 13.84	
GRW	1.97	307 iP	09 58.30	0.3
SVB	2.58	333 eP	10 06.33	-0.2
		eS	10 37.21	
SVV	2.60	334 eP	10 06.98	0.1

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

* FEB 14, 1993 05h 14m 43.54± 0.95s
 18.165 S ± 8.6km 178.247 W ±13.1km
 DEPTH = 578.7 ± 10.5 km
 4.7mb (6 obs.)

FIJI ISLANDS REGION (181)

MBU	3.13	292 iPc	16 02.50	0.3
DZM	14.89	252 iPc	17 50.90	-0.2
BWZ	28.11	198 P	19 50.90	-0.6
LRCZ	28.76	198 eP	19 57.00	-0.3
MMCZ	28.76	199 P	19 57.10	-0.2
		e	20 01.50	
MHZ	28.77	199 P	19 57.20	-0.2
SBCZ	28.79	198 P	19 57.30	-0.2
LSCZ	28.79	198 P	19 57.40	-0.1
CMCZ	28.85	198 eP	19 58.00	-0.1
TLC	28.95	199 P	19 59.50	0.5
ARMA	29.95	240 eP	20 08.00	0.3
	0.6s	8.00nm	4.5mb	
CTA	33.56	261 iPd	20 47.00	9.0X
CAN	33.67	233 eP	20 39.50	0.6
CMS	35.03	241 iPd	20 50.50	0.4
	0.9s	17.00nm	4.7mb	
TOO	37.13	231 eP	21 08.70	1.4
	0.8s	39.00nm	5.1mb	
WB2	44.72	260 eP	22 06.40	-1.5
	0.6s	9.70nm	4.5mb	
WRA	44.74	260 P	22 08.10	0.1
	0.4s	0.70nm	3.5mb X	
ASPA	44.87	254 iPd	22 08.30	-0.8
	0.7s	54.10nm	5.2mb	
		eS	28 01.70	
FBA	86.02	13 ePc	26 23.20	-0.7
YKA	94.50	25 eP	27 02.70	-0.3
	0.6s	0.40nm	3.8mb	
KSP	145.40	344 ePKPc	33 19.00	1.7
CLL	145.74	347 iPKPc	33 19.70	1.9X
	0.9s	9.00nm		
BRG	145.95	346 i(PKP)	33 20.40	2.2X
PRU	146.63	345 ePKP	33 22.50	3.2X
		e	33 25.00	
GRF	147.64	348 ePKP	33 25.90	5.0X
		e	33 29.50	
KHC	147.66	345 ePKP	33 26.00	5.0X
		e	33 30.00	
GEC2	147.90	345 PKP	33 25.70	4.2X
	0.5s	2.17nm		
		e	38 17.90	
FLN	149.43	3 ePKP	33 29.10	5.4X
CDF	149.50	353 ePKP	33 29.50	5.6X
LDF	149.61	2 ePKP	33 29.40	5.4X
GRR	149.78	3 ePKP	33 30.00	5.8X

HAU	0.5s	4.00nm		
LPF	150.00	354 ePKP	33 30.60	6.0X
	150.12	4 ePKP	33 31.00	6.3X
	0.5s	3.30nm		
BSF	150.13	353 ePKP	33 30.80	5.9X
	0.6s	1.80nm		
VBY	150.51	341 e(PKP)	33 32.40	7.0X
LOR	150.92	357 ePKP	33 32.80	6.8X
	0.5s	1.70nm		
SSF	151.15	358 ePKP	33 33.50	7.2X
	0.6s	2.05nm		
LBF	151.20	357 ePKP	33 33.40	6.9X
MFF	151.60	3 ePKP	33 34.20	7.2X
BGF	151.67	358 ePKP	33 34.40	7.3X
LSF	151.99	0 ePKP	33 35.00	7.4X
RJF	152.94	0 ePKP	33 37.30	8.4X
	0.8s	3.10nm		

S.D. = 0.8 on 20 of 42 obs.

* FEB 14, 1993 05h 51m 05.22± 0.96s
 7.573 S ± 8.5km 134.270 E ±19.1km
 DEPTH = 33.0km (normal)
 4.9mb (5 obs.)

ARU ISLANDS REGION, INDONESIA (204)

SLKI	2.97	262 iPd	51 50.00	-1.2
		iS	52 25.00	
MTN	6.08	210 eP	52 36.00	0.7
	0.4s	333.00nm		6.3mb X
		eS	53 43.00	
WB2	12.30	180 iPc	54 00.90	-0.1
	0.6s	60.00nm		5.9mb X
		eS	56 14.50	
PMG	12.88	99 eP	54 17.00	8.3X
ASPA	16.01	181 iPd	54 49.50	-0.2
		iP	54 57.90	
		eS	57 40.20	
WARB	19.88	201 eP	55 36.00	-0.8
RMO	23.32	146 iPd	56 19.50	8.2X
	0.9s	60.00nm		5.1mb
FORT	23.81	193 eP	56 19.00	2.9
ADE	27.57	172 e(P)	56 49.00	-2.3
BFD	30.41	167 eP	57 21.50	4.7X
	1.0s	17.00nm		4.8mb
CHTO	43.60	307 eP	59 08.80	0.5
XAN	47.85	331 eP	59 41.20	-0.8
	0.6s	4.10nm		4.6mb
TIY	49.45	337 eP	59 54.00	-0.4
LZH	52.00	329 eP	00 14.00	0.1
	1.4s	29.00nm		5.0mb
GTA	56.60	328 eP	00 47.00	-0.5
	1.0s	10.00nm		4.8mb
WMO	66.24	325 eP	01 54.20	1.9
DAG	109.33	354 ePKP	09 50.00	17.0X
	0.5s	2.11nm		
CNCB	147.27	138 PKP	10 51.00	4.8X
LPB	147.39	137 PKPc	10 53.30	7.1X
ZOBO	147.54	137 iPKPc	10 54.00	7.3X
CCH	148.03	141 PKP	10 56.00	8.9X
SIV	152.09	147 PKPc	11 09.10	16.2X

S.D. = 1.5 on 13 of 22 obs.

% FEB 14, 1993 05h 59m 09.72± 0.49s

45.174 N ± 3.5km 7.431 E ± 4.2km

DEPTH = 5.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.0 (GEN).

RSP	0.13	260 P	59 12.84	0.4
		S	59 14.53	
LSD	0.34	326 P	59 17.09	0.4
		S	59 21.62	
BHB	0.35	200 P	59 17.19	0.4
		S	59 21.90	
RRL	0.52	241 P	59 20.21	0.0
		S	59 27.30	
LPG	0.58	304 Pg	59 21.20	-0.1
		Sg	59 28.30	
LPL	0.60	305 Pg	59 21.60	-0.2
		Sg	59 29.00	
ORX	0.60	40 P	59 21.21	-0.5
		S	59 29.50	
PZZ	0.71	199 P	59 23.04	-0.9
		S	59 32.47	
ROB	0.93	160 P	59 28.09	0.0
PCP	1.01	128 P	59 30.25	0.8
IMI	1.31	165 P	59 34.06	-0.3

S.D. = 0.5 on 11 of 11 obs.
 % FEB 14, 1993 07h 09m 54.93± 2.48s
 31.457 S ± 16.6km 68.924 W ± 17.3km
 DEPTH = 116.9 ± 20.7 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.11	106	iPd	10	11.20	-0.4
RTLL	0.41	72	iPc	10	12.10	-0.2
RTBS	0.50	246	ePd	10	13.20	0.5
			S	10	25.80	
CFA	0.60	105	iPc	10	13.60	0.1
			S	10	26.70	
RTPR	2.37	62	ePc	10	33.50	0.0
			S	11	00.60	
MRA	2.89	110	ePc	10	41.20	0.8
RFA	3.33	173	ePc	10	45.90	-0.4
			S	11	23.80	
TCA	3.71	89	iP	10	51.00	-0.4
			(S)	11	32.00	

S.D. = 0.6 on 8 of 8 obs.
 * FEB 14, 1993 07h 17m 00.67± 2.09s
 10.886 N ± 113.0km 59.901 W ± 17.7km
 DEPTH = 33.0km (normal)
 3.7mb (1 obs.)
 NORTH ATLANTIC OCEAN (402)

BOT	0.85	289	eP	17	16.15	0.0	
			eS	17	27.01		
TPR	0.91	289	eP	17	16.97	-0.1	
			eS	17	28.25		
PIG	0.96	287	eP	17	18.13	0.3	
			eS	17	30.83		
TBH	1.21	251	eP	17	22.44	1.0	
			eS	17	39.39		
TRN	1.49	261	iP	17	24.98	-0.5	
			eS	17	45.73		
TPP	1.63	250	eP	17	26.75	-0.6	
			eS	17	46.70		
TCE	1.83	264	iP	17	30.27	-0.1	
			eS	17	50.17		
GRW	2.14	306	eP	17	34.91	0.1	
			eS	18	02.52		
YKA	64	55	335	eP	27	36.50	0.0
			0.4s	0.30nm		3.7mb	

S.D. = 0.5 on 9 of 9 obs.
 FEB 14, 1993 07h 17m 16.77± 0.45s
 40.803 N ± 4.4km 28.991 E ± 3.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

ISK	0.27	11	iPg	17	22.80	0.4
GBZT	0.35	92	iPg	17	24.10	0.2
			iSg	17	28.70	
YLV	0.37	129	iPg	17	24.20	-0.3
			eSg	17	28.30	
KCT	0.73	221	iPg	17	31.30	0.1
			eSg	17	40.80	
EYL	0.92	105	iPg	17	33.80	-0.6
			eSg	17	45.10	
EDC	0.97	242	iPn	17	35.00	-0.2
GPA	1.13	117	ePn	17	38.50	0.6
DST	1.23	193	iPn	17	40.00	0.4
DMK	1.38	318	iPn	17	41.50	-0.5
ALT	1.95	153	ePn	17	50.00	-0.3
EZN	2.26	245	ePn	17	55.00	0.3

S.D. = 0.4 on 11 of 11 obs.
 % FEB 14, 1993 07h 19m 17.34± 0.87s
 18.049 N ± 8.4km 76.763 W ± 7.8km
 DEPTH = 10.0km (geophysicist)
 JAMAICA REGION (86)
 MD 2.5 (HOJ).

GWJ	0.04	42	iP	19	19.09	-0.4
			iS	19	21.41	
HOJ	0.05	166	iP	19	19.63	0.1
			iS	19	22.16	
STH	0.06	301	iP	19	20.11	0.5
			iS	19	22.08	
PCJ	0.49	232	eP	19	27.41	0.1
			S	19	32.41	
SPJ	0.76	266	eP	19	31.80	-0.4
			S	19	37.09	

S.D. = 0.6 on 5 of 5 obs.
 ? FEB 14, 1993 07h 42m 57.33± 1.13s
 23.224 S ± 17.5km 172.105 E ± 16.7km
 DEPTH = 33.0km (normal)
 4.9mb (8 obs.)
 LOYALTY ISLANDS REGION (189)

DZM	5.35	281	iPd	44	15.60	-1.5
			iS	45	14.50	
BKM	6.61	326	iPc	44	35.20	0.5
BRS	17.96	253	eP	47	09.00	2.8X
RMO	21.43	256	eP	47	45.80	1.0
			1.4s	88.00nm		5.0mb
CAN	23.42	234	eP	48	07.50	3.1X
BWA	23.51	236	eP	48	05.50	0.3
CTA	24.22	272	iPc	48	14.50	2.3
			1.9s	52.63nm		4.8mb
			e	48	26.00	
			eS	52	30.00	
CMS	24.70	245	iPc	48	17.60	0.8
			1.0s	28.00nm		4.8mb
TOO	26.93	232	eP	48	49.00	11.4X
ASPA	34.98	262	iPd	49	47.20	-1.6
			1.2s	15.70nm		4.8mb
WB2	35.19	268	eP	49	47.30	-3.3X
			0.4s	5.30nm		4.8mb
WRA	35.20	268	P	49	49.00	-1.7
			0.9s	0.70nm		3.6mb X
BJI	81.70	320	eP	55	15.00	1.2
			1.2s	16.00nm		4.9mb
CHTO	82.72	294	eP	55	23.10	3.5X
			eSg	12	30.80	
LZH	87.36	311	eP	55	42.50	-0.1
			1.4s	26.00nm		5.3mb
FBA	93.12	16	eP	56	07.30	-1.4
			1.2s	9.09nm		5.1mb
KSP	146.64	332	ePKP	02	38.00	2.7X
BRG	147.60	334	e(PKP)	02	41.80	4.9X
CLL	147.64	335	e(PKP)	02	44.00	7.1X
PRU	148.03	332	ePKP	02	40.00	2.4
			e	03	03.50	
BCAO	148.37	238	iPKPc	02	38.10	-1.1
			0.9s	14.00nm		
			ic	02	42.20	
KHC	149.09	332	ePKP	02	44.50	5.2X
			e	03	11.50	
			e	04	13.00	
SKO	149.23	314	iPKP	02	43.00	3.2X
GEC2	149.25	332	PKP	02	44.20	4.5X
			0.8s	0.43nm		
OHR	150.06	313	ePKP	02	40.00	-1.1

S.D. = 1.6 on 14 of 25 obs.
 FEB 14, 1993 08h 33m 03.11± 0.92s
 37.719 N ± 7.5km 21.352 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.3 (ATH), 3.3 (THE).

VLS	0.76	307	ePg	33	18.00	0.1
AGG	1.51	30	ePb	33	31.02	0.8
			eSb	33	51.62	
VLI	1.61	128	ePb	33	31.50	-0.2
ATH	1.89	82	ePn	33	36.00	0.3
			eSn	34	01.60	
IGT	1.98	337	ePn	33	37.46	0.5
			eSn	34	03.62	
KEK	2.33	329	ePg	33	48.50	6.4X
LIT	2.54	20	ePn	33	46.38	1.4
			eSn	34	18.18	
KZN	2.60	7	ePn	33	46.70	0.7
PAIG	2.86	39	ePn	33	49.06	-0.5
			eSn	34	24.62	
FNA	3.06	0	ePn	33	52.94	0.5
OUR	3.32	37	ePn	33	55.70	-0.4
			eSn	34	37.46	
GRG	3.33	14	ePn	33	55.42	-0.9
			eSn	34	36.70	
OHR	3.42	353	ePn	33	57.00	-0.5
SOH	3.47	26	ePn	33	58.58	0.4
KNT	3.64	19	ePn	34	00.70	0.0
			eSn	34	45.82	
VAY	3.72	14	iPn	34	01.30	-0.5
SRS	3.81	26	ePn	34	02.74	-0.4
SKO	4.25	1	ePn	34	08.20	-1.1

S.D. = 0.7 on 17 of 18 obs.

FEB 14, 1993 09h 00m 59.41± 0.67s
 41.597 N ± 6.8km 20.871 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.6 (SKO), 2.5 (TTG).

OHR	0.49	186	iPg	01	08.50	-0.8
			iSg	01	16.70	
SKO	0.57	48	iPg	01	09.80	-1.1
			0.3s	30.00nm		
			iSg	01	18.30	
PVY	1.20	326	iPg	01	20.21	-1.6
			iSg	01	36.37	
ULC	1.27	287	iPg	01	21.96	-1.0
			iSg	01	38.97	
VAY	1.31	102	iPn	01	24.60	1.0
TTG	1.46	305	iPg	01	25.72	0.0
			iSg	01	44.87	
IVA	1.46	331	iPg	01	25.61	-0.3
			iSg	01	44.32	
BDV	1.67	295	iPg	01	28.75	-0.1
			iSg	01	52.08	
NKY	1.85	312	iPnd	01	32.56	1.1
			iSn	01	57.52	
HCY	1.96	296	iPnc	01	33.60	0.6
			iSn	01	59.95	
PLE	2.05	328	iPnc	01	35.51	1.1
			iSn	02	01.68	
BRY	2.16	308	iPnc	01	37.13	1.0
			iSn	02	05.32	

S.D. = 1.1 on 12 of 12 obs.
 FEB 14, 1993 09h 10m 01.95± 0.54s
 41.633 N ± 6.8km 20.791 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 3.1 (SKO), 2.9 (TTG), 2.8 (THE).

OHR	0.52	179	iPg	10	11.60	-0.9
			0.6s	50.00nm		
			iSg	10	19.80	
SKO	0.59	55	iPg	10	13.00	-0.9
			0.3s	76.00nm		
			iSg	10	21.50	
FNA	0.96	152	ePg	10	19.38	-0.8
			eSg	10	34.02	
PVY	1.14	328	iPg	10	21.79	-1.5
			iSg	10	39.29	
ULC	1.20	287	iPg	10	22.99	-1.3
			iSg	10	43.11	
VAY	1.37	103	iPn	10	27.80	0.7
GRG	1.39	119	ePb	10	27.74	0.4
			eSb	10	47.18	
TTG	1.39	305	iPg	10	26.64	-0.7
			iSg	10	48.31	
IVA	1.40	332	iPg	10	26.03	-1.6
			iSg	10	47.04	
BDV	1.60	295	iPnc	10	31.84	1.5
			iSn	10	56.97	
KNT	1.65	106	ePb	10	32.30	1.2
			eSb	10	55.70	
NKY	1.78	312	iPnd	10	34.44	1.4
			iSn	11	00.40	
HCY	1.89	296	iPnc	10	36.17	1.6
			iSn	11	03.59	
PLE	1.99	329	iPnc	10	36.35	0.3
			iSn	11	05.01	
BRY	2.09	308	iPnc	10	38.43	0.8
			iSn	11	07.72	

S.D. = 1.3 on 15 of 15 obs.
 FEB 14, 1993 09h 41m 39.44± 0.96s
 46.305 N ± 9.0km 13.419 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 AUSTRIA (546)
 MD 2.4 (LJU), ML 1.7 (VIE).

RBL	0.17	37	P	41	42.90	-0.5
			eSg	41	45.80	
VOY	0.43	129	ePg	41	48.20	0.0
			eSg	41	55.70	
FVI	0.53	303	P	41	48.70	-1.4
			eSg	41	56.00	
KBA	0.78	356	iPg	41	54.90	0.2
			iSg	42	03.60	

14d 09h

CTI 1.26 259 P 42 02.60 -0.3
 eSn 42 20.10
 WTTA 1.56 309 iPg 42 09.30 1.9
 iSg 42 28.80
 S.D. = 1.4 on 6 of 6 obs.

? FEB 14, 1993 09h 41m 59.81±11.54s
 17.017 N ±47.3km 100.333 W ±96.3km
 DEPTH = 33.0km (normol)
 GUERRERO, MEXICO (59)

ACX 0.48 108 iP 42 09.80 -0.3
 iS 42 17.50
 III 1.58 31 iP 42 25.50 -0.6
 iS 42 48.20

UNM 2.55 25 (P) 42 40.60 0.6
 PPM 2.61 38 iP 42 40.80 -0.2
 iS 43 15.80

IISM 3.43 55 iP 43 01.20 9.0X
 OXX 3.45 88 (P) 42 53.30 0.5
 S.D. = 0.7 on 5 of 6 obs.

FEB 14, 1993 09h 43m 31.19±0.70s
 40.495 N ±6.7km 21.845 E ±6.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.0 (THE).

FNA 0.46 309 ePg 43 40.14 -0.4
 eSg 43 48.30
 GRG 0.63 42 ePg 43 42.90 -0.9
 eSg 43 53.00

LIT 0.63 128 ePg 43 42.42 -1.5
 eSg 43 51.40
 VAY 0.99 33 ePc 43 50.50 0.5
 OHR 1.00 308 ePn 43 50.50 0.2

SOH 1.19 74 ePb 43 53.82 0.3
 SKO 1.51 348 ePn 43 32.00 -26.2X
 PAIG 1.52 111 ePb 43 58.42 0.1

AGG 1.52 166 ePb 43 59.10 0.7
 OUR 1.64 95 ePb 44 01.10 1.0
 S.D. = 0.9 on 9 of 10 obs.

? FEB 14, 1993 09h 46m 46.53±1.41s
 18.095 N ±15.1km 76.760 W ±11.0km
 DEPTH = 10.0km (geophysicist)
 JAMAICA REGION (86)
 MD 2.5 (HOJ).

GWJ 0.03 134 iP 46 48.56 -0.1
 S 46 50.95
 STH 0.05 251 iP 46 49.40 0.6
 S 46 51.77

HOJ 0.09 174 iP 46 49.14 0.0
 S 46 51.23
 BBJ 0.56 301 eP 46 57.79 -0.2
 eS 47 02.88

SPJ 0.77 263 eP 47 01.11 -0.4
 eS 47 06.34
 S.D. = 0.6 on 5 of 5 obs.

? FEB 14, 1993 09h 48m 31.21±4.01s
 32.544 S ±23.4km 71.772 W ±20.3km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)
 MD 3.8 (SAN).

ROCH 0.77 124 iP 48 46.53 0.1
 iS 48 56.97
 LCCH 0.94 170 iP 48 49.21 0.0
 iS 49 01.85

JACH 1.00 98 iPd 48 50.11 -0.2
 iS 49 03.38
 PEL 1.09 123 iP+ 48 52.00 0.2
 iS 49 05.84

SAN 1.30 134 iP 48 55.23 -0.1
 iS 49 11.85
 TACH 1.31 148 iP 48 55.05 -0.4
 iS 49 12.91

LNv 1.44 168 iP 48 57.10 -0.2
 iS 49 15.62
 FCH 1.47 123 iP 48 58.15 0.1
 iS 49 16.92

PCH 1.51 136 iP 48 58.11 -0.2
 iS 49 17.69
 CHCH 1.67 146 iP 49 01.44 0.7
 iS 49 23.63

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

? FEB 14, 1993 09h 52m 09.57±1.06s
 39.102 N ±10.2km 27.578 E ±19.0km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

IZM 0.75 199 iPg 52 24.50 0.0
 iSg 52 36.50

DST 0.96 58 ePn 52 28.00 -0.3
 EDC 1.26 10 ePn 52 33.00 -0.5
 KCT 1.29 27 iPn 52 34.70 0.7

S.D. = 0.9 on 4 of 4 obs.
 ? FEB 14, 1993 09h 55m 58.79±5.81s
 32.419 S ±35.4km 71.913 W ±28.3km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)
 MD 3.5 (SAN).

ROCH 0.94 126 iP 56 16.70 -0.2
 iS 56 26.97
 LCCH 1.09 165 iP 56 19.38 0.1
 iS 56 31.98

JACH 1.15 104 iP 56 20.27 0.0
 iS 56 32.73
 PEL 1.26 125 iP 56 22.13 -0.1
 iS 56 35.89

TACH 1.48 147 iP 56 25.21 -0.3
 iS 56 41.29
 LNv 1.59 165 iP 56 26.57 -0.4
 iS 56 46.08

FCH 1.64 124 iP 56 28.07 0.0
 iS 56 47.06
 PCH 1.68 136 iP 56 28.43 0.0
 iS 56 47.53

CHCH 1.84 145 iP 56 31.66 0.9
 S.D. = 0.4 on 9 of 9 obs.

* FEB 14, 1993 10h 13m 16.21±1.10s
 35.773 N ±7.6km 29.133 E ±12.8km
 DEPTH = 10.0km (geophysicist)
 EASTERN MEDITERRANEAN SEA (371)
 MD 3.6 (ISK).

ELL 1.16 33 iPg 13 37.30 -0.6
 eSg 13 52.30
 BCK 2.05 34 ePn 13 51.80 0.6
 KHL 2.56 7 ePn 13 59.00 0.4

IZM 3.02 331 iPn 14 04.60 -0.3
 ADI 5.71 116 eP 14 42.80 -0.3
 JVI 6.44 125 eP 14 53.40 0.0
 MBH 7.70 139 eP 15 11.30 0.2

S.D. = 0.5 on 7 of 7 obs.
 ? FEB 14, 1993 10h 16m 00.20±5.03s
 57.137 S ±60.2km 157.760 E ±26.6km
 DEPTH = 10.0km (geophysicist)
 4.5mb (5 obs.)

MACQUARIE ISLANDS REGION (167)
 MCO 2.73 15 eP 16 44.00 -0.8
 eS 17 14.80

BCZ 12.77 33 eP 19 05.70 1.3
 TUZ 13.39 38 eP 19 12.30 -0.2
 TOO 21.20 332 eP 20 49.80 1.8

1.0s 55.00nm 4.9mb
 BFD 22.39 327 eP 21 06.30 6.4X
 1.2s 19.00nm 4.4mb

DZM 35.60 14 iPc 23 04.50 4.7X
 ASPA 37.65 323 iPc 23 18.00 1.1
 0.9s 12.20nm 4.7mb

CTA 37.97 342 eP 23 17.00 -2.6
 WB2 40.98 325 eP 23 43.90 -0.7
 0.7s 5.90nm 4.4mb

WRA 40.98 325 P 23 44.80 0.2
 0.9s 2.60nm 4.0mb
 YKA 137.06 43 ePKP 35 14.50 -9.1X
 0.4s 0.10nm

OBN 148.01 292 ePKP 35 46.00 3.2X
 e 35 54.00
 S.D. = 1.7 on 8 of 12 obs.

FEB 14, 1993 10h 17m 43.78±0.54s
 37.684 N ±5.8km 21.342 E ±3.7km
 DEPTH = 10.0km (geophysicist)

4.3mb (17 obs.)

SOUTHERN GREECE (368)
 MD 4.2 (ATH). ML 4.1 (THE).

VLS 0.77 310 ePb 17 59.90 1.1
 AGG 1.55 30 ePb 18 11.70 0.3
 eSb 18 33.62

VLI 1.60 127 ePbd 18 13.50 1.4
 ATH 1.90 81 ePn 18 16.80 0.3
 eS 18 43.50

IGT 2.01 337 ePn 18 18.66 0.6
 eS 18 45.74
 KEK 2.36 330 ePn 18 24.50 1.4
 LIT 2.57 20 ePn 18 26.89 0.7

eSn 18 59.42
 KZN 2.64 7 ePn 18 29.00 1.8
 PAIG 2.89 38 ePn 18 30.46 -0.2
 FNA 3.10 0 ePn 18 33.90 0.3

eSn 19 11.62
 THE 3.20 23 ePn 18 35.18 0.1
 OUR 3.35 37 ePn 18 37.62 0.4
 GRG 3.37 14 ePn 18 37.58 0.1

OHR 3.45 353 iPnc 18 39.70 1.0
 i 18 48.50
 i 19 30.10
 i 19 40.00

SOH 3.50 26 ePn 18 40.02 0.6
 eSn 19 20.66
 KNT 3.68 19 ePn 18 41.98 0.1
 LCI 3.74 316 P 18 44.30 1.6

VAY 3.75 14 iPn 18 43.40 0.4
 SRS 3.85 26 ePn 18 43.38 -0.9
 PRK 4.17 67 ePn 18 49.80 0.9
 SOI 4.20 277 P 18 49.30 0.0

eSn 19 37.00
 NPS 4.21 124 ePb 18 57.00 7.6X
 SKO 4.28 1 iPnc 18 50.00 -0.5
 i 19 02.00

i 19 26.20
 iSn 19 40.40
 LR 20 36.00

TDS 4.38 298 P 18 54.50 2.6X
 ORI 4.50 303 P 18 56.10 2.6X
 BRT 4.53 316 P 18 56.10 2.2X
 ATN 4.67 278 P 18 57.60 1.6

eSn 19 49.20
 IZM 4.73 80 iP 18 55.60 -1.3
 RDO 4.74 42 ePn 18 57.50 0.5

ALN 4.86 47 ePn 18 58.30 -0.3
 BAI 4.88 316 P 19 00.00 1.1
 MGR 5.14 300 P 19 03.40 0.9
 MEU 5.14 265 P 19 02.60 -0.1

eSn 20 00.90
 MNO 5.27 275 P 19 03.90 -0.8
 SGO 5.50 303 P 19 09.70 2.0
 KCT 6.04 63 eP 19 16.50 1.2

HVAR 6.64 327 iPn 19 21.70 -2.0
 KSL 6.79 101 ePn 19 27.50 1.7
 SDI 7.06 307 P 19 31.00 1.3
 AQU 7.67 310 P 19 40.00 1.7

BZS 7.93 1 eP 19 38.50 -3.3X
 MLR 8.53 22 eP 19 59.00 8.7X
 ASS 8.53 312 P 19 50.30 0.0

VBY 9.04 332 ePn 19 54.50 -2.7
 VRI 9.11 24 eP 20 00.00 1.8
 PTJ 9.14 336 eP 19 51.10 -7.6X
 CEY 9.56 329 eP 20 06.00 1.6

eS 21 49.00
 LJU 9.77 331 e(Pn) 20 10.00 2.7X
 e(Sn) 21 52.50

TRI 9.81 327 e(Pn) 20 07.20 -0.7
 e(Sn) 21 52.40
 VOY 10.02 329 eP 20 08.50 -2.3
 eS 21 56.40

PSZ 10.29 355 eP 20 09.40 -5.0X
 RBL 10.48 329 P 20 17.70 0.6
 FVI 10.93 327 P 20 24.30 1.1
 CTI 11.04 322 P 20 25.50 0.7

KBA 11.09 330 i(P)d 20 22.20 -3.3X
 0.9s 3.90nm 4.8mb
 i 20 34.00

WTTA 11.95 326 i(P)d 20 36.20 -1.0
 i 20 59.60
 WATA 12.03 326 e(P) 20 36.00 -2.3
 i 20 45.30

SQTA 12.11 325 i(P)d 20 39.60 0.3

GEC2	12.46 336	Pn	20 59.00			0.7s	0.40nm	3.5mb	IZM	0.76 200	iPg	17 42.60	-0.1										
			20 44.60	0.6									17 53.60										
			22 55.20										17 45.80	0.0									
KHC	12.75 336	eP	20 42.50	-5.3X		S.D. = 1.1	on	7 of 11 obs.	DST	0.94 58	ePn	17 45.80	0.0										
			20 49.00										17 50.60	0.2									
			21 00.00										17 51.00	-0.1									
PRU	13.23 340	eP	20 41.50	-12.7X		%	FEB 14, 1993	10h 26m 07.40 ± 0.85s	EDC	1.25 9	ePn	17 51.00	-0.1										
			21 09.50										17 50.80	-0.6									
			21 15.00										17 52.20	0.6									
LPG	13.41 310	eP	21 04.80	7.9X		TURKEY	(366)	MD 2.7 (ISK).	KCT	1.28 27	iPn	17 52.20	0.6										
			21 04.80																				
			21 04.80																				
LPL	13.43 310	eP	21 04.90	7.8X		S.D. = 0.5	on	6 of 6 obs.	& FEB 14, 1993	12h 03m 01.89s	61.481 N	149.794 W	(2)										
			21 04.90																				
			21 04.90																				
GRF	14.04 332	eP	21 12.60	7.8X		DEPTH = 35.8km	SOUTHERN ALASKA	(AEIC).	PWA	0.18 347	P	03 08.50	0.0										
			21 12.60																				
			21 12.60																				
BRG	14.20 341	e(P)	21 25.30	18.4X		%	FEB 14, 1993	10h 38m 48.72 ± 0.84s	PMS	0.26 155	P	03 09.50	0.0										
			21 20.60	7.2X																			
			21 20.60	7.2X																			
MOX	14.70 335	eP	21 20.60	7.2X		39.132 N ± 7.0km	27.464 E ± 8.5km	DEPTH = 10.0km (geophysicist)	PLRM	0.34 70	iPc	03 09.60	-0.7										
			21 16.40	2.7X																			
			21 16.40	2.7X																			
BSF	14.71 318	eP	21 16.40	2.7X		TURKEY	(366)	MD 2.7 (ISK).	PMR	0.34 70	eP	03 09.16	-1.1										
			21 16.40																				
			21 16.40																				
CDF	14.83 321	eP	21 18.00	2.7X		S.D. = 0.6	on	6 of 6 obs.	SUA	0.46 268	iPc	03 11.56	-0.4										
			21 18.00																				
			21 18.00																				
CLL	14.85 339	iPd	21 21.50	6.1X		IZM	0.75 192	iPg	39 03.50	0.1	GHO	0.51 54	iPc	03 11.89	-0.8								
			21 21.50																				
			21 21.50																				
HAU	15.05 318	eP	21 20.60	2.5X		DST	1.02 62	ePn	39 07.80	-0.2	PTE	0.72 149	iPd	03 14.67	-0.9								
			21 20.60																				
			21 20.60																				
LBF	15.82 311	eP	21 30.00	1.9		EZN	1.12 309	ePn	39 09.60	-0.1	SML	0.77 64	iPc	03 15.20	-1.2								
			21 30.00																				
			21 30.00																				
AVF	16.10 310	eP	21 35.70	4.0X		EDC	1.25 14	ePn	39 12.00	0.0	SKT	0.97 302	iPd	03 18.48	-0.7								
			21 32.80	0.6																			
			21 32.80	0.6																			
SSF	16.14 311	eP	21 32.80	0.6		KCT	1.31 31	iPn	39 13.20	0.2	SLKM	1.00 192	ePd	03 18.60	-1.0								
			21 32.80																				
			21 32.80																				
LDF	19.02 312	eP	22 06.90	-1.1		S.D. = 0.2	on	5 of 5 obs.	% FEB 14, 1993	11h 08m 58.14 ± 0.60s	MPA	1.02 168	iPd	03 18.52	-1.3								
			22 06.90																				
			22 06.90																				
FLN	19.31 312	eP	22 10.30	-1.3		41.275 S ± 6.9km	172.476 E ± 5.8km	DEPTH = 232.6 ± 6.9 km	NKA	1.02 224	eP	03 21.07	1.2										
			22 10.30																				
			22 10.30																				
LPF	19.33 309	eP	22 11.10	-0.8		SOUTH ISLAND, NEW ZEALAND	(162)	QRZ	0.45 5	Pc	09 28.80	0.1	CPAM	1.15 260	ePc	03 21.73	-0.2						
			22 11.10																				
			22 11.10																				
OBN	20.27 26	eP	22 22.00	0.0		THZ	0.58 147	Pc	09 29.30	0.0	CRP	1.16 260	eP	03 21.36	-0.6								
			22 22.00																				
			22 22.00																				
UPP	22.32 355	iP	22 40.10	-2.6		DSZ	0.69 227	Pc	09 29.60	-0.1	CKN	1.18 258	eP	03 22.26	0.1								
			22 40.10																				
			22 40.10																				
NUR	22.94 4	iP	22 45.90	-2.9		DIW	1.19 67	P	09 32.40	-0.4	CKT	1.20 257	ePc	03 22.09	-0.4								
			22 45.90																				
			22 45.90																				
HFS	22.99 350	eP	22 46.40	-3.0		CCW	1.39 111	P	09 34.50	0.3	CP2	1.20 261	eP	03 22.20	-0.4								
			22 46.40																				
			22 46.40																				
Z	16s	0.16um	31 30.00			KHZ	1.39 146	P	09 34.20	0.0	SCM	1.23 72	iPc	03 22.24	-0.7								
			31 30.00																				
			31 30.00																				
EKA	24.21 325	P	23 01.00	-0.2		LTZ	1.51 186	Pd	09 35.40	0.1	CKL	1.26 258	eP	03 23.43	0.0								
			23 01.00																				
			23 01.00																				
KAF	24.65 6	iP	23 02.60	-2.8		MRW	1.68 89	Pc	09 36.40	-0.2	BGL	1.27 261	eP	03 23.49	0.0								
			23 02.60																				
			23 02.60																				
BCAO	33.19 185	iPc	24 22.10	-0.7		WEL	1.73 91	P	09 36.70	-0.3	GLI	1.44 114	iPd	03 24.84	-1.1								
			24 22.10																				
			24 22.10																				
LIC	39.44 224	P	25 15.00	-0.8		CAW	1.96 86	Pc	09 39.00	-0.2	HUR	1.50 3	eP	03 26.63	-0.3								
			25 15.00																				
			25 15.00																				
GKN	53.16 81	P	27 00.00	-4.3X		MOW	2.10 95	Pc	09 40.40	0.0	KNIM	1.52 138	eP	03 25.23	-1.9								
			27 00.00																				
			27 00.00																				
CHTO	69.12 82	eP	28 49.00	-3.4X		BLW	2.26 93	Pc	09 42.30	0.2	VZW	1.62 104	eP	03 27.71	-1.0								
			28 49.00																				
			28 49.00																				
YKA	74.08 340	eP	29 23.50	2.2X		MTW	2.29 88	Pc	09 42.40	0.1	DFR	1.67 239	ePc	03 28.60	-0.7								
			29 23.50																				
			29 23.50																				
IMA	76.51 358	eP	29 33.70	-1.6		MNG	2.37 75	Pc	09 43.10	-0.1	VLZ	1.71 100	eP	03 28.47	-1.3								
			29 33.70																				
			29 33.70																				
FBA	77.40 355	eP	29 38.65	-1.4		BSZ	2.38 53	P	09 43.60	0.3	LTI	1.73 146	eP	03 27.86	-2.3								
			29 38.65																				
			29 38.65																				
S.D. = 1.4	on	64 of 89 obs.				MQZ	2.44 177	P	09 43.50	-0.3	REF	1.73 236	eP	03 29.72	-0.6								
* FEB 14, 1993	10h 21m 31.62 ± 1.47s	30.471 N ± 26.7km	128.380 E ± 8.4km	DEPTH = 33.0km (normal)	4.0mb (2 obs.)	NORTHWEST OF RYUKYU ISLANDS	(234)	KAGJ	2.27 71	P	22 06.70	-0.9	RDN	1.74 237	eP	03 29.79	-0.7						
											KUMJ	2.93 45				P	22 21.90	4.9X	FID	1.77 113	ePd	03 28.78	-1.9
																	SSE	6.22 278				ePn	23 04.00
Z	12s	0.50um			RS2	1.77 236	ePc	03 30.21	-0.7														
			N	12s				1.10um			RS1	1.77 236	eP	03 30.15	-0.8								
									E	12s				0.60um			RDW	1.78 237	eP	03 30.42	-0.6		
NJ2	8.30 283	eP			23 31.50	-1.2	NCT								1.78 240	eP				03 30.67	-0.3		
			N	10s	0.50um						KLU	1.86 88	ePc							03 30.76	-1.3		
						BJ1		13.79 317	eP	24 47.00				0.0			MIN	1.94 123	ePd	03 31.46	-1.7		
XAN	16.84 287	eP					25 30.00			3.6X				RND	1.98 12	eP				03 33.42	-0.4		
			HHC	17.12 312	eP		25 29.80			-0.2	TRF	1.99 354	eP							03 33.50	-0.5		
						N	10s	0.19um									ILIM	2.09 229	eP	03 34.71	-0.6		
E	10s	0.15um												INE	2.15 230	eP				03 35.58	-0.6		
			CD2	21.17 277	eP				26 16.60	0.2	TZL	2.15 73	eP							03 35.85	-0.3		
						N	12s	1.09um									CVA	2.18 114	eP	03 34.48	-2.0		
LZH	21.24 292	eP							26 27.00	9.8X				SDG	2.26 61	eP				03 37.99	0.3		
			Z	1.0s	20.00nm						MCK	2.29 10	eP							03 37.91	-0.2		
						GTA	24.98 299	eP	26 50.00	-3.7X							PAX	2.52 52	eP	03 41.64	0.2		
Z	16s	0.57um												RAGM	2.73 111	eP				03 44.12	-0.2		
			YKA	74.65 25	eP				33 10.60	1.5	SVW	2.84 265	eP							03 44.15	-1.7		

14d 12h

			eS	04 25.95	
GLB	2.87	88	eP	03 46.14	-0.2
TTA	3.26	299	P	03 50.50	-1.4
CCB	3.30	15	eP	03 51.32	-1.1
CROM	3.31	100	eP	03 50.93	-1.8
TGL	3.46	99	eP	03 53.00	-1.7
BALM	3.63	94	eP	03 56.47	-0.7
IMA	4.92	341	eP	04 13.54	-1.9
			(S)	05 02.65	

57 obs. associated

? FEB 14, 1993 12h 38m 41.95±5.07s
 10.961 N ±18.6km 60.177 W ±52.3km
 DEPTH = 56.7 ±26.7 km
 3.5mb (1 obs.)

TRINIDAD (98)
 MD 2.9 (TRN).

BOT	0.57	291	eP	38 54.34	-0.2
			eS	39 05.04	
TPR	0.63	291	eP	38 55.20	-0.1
			iS	39 06.72	
PIG	0.68	287	eP	38 56.14	0.3
			eS	39 09.29	
TBH	1.00	242	eP	39 00.16	0.2
			eS	39 17.37	
TRN	1.24	256	iP	39 02.87	-0.5
			eS	39 20.88	
TPP	1.41	243	eP	39 05.57	0.0
TCE	1.57	261	eP	39 08.13	0.2
			eS	39 28.81	
GRW	1.88	309	eP	39 17.29	5.0X
YKA	64.37	335	eP	49 13.90	0.0
			0.6s	0.30nm	3.5mb
			S.D. = 0.3	on 8 of 9 obs.	

FEB 14, 1993 12h 49m 09.31±0.84s
 37.655 N ±7.5km 21.332 E ±6.0km
 DEPTH = 10.0km (geophysicist)

SOUTHERN GREECE (368)
 MD 3.4 (ATH). ML 3.4 (THE).

VLS	0.79	312	ePb	49 25.00	0.4
			eSg	49 35.50	
AGG	1.57	30	ePb	49 37.02	-0.3
			eSb	49 59.30	
VLI	1.59	126	ePb	49 38.50	1.0
ATH	1.91	80	ePb	49 42.20	-0.1
IGT	2.03	338	ePn	49 45.42	1.5
KEK	2.38	330	ePn	49 50.10	1.1
LIT	2.60	20	ePn	49 52.58	0.4
KZN	2.67	7	ePn	49 54.20	1.0
PAIG	2.92	38	ePn	49 55.90	-0.7
			eSn	50 32.34	
FNA	3.13	1	ePn	49 59.90	0.3
OUR	3.38	37	ePn	50 02.54	-0.6
OHR	3.48	353	ePn	50 04.50	-0.1
SOH	3.53	26	ePn	50 05.46	0.1
			eSn	50 47.74	
KNT	3.71	19	ePn	50 07.30	-0.5
VAY	3.78	14	iPn	50 09.20	0.3
SRS	3.88	26	ePn	50 10.26	0.0
			eSn	50 56.02	
SOI	4.20	277	P	50 19.00	4.3X
SKO	4.31	1	iPn	50 14.00	-2.4
MEU	5.13	266	P	50 26.60	-1.5
			eSn	51 22.40	
MGR	5.14	301	P	50 31.40	3.2X
SGO	5.51	304	P	50 36.50	3.1X
			S.D. = 1.0	on 18 of 21 obs.	

* FEB 14, 1993 13h 04m 18.44±1.13s
 21.539 S ±11.9km 66.932 W ±19.5km
 DEPTH = 225.2 ±12.2 km
 3.2mb (1 obs.)

SOUTHERN BOLIVIA (125)

YJA	1.47	116	iPd	04 54.30	-0.7
			S	05 20.50	
HJA	2.19	140	iPc	05 01.60	0.6
			S	05 32.00	
CCH	4.20	10	P	05 23.20	-1.3
CNCB	4.81	348	P	05 33.20	0.9
			S	06 29.00	
LPB	5.10	347	P	05 36.00	0.2
			S	06 35.00	
ZOBO	5.35	348	iPc	05 39.00	-0.1

SIV	7.83	46	iPc	06 40.80	
			(S)	07 11.00	0.7
YKA	91.85	340	eP	17 01.10	-0.4
			0.7s	0.20nm	3.2mb
			S.D. = 1.0	on 8 of 8 obs.	

* FEB 14, 1993 13h 42m 08.32±1.25s
 38.784 N ±5.0km 28.757 W ±14.9km
 DEPTH = 10.0km (geophysicist)
 4.2mb (5 obs.)

AZORES ISLANDS (405)

Felt (IV) on Faial and (III) on Pico.

CALA	0.21	168	iPd	42 13.00	0.1
			iS	42 17.60	
HOR	0.28	159	iPd	42 13.70	-0.4
			iS	42 19.00	
PICO	0.38	137	iPd	42 16.60	0.4
			eS	42 23.90	
ADH	1.20	96	eP	42 30.10	-0.5
			iS	42 47.50	
EPF	22.34	70	eP	47 09.20	1.5
LSF	23.44	62	eP	47 19.00	0.6
			1.1s	8.80nm	4.2mb
CAF	23.67	65	eP	47 21.20	0.5
TCF	23.91	62	eP	47 23.40	0.4
			0.8s	5.50nm	4.2mb
MAF	24.15	62	eP	47 25.60	0.4
			1.0s	6.80nm	4.2mb
BGF	24.38	61	eP	47 27.50	0.0
			0.9s	9.00nm	4.4mb
AVF	24.75	61	eP	47 30.70	-0.4
SSF	24.89	60	eP	47 32.00	-0.5
SMF	25.07	61	eP	47 34.00	-0.2
			0.9s	5.55nm	4.3mb
LBF	25.20	60	eP	47 34.60	-0.9
CDF	27.59	58	eP	47 56.40	-1.1
			S.D. = 0.7	on 15 of 15 obs.	

* FEB 14, 1993 14h 45m 28.46±1.23s
 37.979 N ±13.6km 21.288 E ±10.7km
 DEPTH = 31.9 ±12.4 km

SOUTHERN GREECE (368)
 MD 3.3 (ATH).

VLS	0.59	290	ePn	45 41.00	0.6
VLI	1.82	133	ePn	45 57.50	-0.6
ATH	1.92	89	iPnc	46 00.00	0.5
KEK	2.09	327	ePn	46 01.50	-0.4
KZN	2.36	9	ePb	46 09.80	4.0X
OHR	3.15	353	ePn	46 15.80	-1.2
VAY	3.48	16	ePn	46 22.50	0.8
SKO	3.99	2	ePn	46 38.50	9.6X
			i	46 44.00	
			S.D. = 1.3	on 6 of 8 obs.	

% FEB 14, 1993 14h 55m 18.59±2.33s
 41.101 S ±12.8km 178.758 E ±17.8km
 DEPTH = 33.0km (normal)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
 ML 3.8 (WEL).

TEHZ	1.85	306	eP	55 48.80	0.2
MAHZ	2.03	340	eP	55 51.30	0.2
TTH	2.15	316	eP	55 53.20	0.4
WAHZ	2.31	307	eP	55 55.20	0.1
MOH	2.32	327	P	55 55.80	0.5
MTW	2.46	268	P	55 57.40	0.1
BLW	2.49	263	P	55 58.30	0.6
MNG	2.53	280	eP	55 57.90	-0.4
			eS	56 24.50	
NOZ	2.54	347	P	55 59.00	0.6
PAHZ	2.59	329	P	55 58.90	-0.3
MOW	2.66	262	eP	56 00.30	0.2
CAW	2.79	269	P	56 02.00	0.1
PUZ	3.05	353	eP	56 05.50	-0.1
MRW	3.06	266	P	56 06.00	0.2
			eS	56 35.90	
URZ	3.11	335	eP	56 05.80	-0.6
			eS	56 34.20	
TAZ	3.35	328	eP	56 09.60	-0.2
HBZ	3.52	354	eP	56 11.90	-0.3
QRZ	4.72	271	eP	56 28.10	-1.3
			S.D. = 0.5	on 18 of 18 obs.	

% FEB 14, 1993 15h 32m 13.42±4.45s
 42.834 N ±16.1km 18.350 E ±29.8km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

BRY	0.16	65	iPg	32 17.15	0.0
			iSg	32 20.55	
HCY	0.40	164	iPg	32 21.76	0.1
			iSg	32 29.68	
NKY	0.48	92	iPg	32 23.14	0.0
			iSg	32 31.42	
BDV	0.65	147	iPg	32 26.22	-0.2
			iSg	32 38.62	
TTG	0.78	121	iPg	32 28.74	0.1
			iSg	32 42.51	
			S.D. = 0.2	on 5 of 5 obs.	

* FEB 14, 1993 15h 43m 03.68±0.57s
 5.054 S ±8.8km 153.599 E ±9.3km
 DEPTH = 33.0km (normal)
 4.8mb (4 obs.)

NEW IRELAND REGION, P.N.G. (190)

PMG	7.71	236	eP	44 56.00	-0.6
CTA	16.56	205	iP	46 57.00	1.8
BKM	19.04	132	iPd	47 26.60	0.7
DZM	21.00	145	iPc	47 46.00	-0.9
WB2	23.87	230	iPc	48 15.20	-0.1
			0.5s	6.60nm	4.4mb
			i	48 23.30	
ASPA	26.51	224	eP	48 39.00	-1.2
			1.3s	4.40nm	3.9mb
MNG	40.50	154	P	50 40.50	-0.7
			0.2s	19.00nm	5.5mb
LZH	61.97	316	eP	53 22.50	-0.7
			1.0s	17.00nm	5.1mb
GUN	72.93	301	P	54 32.80	0.3
PKI	73.25	301	P	54 34.20	-0.1
KKN	73.41	301	P	54 35.40	0.2
DMN	73.52	301	P	54 36.40	0.6
GKN	74.02	301	P	54 39.00	0.4
BCAO	135.22	271	ePKPc	02 23.00	0.2
			0.7s	3.00nm	
			S.D. = 0.9	on 14 of 14 obs.	

& FEB 14, 1993 16h 05m 33.12s
 38.508 N 118.388 W
 DEPTH = 2.4km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <GM-P>. MD 2.2 (GM).

BONR	0.56	173	ePn	05 44.02	-0.2
			eS	05 50.40	
KVN	0.59	22	ePn	05 45.12	0.3
			eS	05 53.68	
MRCM	0.84	186	ePn	05 49.41	-0.5
			eS	06 00.62	
MEMM	0.95	208	eP	05 51.42	-0.4
			eS	06 04.81	
TNP	1.01	114	ePn	05 51.96	-1.2
			eS	06 05.03	
MMPM	1.03	210	ePn	05 52.72	-0.8
			eS	06 06.55	
MTUM	1.16	187	eP	05 54.52	-1.1
			eS	06 10.14	
CMB	1.64	254	eP	06 03.96	0.9
			eS	06 25.98	
TPNV	2.30	132	eP	06 15.56	2.8
</					

LIBD	1.10	154	Pg	28	30.71	-0.1	TGL	3.30	127	eP	37	55.40	-1.4	BUT	1.49	324	ePg	48	27.10	2.0X
VITF	1.11	213	Pg	28	29.95	-0.9	BALM	3.30	121	eP	37	55.46	-1.5				eSn	48	46.90	
			Sg	28	45.18		KAIM	3.45	147	eP	37	59.74	0.9				eSg	48	48.00	
MOF	1.30	173	Pg	28	34.12	-0.2	FYU	3.93	17	eP	38	04.48	-1.2	HHA1	1.70	207	eP	48	26.39	-1.6
			Sg	28	52.16		43 obs. associated										eSg	48	48.09	
BSF	1.32	183	Pg	28	34.54	0.0	-----							HRV	1.94	349	iPnc	48	31.80	0.3
TOD	1.33	69	ePg	28	33.17	-1.5	& FEB 14, 1993 16h 47m 47.57s							BW06	2.40	147	eP	48	36.10	-2.1
FEL	1.47	149	Pg	28	37.50	0.7	59.751 N 153.354 W							HVU	3.21	200	eP	48	50.61	1.0
TNS	1.48	43	ePnc	28	38.20	1.4	DEPTH = 113.3km							DAU	4.39	179 (P)		49	08.37	1.7
			iSn	28	57.10		SOUTHERN ALASKA (2)							RSSD	5.25	95 (P)		49	20.21	1.5
			iSb	28	59.50		<AEIC>.							S.D. = 1.2 on 13 of 14 obs.						
ENN	1.74	339	iPnc	28	42.00	1.5	INW	0.34	19	eP	48	03.29	-1.0	FEB 14, 1993 16h 48m 26.12± 0.62s						
	0.7s	13.70nm							eS	48	16.49		22.422 N ± 8.8km 94.917 E ± 7.7km							
SLE	1.74	142	ePd	28	41.40	0.8	INE	0.34	25	eP	48	03.57	-0.8	DEPTH = 33.0km (normol)						
DOU	1.77	303	P	28	40.20	-0.8	AUL	0.37	186	eP	48	03.82	-0.5	4.5mb (9 obs.)						
			iS	29	02.00		ILIM	0.39	31	eP	48	03.45	-1.0	MYANMAR (296)						
LOMF	1.80	181	Pg	28	43.31	1.9				eS	48	16.82		CHTO	5.21	133	ePn	49	44.50	0.7
ZLA	1.94	148	ePd	28	44.90	1.4	AUH	0.39	187	eP	48	03.86	-0.6				ePg	50	04.50	
SNF	2.17	310	iP	28	53.10	6.3X	AUE	0.39	181	eP	48	03.21	-1.1				iSg	51	15.80	
			iS	29	13.60		AUI	0.42	185	eP	48	04.01	-0.5	KMI	7.65	68	ePg	50	42.50	24.1X
GRF	2.88	77	ePg	29	04.90	8.0X	MCNL	0.76	222	eP	48	06.12	-0.9	Z	10s	1.50um				
			eSg	29	40.60					S	48	20.15		LOE	8.12	127	ePn	51	01.00	36.3X
VDL	3.18	146	iPd	29	02.10	0.8	RS1	0.77	23	eP	48	06.68	-0.7				ePg	51	53.70	
OSS	3.29	137	ePc	29	03.80	0.9				eS	48	21.20					eSg	52	36.00	
KHC	4.39	88	Pn	29	18.50	0.2	RS2	0.77	22	eP	48	06.33	-1.1	NST	8.33	143	eP	50	29.00	1.4
			e	29	37.70					eS	48	21.31		KHT	8.36	155	eP	50	36.00	8.0X
			Sn	30	08.50		RSO	0.77	23	eP	48	06.51	-0.9	GUN	9.84	306	P	50	47.00	-1.0
			Sg	30	31.40					eS	48	20.96		PKI	10.03	303	P	50	51.00	0.6
			e	30	40.50		RDW	0.78	20	eP	48	07.10	-0.4	KKN	10.24	303	P	50	51.00	-0.1
GEC2	4.49	91	Pn	29	18.60	-1.2	REF	0.81	24	eP	48	06.89	-0.8	KKN	10.24	303	P	50	51.00	10.7X
			Sn	30	10.10					eS	48	21.76		DMN	10.29	302	P	50	51.00	4
			Sg	30	32.60		CDD	0.84	190	eP	48	06.84	-0.9	GKN	10.84	303	P	51	01.00	-0.8
S.D. = 1.1 on 21 of 23 obs.							NCT	0.84	14	eP	48	06.87	-1.0	GVA	11.43	67	P	51	01.00	1.1X
& FEB 14, 1993 16h 37m 06.48s							DFR	0.91	21	eP	48	07.53	-1.0	Z	12s	0.89um				
62.855 N 148.169 W							NKA	1.45	46	P	48	14.30	0.0	CD2	11.57	41	eP	51	01.00	-0.9
DEPTH = 61.3km							CKT	1.56	21	eP	48	13.90	-1.9	Z	11s	0.83um				
CENTRAL ALASKA (1)							SPU	1.57	24	eP	48	14.68	-1.2	N	10s	0.72um				
<AEIC>. ML 2.5 (AEIC).										S	48	37.69		LZH	15.68	28	eP	51	00.30	0.2
RND	0.63	331	iP	37	20.14	-0.1	CKN	1.59	21	eP	48	14.86	-1.2		1.4s	32.00nm				
			eS	37	29.96		SLKM	1.74	63	eP	48	16.62	-1.3	Z	10s	0.37um				
HUR	0.68	281	eP	37	20.50	-0.2	SEW	2.00	78	eP	48	19.69	-1.4			pP				
			eS	37	31.70		SUA	2.15	36	iP	48	22.47	-0.7	HYB	16.17	255	eP	51	01.00	0.6X
MCK	0.95	339	eP	37	24.09	0.1				S	48	49.07		XAN	16.90	44	P	51	01.00	-3.7X
SML	1.05	184	eP	37	24.95	-0.5	PMS	2.40	50	P	48	25.00	-1.5			pP				
			eS	37	40.16					S	48	53.50				sP				
SCM	1.10	159	eP	37	25.87	-0.2	SKT	2.41	21	eP	48	25.13	-1.4	GTA	17.44	13	eP	51	01.00	1.6
			eS	37	41.36		PTE	2.43	61	eP	48	25.32	-1.4	Z	12s	0.36um				
TRF	1.13	303	eP	37	26.42	-0.2	PWA	2.56	40	eP	48	28.15	-0.3	E	10s	0.44um				
GHO	1.14	198	eP	37	26.24	-0.5	PLRM	2.78	47	eP	48	29.09	-2.3	GBA	18.78	245	P	51	01.00	8.9X
THY	1.23	62	eP	37	28.13	0.2	LTI	2.79	82	eP	48	29.53	-2.0			S	56	17.00		
PAX	1.24	83	eP	37	27.96	-0.1	KNIM	2.88	76	eP	48	29.76	-3.0	TIIY	21.44	41	eP	53	15.00	2.1X
			eS	37	44.09		GHO	2.97	45	eP	48	31.74	-2.3	Z	16s	0.71um				
SDG	1.25	104	eP	37	28.39	0.2	SML	3.21	48	eP	48	34.53	-2.7	N	12s	0.44um				
			eS	37	45.28		GLI	3.31	67	eP	48	36.47	-2.1	WMO	22.16	346	P	53	19.00	-1.9
PLRM	1.35	200	eP	37	29.07	-0.3	HIN	3.49	76	eP	48	38.83	-2.2			eS	57	19.00		
PWA	1.45	214	P	37	31.50	0.7	FID	3.57	71	eP	48	39.00	-3.1	BTO	22.17	32	eP	53	19.00	-2.0
TZL	1.51	121	eP	37	32.06	0.4	VZW	3.62	66	eP	48	41.09	-1.7	N	11s	0.25um				
HDA	1.65	19	eP	37	33.16	-0.4	VLZ	3.74	65	eP	48	42.67	-1.7	E	12s	0.34um				
KLU	1.73	141	eP	37	34.38	-0.4	CVA	3.88	75	P	48	44.20	-2.1	HHC	23.13	34	eP	53	32.00	1.6
PMS	1.74	203	P	37	35.40	0.5	KLU	4.06	61	eP	48	45.71	-3.1	Z	10s	0.51um				
SKT	1.79	242	eP	37	35.76	0.1	SGAM	4.14	76	eP	48	47.15	-2.7	N	12s	0.23um				
			eS	37	58.66		RAGM	4.40	78	P	48	52.00	-1.3	E	10s	0.22um				
CCB	1.81	5	eP	37	34.67	-1.1	GLB	5.00	66	eP	48	59.56	-2.1	KSH	23.42	321	P	53	33.40	0.2
SUA	1.85	222	eP	37	37.28	0.8	CROM	5.19	74	eP	49	02.14	-2.2		0.9s	40.00nm				
VLZ	1.93	153	eP	37	36.43	-1.1	TGL	5.34	75	eP	49	04.04	-2.2	BJI	25.17	41	eP	53	51.00	1.0
VZW	1.96	156	eP	37	37.06	-0.9	BALM	5.61	72	eP	49	07.68	-2.3	Z	12s	0.30um				
DOT	2.02	65	eP	37	37.48	-1.3	YAH	5.85	79	eP	49	11.58	-1.9	QUE	26.19	293	eP	54	06.50	6.7X
PTE	2.04	192	eP	37	38.96	0.0	CTGM	6.09	73	eP	49	14.82	-1.9	WRA	57.05	135	P	58	10.40	-1.2
GLI	2.05	165	eP	37	38.18	-0.9	47 obs. associated								0.7s	1.20nm				
FBA	2.06	4	P	37	38.20	-1.1	FEB 14, 1993 16h 47m 57.42± 0.63s							WB2	57.06	135	eP	58	09.50	-2.2
MDM	2.11	359	eP	37	39.23	-0.8	44.808 N ± 5.1km 111.314 W ± 6.1km								1.0s	4.00nm				
GLM	2.17	9	eP	37	39.81	-1.1	DEPTH = 5.0km (geophysicist)							NUR	61.04	328	eP	58	40.50	1.8
FID	2.26	158	eP	37	41.48	-0.6	HEBGEN LAKE REGION (458)							GEC2	67.79	315	P	59	22.60	-0.4
CPAM	2.47	231	eP	37	43.47	-1.6	ML 2.7 (GS), 3.1 (BUT). Felt								0.7s	0.57nm				
SPU	2.49	229	eP	37	45.64	0.3	(III) at Horse Butte northwest							GRF	69.25	316	e(P)	59	34.70	2.8X
GLB	2.49	123	eP	37	45.26	-0.1	of West Yellowstone, Montana.							CDF	72.05	316	eP	59	52.30	3.3X
KNIM	2.52	175	eP	37	44.11	-1.7	TPMT	0.26	253	iPd	48	03.20								

14d 17h

0.9s 6.40nm 4.6mb
 TCF 75.94 314 eP 00 15.60 4.1X
 EKA 76.29 324 P 00 17.00 3.8X
 2.5s 84.30nm 5.3mb
 CAF 76.46 313 eP 00 18.90 4.5X
 RJF 76.71 314 eP 00 20.40 4.6X
 LDF 76.72 317 eP 00 19.30 3.5X
 LPO 77.13 313 eP 00 22.50 4.4X
 S.D. = 1.4 on 19 of 42 obs.

FEB 14, 1993 16h 58m 35.27±0.53s
 42.746 N ± 5.0km 111.405 W ± 6.4km
 DEPTH = 5.0km (geophysicist)
 EASTERN IDAHO (457)
 ML 2.8 (GS), 3.0 (BUT).

PTI 0.72 280 ePn 58 48.67 -1.0
 HHA1 0.90 308 ePn 58 52.95 -0.1
 BW06 1.36 88 ePn 59 01.07 0.0
 HVU 1.40 227 ePn 59 00.61 -1.1
 TPMT 1.99 355 eP 59 11.80 1.6
 MCMT 2.33 334 ePn 59 17.10 2.0
 DAU 2.33 177 ePn 59 15.31 0.1
 BGMT 2.53 350 ePnd 59 21.20 3.3X
 DUG 2.76 203 eP 59 20.73 -0.4
 MEMT 2.87 6 ePn 59 20.80 -2.0
 EMUT 2.96 171 ePn 59 24.93 0.8
 BUT 3.37 346 ePg 59 49.20 19.4X
 SRU 3.69 169 ePn 59 35.21 0.8
 MSU 4.27 188 ePn 59 44.12 1.5
 PV09 4.58 157 ePn 59 46.91 -0.2
 PV08 4.66 152 (Pn) 59 47.21 -1.1
 PV10 4.72 157 (P) 59 51.34 2.2X
 RSSD 5.54 73 (P) 59 59.93 -0.7
 S.D. = 1.2 on 15 of 18 obs.

* FEB 14, 1993 17h 20m 43.06±1.54s
 51.127 N ± 23.5km 15.880 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 MG 2.8 (WAR).

KSP 0.39 137 iPd 20 50.40 -0.6
 BRG 1.25 259 iPg 21 05.80 -0.4
 PRU 1.42 217 ePg 21 13.00 4.0X
 CLL 1.82 277 ePg 21 14.00 -0.6
 KHC 2.49 217 ePn 21 31.00 6.7X
 OJC 2.65 109 eP 21 27.10 0.5
 MOX 2.74 262 ePg 21 33.80 5.9X
 GRF 3.31 246 e(Pn) 21 37.10 1.2
 S.D. = 1.1 on 5 of 8 obs.

% FEB 14, 1993 17h 48m 59.65±1.06s
 17.961 N ± 15.2km 66.725 W ± 7.3km
 DEPTH = 33.0km (normal)
 PUERTO RICO REGION (90)

PORP 0.12 42 P 49 05.90 0.3
 MGP 0.35 278 P 49 08.00 -0.1
 APR 0.49 359 P 49 10.00 -0.1
 SJG 0.57 75 iP 49 11.00 -0.3
 S 49 19.80

CPD 0.77 84 P 49 14.00 -0.1
 LPR 0.88 67 P 49 16.00 0.3
 S.D. = 0.3 on 6 of 6 obs.

* FEB 14, 1993 18h 21m 58.14±0.42s
 54.549 N ± 7.5km 161.158 E ± 9.9km
 DEPTH = 33.0km (normal)
 4.5mb (29 obs.)
 NEAR EAST COAST OF KAMCHATKA (218)

YAK 17.99 307 eP 26 08.00 1.1
 MAT 23.95 231 iPd 27 11.10 1.0
 IMA 24.55 44 ePc 27 17.30 1.6
 YKA 41.67 44 eP 29 44.30 -0.2
 KAF 58.39 337 eP 31 51.00 -1.1
 NUR 60.19 337 eP 32 03.10 -1.4
 EKA 69.73 351 P 33 05.50 -0.7
 GEC2 73.40 338 Pd 33 28.30 0.0
 CDF 75.08 342 eP 33 37.90 -0.2
 GBA 75.41 273 P 33 40.00 -0.3
 HAU 75.63 343 eP 33 40.80 -0.3
 FLN 75.91 348 eP 33 42.00 -0.6
 LDF 76.03 347 eP 33 42.70 -0.6
 GRR 76.32 348 eP 33 44.60 -0.4
 LPF 76.69 348 eP 33 46.80 -0.2
 LOR 76.76 344 eP 33 47.10 -0.4
 SSF 77.01 345 eP 33 48.60 -0.3
 LBF 77.01 344 eP 33 48.30 -0.6
 AVF 77.30 345 eP 33 50.30 -0.1
 SMF 77.37 344 eP 33 50.60 -0.2
 WB2 77.67 206 eP 33 51.20 -1.5
 WRA 77.67 206 P 33 53.20 0.5
 TCF 77.96 345 eP 33 54.10 0.0
 LPL 77.97 342 eP 33 55.30 0.9
 MAF 77.98 345 eP 33 54.60 0.4
 LPG 77.98 342 eP 33 55.60 1.0
 MFF 77.99 347 eP 33 54.30 0.1
 LSF 78.10 346 eP 33 55.00 0.1
 CAF 79.32 345 eP 34 02.30 0.7
 LPO 79.68 346 eP 34 04.10 0.6
 LRG 80.03 342 eP 34 05.90 0.6
 LMR 80.12 342 eP 34 06.20 0.4
 PGF 80.39 340 eP 34 07.50 0.0
 ASPA 81.35 205 iPc 34 12.50 0.0
 S.D. = 0.7 on 34 of 34 obs.

& FEB 14, 1993 18h 36m 51.65s
 63.049 N 151.013 W
 DEPTH = 120.3km
 3.9mb (2 obs.)
 CENTRAL ALASKA (1)
 <AEIC>.

TRF 0.52 39 iPc 37 10.00 -0.2
 S 37 24.01

HUR 0.63 96 ePc 37 10.32 -0.5
 RND 1.04 69 eP 37 13.89 -0.6
 SKT 1.10 193 iPd 37 14.75 -0.3
 MCK 1.16 53 ePc 37 15.29 -0.4
 PWA 1.50 159 P 37 19.30 -0.1
 SUA 1.60 175 iPc 37 20.43 -0.3
 GHO 1.61 142 iPc 37 20.60 -0.2
 PLRM 1.71 148 iPc 37 21.23 -0.7
 PMR 1.71 148 iPn 37 20.90 -1.0
 NEA 1.76 28 eP 37 21.51 -1.1
 SML 1.76 134 iPc 37 21.98 -0.7
 CRP 1.87 197 iPn 37 23.16 -0.9
 CPAM 1.88 197 ePc 37 23.96 -0.2
 CP2 1.88 198 iPn 37 23.83 -0.5
 BGL 1.91 200 eP 37 24.71 0.2
 CKN 1.91 197 ePc 37 24.50 0.0
 SPU 1.94 195 iPc 37 24.25 -0.6
 CKT 1.94 197 ePc 37 24.43 -0.5
 CKL 1.96 199 ePc 37 24.97 -0.2
 SCM 2.10 124 ePc 37 25.84 -1.1
 CCB 2.14 40 ePd 37 26.35 -1.0
 HDA 2.26 51 eP 37 28.38 -0.5
 MDM 2.28 31 eP 37 28.16 -1.0
 TTA 2.28 269 iPn 37 28.36 -0.9
 NKA 2.32 183 eP 37 31.24 1.6
 FBA 2.34 36 iPn 37 28.57 -1.3
 PTE 2.39 156 ePc 37 29.37 -1.1
 THY 2.41 79 eP 37 31.46 0.6
 GLM 2.52 38 ePd 37 31.31 -1.0
 PAX 2.53 89 ePd 37 31.99 -0.5
 SDG 2.57 99 ePd 37 32.58 -0.3
 SLKM 2.58 171 eP 37 32.22 -0.9
 DFR 2.59 199 ePc 37 32.75 -0.5
 NCT 2.66 201 eP 37 34.15 0.0
 MPA 2.69 162 iPc 37 33.16 -1.3
 RDW 2.71 199 ePc 37 34.68 -0.3
 RS2 2.72 198 ePc 37 34.78 -0.4
 RSO 2.73 198 ePc 37 34.70 -0.5
 RS1 2.73 198 ePc 37 34.82 -0.4
 KLU 2.85 121 iPc 37 34.76 -1.9
 GLI 2.86 138 iPc 37 35.04 -1.7
 VZW 2.90 132 ePc 37 35.38 -1.9
 SVW 2.91 230 iPn 37 36.36 -1.2
 VLZ 2.92 129 ePc 37 35.39 -2.2
 SEW 3.05 165 eP 37 37.99 -1.2
 ILIM 3.12 198 eP 37 40.07 -0.2
 KNIM 3.13 149 iPc 37 38.05 -2.3
 FID 3.15 135 iPc 37 38.75 -1.9
 INE 3.16 199 eP 37 40.58 -0.3
 INW 3.16 200 eP 37 41.16 0.3
 DOT 3.19 76 iPd 37 39.88 -1.3
 IMA 3.24 340 P 37 41.00 -1.0
 BRLK 3.30 179 ePc 37 41.97 -0.6
 LTI 3.38 152 eP 37 41.50 -2.1
 HIN 3.42 139 ePc 37 42.23 -2.0
 CVA 3.54 133 ePd 37 44.26 -1.6
 GLB 3.74 112 ePc 37 46.93 -1.6
 SGAM 3.76 130 ePc 37 46.53 -2.3
 RAGM 4.03 129 eP 37 50.43 -2.0
 MCNL 4.20 204 eP 37 54.51 -0.2
 FYU 4.31 32 ePd 37 55.12 -1.1
 CDD 4.33 198 eP 37 55.68 -0.8
 CRQM 4.38 118 eP 37 55.66 -1.7
 TGL 4.50 117 eP 37 56.70 -2.3
 BALM 4.55 112 ePc 37 57.47 -2.2

SNH 4.85 123 eP 38 01.91 -1.7
 CTGM 5.02 110 eP 38 04.62 -1.4
 YAH 5.17 117 eP 38 05.82 -2.3
 KDC 5.37 189 eP 38 07.83 -2.8
 PCA 5.93 115 eP 38 16.32 -2.1
 BCPM 6.27 115 eP 38 21.15 -1.8
 PNL 6.53 116 eP 38 24.88 -1.7
 HQN 6.87 116 eP 38 28.89 -2.3
 BRW 8.58 348 eP 38 50.86 -3.4
 SIT 9.86 120 e(P) 39 10.60 -0.9
 YKA 16.53 76 eP 40 36.70 -0.6
 0.6s 3.80nm 3.8mb
 BW06 31.37 111 eP 43 00.85 -2.0
 0.7s 1.86nm 3.9mb
 MSU 33.86 118 ePd 43 24.15 -0.2
 e 43 42.44
 79 obs. associated

? FEB 14, 1993 19h 19m 59.98±1.54s
 47.236 N ±38.7km 153.178 E ±34.3km
 DEPTH = 33.0km (normal)
 4.2mb (3 obs.)
 KURIL ISLANDS (221)

KUSJ 7.27 238 eP 21 45.80 -0.8
 eS 23 06.40
 ASAJ 8.01 251 eP 22 01.90 5.0X
 HOOJ 8.54 239 eP 22 05.00 0.8
 eS 23 39.00
 MAT 15.41 232 (P) 23 34.00 -2.5X
 0.7s 6.85nm 4.0mb
 IMA 33.39 36 eP 26 37.20 0.0
 1.0s 5.75nm 4.4mb
 YKA 50.51 37 eP 28 56.40 0.0
 0.6s 1.80nm 4.2mb
 NUR 64.79 335 eP 30 37.00 0.0
 S.D. = 0.8 on 5 of 7 obs.

* FEB 14, 1993 20h 02m 10.77±0.75s
 8.656 S ±22.0km 122.082 E ±15.6km
 DEPTH = 33.0km (normal)
 4.1mb (1 obs.)
 FLORES REGION, INDONESIA (286)

KHKI 6.41 272 eP 03 46.30 0.9
 e 06 20.70
 MTN 9.82 116 eP 04 34.70 1.9
 0.4s 113.00nm 6.5mb X
 WB2 16.34 135 iPc 05 57.60 -1.8
 0.4s 6.90nm 4.1mb
 ASPA 18.73 144 iPc 06 32.00 2.8X
 eS 09 52.80
 CHTO 35.58 320 eP 09 08.40 1.0
 GUN 50.47 317 P 11 07.80 -0.4
 0.7s 14.00nm 5.1mb X
 PKI 50.57 317 P 11 07.60 -1.3
 KKN 50.80 317 P 11 11.00 0.5
 DMN 50.80 316 P 11 10.40 -0.2
 GKN 51.37 317 P 11 14.00 -0.8
 S.D. = 1.4 on 9 of 10 obs.

& FEB 14, 1993 20h 45m 55.50s
 36.227 N 120.462 W
 DEPTH = 4.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.3 (PAS), 3.2 (GS),
 2.9 (BRK).

PRI 0.19 243 iPd 45 59.88 0.6
 PKEM 0.33 120 iPn 46 02.30 0.2
 PHAM 0.39 172 iPn 46 03.45 0.1
 LLA 0.55 315 iPc 46 06.34 -0.2
 PRS 0.74 278 iPc 46 09.59 -0.7
 SAO 0.96 304 ePd 46 13.47 -0.8
 eS 46 26.87
 FRI 0.97 38 iPc 46 12.45 -2.1
 eS 46 27.44
 BCH 1.08 163 eP 46 15.05 -1.5
 ARN 1.41 323 iPn 46 20.05 -2.0
 COE 1.42 317 ePn 46 20.27 -1.8
 MHC 1.46 320 ePd 46 20.97 -1.8
 eS 46 49.15
 GCC 1.47 303 eP 46 20.87 -1.9

ISA 1.71 109 ePn 46 24.04 -2.2
 eS 46 45.73
 CMB 1.81 2 ePc 46 25.96 -1.7
 eS 46 50.61
 STAN 1.81 311 eP 46 26.57 -1.1
 MEMM 1.88 40 eP 46 26.45 -2.3
 MTUM 1.89 53 iP 46 28.14 -0.9
 PCC 2.00 310 eP 46 29.09 -1.3
 MRCM 2.13 47 eP 46 32.29 -0.2
 BKS 2.17 320 ePc 46 30.58 -2.4
 eS 47 13.72
 HMR 2.20 331 (P) 46 34.32 1.0
 BONR 2.44 44 eP 46 36.82 -0.3
 NTYM 2.78 322 (P) 46 39.39 -2.2
 SSK 3.03 131 eP 46 42.79 -2.5
 GSC 3.11 106 ePn 46 43.85 -2.6
 TNP 3.18 53 eP 46 46.45 -1.1
 (S) 47 18.85
 KVN 3.39 33 (P) 46 51.74 1.3
 eS 47 41.05
 ORV 3.42 346 eP 46 50.15 -0.6
 eS 47 41.36
 TPNV 3.47 77 eP 46 50.49 -1.0
 (S) 47 41.18
 PLM 4.12 133 eP 46 58.27 -2.5
 30 obs. associated

FEB 14, 1993 21h 03m 48.51±1.05s
 37.777 N ±8.7km 21.373 E ±7.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 MD 3.4 (ATH), ML 3.1 (THE).

VLS 0.74 303 ePb 04 02.50 -0.5
 AGG 1.45 31 ePb 04 14.93 0.1
 eSb 04 36.60
 VLI 1.64 130 ePb 04 16.50 -0.9
 ATH 1.87 83 ePb 04 22.80 2.1
 eSn 04 45.00
 KEK 2.29 328 ePn 04 28.00 1.1
 LIT 2.48 20 ePn 04 29.24 -0.3
 eSn 05 03.96
 KZN 2.55 7 ePn 04 32.00 1.4
 PAIG 2.80 39 ePn 04 33.60 -0.6
 FNA 3.00 0 ePn 04 36.44 -0.6
 eSn 05 14.60
 OUR 3.26 38 ePn 04 40.28 -0.4
 GRC 3.27 14 ePn 04 40.64 -0.3
 eSn 05 22.08
 OHR 3.36 353 ePn 04 42.70 0.6
 SOH 3.41 26 ePn 04 43.04 0.3
 eSn 05 25.92
 KNT 3.58 19 ePn 04 43.64 -1.6
 eSn 05 29.16
 VAY 3.66 14 ePn 04 46.60 0.3
 SRS 3.75 27 ePn 04 47.00 -0.7
 S.D. = 1.0 on 16 of 16 obs.

* FEB 14, 1993 21h 47m 13.55±1.01s
 47.221 N ±8.7km 8.958 E ±8.6km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.5 (LDG), 2.3 (STR).

FEL 0.92 316 ePn 47 31.29 0.1
 BBS 1.01 284 Pg 47 32.00 -0.8
 Sg 47 45.97
 LOMF 1.46 276 Pg 47 39.41 -0.6
 ECH 1.57 310 Pg 47 43.91 2.4
 Sg 48 04.26
 BSF 1.59 293 Pg 47 42.30 0.4
 Sg 48 03.20
 CDF 1.64 317 Pn 47 42.20 -0.5
 Sg 48 06.40
 CDF 1.64 317 Pg 47 46.12 3.4X
 Sg 48 07.40
 HAU 1.93 295 Pn 47 45.40 -1.4
 Pg 47 48.50
 Sg 48 14.20
 LPL 2.30 223 Pg 47 52.40 0.1
 Sg 48 22.40
 LPG 2.30 222 Pg 47 52.90 0.5
 Sg 48 22.00
 LOR 3.47 273 Pg 48 15.00 6.3X
 Sg 49 00.60
 SMF 3.55 263 Pg 48 16.90 7.0X
 Sg 49 03.30

GEC2 3.57 61 Pn 48 09.90 -0.3
 Pg 48 22.50
 Sn 48 54.20
 Sg 49 10.60
 S.D. = 1.1 on 10 of 13 obs.

% FEB 14, 1993 22h 26m 31.50±0.70s
 38.523 S ±7.1km 177.413 E ±7.5km
 DEPTH = 55.0km (geophysicist)
 NORTH ISLAND, NEW ZEALAND (159)

URZ 0.35 318 Pd 26 41.70 0.1
 S 26 48.80
 PAHZ 0.44 220 P 26 44.00 1.5
 MOH 0.64 199 P 26 46.40 1.5
 MAHZ 0.76 151 P 26 47.30 1.0
 TAZ 0.77 292 Pc 26 47.00 0.6
 PUZ 0.80 56 P 26 46.50 -0.4
 WHH 0.80 243 Pc 26 48.10 1.1
 UTU 1.02 289 eP 26 50.10 0.3
 TTH 1.12 204 P 26 52.40 1.3
 HBZ 1.16 38 P 26 51.00 -0.7
 WAHZ 1.43 215 P 26 55.60 0.0
 NGZ 1.56 245 P 26 57.60 0.2
 WLZ 1.57 294 P 26 57.20 -0.2
 S 27 13.70
 CNZ 1.61 245 Pc 26 58.60 0.6
 DRZ 1.63 242 P 26 58.90 0.4
 BSZ 2.31 236 P 27 07.90 0.1
 MNG 2.57 215 P 27 09.30 -2.2
 NRZ 2.83 252 P 27 15.90 0.6
 MTW 3.02 209 P 27 14.30 -3.6X
 KIW 3.03 219 P 27 15.40 -2.7
 CAW 3.15 214 P 27 16.20 -3.6X
 MOW 3.34 209 P 27 18.30 -4.1X
 MRW 3.42 217 P 27 19.60 -3.9X
 S 27 59.70
 DIW 3.53 229 P 27 22.10 -3.0
 TCW 3.61 221 P 27 22.10 -4.1X
 ORZ 4.42 237 P 27 33.40 -4.2X
 THZ 4.73 225 eP 27 37.20 -4.9X
 S 28 31.40
 KHZ 4.88 216 eP 27 38.50 -5.7X
 S 28 32.00
 DSZ 5.37 231 P 27 45.80 -5.3X
 LTZ 5.78 221 eP 27 50.60 -6.2X
 S 28 52.50
 MOZ 6.30 213 eP 27 56.60 -7.4X
 S 29 03.30
 EWZ 7.03 223 eP 28 09.50 -4.7X
 ODZ 8.25 216 eP 28 22.40 -8.6X
 eS 29 51.30
 LRCZ 8.89 220 P 28 32.90 -7.1X
 LSCZ 8.91 220 eP 28 32.00 -8.2X
 MHZ 8.92 220 eP 28 32.30 -8.1X
 SBCZ 8.92 220 eP 28 32.00 -8.4X
 MMCZ 8.95 221 eP 28 33.70 -7.2X
 CMZ 8.98 220 eP 28 32.80 -8.4X
 TLC 9.11 220 eP 28 34.70 -8.4X
 S.D. = 1.4 on 20 of 40 obs.

FEB 14, 1993 22h 36m 44.50±0.34s
 12.888 N ±6.6km 146.083 E ±6.7km
 DEPTH = 26.1km (10 depth phases)
 5.0mb (17 obs.) 4.4Msz (4 obs.)
 SOUTH OF MARIANA ISLANDS (210)

GUA 1.31 300 eP 37 09.80 2.6
 e 37 15.70
 (S) 37 26.30
 GUMO 1.37 301 eP 37 10.30 2.2
 e(S) 37 27.20
 PJG 1.37 301 eP 37 10.20 2.1
 i 37 21.00
 NMCC 2.28 351 eP 37 26.00 4.9X
 eS 37 54.00
 KAGJ 22.97 325 P 41 48.00 -0.1
 WKYJ 23.28 338 P 41 51.00 -0.1
 TKSJ 23.68 334 P 41 55.60 0.6
 CHJJ 23.93 346 eP 41 56.20 -1.1
 KUMJ 24.04 327 P 41 58.30 -0.1
 TSRJ 24.33 340 eP 42 00.50 -0.7
 MAT 24.59 345 (P) 42 03.00 -0.8
 1.2s 23.44nm 4.6mb
 eS 46 16.00
 MTMJ 24.74 344 eP 42 04.20 -1.1
 YONJ 24.97 335 P 42 06.50 -0.9

14d 22h

NIJ 25.07 347 eP 42 06.50 -1.8
 SSE 29.23 312 Pc 42 48.80 2.3
 WHN 34.15 306 Pd 43 29.50 -0.2
 WB2 34.61 200 eP 43 31.50 -2.2
 0.6s 8.00nm 4.8mb
 i 43 39.70 28km
 WRA 34.61 200 P 43 33.20 -0.5
 CN2 35.55 334 eP 43 39.60 -1.9
 0.6s 2.80nm 4.4mb
 Z 18s 0.54um 4.4MsZ
 eP 43 49.80 35km
 BJI 37.73 321 eP 43 59.00 -0.8
 1.0s 11.00nm 4.6mb
 Z 16s 0.29um 4.2MsZ
 ASPA 38.23 198 eP 44 04.10 -0.2
 0.6s 4.50nm 4.5mb
 i 44 12.80 29km
 i 45 31.50
 TIY 38.85 316 Pd 44 09.00 -0.4
 Z 18s 0.73um 4.5MsZ
 RMO 39.23 176 eP 44 12.00 -0.5
 0.9s 21.00nm 4.9mb
 GYA 39.33 296 P 44 14.00 0.4
 XAN 39.75 308 Pc 44 16.00 -1.0
 0.8s 16.00nm 4.8mb
 pP 44 29.50 51kmX
 sP 44 36.50
 DZM 40.07 150 iPc 44 19.90 0.2
 HHC 41.07 319 Pd 44 27.00 -0.8
 1.2s 24.00nm 4.8mb
 Z 26s 0.71um 4.4MsZ
 BTO 41.94 318 eP 44 35.00 0.1
 CD2 42.87 302 eP 44 42.20 -0.4
 LZH 44.38 309 Pc 44 55.00 0.1
 1.4s 79.00nm 5.4mb
 Z 20s 0.25um 4.1MsZ
 pP 45 07.50 46kmX
 sP 45 14.00
 NST 44.55 279 eP 44 58.00 1.7
 SMY 45.62 24 (P) 45 07.40 3.1X
 0.7s 70.36nm 5.7mb
 CHTO 45.63 284 eP 45 04.80 -0.1
 GTA 48.52 312 P 45 27.00 -0.5
 1.0s 38.00nm 5.4mb
 pP 45 36.00 30km
 YAK 50.45 350 iPd 45 39.50 -2.3
 0.8s 52.00nm 5.6mb
 LSA 53.37 297 P 46 05.30 0.5
 0.8s 5.00nm 4.5mb
 GUN 57.86 295 P 46 36.60 -0.5
 PKI 58.26 294 P 46 39.00 -0.9
 KKN 58.38 295 P 46 39.80 -0.8
 WMO 58.47 314 P 46 40.00 -0.9
 1.5s 32.00nm 5.2mb
 pP 46 49.00 30km
 PcP 47 25.00
 PP 48 53.00
 DMN 58.53 295 P 46 41.00 -0.7
 GKN 58.96 295 P 46 44.00 -0.6
 GBA 66.61 279 P 47 35.00 -0.3
 MAIO 79.78 305 eP 48 54.00 1.7
 GMW 81.37 43 eP 49 01.97 1.5
 eP 49 08.69 21km
 RMW 82.04 43 eP 49 04.93 0.9
 eP 49 12.27 23km
 ORV 83.76 51 eP 49 13.68 0.8
 eP 49 20.82 23km
 RES 84.95 13 eP 49 21.50 3.3X
 NEW 84.97 42 eP 49 19.03 0.2
 1.1s 20.83nm 5.3mb
 SES 88.21 39 eP 49 35.00 0.3
 LCCM 89.07 43 eP 49 39.90 0.8
 e 49 46.30 20km
 HVU 89.65 47 eP 49 43.22 1.4
 DUG 90.08 49 eP 49 44.97 1.1
 1.2s 10.88nm 5.0mb
 MSU 91.05 50 eP 49 49.39 0.9
 e 49 56.56 22km
 KAF 91.84 336 iP 49 49.80 -1.5
 0.9s 11.70nm 5.3mb
 PV09 93.32 49 eP 49 59.81 0.8
 PV10 93.43 50 eP 50 00.13 0.7
 KIC 145.27 302 PKP 56 21.84 -0.7
 TIC 145.34 302 PKP 56 22.10 -0.6
 LIC 145.58 302 PKP 56 22.94 -0.2
 ZOBO 146.74 100 PKPd 56 27.00 1.3
 Z 20s 0.06um 4.4MsZ

LR 45 20.00
 LPB 146.77 101 ePKP 56 24.00 -1.5
 CNCB 146.87 101 PKP 56 28.10 2.3
 SIV 153.53 100 PKP 56 47.00 11.8X
 i 57 19.70
 i 57 50.10
 S.D. = 1.2 on 60 of 64 obs.
 FEB 15, 1993 00h 15m 01.25±0.35s
 7.889 S ± 6.4km 129.651 E ± 0.7km
 DEPTH = 33.0km (normal)
 4.9mb (12 obs.)

BANDA SEA (280)

DAV 15.42 345 eP 18 39.20 1.0
 ASPA 16.21 166 iPd 18 44.20 -4.1X
 eS 21 34.70
 WARB 18.42 189 eP 19 13.00 -2.8
 eS 22 18.00
 KKM 19.27 316 ePd 19 27.50 1.3
 CTA 20.14 129 iPd 19 35.00 -0.6
 2.0s 58.82nm 4.6mb
 i 19 40.00
 eS 23 18.00
 MEEK 21.39 208 eP 19 49.00 0.6
 FORT 22.82 184 eP 20 03.00 0.5
 eS 23 07.00
 OCP 23.94 339 iP 20 15.00 1.5
 MRWA 24.81 209 eP 20 23.30 1.5
 0.4s 9.00nm 4.7mb
 BAG 25.76 340 ePd 20 29.50 -1.5
 RMO 25.92 138 eP 20 42.20 9.9X
 0.6s 12.00nm 4.7mb
 KLB 26.06 204 eP 20 34.50 1.0
 STK 26.33 157 eP 20 35.70 -0.4
 0.8s 8.20nm 4.4mb
 eS 23 40.10
 MUN 27.04 206 eP 20 43.00 0.5
 ADE 28.20 164 e(P) 20 55.00 1.9X
 BRS 29.25 134 eP 21 10.00 7.3X
 BFD 31.42 160 eP 21 21.60 -0.1
 0.9s 23.00nm 5.0mb
 BWA 31.56 149 eP 21 23.70 0.7
 CAN 32.56 150 eP 21 29.80 -1.9
 DZM 38.11 116 iPd 22 20.30 1.0
 CHTO 40.26 312 ePd 22 38.00 0.9
 0.8s 7.32nm 4.5mb
 KMI 41.99 322 eP 23 02.50 11.0X
 2.0s 40.00nm
 LZH 50.02 333 eP 23 54.00 -0.9
 1.5s 19.00nm 4.9mb
 Z 25s 0.49um 4.4MsZ
 GUN 55.28 312 P 24 32.80 -1.7
 0.6s 28.00nm 5.5mb
 PKI 55.44 311 P 24 34.00 -1.6
 0.6s 13.00nm 5.1mb
 KKN 55.66 311 P 24 35.80 -1.2
 0.7s 18.00nm 5.2mb
 DMN 55.69 311 P 24 36.00 -1.3
 GKN 56.25 311 P 24 39.80 -1.4
 0.6s 20.00nm 5.3mb
 HYB 56.40 297 eP 24 42.00 -0.3
 YAK 69.69 0 eP 26 06.00 -3.4X
 0.9s 36.00nm 5.4mb
 MAIO 78.97 309 eP 27 06.00 2.3X
 AVY 79.88 252 eP 27 12.00 3.0X
 VTY 80.05 252 eP 27 13.00 3.1X
 YKA 108.70 26 ePKP 33 27.20 -1.0
 0.8s 0.50nm
 GEC2 112.88 320 PKP 33 36.50 -0.2
 0.5s 0.78nm
 LPG 118.38 318 ePKP 33 47.70 0.1
 LPL 118.39 318 ePKP 33 47.50 0.0
 0.6s 2.45nm
 PV10 119.27 50 ePKP 33 49.52 0.1
 LBF 119.66 320 ePKP 33 50.10 0.5
 SSF 119.93 320 ePKP 33 50.80 0.7
 0.6s 2.00nm
 BGF 120.55 320 ePKP 33 52.20 0.9
 0.6s 4.05nm
 TCF 121.06 320 ePKP 33 53.10 0.8
 RSSD 121.14 43 ePKP 33 52.04 -0.7
 MFF 122.41 321 ePKP 33 55.60 0.8
 0.5s 2.05nm
 KIC 134.73 271 PKP 34 20.60 1.2
 e 37 24.60
 LIC 135.01 271 PKP 34 21.60 1.7

YJA 146.64 154 ePKP 34 44.00 3.1X
 ARE 148.01 139 ePKP 34 49.00 5.9X
 CNCB 149.89 145 iPKPc 34 53.20 6.9X
 LPB 150.05 144 PKP 34 52.00 5.6X
 ZOBO 150.22 144 PKPc 34 49.70 2.8X
 Z 24s 0.13um 4.6MsZ
 eLR 29 20.00
 CCH 150.43 148 PKP 34 54.00 7.2X
 SIV 154.01 156 PKPc 35 05.30 13.7X
 i 35 19.00

S.D. = 1.2 on 37 of 53 obs.

FEB 15, 1993 00h 18m 05.42±0.27s
 7.712 S ± 6.2km 129.725 E ± 9.2km
 DEPTH = 33.0km (normal)
 5.2mb (9 obs.)

BANDA SEA (280)

AAI 4.28 339 eP 19 13.60 3.7X
 e(S) 20 32.20
 CTA 20.19 129 iPd 22 39.00 -1.3
 1.0s 15.00nm 4.3mb
 i 22 48.60
 i 25 15.00
 i 25 22.00
 eS 26 00.00
 MRWA 24.99 209 eP 23 28.00 0.2
 0.5s 27.00nm 5.1mb
 BAL 25.83 206 eP 23 35.00 -0.6
 KLB 26.25 204 eP 23 35.50 -4.0X
 MUN 27.23 206 eP 23 47.00 -1.4
 BWA 31.67 150 iPd 24 28.40 0.3
 CAN 32.67 150 iPd 24 36.20 -0.7
 i 24 57.80
 DZM 38.12 116 iPd 25 23.00 -0.5
 NJ2 40.88 346 Pd 25 46.50 0.4
 MAT 44.73 10 eP 26 16.00 -1.5
 0.8s 17.91nm 5.0mb
 Z 20s 0.35um 4.3MsZ
 CD2 45.76 328 eP 26 25.60 -0.1
 TIY 47.99 342 eP 26 43.70 0.4
 BJI 49.14 346 eP 26 51.50 -0.4
 1.2s 29.00nm 5.2mb
 HHC 51.13 342 eP 27 07.20 -0.2
 1.0s 8.50nm 4.7mb
 CN2 51.42 356 eP 27 08.60 -0.7
 MDJ 52.08 360 eP 27 14.00 -0.3
 LSA 52.52 317 eP 27 19.00 0.5
 GUN 55.22 312 P 27 37.20 -1.0
 PKI 55.38 311 P 27 38.60 -0.8
 0.5s 14.00nm 5.2mb
 KKN 55.60 311 P 27 39.40 -1.4
 0.6s 22.00nm 5.4mb
 DMN 55.63 311 P 27 40.60 -0.5
 1.1s 79.00nm 5.7mb
 GBA 56.06 292 P 27 58.00 14.0X
 GKN 56.19 311 P 27 34.60 -10.4X
 HYB 56.39 297 eP 27 46.00 -0.4
 WMO 63.84 327 eP 28 36.00 -1.0
 YAK 69.52 360 eP 29 13.00 0.5
 1.0s 55.00nm 5.6mb
 MAIO 78.92 309 iPd 30 10.30 2.7
 YKA 108.51 26 ePKP 36 31.70 -0.3
 0.6s 0.30nm
 BCAA 111.56 272 iPKPc 36 40.00 0.7
 0.5s 5.00nm
 GEC2 112.79 320 PKP 36 41.10 0.4
 BSF 117.49 320 ePKP 36 49.50 -0.2
 LPG 118.30 318 ePKP 36 51.80 0.2
 0.6s 1.70nm
 LPL 118.31 318 ePKP 36 51.70 0.2
 0.5s 2.20nm
 PV10 119.10 50 ePKP 36 54.52 1.2
 LBF 119.58 320 ePKP 36 53.86 0.2
 SMF 119.79 320 ePKP 36 54.10 0.1
 0.6s 1.45nm
 SSF 119.84 321 ePKP 36 54.40 0.3
 0.6s 2.25nm
 AVF 120.05 320 ePKP 36 54.50 0.0
 0.4s 0.65nm
 BGF 120.46 320 ePKP 36 55.80 0.5
 0.5s 2.75nm
 RSSD 120.96 43 ePKPc 36 56.06 -0.6
 TCF 120.97 320 ePKP 36 56.80 0.5
 MFF 122.32 321 ePKP 36 59.20 0.4

15d 00h

	0.6s	2.55nm			
YJA	146.76	154 ePKPc	37	48.00	2.7
CNCB	150.00	144 PKP	37	57.50	6.9X
LPB	150.15	144 PKP	37	57.00	6.3X
		i	38	48.00	
ZOBO	150.32	144 PKP	37	52.50	1.3
		i	37	57.50	
CCH	150.54	148 ePKP	37	58.00	6.9X
SIV	154.14	156 PKP	38	10.00	14.0X
		i	38	24.00	

S.D. = 0.9 on 41 of 49 obs.

* FEB 15, 1993 00h 19m 01.25± 2.15s
 35.526 N ± 18.3km 21.145 E ± 8.0km
 DEPTH = 18.5 ± 8.9 km
 3.9mb (8 obs.)

CENTRAL MEDITERRANEAN SEA (400)
 ML 3.7 (THE). MD 3.5 (ATH).

VLI	1.88	50 iPbc	19	33.80	1.1
VLS	2.68	351 iPbd	19	46.20	1.9
ATH	3.20	39 ePb	19	52.60	1.0
AGG	3.62	15 ePn	19	59.58	2.0
		eSn	20	43.54	
NPS	3.66	93 ePn	20	10.00	11.8X
IGT	4.05	351 ePn	20	04.02	0.3
		eSn	20	51.58	
KEK	4.31	346 ePn	20	11.50	4.1X
LIT	4.69	13 ePn	20	13.18	0.4
		eSn	21	07.60	
KZN	4.80	6 iPnd	20	15.00	0.6
SOI	4.81	303 P	20	13.90	-0.6
		eSn	21	04.50	
PAIG	4.83	24 ePn	20	13.94	-0.8
		eSn	21	09.90	
FNA	5.25	2 ePn	20	20.70	-0.1
		eSn	21	19.26	
MEU	5.26	289 P	20	19.00	-1.1
		eSn	21	14.00	
ATN	5.26	302 P	20	19.40	-1.5
OUR	5.30	24 ePn	20	20.42	-0.9
LCI	5.42	333 P	20	22.30	-0.8
		eSn	21	19.60	
GRG	5.51	10 ePn	20	23.78	-0.6
		eSn	21	27.50	
SOH	5.57	18 ePn	20	24.30	-0.9
		eSn	21	28.38	
TDS	5.62	319 P	20	25.20	-0.7
KNT	5.79	13 ePn	20	27.90	-0.4
		eSn	21	32.00	
ORI	5.86	322 P	20	28.90	-0.4
VAY	5.89	11 iPn	20	30.00	0.3
SRS	5.90	18 ePn	20	28.42	-1.5
		eSn	21	35.02	
BRT	6.18	331 P	20	33.00	-0.7
		eSn	21	40.40	
MGR	6.38	318 P	20	36.00	-0.7
SKO	6.44	2 ePn	20	38.00	0.5
RDO	6.59	30 ePn	20	38.00	-1.5
SGO	6.81	319 P	20	40.70	-2.0
GEC2	14.40	340 Pn	22	25.30	-0.7
		Sn	25	00.10	
BSF	16.28	323 eP	22	56.30	5.8X
	0.5s	1.00nm			3.2mb
CDF	16.46	326 eP	22	57.90	5.2X
WLF	17.88	327 P	23	13.00	2.6
DOU	18.90	325 P	23	23.80	0.9
	0.7s	8.90nm			4.1mb
MFF	19.43	311 eP	23	34.50	5.1X
	0.5s	1.60nm			3.5mb
LDF	20.40	316 eP	23	42.10	2.4
	0.5s	3.05nm			3.9mb
FLN	20.69	316 eP	23	44.90	2.2
	0.6s	3.80nm			4.0mb
GRR	20.72	315 eP	23	45.00	2.1
	0.6s	4.05nm			4.0mb
EKA	25.90	327 P	24	34.00	0.4
	1.1s	8.10nm			4.3mb
QUE	38.58	85 eP	26	19.60	-5.4X
GBA	54.88	99 P	28	44.00	11.0X
YKA	76.05	340 eP	30	46.70	-2.1
	0.6s	0.40nm			3.6mb

S.D. = 1.4 on 34 of 41 obs.

FEB 15, 1993 01h 05m 15.52± 0.82s
 40.881 N ± 7.1km 143.239 E ± 12.9km
 DEPTH = 33.0km (normol)

3.4mb (1 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

HOJ	1.50	1 eP	05	40.30	-0.1
		eS	05	59.60	
OFUJ	2.17	214 eP	05	50.10	0.1
		eS	06	17.50	
AOMJ	2.20	263 eP	05	51.00	0.5
		eS	06	16.70	
MRRJ	2.24	314 eP	05	50.60	-0.4
		eS	06	16.60	
KUSJ	2.47	26 eP	05	53.30	-1.0
		eS	06	21.30	
ASAJ	3.27	352 eP	06	05.50	-0.1
YAMJ	3.67	224 eP	06	10.90	-0.4
NIJ	4.91	224 P	06	29.70	0.8
KAKJ	5.25	208 P	06	31.90	-1.8
MAT	5.85	224 (P)	06	41.00	-1.3
	0.5s	9.15nm			4.6mb X
		eS	08	14.00	
CHJJ	5.86	216 P	06	43.90	1.5
MTMJ	6.04	226 eP	06	45.20	0.3
YKA	59.78	32 eP	15	21.00	1.7
	0.6s	0.20nm			3.4mb

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

& FEB 15, 1993 02h 07m 24.23s
 63.186 N 150.398 W
 DEPTH = 116.8km
 2.6mb (1 obs.)
 CENTRAL ALASKA (1)
 <AEIC>.

TRF	0.27	11 iP	07	40.77	1.4
		eS	07	53.36	
HUR	0.40	121 iP	07	41.23	-0.3
		eS	07	53.93	
RND	0.73	72 iP	07	43.41	-0.5
		eS	07	58.05	
MCK	0.86	49 iP	07	44.55	-0.4
		eS	07	59.40	
SKT	1.32	204 iP	07	49.19	-0.6
		eS	08	08.54	
NEA	1.51	22 eP	07	50.76	-1.2
PWA	1.56	171 P	07	52.70	0.2
GHO	1.58	154 eP	07	52.77	-0.1
SML	1.68	144 iP	07	53.54	-0.5
PLRM	1.71	159 eP	07	54.09	-0.2
PMR	1.71	159 eP	07	53.57	-0.7
SUA	1.74	185 eP	07	55.17	0.3
CCB	1.86	37 iP	07	55.11	-1.1
HDA	1.96	50 P	07	55.00	-2.5
SCM	1.97	132 eP	07	57.06	-0.6
PMS	1.99	168 P	07	58.20	0.3
MDM	2.02	27 eP	07	57.16	-1.1
FBA	2.07	32 eP	07	57.14	-1.7
CRP	2.09	204 eP	07	58.76	-0.6
		eS	08	25.06	
THY	2.11	82 eP	07	59.48	0.0
CP2	2.11	205 eP	07	59.08	-0.6
CKN	2.14	204 eP	08	00.55	0.7
BGL	2.14	207 eP	08	00.29	0.3
SPU	2.16	202 eP	07	59.64	-0.4
CKT	2.17	204 eP	08	00.77	0.6
CKL	2.19	205 eP	08	00.68	0.1
GLM	2.24	35 eP	08	00.10	-1.0
PAX	2.25	93 eP	08	01.03	-0.3
SDG	2.32	104 eP	08	01.73	-0.4
PTE	2.42	164 eP	08	03.93	0.6
NKA	2.48	190 eP	08	06.94	2.7
TTA	2.57	267 eP	08	03.30	-2.2
SLKM	2.69	178 eP	08	07.14	0.1
KLU	2.69	127 eP	08	05.71	-1.4
GLI	2.79	145 eP	08	06.94	-1.4
VLZ	2.81	135 eP	08	06.32	-2.2
DFR	2.82	204 eP	08	08.21	-0.6
DOT	2.89	78 eP	08	08.53	-1.1
RDW	2.94	204 eP	08	10.68	0.1
RS2	2.95	203 eP	08	11.47	0.8
FID	3.07	141 eP	08	10.85	-1.1
KNIM	3.12	155 eP	08	10.94	-1.7
SEW	3.13	171 eP	08	12.54	-0.2
IMA	3.22	335 eP	08	12.53	-1.7
LT1	3.38	158 eP	08	14.53	-1.7
GLB	3.54	117 eP	08	17.19	-1.2
BALM	4.35	116 eP	08	27.74	-1.8
YKA	16.23	76 eP	11	06.20	-0.1

0.6s 0.20nm 2.6mb
 48 obs. associated

& FEB 15, 1993 02h 23m 23.34s
 60.319 N 151.800 W
 DEPTH = 65.0km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 2.6 (AEIC).

RDT	0.39	311 iPd	23	34.32	-0.7
REF	0.48	291 eP	23	35.40	-0.5
		eS	23	45.00	
RSO	0.49	287 eP	23	35.53	-0.6
		eS	23	45.23	
RS1	0.50	287 eP	23	35.56	-0.5
		S	23	45.83	
RS2	0.50	287 eP	23	35.58	-0.5
		S	23	45.65	
NKA	0.51	33 iPc	23	37.29	1.4
RDN	0.52	293 iPd	23	35.44	-0.8
		eS	23	45.32	
DFR	0.52	302 iPd	23	35.49	-0.7
		eS	23	45.32	
RDW	0.53	289 eP	23	35.71	-0.7
		S	23	45.89	
NCT	0.61	294 iPd	23	36.64	-0.6
		eS	23	47.29	
ILIM	0.63	248 iPd	23	36.71	-0.6
		eS	23	47.67	
INE	0.68	248 iPd	23	37.42	-0.7
		eS	23	48.44	
INW	0.71	250 ePc	23	37.90	-0.5
		eS	23	49.37	
BRK	0.72	140 eP	23	38.71	0.3
SLKM	0.81	76 iPc	23	38.84	-0.6
XLV	0.87	177 eP	23	39.74	-0.4
SPU	0.87	352 iPc	23	39.48	-0.8
		eS	23	52.37	
CKT	0.91	347 eP	23	40.08	-0.7
CKL	0.92	344 eP	23	40.31	-0.6
CKN	0.93	349 eP	23	40.55	-0.4
		S	23	54.13	
CPAM	0.95	350 eP	23	40.93	-0.4
		S	23	54.76	
CRP	0.97	350 eP	23	41.27	-0.3
		S	23	55.10	
CP2	0.97	347 eP	23	41.56	-0.2
		S	23	56.02	
BGL	0.99	343 eP	23	41.62	-0.2
		S	23	55.15	
SEW	1.19	99 eP	23	44.6	

CFTV	16.11	124	eP	00 48.00	-1.8			i	03 22.70	17km	DUG	62.27	301	(P)	07 26.67	0.6
			eTT	16 24.00		GRF	30.76	55 ePc	03 19.20	0.1		1.2s	11.86nm			4.9mb
STS	16.26	68	iPd	00 57.00	5.4X			16.00nm			MSU	62.63	299	eP	07 29.12	0.5
EMON	17.23	66	eP	01 08.00	4.2X	Z	19s	0.40um		4.1msz				epP	07 32.97	12km
ERUA	17.23	70	eP	01 07.00	3.2X			e(pP)	03 25.10	21kmX	ARUT	63.86	299	eP	07 37.61	1.0
EPLA	17.97	78	eP	01 10.50	-2.5	WATA	30.85	60 iP	03 19.80	-0.2	ZOBO	65.57	222	Pd	07 49.10	0.7
AVE	18.39	100	iP	01 19.00	0.8	WTTA	30.89	60 iPd	03 19.90	-0.5		0.9s	6.70nm			4.8mb
ANTZ	18.95	116	iPc	01 26.50	1.4		1.0s	13.90nm		4.8mb				iS	17 07.00	
			i	01 27.00				e	03 25.20	18km				LR	28 40.00	
			i	01 31.00		MOX	31.12	54 eP	03 22.50	0.3	LPB	65.76	221	eP	07 54.00	4.6X
			i	01 37.00		Z	19s	0.60um		4.3msz	CNCB	65.94	221	P	07 55.00	4.4X
PAB	19.33	79	eP	01 31.00	1.1	KBA	32.05	61 iP	03 30.50	-0.1	TNP	66.29	301	(P)	07 52.36	0.0
GUD	19.42	76	eP	01 26.50	-4.4X		1.2s	19.90nm		4.9mb		0.9s	11.83nm			5.1mb
TIO	19.53	106	iP	01 38.00	5.8X			i	03 36.00	19kmX				epP	07 56.57	14km
IFR	20.08	97	iPd	01 39.00	0.8	KHC	32.25	57 eP	03 33.20	1.0	KVN	66.38	302	(P)	07 54.25	1.3
			i	01 40.00	4km			e	04 34.50	316kmX	GLA	67.25	295	eP	07 59.37	1.0
ECRI	20.66	70	eP	01 44.00	0.0	GEC2	32.32	57 P	03 32.20	-0.7				epP	08 03.54	13km
ETOR	21.00	75	eP	01 44.00	-3.6X		1.4s	3.39nm		4.1mb	GSC	67.45	298	eP	08 00.24	0.5
DCN	21.16	38	eP	01 49.30	0.3			e	03 38.10	20kmX	BRS	168.81	351	iPKP	17 07.00	-2.6
DLF	21.50	39	eP	01 52.00	-0.4	PRU	32.93	55 eP	03 37.00	-1.0		S.D.	= 1.0	on	88 of 107 obs.	
EGRA	22.28	71	iPc	02 06.50	6.3X		N	14s	0.80um							
BTH	22.37	69	ePc	01 50.40	-10.8X		E	14s	0.10um							
			e	02 01.00	41kmX	NB2	33.67	35 P	03 45.20	0.8						
GRR	22.72	55	eP	02 06.50	2.0		0.9s	2.10nm		4.1mb						
	1.1s		16.35nm		4.4mb	OJC	36.32	55 eP	04 07.20	0.1						
EPF	22.77	69	eP	02 06.50	1.3			e	04 13.30	21kmX						
	1.5s		78.35nm		5.0mb	EEO	37.09	299 eP	04 20.50	6.9X						
MFF	22.79	60	eP	02 05.70	0.4	CVL	38.32	285 eP	04 24.24	0.2	KKM	8.06	287 ePd	27 32.50	0.0	
	0.9s		20.00nm		4.6mb			epP	04 28.23	14km		0.5s	42.00nm		5.0mb	
EBR	22.93	75	eP	02 08.00	1.3	TIC	38.52	139 P	04 26.80	0.9	MTN	17.93	157 eP	29 19.00	0.4	
FLN	23.06	54	eP	02 09.60	1.7	LIC	38.88	140 P	04 28.00	-0.1		0.3s	57.00nm		5.5mb	

PV10	31.30	330 eP	16 54.32	-0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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15d 05h

MCNL 1.58 227 ePc 29 26.31 -0.8
 eS 29 46.28
 PMS 1.58 51 P 29 26.80 -0.4
 PTE 1.63 67 ePc 29 26.52 -1.2
 SKT 1.74 9 iPd 29 28.15 -1.2
 SVW 1.93 297 P 29 30.50 -1.5
 S 29 53.10
 PLRM 1.96 46 ePc 29 30.73 -1.5
 LTI 2.13 94 eP 29 32.57 -2.0
 GHO 2.15 44 ePc 29 33.42 -1.6
 KNIM 2.17 86 ePc 29 32.28 -2.8
 SML 2.39 48 iPc 29 36.54 -1.7
 KDC 2.54 185 P 29 38.70 -1.5
 GLI 2.54 74 eP 29 37.46 -2.8
 HIN 2.78 85 eP 29 41.83 -1.7
 SCM 2.80 54 eP 29 42.01 -1.9
 FID 2.81 78 eP 29 40.39 -3.7
 VZW 2.84 71 eP 29 41.65 -2.7
 VLZ 2.96 70 eP 29 43.36 -2.6
 KLU 3.25 65 iPc 29 47.68 -2.5
 TRF 3.31 14 eP 29 51.58 0.5

47 obs. associated

? FEB 15, 1993 07h 11m 50.37± 4.58s
 15.435 N ± 8.3km 60.502 W ± 66.2km
 DEPTH = 33.0km (normol)
 LEEWARD ISLANDS (92)
 ML 2.6 (FDF).

CRM 0.79 211 iPc 12 04.79 -0.2
 S 12 14.70
 FDF 0.94 222 iPc 12 07.28 0.0
 S 12 19.00
 MVM 0.95 204 iPc 12 07.54 0.1
 S 12 19.40
 DEG 1.02 328 eP 12 08.50 0.0
 S 12 21.40
 BIM 1.07 211 iPc 12 09.16 0.1
 S 12 21.70

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

? FEB 15, 1993 07h 56m 24.61± 0.88s
 38.136 N ± 10.5km 22.765 E ± 9.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.0 (ATH).

ATH 0.77 102 ePn 56 39.80 0.2
 VLI 1.42 174 ePn 56 50.20 -0.3
 VLS 1.72 272 ePb 56 55.00 0.3
 KZN 2.30 341 ePn 57 03.00 -0.2

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

& FEB 15, 1993 07h 59m 33.17s
 34.405 N 116.464 W
 DEPTH = 5.5km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 4.2 (PAS), 4.2
 (BRK), 4.0 (GS). Felt (III) at
 Moreno Valley. Also felt at
 Highland.

PEC 0.77 229 iPd 59 47.28 -1.4
 GSC 0.94 343 ePd 59 50.52 -1.0
 SSK 1.04 260 iPc 59 52.09 -1.2
 PLM 1.10 198 iPd 59 53.26 -1.1
 ISA 2.07 308 ePn 00 06.39 -2.7

ePg 00 11.26
 eLg 00 39.34
 TPNV 2.54 4 ePnd 00 14.26 -1.6
 BCH 3.08 286 ePn 00 21.15 -2.3
 MTUM 3.40 331 ePn 00 27.85 -0.2

eLg 01 20.68
 PKEM 3.41 300 (Pn) 00 28.31 0.3
 ePg 00 34.58
 PHAM 3.53 295 ePn 00 27.35 -2.3
 ePg 00 35.62

MRCM 3.66 334 ePn 00 29.78 -2.0
 TNP 3.72 351 ePn 00 30.87 -1.8
 ePg 00 41.06
 MMPM 3.81 328 (Pn) 00 32.62 -1.5

ePg 00 42.92
 eLg 01 33.74
 MEMM 3.82 329 (Pn) 00 33.84 0.0
 BONR 3.84 338 ePn 00 33.58 -0.9
 ePg 00 45.09
 ARUT 4.17 35 ePn 00 37.28 -1.7

SAO 4.69 302 ePc 00 53.00 6.7
 CMB 4.81 320 eP 00 46.17 -1.9
 eS 02 00.21
 KVN 4.82 345 ePn 00 47.71 -0.5
 ePg 01 03.82

ARN 5.06 307 ePn 00 48.33 -3.1
 eLg 02 13.22
 COE 5.10 305 ePn 00 50.35 -1.7
 MHC 5.12 306 ePd 00 52.43 -0.1
 eS 02 15.49

TUC 5.19 112 ePn 00 48.69 -4.7
 MSU 5.36 39 ePn 00 54.35 -1.6
 HMR 5.71 313 (P) 00 59.97 -0.6
 PCC 5.71 304 ePc 00 32.04 -28.5
 eS 01 36.29

BKS 5.81 308 ePc 00 58.96 -3.1
 NTYM 6.39 310 ePn 01 06.84 -3.3
 DUG 6.47 26 (Pn) 01 08.99 -2.5
 ePg 01 33.21

ORV 6.53 323 ePn 01 11.91 -0.3
 eLg 02 55.66
 SRU 6.69 44 ePn 01 13.50 -1.2
 PV10 7.18 54 ePn 01 18.98 -2.6
 eLg 03 20.08

PV09 7.18 53 ePn 01 20.03 -1.6
 DAU 7.29 33 (Pn) 01 20.33 -2.8
 PV08 7.55 54 ePn 01 24.22 -2.6
 eLg 03 29.52

HVU 7.92 20 ePn 01 31.06 -0.7
 ALO 8.26 83 ePn 01 34.13 -2.5
 0.8s 1.58nm 4.3mb X
 ePg 02 05.43

LCCM 11.94 16 eP 02 30.20 3.1
 38 obs. associated
 ? FEB 15, 1993 08h 44m 24.02± 1.41s
 64.406 N ± 18.3km 20.872 E ± 36.0km
 DEPTH = 10.0km (geophysicist)
 3.8mb (1 obs.)

SWEDEN (536)
 MD 3.9 (BER). Felt.
 UME 0.66 205 iPg 44 37.10 0.0
 iSg 44 44.60

MYV 3.26 246 iPn 45 20.00 3.9X
 iSg 46 06.00
 KIR 3.45 357 iP 45 32.90 14.0X
 iSn 46 02.20

iSg 46 13.00
 KTK1 4.72 10 eP 45 37.73 0.8
 UPP 4.81 200 iPn 45 20.00 -18.2X
 iSg 46 06.00

HFS 5.44 221 eP 45 47.40 0.3
 0.2s 0.40nm 3.8mb
 ARA0 5.46 17 Pn 45 46.58 -0.8
 Sn 46 49.19

Lg 47 17.66
 NRA0 5.67 234 Pn 45 49.87 -0.4
 Sn 46 52.23
 Lg 47 21.49

S.D. = 0.9 on 5 of 8 obs.
 FEB 15, 1993 08h 45m 50.51± 0.39s
 30.851 N ± 7.6km 90.388 E ± 4.9km
 DEPTH = 33.0km (normol)
 4.6mb (17 obs.)

XIZANG (306)
 CD2 11.49 86 eP 48 33.00 -2.3
 N 10s 2.17um

GTA 11.50 40 P 48 36.00 0.4
 1.0s 17.00nm 5.2mb
 Z 12s 1.50um 3.9MszX

NDI 11.65 263 eP 48 36.00 -1.4
 eS 50 39.00
 LZH 12.39 61 eP 48 46.00 -1.5
 1.2s 18.00nm 5.1mb

WMO 13.12 351 P 48 59.00 1.8
 1.5s 16.00nm 4.8mb
 Z 13s 0.79um
 KSH 14.57 310 eP 49 09.00
 Z 12s 1.50um 49 18.00
 N 10s 1.15um 49 21.00
 E 10s 1.59um
 pP 49 18.00
 sP 49 21.00

ePP 49 29.00
 eS 52 04.00
 GYA 14.94 103 iPc 49 21.00 -0.1
 1.0s 19.00nm 4.4mb
 N 10s 0.71um

E 10s 0.34um
 HYB 17.17 222 eP 49 49.00 -0.6
 e 49 56.00
 BTO 18.64 53 eP 50 04.00 -3.6X
 N 12s 0.56um

E 13s 0.58um
 eS 53 26.00
 TIY 19.44 63 eP 50 15.00 -1.4
 HHC 19.81 54 P 50 21.00 -0.2
 1.0s 11.00nm 4.1mb

Z 12s 1.20um 4.3Msz
 N 10s 0.32um
 WHN 20.60 85 eP 50 30.00 0.6
 GBA 20.90 218 P 50 34.00 1.4

1.0s 8.00nm 4.1mb
 BJI 22.86 59 eP 50 54.00 2.1
 1.0s 11.00nm 4.3mb
 Z 10s 0.99um 4.6MszX

N 10s 0.51um
 eS 55 02.00
 IRK 23.72 22 eP 51 03.00 3.6X
 2.0s 39.00nm 4.6mb

Z 10s 0.50um 4.3MszX
 LR 00 20.00
 MAIO 26.24 290 eP 51 30.00 5.6X
 HFS 57.26 325 eP 55 36.90 0.0

0.6s 4.80nm 4.7mb
 Z 20s 126.00um 7.0Msz
 LR 15 44.00

NB2 58.37 326 P 55 44.00 0.1
 0.9s 11.10nm 4.9mb
 KHC 59.09 312 eP 55 48.50 -1.3
 CDF 63.31 312 eP 56 18.40 0.0

BSF 63.79 312 eP 56 21.50 -0.1
 LPG 64.55 309 eP 56 27.20 0.4
 LPL 64.55 309 eP 56 27.10 0.3

0.9s 9.00nm 4.9mb
 WRA 65.83 134 P 56 36.80 1.8
 0.8s 0.50nm 3.7mb

LOR 65.85 312 eP 56 34.40 -0.4
 LBF 65.87 312 eP 56 34.80 -0.2
 SMF 66.08 311 eP 56 36.20 -0.1

0.8s 7.10nm 4.8mb
 SSF 66.15 312 eP 56 36.70 0.0
 1.1s 14.40nm 5.0mb

AVF 66.34 311 eP 56 37.90 0.0
 MAF 67.05 311 eP 56 43.10 0.6
 TCF 67.26 311 eP 56 44.30 0.5

0.7s 5.30nm 4.7mb
 CAF 67.85 310 eP 56 48.20 0.6
 0.8s 4.45nm 4.6mb

RJF 68.07 310 eP 56 49.70 0.8
 LPO 68.52 310 eP 56 52.30 0.5
 MTD 73.72 239 eP 57 22.90 -0.5

BUL 78.02 238 eP 57 41.90 -5.9X
 YKA 84.84 11 eP 58 23.10 0.5
 0.9s 0.90nm 4.0mb

S.D. = 1.1 on 33 of 37 obs.
 FEB 15, 1993 08h 55m 26.30± 0.76s
 12.505 S ± 3.9km 166.387 E ± 4.1km
 DEPTH = 128.8 ± 7.0 km
 5.5mb (59 obs.)
 SANTA CRUZ ISLANDS (184)
 Mw 5.9 (HRV). Mo=7.9±10±17 Nm
 (PPT).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 45S, *C
 Centroid Location:
 Origin Time 08:55:26.4 0.2
 Lat 11.98S 0.02 Lon 166.33E 0.01
 Dep 46.3 1.0 Holf-duration 2.3
 Moment Tensor; Scale 10±17 Nm
 Mrr= 6.21 0.08 Mtt= 0.81 0.13
 Mff=-7.03 0.14 Mrt= 0.76 0.13
 Mrf= 1.67 0.15 Mtt= 0.50 0.09
 Principal Axes:
 T Vol= 6.54 Plg=79 Azm=318
 N 0.71 8 178
 P -7.25 7 87
 Best Double Couple: Mo=6.9±10±17

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

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

References

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- 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.

NP1:Strike=168 Dip=39 Slip= 76			PJJ 33.57 320 eP 01 54.00 -2.2			S 14 43.00		
NP2: 5 52 101			ADE 33.59 224 eP 01 57.50 1.2			sS 15 05.00		
			TAU 34.50 205 eP 02 04.00 0.1			MDJ 65.92 332 eP 06 00.30 -0.2		
BKM	5.44	161 iP 56 48.90 2.5	WARB	39.72 244 eP 02 48.00 0.1				Z 34s 3.03um 5.3MszX
			0.4s 19.00nm 5.2mb					
PVC	5.53	161 iP 56 49.50 1.9	FORT	39.74 237 eP 02 49.00 1.0	DL2 66.02 323 eP 06 00.00 -1.1			
			1.7s 558.80nm 6.0mb			Z 20s 0.99um 5.0Msz		
DZM	9.51	180 iPc 57 36.90 -4.7X	PAE	42.75 103 eP 03 12.00 -0.8				
			1.4s 718.00nm 6.2mb					
MBU	12.73	112 eP 58 21.50 -2.5	PPN	42.89 102 eP 03 14.00 0.1	SNY 66.89 326 iPc 06 06.00 -0.6			
SVA	12.91	117 eP 58 25.00 -1.2	PMO	44.42 99 eP 03 26.40 0.2	Z 22s 1.88um 5.3Msz			
RAB	16.31	299 eP 59 08.00 -1.3	VAH	44.66 99 eP 03 28.00 -0.2	TIA 67.12 318 Pc 06 07.40 -0.8			
PMG	19.13	277 eP 59 42.00 0.0	TPT	44.69 99 eP 03 28.40 0.0	Z 27s 4.32um 5.5MszX			
BRS	19.54	219 iPc- 59 46.50 0.1	RUV	44.90 99 eP 03 30.00 -0.1	E 19s 2.56um 06 26.00			
Z 18s 55.00um 3.8Msz			1.5s 351.00nm 5.9mb			S 14 58.50		
			1.4s 470.50nm 6.0mb			eS 06 09.60 0.9		
			COOL 45.49 239 eP 03 35.00 0.4			IPM 67.12 280 ePc 06 08.80 -0.5		
			MEEK 46.89 245 iPc 03 46.50 0.8			CN2 67.31 329 Pc 06 08.80 -0.5		
			0.6s 172.00nm 5.9mb			Z 28s 2.14um 5.2MszX		
CTA	20.73	246 iPc+ 00 01.50 3.0X	KLB	48.47 239 eP 03 57.70 -0.2	E 26s 1.88um 06 20.00 37kmX			
1.9s 210.53nm 5.2mb			HON	48.51 46 P+ 04 10.70 12.5X	GYA 69.75 304 iPc 06 25.40 0.5			
			Z 21s 2.09um 5.1Msz			Z 38s 2.05um 5.1MszX		
			OPA 48.74 46 eP 03 59.84 -0.2			S 15 34.00		
			e 04 16.82			ScS 16 20.00		
RMQ	21.63	227 iPc 00 08.90 1.5	BAL	49.17 240 eP 04 03.00 -0.3	BJI 70.00 321 eP 06 25.50 -0.4			
0.7s 134.00nm 5.4mb			HKL	49.38 48 eP 04 04.21 -1.2	Z 28s 4.13um 5.5MszX			
			MRWA	49.55 242 eP 04 06.50 0.3	N 20s 1.99um 06 45.00			
			0.4s 18.00nm 5.3mb			esP 15 35.00		
ARMA	22.46	215 iPd 00 17.00 1.4	RKG	49.74 235 eP 04 09.00 1.4	TIY 71.05 317 iPc 06 33.00 0.5			
1.3s 403.00nm 5.6mb			MUN	49.84 239 iPd 04 09.10 0.7	Z 23s 3.69um 5.6MszX			
RIV	25.36	211 iPd+ 00 44.40 1.3	KHKI	50.05 270 ePc 04 08.00 -2.2	N 22s 2.07um 06 47.00 49kmX			
1.0s *****nm 7.5mb X			e 06 49.10			S 15 40.00		
Z 20s 0.50um 4.0MszX			OCP 52.35 300 eP 04 26.00 -1.5			XAN 71.56 312 iPc 06 35.50 0.0		
CMS	26.75	222 iPc 00 56.10 0.3	KKM	53.16 287 ePc 04 34.00 0.4	Z 26s 2.38um 5.3MszX			
0.8s 49.00nm 5.1mb			0.8s 148.00nm 6.0mb			PcP 06 56.20		
BWA	27.26	214 eP 00 59.80 -0.6	BAG	53.63 301 ePc 04 36.40 -0.7	PP 09 10.00			
URZ	27.37	161 P 01 02.10 0.8	CHJJ	54.78 333 eP 04 44.70 -0.3	S 15 50.50			
CNB	27.44	211 iPd 01 02.40 0.3	WKYJ	54.92 329 eP 04 42.40 -3.7X	SKS 16 29.00			
1.2s 181.00nm 5.6mb			KAGJ	55.21 323 P 04 47.60 -0.6	SS 20 26.00			
PUZ	27.58	159 P 01 03.70 0.4	TKSJ	55.53 327 P 04 49.20 -1.2	KHT 72.39 290 eP 06 42.70 2.0			
CAN	27.63	212 eP 01 04.70 0.9	MAT	55.55 333 eP 04 48.00 -2.5	KMI 72.41 302 Pc 06 42.00 1.0			
NGZ	27.79	165 P 01 06.10 0.8	1.5s 52.78nm 5.3mb			Z 22s 2.20um 5.4Msz		
CNZ	27.80	165 P 01 07.00 1.6	Z 21s 2.15um 5.2Msz			N 20s 1.40um 06 57.50 56kmX		
PAHZ	27.91	162 P 01 05.60 -0.6	MTMJ	55.77 332 P 04 49.70 -2.5	E 20s 1.60um 06 46.00 0.1			
NOZ	27.99	160 P 01 06.00 -1.0	TSRJ	55.77 330 P 04 50.90 -1.2	HHC 73.34 320 eP 06 46.00 0.1			
WAHZ	28.48	164 P 01 08.80 -2.6	KUMJ	56.22 324 eP 04 54.00 -1.4	Z 28s 5.19um 5.7MszX</			

15d 09h

	0.9s	59.55nm	5.4mb	BW06	94.08	47 eP	08 31.93	0.3	VBY	138.97	329 ePKP	14 39.50	0.1	
Z	20s	0.72um	5.0Msz		0.5s	0.96nm		4.4mb X			e	14 43.70		
YAK	79.64	343 eP	36 10.40	ALQ	94.75	55 P	08 34.78	-0.1	CDF	140.20	338 ePKP	14 35.90	-5.8X	
	1.1s	50.00nm	5.2mb		Z 19s	0.38um		4.9Msz	VAI	141.71	335 PKP	14 39.00	-5.3X	
Z	24s	2.30um	5.4MszX	SES	94.85	40 eP	08 35.00	0.3	FLN	142.24	346 ePKP	14 40.40	-4.8X	
N	24s	1.10um		NVL	95.12	188 eP	08 31.00	-4.7X		Z 22s	1.05um		5.6Msz	
E	22s	0.90um			1.2s	32.00nm		5.6mb	BOB	142.29	333 PKP	14 41.00	-4.5X	
		e	09 23.00		Z 21s	1.50um		5.4Msz	LDF	142.31	345 ePKP	14 40.60	-4.7X	
RSO	79.68	19 (P)	07 21.17	0.1	N	20s	0.80um		LOR	142.37	340 ePKP	14 42.00	-3.5X	
GTA	80.52	314 P	07 28.00	2.2	E	22s	0.70um			1.0s	7.80nm			
	1.0s	76.00nm	5.4mb	NDI	95.18	298 eP	08 36.00	-0.7	Z	21s	1.23um		5.6Msz	
Z	20s	3.17um	5.7Msz	YKA	95.97	27 eP	08 36.20	-3.3X	LBF	142.58	340 ePKP	14 42.90	-3.0X	
E	20s	1.85um			0.5s	1.40nm		4.7mb	SSF	142.66	341 ePKP	14 42.80	-3.2X	
		pP	07 40.00	40kmX	GOL	96.53	51 P	08 50.00	7.1X		0.5s	3.85nm		
		S	17 30.00			Z 20s	3.00um	5.8Msz	GRR	142.68	346 ePKP	14 42.40	-3.5X	
		SS	17 50.00		GLD	96.66	51 P	08 50.00	6.6X		0.6s	6.20nm		
SLKM	80.55	20 eP	07 24.54	-0.9		Z 20s	3.54um	5.8Msz	LPL	142.82	336 ePKP	14 44.30	-2.3	
PMR	81.71	20 P	07 34.21	2.9	CRZF	97.18	219 eP	08 54.00	8.5X		0.6s	6.60nm		
	Z 21s	5.87um	5.9Msz				ePP	12 39.00	LPG	142.83	336 ePKP	14 44.60	-2.1	
		S	17 36.47				eSP	21 30.00		0.6s	6.50nm			
KLU	82.73	21 eP	07 36.03	-0.8			eSS	26 48.00	SMF	142.92	340 ePKP	14 44.10	-2.3	
IRK	83.61	327 ePc	07 40.00	-1.3	RSSD	98.28	47 P	08 56.57	5.9X		0.7s	5.75nm		
	6.0s	0.55nm	2.6mb X		Z	22s	1.03um	5.3Msz	AVF	142.95	341 ePKP	14 43.60	-2.8	
Z	21s	0.99um	5.2Msz			PP	12 52.85			0.4s	1.60nm			
		e	08 10.00		WMOK	100.94	57 Pdiff	09 10.00	7.3X	LPF	143.06	346 ePKP	14 43.40	-3.2X
		e	08 35.20			Z 20s	3.45um	5.9Msz			0.6s	6.50nm		
		LR	35 38.00		MIAR	105.18	57 PKP	13 50.00	14.5X	BNI	143.23	336 PKP	14 44.30	-2.9
MAW	83.61	202 P	07 42.00	0.9		Z 21s	1.61um	5.5Msz	SOI	143.31	319 PKP	14 44.80	-2.5	
	1.0s	41.67nm	5.3mb		FVM	107.93	54 PKP	13 50.00	9.4X	BGF	143.32	341 ePKP	14 45.00	-2.1
LSA	83.66	302 Pc	07 44.90	2.2		Z 18s	2.87um	5.9Msz	SURF	143.64	335 PKP	14 45.61	-2.4	
	0.8s	20.00nm	5.0mb		SLM	108.10	53 PKP	13 50.00	9.2X	MAF	143.71	341 ePKP	14 45.70	-2.1
LGPM	84.07	46 eP	07 45.11	1.0		Z 19s	1.21um	5.5Msz		0.5s	3.20nm			
WDC	84.15	46 P	08 00.00	15.7X	MAIO	110.86	304 ePKP	13 48.00	1.7	TCF	143.76	341 ePKP	14 45.80	-2.1
Z	22s	1.64um	5.4Msz		EEO	115.81	44 ePKP	13 56.50	1.2		0.6s	6.75nm		
SIT	84.24	28 P	07 50.00	5.7X	CEH	117.04	56 PKP	14 10.00	12.0X	LSF	144.01	342 ePKP	14 46.50	-1.8
	Z 20s	1.28um	5.3Msz			Z 20s	1.13um	5.5Msz			0.5s	9.35nm		
FBA	84.51	18 eP	07 43.85	-1.7	ZOBO	118.98	117 ePKP	14 02.00	-1.0	MFF	144.16	344 ePKP	14 47.00	-1.5
	0.7s	6.35nm	4.6mb			Z 24s	1.03um	5.4MszX			0.6s	16.95nm		
ORV	84.52	48 eP	07 47.05	0.8			PS	25 17.00		PGF	144.21	331 ePKP	14 47.30	-1.6
PAF	84.60	221 eP	07 54.00	7.6X			LR	52 00.00			0.8s	29.15nm		
		SP	19 15.00		RSNY	119.33	46 ePKP	14 02.90	0.8	MNO	144.25	320 PKP	14 48.50	-0.7
		SS	23 45.00			Z 19s	1.16um	5.5Msz	FRF	144.46	334 ePKP	14 48.00	-1.1	
		SSS	27 57.00				SP	25 22.64			0.7s	35.85nm		
LBFM	84.89	46 (P)	07 50.47	2.2			e	32 12.36		LRG	144.67	335 ePKP	14 49.00	-0.4
ISA	85.46	52 P	07 52.09	1.0	HRV	121.88	48 PKP	14 20.00	13.1X		0.7s	38.05nm		
Z	21s	3.25um	5.7Msz			Z 21s	1.72um	5.7Msz		Z	23s	1.70um	5.8MszX	
MEMM	85.76	50 eP	07 53.86	1.5	OBN	122.36	328 ePKP	14 07.00	-0.4	LMR	144.71	334 ePKP	14 48.90	-0.6
PLM	86.01	55 eP	07 55.48	1.5		Z 20s	1.70um	5.7Msz			0.6s	41.10nm		
BONR	86.33	50 eP	07 56.45	0.8		N 20s	0.70um			RJF	144.86	341 ePKP	14 49.50	-0.3
SHW	86.45	41 eP	07 56.39	0.6		E 20s	1.00um				0.6s	11.25nm		
GSC	86.64	53 (P)	07 58.69	1.8			e	14 21.00		Z	22s	1.05um	5.6Msz	
KVN	86.83	49 eP	07 58.71	0.8			ePP	16 00.00		CAF	145.02	340 ePKP	14 50.40	0.3
TNP	87.18	50 eP	08 00.97	1.4			eSKSP	25 36.00			0.8s	15.60nm		
	0.5s	1.64nm	4.3mb X				ePPS	27 12.00		LFF	145.43	342 ePKP	14 51.40	0.7
RMW	87.20	40 eP	08 00.79	1.5			LR	54 00.00			0.7s	24.15nm		
GLA	87.55	56 eP	08 02.03	0.8	CBM	123.04	42 ePKP	14 07.20	-1.8	LPO	145.52	341 ePKP	14 51.80	0.9
TPNV	87.57	51 eP	08 02.81	1.4		Z 20s	1.88um	5.7Msz			0.5s	9.10nm		
	0.6s	3.72nm	4.6mb		LMN	125.57	42 ePKP	14 16.00	2.0	ETER	147.04	337 ePKP	15 12.00	18.6X
Z	22s	2.98um	5.7Msz		NB2	128.27	345 PKP	14 18.50	-0.3	BCAO	147.24	259 iPKPc	14 57.10	2.5
GUN	87.57	299 P	08 03.00	1.1		0.9s	3.50nm				1.0s	295.00nm		
PKI	87.89	299 P	08 04.20	0.9	HMDT	130.97	302 ePKP	14 26.30	1.6			ic	15 15.10	
KKN	88.05	299 P	08 05.00	1.0	MZDA	131.35	301 ePKP	14 26.70	1.3			id	16 05.80	
DMN	88.15	299 P	08 05.80	1.3	RMN	132.07	300 ePKP	14 28.20	1.2			ic	17 10.30	
GKN	88.66	299 P	08 07.60	0.8	SPC	133.96	329 ePKP	14 30.70	0.5	EPF	147.27	341 ePKP	14 57.20	3.3X
ARUT	89.95	51 eP	08 14.48	1.8	KSP	134.67	334 ePKP	14 32.50	1.3		0.7s	7.40nm		
WMO	90.56	315 Pc	08 16.00	0.8			e	18 06.30		EGRA	148.24	341 ePKP	15 09.50	14.2X
	1.2s	41.00nm	5.4mb		BAO	135.97	128 ePKP	14 33.50	-1.3	EMON	148.71	351 ePKP	15 02.10	6.0X
	Z 22s	1.65um	5.4Msz				e	14 34.90		ESEL	149.18	335 ePKP	15 02.50	5.6X
	N 11s	0.07um					e	14 37.20		STS	149.41	353 ePKP	15 02.00	4.8X
TUC	90.64	57 eP	08 17.20	1.4	PRU	136.06	334 ePKP	14 35.00	1.1	ETOR	150.02	342 iPKPc	15 04.00	5.7X
	0.7s	4.37nm	4.7mb			Z 24s	1.00um	5.5MszX		GUO	150.76	345 iPKPd	15 06.00	6.6X
	Z 19s	2.72um	5.7Msz		ZST	136.19	330 ePKP	14 37.80	3.6X	ECHE	150.80	340 ePKP	15 06.50	7.1X
DUG	91.07	49 eP	08 19.31	1.6			e	14 51.20		EPLA	151.76	348 ePKP	15 08.00	7.2X
	0.6s	2.13nm	4.5mb				e(PP)	17 22.20		PAB	151.85	345 ePKP	15 07.00	6.0X
MSU	91.11	51 eP	08 19.36	1.3			e(PKS)	18 09.00		EVIA	152.16	341 ePKP	15 05.00	3.5X
HVU	91.52	48 (P)	08 21.47	1.7	KHC	137.12	334 ePKP	14 35.90	-0.1	ENIJ	153.57	339 ePKP	15 23.00	19.6X
HYB	91.65	287 ePc	08 21.20	0.6		Z 24s	1.30um	5.6MszX		EHOR	153.70	345 ePKP	15 12.00	8.5X
	1.0s	60.00nm	5.7mb			N 24s	1.00um			EPRU	154.51	344 ePKP	15 08.00	3.3X
		e	08 36.00			E 22s	1.10um				S.D. = 1.3	on 191 of 238 obs.		
GBA	91.88	283 Pc	08 23.00	1.3			e	14 51.00						
EMUT	92.46	50 eP	08 25.85	1.6			e	17 34.00		? FEB 15, 1993	09h 10m	54.43±1.00s		
LCCM	93.19	44 eP	08 28.10	0.7			SKP	18 12.50			39.074 N ±10.6km	27.653 E ±18.1km		
PV09	93.42	51 eP	08 29.72	0.9	GRF	137.66	336 ePKP	14 22.80	-14.2X		DEPTH = 10.0km	(geophysicist)		
PV10	93.46	52 eP	08 29.93	1.0		Z 20s	1.00um	5.5Msz		TURKEY			(366)	
AIA	93.76	161 iPc	08 43.30	13.8X			ePP	17 17.80			MD 2.7 (ISK).			
PV08	93.81	51 eP	08 31.39	0.8	SKO	137.69	320 ePKP	14 39.00	1.8					

IZM 0.74 204 ePg 11 09.00 0.0
 iSg 11 21.50
 DST 0.92 55 ePn 11 12.00 -0.1
 EDC 1.28 7 ePn 11 18.00 -0.2
 KCT 1.29 25 iPn 11 18.70 0.3
 S.D. = 0.4 on 4 of 4 obs.

% FEB 15, 1993 09h 51m 19.89±0.86s
 39.023 N ± 7.4km 27.621 E ± 9.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.68 204 iPg 51 33.50 0.0
 eSg 51 42.00
 DST 0.97 53 ePn 51 38.00 -0.4
 eSg 51 52.00
 EZN 1.28 309 ePn 51 43.50 -0.2
 EDC 1.34 8 ePn 51 44.00 -0.5
 KCT 1.35 25 iPn 51 45.50 0.8
 BNT 1.35 10 ePn 51 45.00 0.3
 S.D. = 0.6 on 6 of 6 obs.

? FEB 15, 1993 10h 07m 16.07±2.10s
 6.233 S ± 25.0km 147.083 E ± 12.5km
 DEPTH = 33.0km (normol)
 4.0mb (2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
 ML 4.2 (PMG).

FINC 0.86 116 eP 07 31.40 -0.3
 YYYY 1.11 270 eP 07 35.60 0.1
 PMG 3.15 179 eP 08 05.00 0.4
 eS 08 44.00
 WB2 18.41 221 eP 11 28.70 -1.8
 0.4s 2.70nm 3.8mb
 RMO 20.21 176 eP 11 54.90 3.8X
 ASPA 21.48 215 eP 12 05.60 1.5
 0.5s 6.30nm 4.3mb
 S.D. = 1.7 on 5 of 6 obs.

FEB 15, 1993 10h 46m 57.00±0.84s
 51.128 N ± 7.6km 5.803 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 THE NETHERLANDS (540)
 mblg 3.4 (UCC). ML 3.4 (LDG).
 2.9 (BNS). Felt along the
 Germany-Netherlands border.

ENN 0.37 168 iPd 47 06.00 1.4
 0.4s 52.10nm
 iS 47 11.30
 MEM 0.54 166 iPd 47 08.84 1.0
 iS 47 16.17
 KLL 0.58 146 iPg 47 09.16 0.4
 iSg 47 17.45
 STB 0.85 129 iPg 47 13.83 0.5
 0.2s 285.00nm
 eSg 47 23.81
 BNS 0.88 100 iPg 47 13.76 -0.2
 0.5s 930.00nm
 iSg 47 23.98
 UCC 0.97 251 iPc 47 18.26 2.8
 iS 47 33.22
 WTS 1.07 36 iPc 47 17.10 0.0
 0.4s 70.40nm
 eS 47 30.50
 SNF 1.14 238 iPc 47 20.63 2.2
 iS 47 37.81
 DOU 1.29 217 iPc 47 22.30 1.4
 iS 47 27.10
 iS 47 39.10
 WLF 1.48 171 iP 47 26.00 2.3
 iS 47 46.00
 RUP 1.64 150 ePn 47 26.45 0.4
 ABH 1.67 138 ePn 47 25.93 -0.6
 TNS 1.91 117 ePnd 47 36.70 6.7X
 ePbc 47 39.30
 eSn 47 55.10
 CDF 2.88 160 Pn 47 43.00 -0.9
 Sg 48 26.60
 HAU 3.15 173 Pn 47 48.60 1.1
 Pg 47 56.70
 Sg 48 35.70
 BSF 3.36 169 Pn 47 50.50 -0.2
 Pg 48 00.10
 Sg 48 43.10

LOR 4.07 199 Pn 47 59.90 -0.7
 Pg 48 14.90
 Sg 49 06.40
 LBF 4.32 197 Pn 48 03.60 -0.6
 Pg 48 18.20
 Sn 48 50.20
 Sg 49 15.20

SSF 4.34 201 Pn 48 03.50 -1.0
 Sn 48 51.50
 Sg 49 15.10
 LDF 4.60 239 Pn 48 08.00 -0.1
 Sn 48 58.20

AVF 4.63 201 Pn 48 07.20 -1.4
 Sg 49 25.50
 SMF 4.67 197 Pn 48 08.10 -1.1
 Sg 49 24.10
 FLN 4.70 242 Pn 48 09.50 -0.1
 Sn 49 02.10

BGF 4.97 204 Pn 48 12.10 -1.3
 Sg 49 34.70
 GRR 5.11 240 Pn 48 14.90 -0.5
 Sn 49 11.50
 MAF 5.36 205 Pn 48 16.80 -2.1
 Sg 49 45.70

TCF 5.40 208 Pn 48 17.40 -2.1
 Sg 49 48.80
 LPF 5.42 238 Pn 48 19.00 -0.8
 S.D. = 1.3 on 27 of 28 obs.

% FEB 15, 1993 11h 14m 02.49±2.89s
 40.121 N ± 20.8km 29.835 E ± 21.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

DST 1.06 241 ePg 14 22.50 0.0
 ALT 1.09 169 ePg 14 23.00 0.0
 KCT 1.14 277 iPg 14 24.00 0.2
 eSg 14 37.50
 BNT 1.48 280 ePn 14 29.90 0.7
 EDC 1.53 279 ePn 14 29.00 -0.8
 S.D. = 0.8 on 5 of 5 obs.

FEB 15, 1993 12h 02m 13.45±0.22s
 20.040 S ± 6.0km 169.187 E ± 6.0km
 DEPTH = 45.5km (17 depth phases)
 5.1mb (38 obs.) 4.4Msz (4 obs.)
 VANUATU ISLANDS (186)

Mw 5.1 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Dato Used: GDSN
 L.P.B.: 175, 20C
 Centroid Location:
 Origin Time 12:02:17.6 1.5
 Lot 20.21S 0.14 Lon 169.31E 0.11
 Dep 40.5 8.7 Half-duration 1.0
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr=3.99 0.57 Mtt=0.25 1.15
 Mff=-4.25 0.88 Mrt=-0.24 1.60
 Mrf=-2.22 1.42 Mtf=1.28 0.56

Principal Axes:
 T Val=4.62 Plg=73 Azm=116
 N 0.45 10 350
 P -5.07 13 257
 Best Double Couple: Mo=4.8*10¹⁶
 NP1: Strike=334 Dip=33 Slip=71
 NP2: 176 59 102

PVC 2.43 340 iPc 02 54.60 3.0
 iS 03 22.90
 BKM 2.52 339 iP 02 58.00 5.1X
 iS 03 26.00
 DZM 3.26 231 iPc 03 01.90 -1.6
 iS 03 36.90

SVA 8.97 79 iP 04 26.00 2.6
 BRS 16.71 241 iPd 06 06.00 0.0
 ARMA 18.93 233 eP 06 35.30 1.8
 0.6s 53.00nm 4.9mb
 HBZ 19.21 158 eP 06 38.60 2.0
 PUZ 19.62 158 P 06 39.60 -1.5
 RMO 19.83 247 iPc 06 44.80 1.5
 0.7s 71.00nm 5.1mb

NOZ 20.04 159 P 06 44.40 -1.0
 0.5s 110.00nm 5.4mb
 RIV 21.10 226 eP 07 11.10 14.8X
 MNG 21.21 167 eP 06 56.30 -1.1
 0.5s 33.00nm 5.0mb

CHTO 78.94 295 ePc 14 14.80 0.5
 1.2s 26.39nm 5.1mb
 CD2 80.68 308 P 14 23.50 0.0
 HHC 80.79 320 Pc 14 24.40 0.5
 1.2s 45.00nm 5.3mb

BTO 81.60 319 eP 14 28.10 0.0
 LZH 83.23 312 Pc 14 37.50 0.8
 1.4s 52.00nm 5.4mb
 KDC 83.80 20 (P) 14 37.18 -1.7
 0.5s 7.74nm 5.0mb

SVW 85.68 16 (P) 14 45.09 -3.3X
 1.0s 17.57nm 5.2mb
 RSO 85.93 18 eP 14 47.36 -2.5
 e 14 54.16 21kmX
 KMPM 86.33 45 eP 14 50.18 -1.9
 ARN 86.60 48 eP 14 52.72 -0.7

SLKM 86.72 19 eP 14 50.80 -2.7

CTA 21.54 266 iPc 07 07.40 45km
 iPc 07 02.00 1.1
 eP 07 12.50 41km
 eS 11 02.00
 KHZ 22.61 172 eP 07 11.20 -0.1
 e 07 21.90 41km
 LTZ 22.82 174 P 07 14.10 0.6
 0.5s 29.00nm 5.0mb

e 07 26.40 50km
 CNB 23.17 225 eP 07 19.00 2.1
 BWA 23.31 228 eP 07 17.80 -0.5
 i 07 28.50 41km
 i 07 30.30
 i 07 38.90

CAN 23.41 225 eP 07 20.60 1.3
 i 07 31.90 44km
 i 07 34.40
 PMG 23.75 293 eP 07 33.00 10.3X
 CMS 23.87 237 eP 07 24.30 0.5
 0.9s 18.00nm 4.6mb
 TOO 27.01 225 eP 07 53.20 0.0
 1.0s 29.00nm 4.9mb

STK 27.39 239 iPc 07 56.60 -0.1
 0.6s 6.30nm 4.4mb
 BFD 28.81 228 eP 08 08.90 -0.6
 0.9s 11.00nm 4.5mb
 e 08 23.40 59kmX
 WB2 32.70 264 iPd 08 41.80 -2.1
 0.4s 22.70nm 5.4mb

i 08 54.30 48km
 WRA 32.71 264 P 08 42.30 -1.7
 0.4s 2.70nm 4.4mb
 ASPA 32.90 257 iPc 08 44.20 -1.5
 0.6s 152.40nm 6.0mb

e 08 57.40 51km
 MTN 37.13 275 eP 09 20.30 -1.5
 WARB 39.47 253 iPd 09 40.80 -0.6
 MEEK 46.66 252 iPc 10 38.30 -1.3
 0.4s 22.00nm 5.5mb
 HON 52.15 40 P 11 30.00 8.3X
 Z 20s 0.36um 4.4Msz

MAT 63.43 332 eP 12 38.00 -2.8X
 0.9s 10.08nm 4.9mb
 KUSJ 66.74 341 eP 13 01.10 -0.9
 KGM 68.15 281 eP 13 11.50 0.0
 ASAJ 68.32 340 eP 13 12.10 0.2
 SPA 70.08 180 iPc 13 21.00 -1.8
 0.9s 59.55nm 5.6mb

NJ2 70.75 316 Pc 13 26.00 -1.0
 pP 13 39.50 47km
 IPM 71.24 282 ePc 13 29.40 -1.0
 0.8s 26.10nm 5.2mb
 MDJ 73.80 332 eP 13 43.70 -1.1
 1.3s 22.00nm 4.9mb

TIA 74.51 319 Pc 13 48.20 -1.0
 CN2 75.11 329 P 13 51.60 -0.9
 1.0s 21.00nm 5.0mb
 eP 14 05.00 46km
 LOE 75.94 295 eP 13 57.40 -0.3
 GYA 76.24 305 P 13 59.00 -0.4
 1.0s 12.00nm 4.8mb

BJI 77.53 321 eP 14 06.00 -0.1
 1.2s 33.00nm 5.2mb
 KHT 77.54 291 eP 14 06.80 0.2
 TIY 78.39 317 Pc 14 11.60 0.6
 pP 14 25.00 46km
 KMI 78.65 302 Pc 14 13.50 0.6
 1.5s 90.00nm 5.5mb

pP 14 25.50 40km
 CHTO 78.94 295 ePc 14 14.80 0.5
 1.2s 26.39nm 5.1mb
 CD2 80.68 308 P 14 23.50 0.0
 HHC 80.79 320 Pc 14 24.40 0.5
 1.2s 45.00nm 5.3mb

BTO 81.60 319 eP 14 28.10 0.0
 LZH 83.23 312 Pc 14 37.50 0.8
 1.4s 52.00nm 5.4mb
 KDC 83.80 20 (P) 14 37.18 -1.7
 0.5s 7.74nm 5.0mb

SVW 85.68 16 (P) 14 45.09 -3.3X
 1.0s 17.57nm 5.2mb
 RSO 85.93 18 eP 14 47.36 -2.5
 e 14 54.16 21kmX
 KMPM 86.33 45 eP 14 50.18 -1.9
 ARN 86.60 48 eP 14 52.72 -0.7

SLKM 86.72 19 eP 14 50.80 -2.7

CRP	86.76	18 (P)	14 52.36	-1.5		1.0s	35.50nm			ZLA	148.49	335 PKP	21 54.45	1.4
LGPM	87.43	45 ePc	14 57.73	0.3			e	21 59.00		MOF	148.67	336 PKP	21 55.76	2.4
YAK	87.59	343 eP	14 54.00	-3.6X			e	22 07.70		LLS	148.73	333 PKP	21 56.38	2.7
	1.0s	40.00nm		5.6mb	SKO	145.07	316 iPKP	21 46.40	-1.2	VITF	148.78	338 PKP	21 56.05	2.6
GTA	87.64	313 P	14 58.00	-0.5		1.2s	178.00nm			BSF	148.82	337 PKP	21 56.37	2.7
	1.0s	28.00nm		5.5mb	GEC2	145.17	331 PKPd	21 45.80	-1.9	VDL	148.83	332 PKP	21 56.84	3.0X
		pP	15 12.00	47km		0.6s	30.70nm			HAU	148.83	337 iPKPc	21 56.50	2.9X
ORV	87.67	46 eP	14 58.34	-0.1				21 53.70	6.0X		0.9s	84.85nm		
PMR	87.90	19 P	15 10.00	11.0X	GEC2	145.17	331 PKP	22 00.20		BBS	148.85	336 PKP	21 56.11	2.5
Z	20s	0.17um		4.5Msz	WTS	145.26	341 iPKPc	21 46.20	-1.3	LOMF	149.21	336 PKP	21 57.41	3.2X
ISA	88.02	51 ePc	15 00.14	-0.2		0.7s	36.30nm			MDI	149.27	331 PKP	21 56.20	2.0
	0.8s	10.37nm		5.1mb			e	21 54.00		ARV	149.30	325 PKPc	21 58.10	3.7X
NVL	88.06	187 eP	14 58.00	-1.9	WET	145.31	332 iPKPc	21 47.00	-0.8	TMA	149.38	333 PKP	21 57.81	3.1X
	1.2s	41.00nm		5.6mb	GRF	145.59	334 iPKPc	21 48.10	-0.2	TDS	149.58	316 PKPc	21 58.30	3.4X
PLM	88.22	54 eP	15 00.88	-0.6			e(pPKP	22 02.30		SFI	149.59	327 PKPc	21 59.10	4.4X
LBFM	88.26	45 eP	15 01.36	-0.2	WIM	145.63	354 ePKPc	21 46.60	-1.6	VAI	149.61	332 PKPc	21 57.80	3.1X
		eP	15 14.26	43km	OHR	145.91	315 iPKP	21 48.00	-1.1	PGD	149.69	327 PKP	21 59.90	4.7X
BONR	89.16	49 eP	15 05.86	-0.1		0.8s	84.00nm			ASS	149.74	325 PKP	21 57.90	2.8X
BALM	89.66	21 eP	15 04.90	-2.7			i	22 02.30		CRE	149.74	326 PKP	21 58.00	2.8X
KVN	89.78	48 eP	15 08.34	-0.4	DMU	146.07	356 iPKPc	21 48.10	-0.8	SGO	149.75	318 PKPc	21 58.40	3.3X
LSA	89.91	302 Pc	15 09.90	0.0		0.8s	79.00nm			SDI	149.97	321 PKP	21 58.60	3.1X
	1.0s	7.00nm		4.9mb	PTJ	146.10	326 ePKP	21 47.50	-1.8	MME	149.98	328 PKPc	21 59.20	3.5X
TPNV	90.19	51 eP	15 10.19	-0.5	TNS	146.22	338 iPKPc	21 49.60	0.2	FIR	149.99	327 ePKP	21 59.00	3.6X
	0.6s	7.32nm		5.2mb	WME	146.33	353 ePKP	21 48.80	-0.5	DIX	150.02	334 PKP	22 00.08	4.3X
		e	15 25.28	52km		1.2s	40.00nm			BDI	150.12	328 PKPc	21 58.20	2.5
SHW	90.37	40 eP	15 11.38	0.1	BHG	146.37	331 iPKPc	21 49.90	0.3	ORX	150.14	333 PKP	21 58.80	3.1X
FBA	90.85	17 eP	15 09.27	-3.6X	YRC	146.50	353 ePKPc	21 49.20	-0.3	ORO	150.15	333 PKPc	21 58.60	2.9X
	0.8s	5.62nm		5.0mb	ENN	146.61	341 iPKPc	21 50.50	0.7	BOB	150.15	330 PKPc	21 59.50	3.8X
LON	90.90	40 eP	15 11.70	-1.8		0.8s	26.20nm			FLN	150.16	346 iPKPc	21 59.30	3.8X
RMW	91.24	39 eP	15 14.70	-0.4			e	22 07.50			0.7s	65.05nm		

PCH	1.66	153	iP	08	58.33	1.4
			iS	09	22.35	
LNV	1.82	180	iP	08	59.23	0.1
CHCH	1.90	161	iP	09	00.67	0.2
S.D. = 0.8 on 9 of 9 obs.						

% FEB 15, 1993 13h 17m 46.68± 0.88s
 39.082 N ± 7.5km 27.603 E ± 9.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

I Z M	0.73	201	i P g	18 01.10	0.0
			i S g	18 13.10	
D S T	0.95	56	e P n	18 04.70	-0.1
E Z N	1.24	307	i P n	18 09.70	0.1
E D C	1.28	9	e P n	18 10.00	-0.4
K C T	1.30	26	i P n	18 11.30	0.5

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

* FEB 15, 1993 13h 36m 01.25± 0.33s
53.311 S ± 7.2km 59.732 W ± 11.7km
DEPTH = 21.2km (2 depth phoses)
5.2mb (14 obs.) 4.6Msz (1 obs.)
FALKLAND ISLANDS REGION (148)

AIA	12.19	189	e(P)	39	06.00	9.6X
RFA	19.54	338	ePc	40	29.00	-1.3
MRA	21.33	346	ePc	40	49.10	0.3
PEL	21.63	334	iP	40	50.30	-1.6
	0.8s	358.21nm			5.8mb	
TCA	22.24	349	iPc	40	57.80	-0.2
RTCV	22.36	340	ePc	40	57.00	-2.2
RTLL	22.86	340	eP	41	02.00	-2.1
RTRS	24.19	339	ePc	41	15.00	-1.9
FSA	27.60	348	iP	41	49.50	0.7
YJA	31.40	350	ePd	42	23.00	-0.3
CCH	36.20	350	P	43	06.20	1.6
SPA	36.88	180	iPc	43	08.20	-1.6
	0.7s	56.64nm			5.5mb	
CNCB	36.99	347	P	43	13.00	1.5
LPB	37.28	347	P	43	13.50	-0.3
Z	16s	2.69um			5.1Mszx	
		LR		57	28.00	
ZOBO	37.53	347	P	43	17.00	0.9
	0.9s	11.89nm			4.7mb	
Z	19s	0.88um			4.6Msz	
		S		49	24.00	

VLI	1.08	145	ePb	32	16.20	0.0
ATH	1.27	73	ePn	32	20.00	1.1
VLS	1.38	295	ePn	32	19.50	-1.0
AGG	1.42	5	ePb	32	21.84	0.8
			eSb	32	40.68	
IGT	2.40	324	ePn	32	40.32	5.1X
LIT	2.50	6	ePn	32	36.12	-0.5
PAIG	2.60	26	ePn	32	36.80	-1.1
KZN	2.71	353	ePn	32	41.00	1.4
OUR	3.06	27	ePn	32	43.64	-0.9
THE	3.08	11	ePn	32	43.52	-1.3
SOH	3.34	16	ePn	32	47.84	-0.7
GRG	3.35	3	ePn	32	48.64	0.0
KNT	3.59	9	ePn	32	51.76	-0.3
			eSn	33	32.80	
OHR	3.66	343	ePn	33	01.30	8.3X
SRS	3.67	17	ePn	32	52.64	-0.6
			eSn	33	33.96	
VAY	3.72	5	ePn	32	54.40	0.6
SKO	4.39	353	eP	33	06.00	2.5

S.D. = 1.2 on 15 of 17 obs.

? FEB 15, 1993 13h 08m 29.63 \pm 10.78s
32.132 S \pm 81.7km 71.406 W \pm 34.8km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.6 (SAN).

JACH	0.88	129	eP	08	45.56	-0.2
			iS	09	00.89	
ROCH	0.90	158	iPd	08	44.92	-1.2
			iS	08	59.97	
PEL	1.18	149	eP	08	49.56	-0.3
			iS	09	08.43	
LCCH	1.35	186	iP	08	52.29	0.0
FCH	1.52	142	iP	08	55.30	0.2
			iS	09	18.58	
TACH	1.57	166	iP	08	55.29	-0.2

			LR	55	45.00	
ARE	37.91	341	eP	43	21.00	2.0
BAD	38.71	18	iPc	43	26.10	0.6
			e	43	33.40	25 km
			e	43	47.20	
			e	44	38.20	
SDV	62.65	348	iPc	46	26.00	-0.5
FRS	63.90	105	eP	46	32.00	-2.5
	0.6 s	26.67 nm				5.6 mb
		i		46	37.50	18 km
WIN	64.43	94	eP	46	37.50	-0.9
	1.0 s	20.00 nm				5.2 mb
PRY	67.27	105	iPc	46	56.00	-0.4
	0.5 s	5.95 nm				5.0 mb
SLR	68.64	105	iPc	47	03.40	-1.6
	0.8 s	14.93 nm				5.2 mb
LIC	75.02	57	Pd	47	43.46	0.6
	0.7 s	25.00 nm				5.3 mb
KIC	75.28	57	P	47	44.90	0.6
TIC	75.38	57	Pd	47	45.34	0.4
	0.8 s	24.00 nm				5.3 mb
VTY	84.76	115	eP	48	41.20	6.0 X
AVY	84.99	115	eP	48	42.20	5.8 X
BCAO	86.55	78	iPc	48	45.10	1.2
	0.6 s	8.00 nm				5.1 mb
TOO	86.88	200	iPd	48	45.70	0.3
	0.6 s	10.00 nm				5.2 mb
BFD	87.83	198	eP	48	50.00	0.1
	1.0 s	18.00 nm				5.3 mb
UYO	92.19	332	iPd	49	10.80	0.8
MEO	93.99	329	iPc	49	18.90	0.6
ASPA	102.44	193	ePdiff	50	00.10	3.2 X
	1.2 s	4.20 nm				5.0 mb
WB2	106.04	194	ePdiff	50	12.10	-0.8
	0.8 s	2.20 nm				5.2 mb
GEC2	119.18	46	PKP	54	49.20	-0.1
	0.7 s	2.41 nm				
GEC2	119.18	46	PKP	54	56.50	7.2 X
GEC2	119.18	46	PKP	54	52.70	3.4 X

15d 13h

YKA	123.24	333	ePKP	54	50.20	-6.3X
	0.8s		6.60nm			
GBA	127.94	123	PKP	55	07.00	0.0
HYB	131.73	122	ePKP	55	14.50	0.3
DAG	132.38	12	ePKP	55	13.70	0.0
	0.6s		6.00nm			
KAF	133.35	40	iPKP	55	15.80	-0.1
	0.7s		37.30nm			
PMR	134.39	318	ePKP	55	18.80	0.9
FBA	135.63	322	ePKP	55	20.00	-0.2
TTA	137.85	317	ePKP	55	25.50	1.0
IMA	138.35	322	ePKP	55	25.00	-0.5
	1.2s		20.60nm			
BRW	141.34	329	ePKP	55	31.40	0.9
DMN	143.52	121	PKP	55	31.60	-4.4X
GKN	143.60	120	PKP	55	31.80	-4.1X
PKI	143.65	121	PKP	55	31.40	-4.9X
KKN	143.76	121	PKP	55	32.40	-3.9X
GUN	144.17	121	PKP	55	34.00	-3.2X
KSH	147.02	97	PKP	55	41.70	0.4
LSA	148.26	126	PKPc	55	44.60	0.6
KMI	148.92	148	PKPc	55	48.50	3.6X
GYA	151.32	154	PKP	55	54.00	5.7X
WMO	156.63	101	PKP	55	55.00	-0.1
XAN	159.11	153	ePKP	55	58.20	0.0
LZH	159.28	140	ePKP	56	00.00	1.5
GTA	160.29	127	PKP	56	00.00	0.6
BJI	166.43	166	ePKP	56	06.00	1.1

S.D. = 1.1 on 47 of 61 obs.

% FEB 15, 1993 14h 23m 19.64± 6.27s
 33.513 S ± 12.6km 70.447 W ± 25.1km
 DEPTH = 102.2 ± 52.5 km
 CHILE-ARGENTINA BORDER REGION (127)

PCH	0.12	208	iP	23	34.30	0.0
			iS	23	44.68	
FCH	0.23	35	iP	23	34.87	-0.1
			iS	23	46.15	
PEL	0.42	331	iP	23	35.44	0.0
			iS	23	46.58	
TACH	0.43	251	iP	23	35.47	0.0
			iS	23	46.65	
CHCH	0.45	202	iP	23	35.83	0.2
			iS	23	47.61	
ROCH	0.72	319	iP	23	37.80	-0.1
			iS	23	51.16	
JACH	0.84	352	iP	23	39.01	0.1
			iS	23	52.93	
LVN	0.92	241	iP	23	39.30	-0.3
LCCH	0.94	272	iP	23	40.07	0.2
			iS	23	54.73	

S.D. = 0.2 on 9 of 9 obs.

% FEB 15, 1993 14h 24m 03.31s
 60.699 N 151.983 W
 DEPTH = 89.1km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>.

DFR	0.36	253	iPd	24	16.57	-0.8
			eS	24	26.92	
NKA	0.37	83	iPc	24	18.55	1.4
RDN	0.43	245	iPd	24	17.02	-0.8
			eS	24	27.82	
RSO	0.45	238	iPd	24	17.47	-0.6
			eS	24	27.94	
RS2	0.45	239	iPd	24	17.50	-0.6
RS1	0.45	238	iPd	24	17.50	-0.6
RDW	0.46	242	P	24	17.20	-0.9
			S	24	28.50	
SPU	0.49	356	iPd	24	17.30	-0.8
			eS	24	28.18	
NCT	0.49	254	iPd	24	17.48	-0.7
			eS	24	28.61	
CKT	0.52	348	iPd	24	17.58	-0.8
			eS	24	28.67	
CKL	0.53	341	iPd	24	17.78	-0.8
CKN	0.54	350	iPd	24	18.01	-0.5
CPAM	0.56	352	iPd	24	18.22	-0.6
			eS	24	29.88	
CRP	0.58	352	ePd	24	17.75	-1.3
			eS	24	29.26	
CP2	0.58	348	eP	24	18.09	-1.0
BGL	0.60	341	iPd	24	18.40	-0.8
ILIM	0.79	218	iPd	24	20.14	-0.8
INE	0.84	220	iPd	24	20.66	-0.9

INW	0.85	223	iPd	24	20.88	-0.8
SLKM	0.89	102	iPc	24	21.31	-0.7
SUA	0.98	38	iPd	24	22.84	-0.3
			eS	24	37.89	
BRLK	1.09	149	eP	24	24.09	-0.2
			eS	24	39.53	
OPT	1.22	211	P	24	26.80	0.9
XLV	1.26	174	eP	24	26.06	-0.3
PMS	1.30	64	P	24	26.60	-0.3
			S	24	46.20	
SKT	1.30	9	iPd	24	25.97	-1.0
			eS	24	45.02	
MPA	1.31	98	ePc	24	26.23	-0.7
SEW	1.39	114	eP	24	26.70	-1.3
PWA	1.40	46	P	24	28.30	0.2
			S	24	48.10	
PTE	1.46	82	iPc	24	27.94	-0.9
AUE	1.51	208	eP	24	29.26	-0.3
AUI	1.55	209	eP	24	29.65	-0.4
PLRM	1.65	56	eP	24	30.22	-1.1
PMR	1.65	56	eP	24	29.90	-1.4
SVW	1.83	285	eP	24	31.11	-2.6
GHO	1.83	53	eP	24	32.64	-1.2
MCNL	1.93	219	iPd	24	34.28	-0.8
CDD	1.96	206	ePd	24	34.82	-0.7
SML	2.09	56	ePc	24	35.93	-1.3
CFI	2.11	75	eP	24	34.93	-2.6
KNIM	2.13	98	iPc	24	35.11	-2.7
LTJ	2.16	106	eP	24	35.70	-2.4
GLI	2.40	84	eP	24	38.62	-2.9
SCM	2.52	61	eP	24	42.21	-0.9
HUR	2.54	25	eP	24	43.50	0.1
VZW	2.68	80	eP	24	42.91	-2.4
FID	2.71	87	ePc	24	42.25	-3.4
HIN	2.73	94	eP	24	42.77	-3.1
VLZ	2.79	79	eP	24	44.58	-2.2
TRF	2.88	15	eP	24	46.69	-1.4
KDC	2.97	185	eP	24	46.78	-2.4
KLU	3.05	72	ePc	24	48.14	-2.3
MCK	3.36	24	eP	24	54.41	-0.3
SDG	3.58	56	eP	24	57.30	-0.4
PAX	3.84	51	eP	24	59.96	-1.4
GLB	4.04	76	eP	25	01.44	-2.6
NEA	4.12	18	eP	25	03.78	-1.3
CCB	4.40	24	eP	25	06.71	-2.4
FBA	4.63	23	eP	25	09.38	-2.9
BALM	4.72	82	eP	25	10.07	-3.6
IMA	5.44	353	eP	25	20.72	-2.9

61 obs. associated

FEB 15, 1993 14h 29m 40.87± 0.34s
 25.850 N ± 6.1km 87.473 E ± 4.4km
 DEPTH = 29.7km (6 depth phases)
 5.0mb (37 obs.) 4.4Msz (1 obs.)
 NORTHERN INDIA (308)
 ML 4.5 (BJI).

GUN	2.50	326	Pc	30	22.60	1.9
PKI	2.52	313	Pc	30	22.60	1.6
DMN	2.75	310	Pc	30	25.60	1.5
KKN	2.75	315	Pc	30	25.20	1.1
GKN	3.32	311	Pc	30	33.00	0.9
LSA	5.03	40	Pn	30	58.60	1.8
NDI	9.55	289	iPd	31	55.20	-4.3X
	0.6s		36.67nm			5.8mb
			eS	33	34.00	
HYB	11.79	226	iPd	32	27.50	-2.7
	1.0s		120.00nm			6.0mb X
			i	32	32.00	
			eS	34	31.00	
CHTO	12.71	121	eP	32	41.10	-1.3
KMI	13.81	90	Pc	32	56.50	-0.7
	1.0s		90.00nm			5.5mb
Z	12s		1.10um			5.6MszX
E	11s		0.60um			
			sP	33	11.00	
KHT	15.15	134	iPc	33	16.50	2.0
CD2	15.19	67	Pc	33	13.40	-1.6
	1.0s		50.00nm			4.7mb
Z	11s		1.48um			4.0MszX
N	11s		1.54um			
			eS	36	04.30	
BOM	15.21	246	eP	33	17.00	1.7
			eS	35	51.20	
GBA	15.41	220	P	33	16.00	-1.8
	0.4s		2.00nm			3.7mb X
			S	35	57.00	

LOE	15.68	120	eP	33	32.50	11.1X
KSH	16.64	327	P	33	30.10	-3.5X
	0.5s		20.00nm			4.5mb
Z	16s		1.77um			5.2MszX
N	10s		2.70um			
			ePP	33	42.00	
			eS	36	33.00	
GTA	17.03	34	P	33	35.00	-3.5X
	1.0s		95.00nm			4.9mb
Z	12s		1.50um			7.0Msz
E	15s		0.66um			
GYA	17.24	84	iPc	33	39.20	-2.1
	1.0s		96.00nm			4.9mb
LZH	17.33	50	eP	33	39.50	-2.9
	1.5s		40.00nm			4.3mb
Z	13s		1.79um			4.4Msz
E	10s		1.84um			
WMO	17.93	1	eP	33	48.50	-1.2
			sP	34	01.50	
			S	37	00.00	
QUE	18.62	288	eP	33	55.50	-2.9
			eS	37	21.70	
XAN	20.27	61	P	34	15.00	-1.8
	0.8s		23.00nm			4.6mb
Z	12s		0.62um			4.2MszX
N	12s		0.52um			
			pP	34	21.80	25km
			sP	34	24.70	
			S	37	54.00	
QIZ	21.75	104	P	34	32.80	0.9
BTO	23.82	46	P	34	52.50	0.2
	N	13s	0.63um			
	E	13s	1.02um			
WHN	24.12	73	Pd	34	55.60	0.5
	1.0s		80.00nm			5.2mb
Z	18s		1.21um			4.4Msz
			pP	35	03.00	26km
			S	39	12.00	
TIY	24.21	55	Pc	34	56.40	0.3
	0.8s		59.00nm			5.2mb
Z	12s		1.69um			4.7MszX
N	11s		0.73um			
E	11s		0.64um			
IPM	24.82	146	ePd	35	04.20	2.2
HHC	24.96	47	eP	35	05.00	1.7
	1.2s		93.00nm			5.3mb
Z	16s		1.78um			4.7MszX
N	11s		0.68um			
E	13s		0.76um			
MAIO	26.05	300	iPd	35	14.30	0.8
	0.7s		8.26nm			4.5mb
TIA	27.33	61	eP	35	25.40	0.3
BJI	27.79	52	eP	35	28.00	-1.2
Z	13s		2.08um			4.9MszX
N	11s		0.82um			
E	11s		1.14um			
NJ2	28.08	70	Pd	35	32.00	0.0
IRK	29.30	21	ePc	35	43.00	0

NUR 54.52 327 eP 39 11.20 3.3X
1.0s 26.30nm 5.2mb
SDF 55.37 336 iP 39 17.50 3.4X
KSP 58.69 315 eP 39 37.00 -0.9
PRU 59.87 314 eP 39 45.50 -0.6
e 39 56.60 38km
HFS 59.91 326 eP 39 47.70 1.6
0.5s 2.80nm 4.7mb
GEC2 60.53 313 P 39 39.40 -11.3X
1.2s 0.90nm
e 39 49.90 35km
e 39 55.50
e 40 01.00
KHC 60.58 314 eP 39 49.50 -1.5
e 40 01.50 42kmX
NB2 61.12 327 P 39 52.90 -1.6
0.6s 1.30nm 4.2mb
WRA 64.37 130 P 40 17.90 1.4
0.3s 8.40nm 5.3mb
WB2 64.38 130 iPc 40 16.90 0.3
0.5s 10.30nm 5.2mb
i 40 25.60 28km
LPG 65.77 310 eP 40 24.80 -0.8
0.9s 9.00nm 4.9mb
LPL 65.78 310 eP 40 25.10 -0.5
0.9s 8.70nm 4.9mb
ASPA 66.65 134 iPd 40 31.30 0.2
0.4s 9.00nm 5.2mb
i 40 39.50 26km
SSF 67.59 313 eP 40 35.70 -1.1
1.1s 12.20nm 4.9mb
BCAO 69.13 265 ePc 40 45.10 -1.8
1.0s 15.00nm 5.0mb
ic 40 50.00 16kmX
ic 41 32.30
LDF 69.55 315 eP 40 53.20 4.3X
1.0s 10.60nm 4.9mb
CTA 73.09 123 P 41 12.80 2.3
STK 77.21 135 eP 41 34.30 0.5
0.5s 2.60nm 4.5mb
IMA 77.38 21 eP 41 34.59 0.2
0.9s 3.54nm 4.4mb
RMD 78.72 127 iPc 41 44.40 2.2
0.9s 29.00nm 5.3mb
FBA 80.03 21 eP 41 48.32 -0.4
0.7s 4.69nm 4.6mb
PMR 81.74 24 eP 41 58.70 1.0
0.8s 24.14nm 5.3mb
BALM 84.50 22 eP 42 12.94 0.8
YKA 90.21 10 eP 42 38.20 -1.4
0.8s 3.80nm 4.7mb
S.D. = 1.4 on 60 of 70 obs.

* FEB 15, 1993 14h 42m 09.42±0.81s
6.897 N ±10.1km 73.073 W ±8.8km
DEPTH = 150.4 ±11.1 km
4.4mb (3 obs.)

NORTHERN COLOMBIA (99)
BOG 2.46 204 iPd 42 52.00 1.1
iS 43 23.00
SDV 3.12 51 iPnc 43 01.40 2.3
iSn 43 39.20
TOV 4.33 48 iPnd 43 17.10 2.2
iSn 44 06.00
CEOS 5.15 65 iP 43 25.30 -0.5
iS 44 19.40
MORO 6.14 50 eP 43 37.10 -2.0
eS 44 39.80
UPA 6.73 288 ePc 43 44.20 -2.7
iS 44 58.24
OLLA 6.93 63 iP 43 49.10 -0.8
eS 45 06.10
ECO 7.00 291 iPc 43 48.71 -1.9
eS 45 05.01
PSO 7.08 217 eP 43 54.00 1.9
GUAN 7.95 67 iP 44 02.10 -1.4
iS 45 28.50
LPB 23.79 168 eP 47 10.00 -0.1
CNCB 24.09 168 P 47 11.70 -1.4
LMN 39.46 9 eP 49 30.50 4.1X
EEO 39.93 354 eP 49 34.50 4.2X
COL 43.67 323 ePc 50 01.00 0.6
0.6s 6.48nm 4.4mb
SRU 46.51 319 ePc 50 24.37 0.7
ULM 47.23 340 eP 50 31.00 2.1
DAU 47.71 320 ePc 50 34.03 0.9

BW06 48.05 324 ePd 50 34.76 -0.9
0.9s 4.27nm 4.2mb
BONR 51.26 314 eP 51 01.20 0.9
FCC 54.21 347 eP 51 23.50 2.2
YKA 63.21 340 eP 52 21.90 -1.6
0.6s 6.00nm 4.7mb
KIC 67.82 86 P 52 52.20 -1.6
WB2 150.40 241 ePKP 01 43.90 4.2X
0.5s 5.40nm

S.D. = 1.8 on 21 of 24 obs.

FEB 15, 1993 14h 49m 18.20±0.86s
37.593 N ±7.7km 21.229 E ±6.2km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)

SOUTHERN GREECE (368)
MD 3.7 (ATH). ML 3.6 (THE).

VLS 0.77 319 ePg 49 32.50 -0.2
VLI 1.62 122 ePb 49 45.50 0.7
AGG 1.67 31 ePb 49 45.44 -0.1
eSb 50 06.64
ATH 2.01 78 ePb 49 50.00 -0.4
IGT 2.06 340 ePn 49 53.44 2.3
eSn 50 18.56
KEK 2.40 333 ePg 50 02.50 6.6X
LIT 2.69 21 ePn 50 01.48 1.4
KZN 2.74 9 ePn 50 01.50 0.6
PAIG 3.02 39 ePn 50 05.16 0.4
eSn 50 39.32
FNA 3.19 2 ePn 50 08.20 1.0
eSn 50 45.76
OUR 3.48 37 ePn 50 10.60 -0.7
GRG 3.48 15 ePn 50 10.60 -0.8
OHR 3.53 355 iPn 50 11.10 -1.0
SOH 3.62 26 ePn 50 13.44 0.1
KNT 3.79 19 ePn 50 15.80 0.1
eSn 50 59.20
VAY 3.87 15 iPn 50 16.40 -0.3
SRS 3.97 27 ePn 50 17.52 -0.7
SOI 4.12 278 P 50 20.00 -0.4
eSn 51 16.50
NPS 4.23 122 ePb 50 30.00 8.0X
SKO 4.38 2 iPn 50 23.30 -0.8
iSn 51 14.00
iSb 51 27.00
SGO 5.48 305 P 50 33.00 -6.6X
NB2 24.30 348 P 54 32.50 -1.0
0.9s 3.20nm 3.9mb
S.D. = 0.9 on 19 of 22 obs.

* FEB 15, 1993 14h 53m 37.06s
59.748 N 151.577 W
DEPTH = 57.1km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.7 (AEIC).

XLV 0.30 194 eP 53 45.87 -1.1
BRK 0.35 87 eP 53 46.90 -0.5
eS 53 54.63
ILIM 0.77 296 eP 53 51.15 -1.1
INE 0.81 293 eP 53 51.62 -1.2
S 54 03.89
INW 0.85 293 eP 53 52.26 -1.0
eS 54 04.19
RS1 0.93 321 eP 53 53.70 -0.7
RSO 0.93 321 eP 53 53.63 -0.7
eS 54 06.64
RS2 0.93 321 eP 53 53.69 -0.7
eS 54 07.07
RDW 0.96 321 iP 53 54.01 -0.8
eS 54 07.84
RDN 0.97 323 eP 53 54.06 -0.8
eS 54 07.40
AUE 0.99 248 eP 53 54.36 -0.7
DFR 1.01 327 eP 53 54.43 -1.0
S 54 08.91
NKA 1.01 9 eP 53 56.67 1.4
SLKM 1.02 41 eP 53 54.74 -0.7
S 54 09.55
AUI 1.03 247 eP 53 54.73 -0.8
eS 54 08.68
NCT 1.06 321 iP 53 55.27 -0.8
SEW 1.13 71 eP 53 55.93 -0.9
MPA 1.34 55 eP 53 58.95 -0.8
CDD 1.34 233 eP 53 58.69 -1.1
SPU 1.46 351 eP 54 00.86 -0.6

CKT 1.49 348 eP 54 01.33 -0.7
CKL 1.50 346 eP 54 01.53 -0.6
CKN 1.51 349 eP 54 01.89 -0.3
MCNL 1.52 249 eP 54 00.57 -1.7
CPAM 1.54 350 eP 54 02.26 -0.4
CRP 1.55 350 eP 54 02.53 -0.4
CP2 1.56 348 eP 54 02.76 -0.3
BGL 1.57 346 eP 54 02.72 -0.4
PTE 1.69 48 eP 54 03.93 -0.8
SUA 1.77 13 eP 54 05.46 -0.5
PMS 1.80 33 eP 54 05.90 -0.4
LTI 1.90 80 eP 54 06.09 -1.5
KNIM 2.02 71 eP 54 07.16 -2.1
PWA 2.08 23 eP 54 08.96 -1.2
PLRM 2.21 32 eP 54 10.70 -1.2
SKT 2.24 1 eP 54 11.72 -0.7
GHO 2.41 32 eP 54 13.98 -0.9
GLI 2.50 61 eP 54 13.46 -2.6
SML 2.61 36 eP 54 16.46 -1.2
HIN 2.63 73 eP 54 15.37 -2.5
FID 2.73 66 eP 54 16.08 -3.3
VLZ 2.95 60 eP 54 20.07 -2.3
SCM 2.95 43 eP 54 21.56 -1.0
CVA 3.02 72 eP 54 21.63 -1.8
KLU 3.29 55 eP 54 25.42 -2.0
45 obs. associated

* FEB 15, 1993 15h 13m 52.66±1.23s
37.652 N ±9.3km 21.214 E ±9.8km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
MD 3.4 (ATH). ML 3.3 (THE).

VLS 0.72 317 ePn 14 06.00 -0.4
AGG 1.63 32 ePb 14 19.20 -0.2
eSb 14 40.44
VLI 1.66 124 ePn 14 20.00 0.1
IGT 2.00 340 ePn 14 30.44 5.7X
eSn 14 59.88
ATH 2.01 80 ePn 14 25.00 0.1
eSn 14 48.00
LIT 2.64 22 ePn 14 34.84 1.0
KZN 2.69 9 ePn 14 33.50 -1.0
OUR 3.44 38 ePn 14 44.24 -1.0
OHR 3.47 355 ePn 14 45.50 -0.2
SOH 3.57 27 ePn 14 47.36 0.2
KNT 3.74 20 ePn 14 49.60 0.2
eSn 15 33.84
VAY 3.81 16 ePn 14 50.00 -0.4
SRS 3.92 27 ePn 14 51.76 -0.3
eSn 15 39.10
SKO 4.32 2 ePn 14 59.50 1.8
eSn 15 46.00

S.D. = 0.8 on 13 of 14 obs.

* FEB 15, 1993 15h 22m 13.77±1.41s
37.612 N ±12.1km 21.280 E ±11.0km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
MD 3.6 (ATH).

VLS 0.79 316 ePg 22 27.00 -1.4
VLI 1.60 123 ePb 22 40.00 0.0
AGG 1.63 30 ePb 22 39.50 -1.1
eSb 23 01.66
ATH 1.96 79 ePn 22 46.00 0.6
IGT 2.06 339 ePn 22 48.54 1.9
KZN 2.72 8 ePb 23 01.50 5.4X
PAIG 2.98 38 ePn 22 59.54 -0.2
OHR 3.51 354 ePn 23 08.20 0.8
SOH 3.59 26 ePn 23 08.46 0.0
eSn 23 50.62
KNT 3.76 19 ePn 23 10.22 -0.6
eSn 23 54.42
VAY 3.84 15 ePn 23 04.50 -7.4X
SKO 4.36 2 ePn 23 27.00 7.7X
S.D. = 1.2 on 9 of 12 obs.

* FEB 15, 1993 16h 00m 41.80±1.11s
1.849 S ±12.2km 81.258 W ±19.5km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
OFF COAST OF ECUADOR (104)
NNA 10.98 157 eP 03 18.70 -1.1
0.6s 12.00nm 5.3mb X
e 03 23.00

15d 16h

SDV 15.03 45 eS 05 24.00
 TOV 16.25 44 eP 04 15.10 1.3
 ZOBO 19.31 139 eP 04 28.00 -1.4
 1.0s 13.75nm 4.2mb
 Z 18s 0.35um 3.9msz
 LR 11 00.00
 LPB 19.51 139 eP 05 01.00 -8.9X
 CNCB 19.79 139 P 05 16.10 3.0X
 CCH 21.42 137 eP 05 32.00 2.4X
 SRU 48.84 330 (P) 09 27.09 0.7
 ULM 53.39 348 eP 10 01.50 1.1
 YKA 68.94 344 eP 11 43.90 -1.6
 1.1s 2.90nm 4.3mb
 KIC 76.82 83 P 12 31.60 -1.1
 S.D. = 1.7 on 8 of 11 obs.

? FEB 15, 1993 16h 07m 14.88±1.62s
 31.807 S ±24.8km 67.168 W ± 8.5km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.93 282 ePd 07 32.90 1.2
 S 07 48.00
 RTLL 1.21 293 iPd 07 35.70 0.1
 S 07 53.00
 RTCB 1.43 283 eP 07 37.50 -1.3
 S 07 56.00
 RTPR 1.60 21 ePc 07 41.20 0.0
 TCA 2.25 79 iPc 07 50.60 0.0
 S.D. = 1.3 on 5 of 5 obs.

FEB 15, 1993 16h 13m 54.60±0.12s
 36.419 N ± 3.3km 70.549 E ± 2.1km
 DEPTH = 211.3km (19 depth phases)
 5.0mb (98 obs.)
 HINDU KUSH REGION, AFGHANISTAN (718)
 Felt at Chitral and Peshawar,
 Pakistan.

KSH 5.25 53 Pd 15 13.10 -0.2
 0.7s 160.00nm 5.2mb

QUE 6.90 207 iPd- 15 35.00 0.4
 eS 16 11.70
 eS 16 58.40

MAIO 8.92 273 iPd 15 58.80 -1.9
 0.8s 26.72nm 4.5mb

NDI 9.54 142 iPd 16 08.00 -0.7
 0.6s 573.33nm 6.0mb X
 eS 17 44.50

GKN 14.57 121 P 17 11.00 -1.4
 WMO 15.04 55 iPd 17 16.60 -1.5
 1.0s 190.00nm 5.5mb

SP 18 10.00
 S 20 00.00

DMN 15.14 121 P 17 18.00 -1.5
 KKN 15.15 120 P 17 17.80 -1.7
 PKI 15.37 121 P 17 21.20 -1.2

GUN 15.49 119 P 17 22.20 -1.7
 BOM 17.57 173 iPc 17 48.20 0.6
 0.7s 11.00nm 4.4mb

eS 20 57.20
 S 20 59.60 1.7
 0.7s 96.00nm 5.4mb

KER 19.22 271 eP 18 05.00 0.2
 DHR 20.10 246 ePc 18 14.00 0.5
 eS 21 44.00

HYB 20.21 157 iPd 18 15.60 0.8
 1.0s 140.00nm 5.4mb

i 18 22.00 24kmX
 e 19 16.00
 eS 21 50.00

GTA 23.24 74 P 18 45.00 0.8
 1.0s 180.00nm 5.6mb

pP 19 25.00 211km
 sP 19 52.00
 P 18 48.80 1.7

GBA 23.54 163 Pc 18 48.80 1.7
 0.4s 23.00nm 5.1mb

RYD 23.62 247 iPc 18 49.00 1.2
 iS 22 45.00

MJMA 23.98 251 iPc 18 51.30 0.0
 eS 22 51.00

OASM 25.21 254 ePc 19 04.00 1.4
 AFIF 26.54 250 iPc 19 18.00 3.2X
 LZH 26.78 81 eP 19 17.50 0.5
 1.4s 39.00nm 4.9mb

CD2 28.09 92 iPc 19 29.20 0.5
 0.9s 85.00nm 5.5mb
 HMDT 29.12 272 iPc 19 39.00 1.3
 KMI 29.73 103 Pc 19 43.00 -0.4
 1.2s 70.00nm 5.2mb

YTIR 29.74 271 iPc 19 44.90 1.7
 OBN 29.74 320 iPc+ 19 43.10 0.2
 0.9s 248.00nm 5.9mb

iPp 20 16.00 157kmX
 i 20 42.00
 iPP 20 48.00

i 21 09.00
 i 21 50.00
 iPcP 22 23.00

eS 24 26.00
 isS 25 38.00
 eSS 26 10.00

eSSS 26 34.00
 AYN 29.93 265 ePc 19 45.00 0.2
 DHJN 30.33 239 eP 19 50.00 1.2

ABHA 30.45 241 ePc 19 52.60 2.8
 MSH 30.49 268 iPc 19 50.90 1.1

CHTO 30.50 117 eP 19 49.40 -0.6
 BTO 30.99 70 eP 19 55.00 0.9

XAN 31.30 83 Pc 19 56.50 -0.3
 0.8s 27.00nm 5.0mb

HHC 32.13 69 eP 20 04.80 0.7
 1.2s 28.00nm 4.8mb

S 25 00.00
 GYA 32.21 98 iPc 20 05.00 0.1
 0.8s 83.00nm 5.4mb

pP 20 51.80 230kmX
 sP 21 16.40
 PcP 22 47.20

S 25 01.60
 PcS 26 31.00
 ScS 30 07.00

ELL 32.46 283 iP 20 07.50 0.5
 KHT 33.02 123 iPc 20 13.10 1.3

TIY 33.25 75 Pc 20 14.50 0.8
 LOE 33.42 116 eP 20 13.20 -2.1

NST 33.45 120 eP 20 18.00 2.5
 VRI 33.95 300 eP 20 23.00 3.4X

MLR 34.50 299 iPc 20 28.00 3.6X
 RZN 35.65 293 eP 20 34.00 -0.1

BJI 35.73 70 eP 20 35.50 1.0
 1.0s 22.00nm 4.7mb

ePcP 22 57.50
 eScP 26 23.00
 PGB 35.96 294 eP 20 38.00 1.4

MMB 36.40 293 eP 20 40.00 -0.2
 VTS 36.66 295 eP 20 43.00 0.4

WHN 36.76 86 Pc 20 44.00 0.7
 KKB 36.84 293 iPc 20 44.00 0.1

TIA 37.24 76 Pd 20 48.20 0.8
 PcP 23 01.90

KAF 37.50 327 iP 20 49.70 0.6
 0.8s 113.90nm 5.5mb

NUR 37.68 324 iP 20 51.30 0.6
 0.6s 163.10nm 5.8mb

SPC 38.36 306 iP 20 58.20 1.4
 0.9s 50.40nm 5.1mb

QIZ 38.55 106 eP 20 58.40 0.1
 PSZ 38.61 304 eP 20 59.30 0.6

OJC 38.66 307 eP 20 59.60 0.6
 e 21 05.50 20kmX

GZH 39.15 98 Pc 21 04.20 1.0
 BUD 39.22 303 eP 21 04.50 0.9

SRO 39.68 303 iP 21 08.50 1.2
 iPP 21 51.90 204km

e(PP) 22 51.90
 SDF 39.76 335 iP 21 08.70 0.9

NJ2 39.85 82 Pd 21 10.00 1.1
 0.8s 16.00nm 4.6mb

SNG 40.00 129 eP 21 11.00 0.7
 DL2 40.08 71 eP 21 11.70 1.0

0.7s 41.00nm 5.0mb
 ZST 40.47 304 eP 21 14.00 0.2

iPP 21 59.90 216km
 ePP 22 53.20
 ePcP 23 11.50

KEV 40.74 338 iP 21 16.60 0.8
 0.7s 108.10nm 5.5mb

VRAC 40.75 306 eP 21 17.70 1.6
 1.3s 245.60nm 5.6mb

e 22 01.70 206km

KSP 40.90 308 iPc 21 18.20 0.9
 e 22 56.80 551kmX
 UPF 40.91 322 iP 21 17.40 0.2

SNY 40.95 66 iPd 21 17.60 -0.2
 0.6s 24.00nm 4.9mb

PcP 23 12.60
 CN2 41.97 62 eP 21 27.20 1.1
 0.8s 4.80nm 4.1mb

VBY 41.99 300 iP 21 27.40 1.1
 SSE 42.05 82 Pd 21 27.20 0.3

1.0s 30.00nm 4.8mb
 PRU 42.05 307 P 21 27.50 0.8
 1.3s 32.70nm 4.7mb

e 21 36.00
 eP 22 12.00 208km
 e 22 45.40

IPM 42.28 131 ePc 21 30.20 1.3
 0.8s 145.90nm 5.5mb

BRG 42.39 308 iP 21 30.60 1.2
 LJU 42.42 301 eP 21 31.00 1.2

GEC2 42.68 305 P 21 32.30 0.3
 0.8s 7.24nm 4.2mb

e 21 34.90 9kmX
 e 22 09.60
 e 22 18.50

e 22 25.90
 e 22 57.10
 e 23 11.30

PP 23 21.50
 KHC 42.74 306 P 21 33.20 0.8
 1.1s 10.10nm 4.2mb

e 21 41.00 26kmX
 e 22 18.00
 e 22 34.00

e 23 15.60
 VOY 42.87 301 eP 21 34.40 0.9
 HFS 42.91 322 eP 21 32.60 -0.9

0.4s 60.70nm 5.4mb
 CLL 42.96 309 iPc 21 34.10 0.0
 1.1s 39.00nm 4.8mb

RBL 43.04 302 Pc 21 35.20 0.3
 KBA 43.11 303 iPc 21 35.90 0.3

1.0s 24.70nm 4.6mb
 COP 43.24 315 iPd 21 37.50 1.2

0.9s 107.56nm 5.3mb
 BHG 43.34 304 iPc 21 37.80 0.5
 0.9s 54.00nm 5.0mb

FVI 43.55 302 P 21 38.80 -0.1
 HOF 43.74 308 iPc 21 41.20 0.8

0.8s 18.00nm 4.6mb
 MOX 43.88 308 iPc 21 42.30 0.8
 1.6s 63.00nm 4.9mb

eP 22 28.60 216km
 eS 22 50.10
 GRF 44.22 307 iPc 21 45.80 1.6

0.9s 35.00nm 4.8mb
 eP 22 30.70 208km
 e(sP) 22 54.10

e 23 32.40
 NB2 44.23 323 P 21 43.70 -0.5
 WTTA 44.24 303 iPc 21 44.20 -0.4

0.8s 30.70nm 4.8mb
 i 21 51.80 25kmX
 ASS 44.24 297 P 21 45.60 1.1

YAK 44.26 35 iPc 21 43.20 -1.1
 0.9s 400.00nm 5.9mb

iPP 22 29.00 213km
 i 22 53.00
 ePcP 23 09.00

ePP 23 28.00
 iPPP 24 15.00
 iS 28 02.00

eSS 29 14.00
 eScS 31 07.00
 FUR 44.36 305 iPc 21 46.10 0.8

0.9s 43.00nm 4.9mb
 NAO 44.39 323 P 21 43.40 -2.0
 CTI 44.41 302 P 21 45.70 -0.2

SQTA 44.53 303 iPc 21 46.20 -0.7
 MOTA 44.58 303 iPc 21 46.40 -0.9

1.0s 49.40nm 4.9mb
 SFI 44.65 299 Pc 21 48.90 1.3

OGA 44.71 303 iPc 21 48.00 -0.4
 0.6s 21.00nm 4.7mb

MDJ 44.76 60 eP 21 49.10 0.6
 MUD 45.08 317 iPd 21 52.80 2.0

1.0s	52.00nm	4.9mb	0.8s	19.50nm	4.7mb	1.0s	60.03nm	5.3mb	
FIR	45.10 298 e(P)	21 49.00 -2.2	KKM	51.51 115 ePc	22 41.50 0.6	RSO	77.14 20 pP	26 09.21 211km	
OSS	45.34 303 iPc	21 53.20 -0.1		1.2s 173.30nm	5.5mb	PMR	77.16 18 eP	25 25.77 -0.3	
MME	45.41 299 P	21 54.50 0.5	LDF	51.74 307 iPc	22 41.50 -0.7		0.8s 59.20nm	5.4mb	
KGM	45.70 131 ePc	21 57.50 1.3		0.5s 10.35nm	4.7mb	MEEK	77.36 137 eP	25 26.50 -0.9	
VDL	45.83 303 ePd	21 57.00 -0.2	LPO	51.90 302 iPc	22 43.50 0.1	WIN	77.38 230 iPc	25 29.50 1.6	
LLS	46.08 303 iPd	21 58.60 -0.6		0.6s 11.65nm	4.6mb		0.6s 20.00nm	5.0mb	
BOB	46.17 300 Pc	22 00.30 0.5	FLN	51.93 307 iPc	22 42.90 -0.7	SLKM	77.80 19 iP	25 28.46 -1.0	
SLE	46.27 304 ePd	22 00.00 -0.4		0.7s 25.15nm	4.9mb	KLU	78.03 17 iPc	25 30.95 0.2	
TMA	46.30 302 iPd	22 00.30 -0.6	TSRJ	52.01 70 P	22 44.00 -0.3	FRS	78.33 219 iPc	25 32.60 0.0	
ZLA	46.38 304 ePd	22 00.90 -0.5	EKA	52.09 316 Pd	22 44.20 -0.5		0.7s 78.77nm	5.6mb	
VAI	46.42 302 Pc	22 00.80 -0.8		1.2s 50.40nm	5.0mb	BALM	79.24 16 iPd	25 37.75 0.4	
LANF	46.52 306 P	22 03.01 0.6	LFF	52.13 302 iPc	22 45.30 0.2	KDC	79.47 22 iPc	25 38.55 0.1	
FEL	46.57 305 P	22 02.30 -0.6		0.7s 40.15nm	5.1mb		0.8s 89.63nm	5.5mb	
WTS	46.75 310 eP	22 04.50 0.4	GRR	52.26 307 iPc	22 45.40 -0.6		pP	26 28.69 207km	
	0.7s 26.70nm	4.8mb		0.7s 28.10nm	5.0mb	BAL	79.50 141 eP	25 38.00 -0.9	
PCP	46.85 300 P	22 03.96 -1.1	MFF	52.27 305 iPc	22 45.40 -0.7	YKA	81.34 2 eP	25 48.70 0.6	
WLS	46.91 305 P	22 05.01 -0.5		0.6s 13.90nm	4.7mb		0.6s 42.80nm	5.4mb	
MMK	46.93 302 ePd	22 05.40 -0.6	LPF	52.47 307 iPc	22 46.70 -0.8	WARB	81.67 131 eP	25 50.00 -0.4	
CDF	46.96 305 P	22 05.30 -0.6		0.6s 10.55nm	4.6mb	COOL	82.05 138 eP	25 51.50 -0.8	
BBS	46.97 304 P	22 05.13 -0.9	EPF	52.98 300 iPc	22 50.20 -1.2	WRA	82.26 122 P	25 51.20 -2.4	
PGF	46.98 297 iPc	22 05.80 -0.4		0.7s 13.80nm	4.6mb		0.5s 6.30nm	4.6mb	
	0.7s 26.70nm	4.8mb	MTMJ	53.00 68 P	22 51.10 -0.6	WB2	82.27 122 iPd	25 52.90 -0.7	
ORX	47.01 302 P	22 04.15 -2.2		53.20 315 eP	22 52.50 -0.3		0.4s 163.60nm	6.1mb X	
ORO	47.01 302 P	22 04.70 -1.7	WIM	53.32 68 eP	22 52.00 -2.0		i	26 45.40 216km	
MOF	47.15 305 P	22 07.21 -0.2	MAT		0.9s 25.21nm	4.8mb	FCC	84.31 352 eP	26 07.00 3.6X
FIN	47.16 300 P	22 06.16 -1.3		53.35 314 eP	22 53.40 -0.5	SIT	84.35 14 eP	26 05.30 1.7	
DIX	47.31 302 iPc	22 08.90 0.0	YRC	53.48 313 eP	22 54.30 -0.6		0.9s 77.70nm	5.5mb	
ROB	47.37 300 P	22 09.32 0.2	YRH		1.1s 16.00nm	4.5mb	ASPA	84.50 125 iPc	26 04.20 -0.7
BSF	47.38 305 P	22 08.92 -0.3		53.70 299 eP	22 53.00 -3.6X		0.6s 77.80nm	5.6mb	
IMI	47.45 299 P	22 09.55 -0.2	EGRA	54.09 69 P	22 58.30 -1.3	FORT	85.88 133 eP	26 11.00 -0.5	
ENN	47.46 309 eP	22 10.00 0.4	CHJJ	54.48 314 eP	23 01.20 -0.9	LMN	88.76 331 eP	26 27.00 1.7	
	0.7s 10.50nm	4.4mb	DLF	54.54 315 eP	23 02.20 -0.4	CTA	90.84 114 iPc	26 34.50 -0.6	
WLF	47.48 307 iPc	22 10.61 0.8	DMU	54.90 314 eP	23 04.50 -0.7		1.0s 27.50nm	5.2mb	
	i	22 58.52 221km	DCN	54.92 68 P	23 04.00 -1.5		i	27 27.70 216km	
RSP	47.61 301 P	22 10.23 -0.8	KAKJ	55.06 297 iPd	23 07.00 0.4	ULM	92.88 351 eP	26 47.00 2.8	
LSO	47.61 302 P	22 11.42 0.2	ECHE	55.10 301 eP	23 07.00 0.2		pP	27 39.00 210km	
EMS	47.64 302 iPc	22 11.30 0.0	ECRI	55.40 298 iPd	23 08.00 -1.1	EEO	92.93 340 eP	26 48.00 3.5X	
HAU	47.65 305 iPc	22 11.20 0.1	ETOR	56.52 296 eP	23 16.50 -0.5	SES	93.55 1 ePc	26 47.40 0.0	
	0.7s 27.00nm	4.8mb	EVIA	56.90 295 eP	23 19.50 -0.2	OBC	94.91 10 P	26 55.72 2.0	
BHB	47.67 301 P	22 09.50 -1.9	EHUE	56.91 330 iPc	23 19.70 0.4	JCW	95.03 8 P	26 55.00 0.8	
ENR	47.70 300 P	22 10.97 -0.7	AKU		1.3s 76.92nm	5.2mb	STK	95.03 126 eP	26 53.00 -1.2
DOI	47.76 300 P	22 10.30 -1.9		56.94 294 eP	23 19.50 -0.4		0.4s 2.00nm	4.7mb	
STV	47.77 300 P	22 10.88 -1.3	ENIJ	57.29 249 iPc	23 21.90 -0.7	GMW	95.56 9 eP	26 57.84 1.2	
SBF	47.78 299 iPc	22 12.50 0.2	BCAO	0.4s 45.00nm	5.5mb	RMW	95.77 8 eP	26 58.38 0.7	
	0.8s 46.35nm	4.9mb		id	24 10.00 212km	SAW	95.78 7 P	26 58.26 0.6	
VITF	47.85 305 P	22 12.49 -0.2		id	25 15.20	RVC	96.26 9 P	27 01.11 1.2	
PZZ	47.86 300 P	22 10.78 -2.2	PAB	57.50 298 iPc	23 22.50 -1.4	FMW	96.30 8 P	27 00.74 0.5	
LPG	47.88 302 iPc	22 13.60 0.3	ECOG	57.82 295 iPc	23 25.00 -1.2	LON	96.47 9 eP	27 01.08 0.3	
	0.7s 35.50nm	4.9mb	EMON	58.11 303 eP	23 27.00 -1.0	CRF	96.65 7 P	27 02.56 1.0	
LPL	47.89 302 iPc	22 13.70 0.4	ERUA	58.37 302 eP	23 29.50 -0.3	MXC	96.81 8 P	27 03.19 0.9	
	0.9s 50.10nm	4.9mb	EPLA	58.53 299 eP	23 31.00 0.1	FL2	96.95 9 P	27 04.38 1.3	
RRL	47.99 301 P	22 13.58 -0.5	EHOR	58.82 296 iPd	23 32.50 -0.4	RSSD	99.69 356 (P)	27 15.80 0.1	
BNI	48.03 301 Pc	22 13.70 -0.6	AVY	59.12 205 iPd	23 36.60 1.3		0.6s 2.95nm	4.9mb	
DOU	48.41 308 Pc	22 17.20 0.3	EPRU	59.16 295 eP	23 34.00 -1.3	DSZ	120.66 121 ePKP	32 20.30 -2.1	
	0.8s 38.30nm	4.9mb	VTY	59.33 205 iPd	23 38.00 1.3	KHZ	122.11 122 ePKP	32 23.20 -1.8	
FRF	48.41 299 iPc	22 16.80 -0.2	EVAL	60.01 297 eP	23 41.00 0.0	MNG	122.79 119 ePKP	32 24.50 -1.9	
	0.9s 29.15nm	4.7mb	IFR	60.56 292 iP	23 45.00 -0.1	SPA	126.23 180 iPKPc	32 31.30 -1.2	
BAG	48.45 101 ePc	22 18.20 0.4		i	23 45.50 2kmX		0.8s 32.50nm		
SNF	48.53 309 Pc	22 17.90 0.1	KHKI	61.42 127 ePd	23 47.20 -3.5X	SIV	132.62 282 PKP	32 47.20 1.2	
LMR	48.56 299 iPc	22 17.70 -0.5		e	26 38.00		i	33 26.20	
LRG	48.64 299 iPc	22 18.60 -0.1	AVE	62.36 292 iPd	23 56.50 -0.3		e	33 43.00	
	0.7s 17.85nm	4.6mb	TIO	63.34 290 iP	24 03.00 -0.5		i	35 15.50	
SHNJ	48.78 74 P	22 20.10 0.2	ANTZ	66.50 289 iPc	24 22.50 -1.1	ZOBO	138.29 288 ePKP	32 56.00 -1.5	
KUMJ	49.14 76 P	22 24.60 1.8		i	24 23.00 2kmX		0.9s 6.49nm		
LBF	49.43 304 iPc	22 24.30 -0.5	BRW	67.47 15 iPd	24 28.92 -0.1	LPB	138.41 287 ePKP	32 57.00 -0.4	
	0.5s 7.85nm	4.4mb	IMA	72.31 17 iPc	24 57.82 -0.7	CNCB	138.48 287 PKP	32 50.00 -7.7X	
LOR	49.44 305 iPc	22 24.40 -0.5		1.0s 52.78nm	5.2mb		i	32 58.20	
	0.8s 7.80nm	4.2mb		pP	25 47.35 208km	TCA	142.67 264 ePKP	32 59.00 -5.2X	
SMF	49.60 304 iPc	22 26.00 -0.1	TTA	74.22 20 iP	25 09.59 0.0	MRA	143.92 263 ePKPc	33 04.10 -2.0	
	0.8s 59.10nm	5.1mb		1.4s 70.51nm	5.2mb	RTC	146.01 266 ePKPc	33 10.40 0.6	
SSF	49.72 304 iPc	22 26.70 -0.3		pP	25 59.14 208km	RTRS	146.18 269 e(PKP)	33 11.50 1.5	
	0.8s 17.20nm	4.6mb	KIC	74.42 266 Pc	25 10.44 -0.9		S.D. = 1.0 on 263 of 272 obs.		
AVF	49.89 304 iPc	22 28.20 0.0		0.5s 58.00nm	5.6mb	? FEB 15, 1993 16h 15m 45.54±1.84s			
	0.8s 55.05nm	5.1mb	TIC	74.48 267 P	25 10.58 -1.1		38.492 N ±16.5km	1.581 W ±17.1km	
BGF	50.28 304 iPc	22 31.00 -0.3		0.5s 39.00nm	5.4mb		DEPTH = 10.0km (geophysicist)		
	0.8s 17.05nm	4.6mb	FBA	74.65 16 iPc	25 11.67 -0.1	SPAIN		(377)	
MAF	50.55 304 iPc	22 33.60 0.3		0.9s 106.86nm	5.6mb		mbLg 2.6 (MDD).		
	0.9s 46.35nm	5.0mb		pP	26 01.58 209km	EVIA	0.74 282 iPd	16 00.50 0.4	
TCF	50.78 304 iPc	22 35.20 0.1	LIC	74.73 266 Pc	25 12.12 -0.9		eSg	16 13.40	
	0.6s 26.85nm	4.9mb		0.5s 47.00nm	5.5mb		ePg	16 05.70 0.4	
TKSJ	51.10 73 P	22 37.70 0.1	PRY	74.94 219 iPc	25 15.00 0.8		eSg	16 21.00	
CAF	51.23 302 iPc	22 38.80 0.3		1.0s 35.00nm	5.0mb		iPg	16 07.90 0.0	
	0.7s 22.95nm	4.8mb	MTN	75.18 119 eP	25 14.40 -1.1	ECHE	1.20 23 iPd		
LSF	51.24 304 iPc	22 38.10 -0.4	SVW	75.79 21 eP	25 18.85 0.4		eSg	16 23.00	
	0.7s 30.45nm	4.9mb							
RJF	51.50 303 iPc	22 40.80 0.3							

15d 16h

EBAN 1.76 260 iPn 16 15.50 -0.8
 EOCG 1.98 233 ePg 16 24.20 4.6X
 eSg 16 49.80
 GUD 2.93 318 ePg 16 45.00 11.9X
 eSg 17 20.00

S.D. = 1.0 on 4 of 6 obs.

? FEB 15, 1993 16h 29m 59.32±2.68s
 39.310 N ±21.9km 28.818 E ±19.6km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

DST 0.33 334 iPg 30 05.60 -0.4
 eSg 30 09.60
 KCT 1.00 339 iPn 30 19.20 0.4
 ALT 1.04 104 ePn 30 19.40 0.0
 YLV 1.33 19 ePn 30 24.30 0.0

S.D. = 0.6 on 4 of 4 obs.

FEB 15, 1993 16h 51m 16.41±0.18s
 37.616 N ±3.4km 137.262 E ±3.1km
 DEPTH = 15.0km (27 depth phases)

5.0mb (46 obs.)

NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ 1.12 157 iPd 51 36.90 -0.1
 MAT 1.31 144 iPd 51 39.20 -0.9
 eS 51 56.00
 NIJJ 1.43 105 iP+ 51 40.90 -0.9
 S 52 00.10
 CHJJ 2.09 138 P 51 51.50 0.1
 IJDJ 2.20 166 P 51 53.30 0.4
 YAMJ 2.26 75 iP+ 51 53.10 -0.7
 eS 52 24.40
 TSRJ 2.32 207 P 51 55.10 0.6
 KAKJ 2.73 120 P 52 00.00 -0.4
 WKYJ 3.65 202 P 52 14.00 0.4
 OFUJ 3.76 66 iP+ 52 15.10 0.0
 AOMJ 3.81 39 iP+ 52 16.40 0.7
 YONJ 3.91 233 P 52 18.20 1.1
 TKSJ 4.47 217 P 52 26.80 1.7
 SHK 4.82 232 eP 52 31.20 1.1
 MRRJ 5.62 30 eP 52 41.90 0.5
 SHNJ 6.09 237 P 52 50.00 2.0
 eS 53 59.90
 HOOJ 6.64 42 eP 52 57.10 1.4
 KUMJ 7.31 228 P 53 06.30 1.1
 ASAJ 7.67 30 eP 53 11.30 1.2
 KUSJ 7.89 44 eP 53 11.60 -1.7
 KAGJ 8.30 221 P 53 21.20 2.2
 MDJ 9.07 323 eP 53 33.60 3.9X
 CN2 10.88 308 eP 53 58.60 4.0X

1.4s 17.00nm 5.2mb

Z 13s 0.95um 4.4MszX

N 11s 0.56um

E 11s 0.65um

eS 54 03.60

eS 56 03.00

SNY 11.34 296 eP 54 04.60 3.7X
 2.0s 84.00nm 5.7mb
 Z 14s 1.18um 3.4MszX
 E 12s 0.59um

sP 54 10.20

DL2 12.36 281 eP 54 20.00 5.4X
 Z 10s 1.34um
 E 12s 1.68um

SSE 14.78 249 P 54 51.50 5.0X
 1.1s 15.00nm 4.4mb
 Z 15s 1.30um 4.7MszX
 N 10s 0.60um
 E 10s 0.50um

NJ2 16.09 255 eP 55 06.50 2.9X
 Z 14s 0.59um

TIA 16.17 271 eP 55 10.40 5.8X
 1.4s 81.00nm 4.7mb
 Z 14s 1.19um 4.7MszX
 N 11s 0.57um
 E 11s 1.01um

eS 58 10.20

BJI 16.61 285 eP 55 11.50 1.4
 1.4s 57.00nm 4.5mb
 Z 12s 0.91um 4.9Msz
 N 10s 0.99um

eS 58 24.00

TIY 19.65 278 Pd 55 48.00 0.5
 1.2s 66.00nm 4.8mb

Z 14s 1.90um 4.1Msz
 N 13s 0.67um
 E 14s 0.75um

S 59 30.00
 HHC 20.14 287 eP 55 52.00 -0.8
 1.4s 25.00nm 4.4mb

Z 12s 0.96um 4.4MszX
 N 11s 0.38um
 E 10s 0.74um

S 59 40.00
 WHN 20.22 256 Pd 55 54.00 0.5
 Z 16s 1.18um 4.3MszX
 E 12s 1.21um

eS 59 41.00
 BTD 21.32 287 eP 56 05.00 0.1
 N 13s 0.32um
 E 12s 0.45um

eS 00 02.00
 XAN 23.22 270 P 56 23.50 -0.2
 Z 12s 0.62um 4.3MszX
 N 13s 0.30um

E 12s 0.51um
 eS 00 40.50
 YAK 24.87 352 iPc 56 38.00 -1.4
 1.9s 80.00nm 5.1mb

Z 12s 0.50um 4.2MszX
 N 12s 0.40um
 i 57 12.00 170kmX

e 01 05.00
 GUA 24.93 162 eP 56 49.80 9.5X
 LZH 26.71 277 eP 56 55.50 -1.5

1.4s 240.00nm 5.7mb
 IRK 27.26 313 ePc 57 05.20 3.5X
 1.4s 14.00nm 4.5mb

Z 16s 0.26um 3.9MszX
 e 57 42.30 182kmX
 LR 07 43.00

GYA 28.10 256 iPd 57 08.00 -1.7
 1.0s 12.00nm 4.6mb
 Z 16s 0.81um 4.4MszX

CD2 28.38 266 eP 57 13.60 1.5
 Z 14s 0.80um 4.5MszX
 GTA 29.22 285 eP 57 18.00 -1.7

Z 12s 3.61um 5.2MszX
 E 10s 0.35um
 KMI 31.82 257 eP 57 40.00 -2.9

1.5s 50.00nm 5.2mb
 Z 16s 1.10um 4.6MszX
 N 13s 0.50um

E 13s 0.40um
 WMO 37.61 295 P 58 32.00 -0.2
 1.5s 7.90nm 4.3mb

Z 10s 0.40um 4.5MszX
 GUN 43.81 273 P 59 24.40 0.6
 PKI 44.34 273 P 59 27.80 -0.3

KKN 44.34 273 P 59 27.60 -0.3
 DMN 44.56 273 P 59 27.20 -2.6
 GKN 44.76 274 P 59 30.80 -0.4

SVW 47.06 38 eP 59 48.84 0.0
 0.9s 21.96nm 5.2mb
 BRW 47.19 24 eP 59 49.79 0.1

IMA 47.88 31 eP 59 54.71 -0.7
 1.1s 9.87nm 4.8mb
 e 59 59.46 16km

ePcP 01 27.56
 RSO 48.50 38 eP 00 00.64 0.3
 CP2 48.68 37 eP 00 02.13 0.4

CRP 48.72 37 eP 00 01.81 -0.2
 i 00 06.79 17km
 FBA 50.38 32 eP 00 13.30 -1.2

1.1s 9.56nm 4.7mb
 HYB 54.93 265 ePc 00 48.00 -1.1
 WB2 57.32 183 iPc 01 04.00 -2.0

0.5s 18.70nm 5.4mb
 WRA 57.32 183 P 01 05.20 -0.8
 0.9s 6.80nm 4.7mb

GBA 57.99 262 P 01 09.00 -1.8
 MAIO 60.39 295 eP 01 27.00 -0.4
 ASPA 61.04 184 iPc 01 29.80 -1.9

0.5s 12.20nm 5.3mb
 WARB 64.24 191 eP 01 52.00 -0.9
 RMO 64.67 169 eP 01 54.40 -1.3

YKA 64.94 29 eP 01 54.70 -2.4
 0.7s 1.00nm 4.1mb
 OBN 65.61 322 eP 02 04.00 2.5

1.9s 80.00nm 5.6mb
 e 02 05.50 5kmX

KAF 66.24 331 eP 01 56.00 -9.5X
 1.6s 66.90nm 5.6mb

NUR 67.85 330 eP 02 00.40 -15.2X
 1.1s 25.20nm

STK 69.26 176 eP 02 23.50 -1.1
 1.0s 1.60nm 4.1mb
 NB2 72.33 336 P 02 41.80 -1.2

1.2s 16.80nm 5.0mb
 LGPM 72.97 51 eP 02 47.54 0.3
 e 02 52.11 15km

LBFM 73.29 51 eP 02 49.53 0.3
 i 02 54.06 15km
 SES 73.79 38 eP 02 51.00 -0.7

ORV 74.58 52 eP 02 55.82 -0.6
 i 03 00.62 15km
 FCC 74.92 25 eP 03 00.50 2.5

CMB 76.19 53 eP 03 05.62 -0.1
 0.8s 17.73nm 5.2mb
 e 03 10.34 15km

LCCM 76.30 42 ePc 03 06.20 -0.1
 e 03 11.00 15km
 OJC 76.67 324 eP 03 08.20 0.1

i 03 13.10 16km
 KVN 76.99 51 eP 03 10.88 0.5
 i 03 15.63 15km

SPC 77.17 323 eP 03 12.30 1.1
 PHAM 77.50 54 eP 03 13.50 0.5
 e 03 17.85 14km

BONR 77.54 52 eP 03 13.61 0.1
 e 03 18.63 16km
 PKEM 77.55 54 (P) 03 15.05 1.8

HHA 77.67 44 eP 03 15.29 1.3
 e 03 19.86 15km
 KSP 77.82 326 ePc 03 14.60 0.1

TNP 78.13 51 iPc 03 17.32 0.6
 0.8s 24.37nm 5.3mb
 i 03 21.89 15km

HVU 78.43 46 eP 03 18.96 0.8
 e 03 23.48 14km
 BRG 78.82 327 e(P) 03 30.00 10.1X

CLL 78.90 328 iP 03 19.90 -0.4
 SRO 79.05 323 iP 03 21.30 0.1
 PRU 79.21 326 Pc 03 22.00 -0.1

e 03 26.80 15km
 ZST 79.35 324 eP 03 23.20 0.3
 DUG 79.43 47 iPc 03 24.32 0.6

0.8s 6.63nm 4.7mb
 i 03 28.80 14km
 TPNV 79.44 51 eP 03 23.92 0.1

0.8s 22.20nm 5.2mb
 e 03 28.67 15km
 BW06 79.57 43 iPc 03 23.44 -1.0

0.8s 13.98nm 5.0mb
 i 03 28.27 15km
 MOX 79.98 328 eP 03 26.50 0.3

1.8s 26.00nm 4.9mb
 GSC 80.13 53 eP 03 28.28 0.8
 i 03 32.36 13km

KHC 80.27 326 P 03 28.40 0.5
 1.2s 14.00nm 4.8mb
 e 03 33.00 15km

GEC2 80.43 326 P 03 28.50 -0.3
 1.0s 4.54nm 4.4mb
 e 03 33.50 16km

WET 80.57 327 eP 03 29.90 0.5
 ARUT 80.62 49 eP 03 30.48 0.4
 e 03 35.25 15km

ULM 80.78 31 eP 03 32.50 2.0
 GRF 80.87 328 iPc 03 31.70 0.7
 1.1s 37.00nm 5.3mb

e 03 36.40 15km
 MSU 80.90 48 iPc 03 30.32 -1.4
 ePcP 03 37.13

SRU 81.47 47 eP 03 34.74 0.2
 i 03 39.49 15km
 RSSD 81.55 40 eP 03 34.43 -0.5

0.6s 3.62nm 4.6mb
 KBA 81.90 325 iPc 03 37.70 1.1
 1.0s 18.00nm 5.1mb

VBY 82.18 323 eP 03 35.00 -2.8
 PV09 82.69 46 eP 03 41.34 0.3
 PV10 82.83 47 ePc 03 42.51 0.8

i 03 47.28 15km
 PV08 82.91 46 ePc 03 42.67 0.4
 i 03 47.31 15km
 CDF 83.50 329 eP 03 44.60 -0.1

GOL 0.9s 11.80nm 5.1mb
83.97 44 eP 03 47.95 0.4
GLD 84.02 43 eP 03 52.83 15km
1.2s 18.12nm 5.2mb
BSF 84.16 329 eP 03 47.70 -0.4
HAU 84.20 329 eP 03 47.70 -0.5
0.6s 4.70nm 4.9mb
LOR 85.79 330 eP 03 55.70 -0.5
1.0s 12.80nm 5.1mb
LBF 85.97 330 eP 03 56.60 -0.5
LPL 86.02 328 eP 03 57.60 -0.1
0.8s 5.10nm 4.8mb
LPG 86.03 328 eP 03 57.60 -0.2
1.0s 11.20nm 5.0mb
SSF 86.10 330 eP 03 57.40 -0.3
0.8s 10.90nm 5.1mb
LDF 86.18 333 eP 03 57.50 -0.6
SMF 86.30 330 eP 03 58.30 -0.4
AVF 86.38 330 eP 03 58.80 -0.3
0.9s 16.05nm 5.2mb
GRR 86.62 334 eP 04 00.00 -0.2
LPF 86.99 333 eP 04 02.00 0.0
0.9s 14.90nm 5.2mb
MAF 87.16 330 eP 04 03.10 0.2
1.4s 23.95nm 5.2mb
MFF 87.87 332 eP 04 06.40 0.1
1.3s 20.95nm 5.3mb
ZOB0 149.13 53 PKP 11 05.00 2.5
LPB 149.34 54 ePKP 11 09.00 6.5X
CNCB 149.62 54 PKP 11 04.70 1.6
CCH 151.21 52 ePKP 11 15.00 9.8X
SIV 153.05 42 PKP 11 12.50 5.0X
i 11 23.90

S.D. = 1.1 on 117 of 132 obs.

& FEB 15, 1993 17h 10m 59.97s
35.975 N 120 521 W
DEPTH = 11.2km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 2.8 (GM). ML 2.8
(PAS). 2.6 (GS).

PHAM 0.17 144 iPd 11 04.18 0.2
PKEM 0.34 75 ePc 11 08.88 1.7
BCH 0.86 156 ePd 11 16.25 -0.3
COE 1.58 324 ePn 11 27.47 -0.5
ARN 1.59 330 ePn 11 26.71 -1.5
ISA 1.69 100 ePn 11 28.56 -1.1
eS 11 49.00
MMPM 2.02 36 (P) 11 35.36 0.7
MTUM 2.09 48 ePn 11 35.97 0.4
eSg 12 01.33
MRCM 2.34 43 ePn 11 40.23 1.1
BONR 2.66 41 ePn 11 45.57 1.8
SSK 2.91 126 (P) 11 47.16 0.0
TNP 3.38 51 ePn 11 52.04 -1.8
ePg 12 04.00

12 obs. associated

& FEB 15, 1993 18h 04m 23.80s
38.785 N 122.753 W
DEPTH = 4.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.6 (BRK). Felt (IV)
of Middletown.

NTYM 0.40 170 ePd 04 31.89 0.0
ZSP 0.92 155 iPd 04 41.43 -0.6
eS 04 56.60
HMR 0.98 130 eP 04 42.52 -0.4
BKS 0.99 156 ePd 04 42.15 -1.1
eS 04 57.04
ORV 1.24 51 eP 04 45.61 -1.8
JEGM 1.29 170 eP 04 45.45 -2.8
PCC 1.32 167 eP 04 46.30 -2.4
eS 05 06.03
STAN 1.45 162 ePc 04 49.39 -1.5
eS 05 14.61
MHC 1.69 148 ePc 04 52.86 -1.5
eS 05 19.56
ARN 1.73 146 eP 04 52.61 -2.2
COE 1.75 150 eP 04 53.09 -2.0
WDC 1.80 5 ePn 04 54.55 -1.3
GCC 1.85 161 iPd 04 53.87 -2.7
KMPM 1.94 327 ePn 04 58.61 0.6
LMEM 1.97 27 eP 04 57.21 -1.3

CMB 2.01 111 ePc 04 57.65 -1.2
eS 05 24.26
LGPM 2.13 358 ePn 05 01.55 0.9
FHC 2.23 335 ePn 05 02.06 0.0
SAO 2.27 152 eP 05 00.10 -2.5
LBFM 2.64 14 ePn 05 09.13 1.0
MEMM 3.20 109 ePn 05 12.93 -2.9
PKEM 3.44 141 (Pn) 05 18.29 -1.0
MRCM 3.52 107 ePn 05 18.85 -1.8
BONR 3.60 102 ePn 05 20.23 -1.5
MTUM 3.60 112 ePn 05 21.55 -0.2
ePg 05 25.92
KVN 3.64 84 ePn 05 21.16 -1.1
ePg 05 29.77
TNP 4.40 97 ePn 05 32.86 -0.3
ePg 05 41.47
ISA 4.62 131 ePn 05 34.34 -1.8
TPNV 5.46 108 (Pn) 05 46.90 -1.3
ePg 06 00.33
ARUT 7.39 95 (Pn) 06 13.71 -1.6
ePg 06 37.11
MSU 8.28 89 eP 06 26.44 -1.4
SRU 9.53 84 (P) 06 43.14 -2.0
32 obs. associated

? FEB 15, 1993 18h 31m 48.25 ± 1.05s
6.485 N ± 30.5km 72.664 W ± 26.0km
DEPTH = 187.8 ± 21.7 km
3.9mb (2 obs.)

NORTHERN COLOMBIA (99)

BOG 2.32 217 eP 32 30.00 -0.1
eS 33 01.50
SDV 3.12 40 iPnc 32 39.10 -0.3
iSn 33 16.70
TOV 4.34 41 iPnc 32 54.30 -0.3
iSn 33 44.10
CEOS 4.98 59 iP 33 03.30 0.4
iS 34 00.10
OLLA 6.78 58 iP 33 26.80 0.4
eS 34 46.60
GOL 44.24 323 eP 39 42.50 1.6
1.0s 3.25nm 3.8mb
YKA 63.73 340 eP 42 00.10 -1.6
0.6s 1.40nm 4.0mb
WB2 150.56 240 ePKP 51 21.90 7.6X
0.4s 2.30nm

S.D. = 1.4 on 7 of 8 obs.

? FEB 15, 1993 18h 41m 56.04 ± 6.37s
39.205 N ± 48.2km 28.746 E ± 45.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

DST 0.41 347 iPg 42 03.50 -0.9
ALT 1.07 98 ePg 42 16.00 -0.3
eSg 42 29.00
KCT 1.09 344 ePn 42 16.70 0.3
YLV 1.44 19 ePn 42 22.80 0.5
S.D. = 1.1 on 4 of 4 obs.

% FEB 15, 1993 19h 07m 46.25 ± 2.35s
27.770 S ± 13.6km 67.621 W ± 13.8km
DEPTH = 198.0 ± 35.9 km
CATAMARCA PROVINCE, ARGENTINA (130)

FSA 2.21 41 iP 08 27.10 -0.1
S 08 57.00
RTPR 2.70 159 iPd 08 32.00 -0.7
RTRS 2.88 214 iPd 08 35.20 0.4
S 09 10.80
RTLL 3.62 192 iPc 08 43.50 -0.4
S 09 25.50
RTCB 3.84 195 iPd 08 46.70 0.1
S 09 28.20
CFA 3.86 188 ePc 08 46.90 0.1
S 09 30.00
RTCV 4.15 191 ePd 08 50.60 0.1
S 09 37.70
TCA 4.43 144 iPd 08 54.10 0.1
(S) 09 44.00
MRA 4.91 161 ePd 09 01.00 0.9
MDZ 5.21 191 e(P) 09 19.10 15.1X
RFA 7.02 186 ePc 09 26.80 -0.7
S 10 30.50
S.D. = 0.6 on 10 of 11 obs.

? FEB 15, 1993 19h 20m 06.86 ± 2.95s
45.902 N ± 15.7km 1.181 W ± 26.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 2.2 (LDG).

MFF 1.00 45 Pg 20 24.80 -1.1
Sg 20 39.00
LFF 1.66 125 Pg 20 35.50 -0.6
Sg 20 59.50
LSF 1.92 79 Pg 20 41.30 1.4
Sg 21 05.00
LPF 2.13 3 Pg 20 43.20 0.3
Sg 21 13.10
TCF 2.39 80 Pg 20 49.80 3.1X
Sg 21 21.30

S.D. = 1.9 on 4 of 5 obs.

? FEB 15, 1993 20h 14m 07.70 ± 2.49s
31.089 N ± 20.2km 90.225 E ± 35.2km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
XIZANG (306)

GUN 4.94 231 P 15 21.80 -0.1
0.5s 23.00nm
KKN 5.42 234 P 15 28.00 -0.6
0.5s 14.00nm 4.7mb X
PKI 5.47 231 P 15 28.80 -0.6
0.6s 23.00nm 4.9mb X
DMN 5.66 233 P 15 32.40 0.5
0.7s 25.00nm 4.9mb X
GKN 5.76 239 P 15 33.80 0.5
0.4s 13.00nm 4.9mb X
GBA 21.01 217 P 18 51.00 0.2
GEC2 58.81 311 P 24 05.10 -0.1
0.9s 0.65nm 3.8mb
e 24 08.00

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

& FEB 15, 1993 20h 31m 00.73s
65.659 N 151.760 W
DEPTH = 24.4km
NORTHERN ALASKA (676)
<AEIC>. ML 2.6 (AEIC).

IMA 0.89 298 ePc 31 16.93 -0.6
eS 31 28.78
NEA 1.57 133 eP 31 27.98 0.7
S 31 46.75
MDM 1.64 114 eP 31 27.75 -0.6
S 31 47.77
FBA 1.83 113 P 31 32.20 1.1
CCB 1.96 120 eP 31 33.73 0.8
eS 31 57.49
GLM 1.95 108 eP 31 33.77 0.8
eS 31 57.27
TRF 2.31 163 eP 31 36.77 -1.3
HDA 2.40 119 eP 31 42.00 2.8
eS 32 09.33
FYU 2.81 68 eP 31 45.94 1.0
S 32 21.74
SKT 3.70 178 eP 31 56.25 -1.4
10 obs. associated

? FEB 15, 1993 22h 31m 52.90 ± 2.19s
21.870 S ± 16.9km 68.301 W ± 25.7km
DEPTH = 141.4 ± 19.3 km
3.5mb (1 obs.)

CHILE-BOLIVIA BORDER REGION (124)

YJA 2.61 97 iPc 32 36.50 0.5
HJA 2.99 117 iPd 32 40.00 -0.4
CNCB 5.04 3 P 33 08.00 -0.2
LPB 5.31 2 eP 33 13.00 1.3
ZOB0 5.55 2 P 33 14.00 -1.2
SIV 9.00 51 iPd 34 00.80 -0.2
(S) 35 34.00
YKA 91.72 340 eP 44 45.00 0.1
0.6s 0.20nm 3.5mb
S.D. = 1.1 on 7 of 7 obs.
FEB 15, 1993 22h 39m 46.95 ± 0.31s
36.732 N ± 5.5km 141.939 E ± 4.3km
DEPTH = 34.0km (13 depth phases)
4.9mb (48 obs.) 4.5msz (6 obs.)

1.0s 28.00nm 4.8mb

NEAR EAST COAST OF HONSHU, JAPAN(228)							1.0s 28.00nm 4.8mb			0.5s 4.00nm 4.6mb		
KAKJ	1.52	250	P	40 11.80	-0.3		Z 14s 0.71um pP 45 37.00 40km 4.4MszX	Z 19s 0.32um LR 24 23.00 4.6Msz				
			S	40 33.70								
YAMJ	2.09	314	iPd	40 21.30	1.0		GZH 28.15 249 Pc 45 38.30 0.3	NB2 74.63 338 P 51 23.80 -0.4				
OFUJ	2.35	355	iP+	40 23.50	-0.6		LZH 30.53 280 eP 45 58.50 -1.0	0.9s 13.60nm 4.9mb				
NIUJ	2.41	283	P	40 26.50	1.7		1.4s 63.00nm 5.2mb	HVU 76.30 48 eP 51 34.95 0.7				
			S	41 00.40			Z 18s 1.67um 4.7Msz	i 51 45.44 34km				
CHJJ	2.47	255	P	40 25.80	0.1		E 15s 1.09um	DUG 77.23 49 eP 51 40.43 1.0				
			S	40 59.00			pP 46 10.00 43km	0.5s 1.47nm 4.3mb				
MAT	3.01	267	eP	40 35.00	1.6		IRK 30.60 313 eP 46 15.10 15.4X	i 51 50.74 33km				
			(S)	41 14.00			1.6s 19.00nm	BW06 77.57 46 eP 51 40.31 -1.1				
MTMJ	3.33	269	P	40 39.80	1.8		Z 14s 0.62um 4.4MszX	0.7s 2.69nm 4.4mb				
IIDJ	3.49	250	P	40 42.30	2.0		E 16s 0.55um	i 51 51.06 35km				
			eS	41 22.50			GYA 31.59 261 iPc 46 07.00 -1.8	DAU 78.04 48 eP 51 44.79 0.7				
AOMJ	4.01	343	eP	40 51.30	3.7X		1.0s 86.00nm 5.6mb	EMUT 78.68 49 eP 51 48.06 0.5				
TSRJ	4.97	258	P	41 03.10	1.9		Z 22s 0.82um 4.4Msz	e 51 59.12 36km				
MRRJ	5.72	354	eP	41 12.00	0.2		N 16s 0.79um	SRU 79.29 49 eP 51 50.93 0.1				
			eS	42 19.30			E 16s 1.07um	e 51 59.15 26km				
HO0J	5.74	10	P	41 09.40	-2.6		pP 46 16.80 35km	0.5s 1.92nm 5.0mb				
			eS	42 13.50			S 51 14.00	OJC 79.53 326 iP 51 52.10 0.5				
WKYJ	5.75	246	P	41 12.20	-0.1		CD2 32.10 271 eP 46 11.30 -1.9	e 52 02.00 31km				
KUSJ	6.70	18	eP	41 21.00	-4.6X		Z 14s 1.51um 4.8MszX	SPC 80.07 325 eP 51 55.00 0.2				
			eS	42 32.10			E 13s 0.48um	PV09 80.52 49 eP 51 57.90 0.4				
TKSJ	7.01	249	eP	41 29.50	-0.3		GTA 33.06 288 P 46 20.00 -1.5	KSP 80.58 329 iPc 51 57.60 0.4				
YONJ	7.04	260	eP	41 31.50	1.1		0.8s 37.00nm 5.3mb	PV10 80.66 49 eP 51 58.74 0.5				
ASAJ	7.40	4	eP	41 31.30	-4.0X		Z 15s 0.57um 4.4MszX	BRG 81.53 330 eP 52 06.80 4.7X				
SHK	7.85	257	eP	41 42.20	0.5		PcP 49 07.00	CLL 81.57 330 iPc 52 02.20 -0.1				
SHNJ	9.21	257	P	42 02.70	2.2		QIZ 33.19 247 Pd 46 23.70 1.0	1.1s 17.00nm 5.0mb				
KUMJ	10.06	249	P	42 12.10	-0.1		KMI 35.34 262 Pc 46 40.00 -1.4	SRO 81.95 325 e(P) 52 05.40 1.0				
KAGJ	10.71	242	eP	42 21.50	0.4		1.5s 110.00nm 5.6mb	PRU 81.96 329 P 52 05.50 1.1				
MDJ	12.23	314	eP	42 33.80	-7.8X		Z 18s 1.20um 4.7Msz	1.0s 9.20nm 4.8mb				
CN2	14.42	304	P	43 09.00	-1.5		N 13s 0.40um	e 52 10.50 16kmX				
	1.2s	13.00nm		4.4mb			E 13s 0.80um	ZST 82.21 326 eP 52 06.20 0.4				
	Z 16s	1.77um		4.4MszX			LOE 40.29 252 eP 47 22.00 -0.6	MOX 82.63 331 eP 52 08.30 0.4				
	N 14s	1.13um					WMQ 41.35 297 P 47 31.50 0.3	1.9s 28.00nm 5.0mb				
	E 14s	0.96um					1.2s 36.00nm 5.0mb	HMDT 82.88 305 iPd 52 10.60 1.1				
		eS	43 14.40				Z 20s 0.54um 4.4Msz	KHC 83.02 329 Pc 52 11.00 1.0				
SNY	15.10	295	Pc	43 18.30	-1.0		sP 47 45.00	1.0s 8.90nm 4.8mb				
	1.2s	23.00nm		4.3mb			CHTO 41.63 257 ePc 47 33.10 -0.5	e 52 21.00 32km				
	Z 14s	2.77um		3.4MszX			0.8s 12.26nm 4.7mb	GEC2 83.19 328 P 52 11.00 0.0				
	E 13s	1.55um					42.66 276 P 47 43.80 1.3	0.7s 2.65nm 4.5mb				
		pP	43 24.00				1.0s 20.00nm 4.8mb	e 52 15.80 15kmX				
		eS	46 07.00				44.26 252 eP 47 55.50 0.4	e 52 18.70				
DL2	16.20	284	eP	43 33.50	0.0		KHT 46.73 30 eP 48 14.39 0.0	e 52 22.20				
	0.8s	33.00nm		4.5mb			1.0s 5.00nm 4.4mb	WET 83.30 329 eP 52 12.50 1.1				
	Z 18s	1.46um		4.4Msz			e 48 25.10 37km	DSI 83.41 305 iPd 52 13.20 0.9				
	E 12s	1.34um					48 21.80 -0.2	GRF 83.54 330 iPc 52 13.60 1.0				
		S	46 32.00				48 33.10 10.5X	1.5s 68.00nm 5.6mb				
SSE	18.11	258	Pd	43 59.50	2.1		GUN 47.61 276 P 48 25.60 -0.5	Z 19s 0.10um 4.2Msz				
	1.0s	22.00nm		4.3mb			PKI 48.13 276 P 48 25.60 -0.5	e 52 18.90 17kmX				
	Z 20s	1.40um		4.7MszX			1.0s 66.00nm 5.6mb	BHG 84.41 328 eP 52 18.20 1.2				
	N 12s	0.80um					KKN 48.14 276 P 48 25.80 -0.2	SKO 84.68 320 iP 52 19.50 1.0				
	E 12s	0.70um					DMN 48.35 276 P 48 27.60 -0.1	1.2s 35.00nm 5.4mb				
NJ2	19.60	263	Pd	44 12.00	-3.2X		GKN 48.56 277 P 48 29.20 0.0	FUR 84.73 329 eP 52 19.50 0.9				
	Z 16s	2.38um					FBA 49.13 32 eP 48 32.86 0.0	MBH 84.88 303 iPd 52 20.30 0.5				
	E 13s	1.21um					0.8s 4.41nm 4.5mb	CDF 86.11 332 eP 52 25.70 0.1				
TIA	19.95	276	Pc	44 16.60	-2.4		IPM 49.28 239 ePc 48 34.00 -0.6	1.1s 18.30nm 5.2mb				
	Z 15s	1.75um					KSH 50.93 294 P 48 48.30 1.2	BSF 86.77 332 eP 52 28.50 -0.4				
	N 14s	0.70um					0.6s 30.00nm 5.4mb	0.9s 4.10nm 4.7mb				
	E 14s	1.48um					NDI 54.14 281 iPc 49 10.20 -0.9	HAU 86.80 332 eP 52 28.60 -0.3				
BJI	20.44	287	eP	44 20.00	-4.0X		WB2 56.82 189 eP 49 28.00 -2.4	LOR 88.34 333 eP 52 36.40 0.0				
	1.0s	22.00nm		4.5mb			i 49 38.60 35km	0.9s 7.70nm 5.0mb				
	Z 16s	0.88um		4.2MszX			WRA 56.82 189 P 49 29.10 -1.3	LBF 88.54 333 eP 52 37.00 -0.4				
	N 14s	0.41um					1.3s 3.10nm 4.2mb	FLN 88.56 336 eP 52 37.20 -0.1				
		eS	48 06.00				HYB 58.62 269 ePc 49 42.00 -1.3	0.5s 1.95nm 4.7mb				
TIY	23.48	281	eP	44 52.00	-2.4		1.0s 25.00nm 5.3mb	LDF 88.59 336 eP 52 37.40 -0.1				
	E 14s	1.51um					ASPA 60.55 188 iPc 49 54.00 -2.3	SSF 88.65 333 eP 52 37.90 0.1				
		S	49 07.00				0.7s 4.80nm 4.7mb	LPL 88.71 330 eP 52 38.10 -0.3				
WHN	23.74	263	Pd	44 56.00	-0.9		QUE 61.44 288 eP 50 01.60 -1.0	0.7s 2.45nm 4.6mb				
	1.0s	53.00nm		5.0mb			GBA 61.61 266 Pc 50 02.90 -0.8	LPG 88.71 330 eP 52 38.30 -0.2				
HHC	23.97	289	eP	44 56.20	-3.0		0.9s 6.00nm 4.7mb	SMF 88.87 333 eP 52 39.00 0.1				
	1.2s	32.00nm		4.7mb			BOM 62.44 274 iPd 50 07.90 -1.3	AVF 88.93 333 eP 52 39.30 0.1				
	Z 16s	1.19um		4.5MszX			YKA 63.86 30 eP 50 19.50 1.5	0.8s 5.65nm 4.9mb				
	N 14s	0.77um					1.0s 2.70nm 4.3mb	GRR 89.01 336 eP 52 39.60 0.1				
		eS	49 16.00				MAIO 64.13 297 eP 50 21.00 0.7	1.1s 11.70nm 5.1mb				
BTO	25.15	289	eP	45 07.00	-3.5X		SDF 65.45 337 iP 50 27.80 -0.4	LPF 89.38 336 eP 52 41.70 0.5				
	N 15s	0.66um					OBN 68.58 323 iPc 50 47.00 -1.2	TCF 89.77 333 eP 52 43.30 0.1				
	E 15s	0.53um					1.1s 23.00nm 5.2mb	LSF 90.05 334 eP 52 44.50 0.0				
		eS	49 25.00				i 50 55.00 26km	MFF 90.33 335 eP 52 46.10 0.4				
YAK	26.44	347	iPc	45 21.00	-1.1		e 51 04.00	0.8s 7.10nm 5.0mb				
	1.0s	160.00nm		5.6mb			KAF 68.77 333 eP 50 48.40 -0.8	CAF 90.99 333 eP 52 49.50 0.7				
	Z 14s	1.00um		4.5MszX			0.6s 8.60nm 5.0mb	LFF 91.46 334 eP 52 51.40 0.5				
	N 14s	0.60um					NUR 70.41 332 iP 50 58.60 -0.6	LPO 91.52 333 eP 52 51.80 0.6				
	E 14s	0.40um					0.4s 4.70nm 4.9mb	ZOBO 146.48 61 PKP 59 27.00 1.0				
		e	49 51.00				FCC 74.08 27 eP 51 22.00 1.0	LPB 146.67 61 ePKP 59 25.00 -1.0				
XAN	26.98	274	P	45 26.20	-1.3		APO 74.15 336 eP 51 20.10 -1.3	CNCB 146.94 61 PKP 59 29.50 2.9				

i 59 42.30
SOB1 152.48 6 (PKP) 59 28.00 -6.5x
S.D. = 1.1 on 115 of 127 obs.

% FEB 15, 1993 22h 57m 48.29 ± 1.08s
45.568 N ± 14.4km 9.823 E ± 5.5km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

MDI 0.22 340 Pc 57 53.20 0.1
eSg 57 56.10
SAL 0.50 85 P 57 58.50 0.2
eSg 58 06.00
VAI 0.80 292 P 58 03.50 -0.2
eSg 58 15.00
ORO 1.29 273 P 58 12.50 0.1
eSg 58 30.40
CTI 1.37 69 P 58 13.20 -0.2
eSg 58 30.50
S.D. = 0.3 on 5 of 5 obs.

? FEB 15, 1993 23h 46m 45.66 ± 0.97s
44.524 N ± 6.3km 7.274 E ± 10.8km
DEPTH = 5.0km (geophysicist)

NORTHERN ITALY (545)

ML 1.5 (GEN).

PZZ 0.13 261 P 46 48.39 0.0
S 46 50.14
STV 0.28 173 P 46 51.33 -0.1
S 46 55.27
ENR 0.32 161 P 46 52.11 0.1
S 46 56.29
BHB 0.32 359 P 46 52.06 0.0
S 46 56.41
S.D. = 0.1 on 4 of 4 obs.

* FEB 16, 1993 00h 16m 46.29 ± 1.01s
49.214 N ± 8.3km 6.938 E ± 9.8km
DEPTH = 10.0km (geophysicist)

GERMANY (543)

MD 2.1 (UCC).

RUP 0.49 9 ePg 16 56.11 -0.2
WLF 0.68 312 iPd 16 58.89 -0.9
iS 17 08.29
ABH 0.78 30 ePg 17 01.80 0.3
FEL 1.52 152 ePg 17 13.41 -0.2
DOU 1.76 301 iP 17 18.00 1.0
iS 17 37.30
S.D. = 1.0 on 5 of 5 obs.

FEB 16, 1993 00h 30m 47.34 ± 0.43s
28.291 N ± 9.4km 55.730 E ± 4.9km
DEPTH = 33.0km (normal)
4.2mb (16 obs.)

SOUTHERN IRAN (353)

DHR 5.35 250 eP 32 10.00 3.0
eS 33 40.00
MAIO 8.60 21 eP 33 06.00 13.5x
eS 34 29.00
RYD 8.91 249 eP 32 56.00 -0.8
iS 34 28.00
QUE 9.98 76 eP 33 12.80 1.1
e(S) 37 22.20
HYB 23.61 112 eP 35 56.00 -0.3
GKN 25.47 84 P 36 19.80 5.6x
KKN 26.06 84 P 36 20.00 0.2
PKI 26.20 84 P 36 20.80 -0.5
GUN 26.57 84 P 36 24.40 -0.3
GEC2 38.12 314 P 38 05.30 0.3
0.5s 1.36nm 4.0mb
e 38 16.20
KHC 38.28 315 P 38 07.60 1.3
1.4s 11.00nm 4.5mb
e 38 14.00
GRF 39.92 315 eP 38 21.50 1.6
LPG 42.08 308 eP 38 37.90 -0.1
0.5s 2.40nm 4.2mb
LPL 42.09 308 eP 38 37.60 -0.4
0.6s 3.05nm 4.2mb
CDF 42.16 312 eP 38 37.70 -0.7
BSF 42.38 311 eP 38 39.80 -0.4
0.5s 2.20nm 4.1mb
BCAO 42.56 243 ePd 38 40.00 -1.9
0.5s 3.00nm 4.3mb

HFS 42.61 330 eP 38 42.00 0.3
0.5s 1.60nm 4.0mb
Z 14s 86.00um 6.8mszx

HAU 42.70 311 eP 38 42.30 -0.5
NB2 44.12 331 P 38 54.00 -0.1
0.6s 1.30nm 3.9mb
LBF 44.16 309 eP 38 54.20 -0.4
SMF 44.22 309 eP 38 54.80 -0.2
0.4s 1.45nm 4.1mb
LOR 44.27 310 eP 38 54.90 -0.6
0.4s 1.15nm 4.1mb
SSF 44.49 310 eP 38 57.00 -0.2
0.7s 3.00nm 4.2mb
AVF 44.56 309 eP 38 57.20 -0.6
BGF 44.89 309 eP 39 00.10 -0.4
0.4s 1.90nm 4.3mb
MAF 45.06 308 eP 39 01.80 0.0
TCF 45.31 308 eP 39 03.80 0.0
0.5s 2.50nm 4.4mb
LDF 47.06 311 eP 39 17.20 -0.4
0.5s 3.85nm 4.7mb
FLN 47.31 312 eP 39 19.00 -0.6
0.5s 2.40nm 4.5mb
GRR 47.53 311 eP 39 21.90 0.6
LPP 47.63 311 eP 39 22.40 0.3
YKA 89.20 356 eP 43 41.70 0.9
0.9s 1.70nm 4.4mb
S.D. = 0.9 on 31 of 33 obs.

FEB 16, 1993 00h 43m 08.41 ± 0.49s
38.521 N ± 5.2km 21.390 E ± 3.2km
DEPTH = 15.1km (2 depth phases)
4.3mb (18 obs.)

GREECE (364)
ML 4.1 (TTG), 3.9 (THE), MD 4.0 (ATH).

VLS 0.72 242 iPg 43 22.80 0.7
AGG 0.89 55 ePg 43 24.62 -0.4
eSg 43 35.89
IGT 1.30 321 ePb 43 34.37 2.4
eSb 43 55.30
KEK 1.72 314 iPd 43 41.00 3.1
LIT 1.79 28 ePb 43 39.68 0.7
eSb 44 04.21
KZN 1.81 9 iPbd 43 41.80 2.5
ATH 1.91 106 ePb 43 39.80 -0.9
eSg 43 58.00
VLI 2.18 145 ePb 43 45.60 1.0
FNA 2.26 360 ePn 43 48.73 2.9
PAIG 2.27 51 ePn 43 44.92 -0.9
THE 2.43 29 ePn 43 48.12 0.0
eSn 44 21.00
GRG 2.55 17 ePn 43 51.06 1.1
OHR 2.63 350 iPd 43 54.10 3.1
i 43 58.00
i 44 36.10
i 44 42.10
OUR 2.70 47 ePn 43 51.82 -0.2
SOH 2.75 33 ePn 43 53.12 0.3
KNT 2.88 23 ePn 43 55.72 1.2
eSn 44 32.50
VAY 2.94 18 iPn 43 57.00 1.7
iSg 44 48.30
i 44 54.40
SRS 3.10 32 ePn 43 57.88 0.3
SKO 3.45 1 iPn 44 04.50 1.9
1.0s 246.00nm
iPg 44 13.00
iSn 44 44.00
iSg 44 59.00
LR 45 22.00
MMB 3.55 30 iPc 44 04.00 -0.1
KKB 3.58 21 iPd 44 05.00 0.5
ULC 3.81 335 iPnc 44 08.50 0.8
iSn 44 54.39
PRK 3.88 78 ePn 44 09.00 0.3
EZN 4.05 70 ePn 44 10.40 -0.7
RZN 4.06 38 eP 44 10.00 -1.5
TDS 4.09 288 P 44 14.40 2.7
eSn 45 04.00
RDO 4.13 49 ePn 44 13.00 0.8
ORI 4.13 293 P 44 14.20 1.9
eSn 45 05.70
PVY 4.21 346 iPd 44 15.39 1.9
iSn 45 06.66

SOI 4.22 266 P 44 15.60 2.0
eSn 45 04.70
TTG 4.23 338 iPnc 44 14.53 0.9
iSn 45 05.14
BDV 4.24 333 iPnd 44 14.01 0.2
iSn 45 04.15
VTS 4.30 18 iPc 44 26.00 11.2x
ALN 4.30 55 ePn 44 15.20 0.5
BAI 4.34 308 P 44 16.00 0.7
IVA 4.49 346 iPnc 44 19.45 2.0
iSn 45 13.53
HCY 4.50 332 iPnd 44 17.25 -0.2
iSn 45 09.69
PGB 4.55 27 eP 44 20.00 1.8
IZM 4.61 90 ePn 44 17.00 -2.2
NKY 4.66 338 iPnd 44 20.31 0.4
iSn 45 15.37
ATN 4.67 267 P 44 22.20 2.1
eSn 45 16.50
BRY 4.88 335 iPnc 44 22.67 -0.4
iSn 45 19.73
SGO 5.12 295 P 44 28.20 1.9
eSn 45 29.00
MNO 5.30 266 P 44 30.00 0.8
MEU 5.31 257 P 44 30.90 1.8
eSn 45 28.60
PVL 5.56 31 eP 44 30.00 -2.5x
DST 5.74 77 ePn 44 35.20 0.1
SDI 6.62 301 P 44 48.70 1.1
ALT 6.83 83 ePn 44 47.00 -3.6x
COZ 7.14 17 eP 44 57.00 2.1
AQU 7.19 305 P 44 56.80 1.2
MLR 7.74 24 eP 45 04.00 0.7
ASS 8.03 307 P 45 08.50 1.2
eSn 46 38.10
ARV 8.09 311 P 45 07.20 -0.9
UZD 8.33 347 ePn 45 08.80 -2.5x
VBY 8.34 329 iPnc 45 09.70 -1.8
iSn 46 44.10
VRI 8.34 27 eP 45 15.50 4.0x
CRE 8.76 309 P 45 16.00 -1.5
CEY 8.87 327 ePn 45 17.00 -1.9
eSn 46 56.50
SFI 8.98 310 P 45 20.70 0.3
LJU 9.07 328 eP 45 19.50 -2.1
eS 47 06.50
TRI 9.14 324 e(Pn) 45 19.70 -2.9x
e(Sn) 47 01.50
VOY 9.33 326 eP 45 23.50 -1.8
eS 47 07.90
PSZ 9.46 354 eP 45 25.60 -1.4
SRO 9.55 347 i(P) 45 36.80 8.6x
PII 9.70 306 P 45 31.00 0.7
RBL 9.79 326 P 45 30.50 -1.2
eSn 47 19.00
BDI 9.83 308 P 45 32.20 0.1
VVI 9.98 321 P 45 32.40 -1.8
FVI 10.26 325 P 45 37.10 -0.9
eSn 47 30.00
KBA 10.39 328 iPc 45 38.60 -1.3
iS 47 34.20
i 47 38.80
CTI 10.42 319 P 45 39.40 -0.9
SPC 10.70 356 eP 45 44.00 -0.1
BHG 11.09 329 eP 45 48.60 -0.8
WTTA 11.28 324 iPc 45 50.70 -1.5
iS 47 55.80
WATA 11.36 324 iPc 45 52.90 -0.3
iS 47 57.50
SOTA 11.45 323 iPd 45 53.30 -1.1
MOTA 11.59 323 iPc 45 54.50 -1.8
iS 48 02.70
GEC2 11.72 334 Pn 45 56.10 -1.8
Pg 47 04.50
Sn 48 08.50
Sg 48 28.70
KHC 12.00 335 eP 46 01.00 -0.8
e 46 10.50
e 47 15.50
ORO 12.22 310 P 46 03.20 -1.6
PRU 12.46 339 eP 46 10.00 2.1
LPG 12.92 307 eP 46 10.00 -4.3x
0.9s 8.50nm 4.9mb
LPL 12.94 307 eP 46 10.00 -4.5x
0.8s 7.10nm 4.9mb
GRF 13.33 330 e(P) 46 26.00 6.6x
MOX 13.96 333 e(P) 46 27.00 -0.7

16d 00h

CLL 14.09 338 eP 46 36.00 6.7X
1.3s 12.00nm 4.5mb
BSF 14.12 316 eP 46 28.50 -1.5
0.4s 2.25nm 4.2mb
CDF 14.22 319 eP 46 30.40 -0.8
0.6s 3.00nm 4.2mb
HAU 14.47 316 eP 46 33.80 -0.6
1.0s 14.60nm 4.5mb
SMF 15.24 308 eP 46 42.70 -1.8
0.7s 4.50nm 3.9mb
LBF 15.31 309 eP 46 43.90 -1.5
1.0s 11.80nm 4.2mb
LOR 15.51 310 eP 46 46.30 -1.7
0.9s 6.40nm 3.9mb
AVF 15.61 308 eP 46 47.00 -2.2
1.0s 11.60nm 4.1mb
SSF 15.63 309 eP 46 48.00 -1.6
0.9s 15.90nm 4.2mb
DOU 16.64 319 P 47 06.80 4.4X
0.7s 8.90nm 4.0mb
MFF 17.76 304 eP 47 15.30 -1.2
LDF 18.50 310 eP 47 25.90 0.3
FLN 18.79 310 eP 47 29.30 0.2
0.8s 7.00nm 3.9mb
LPF 18.84 308 eP 47 30.10 0.4
GRR 18.86 309 eP 47 30.20 0.2
OBN 19.51 27 eP 47 44.00 6.3X
e 48 07.00
UPP 21.49 355 iP 47 56.00 -2.3
HFS 22.18 350 eP 48 03.50 -1.6
0.4s 9.10nm 4.5mb
NB2 23.42 348 P 48 16.10 -1.3
0.7s 5.90nm 4.2mb
EKA 23.55 324 Pc 48 18.80 0.2
0.8s 10.40nm 4.4mb
KAF 23.81 6 iP 48 19.90 -1.2
BCAO 34.03 185 iPd 49 52.70 -1.2
0.6s 8.00nm 4.8mb
YKA 73.30 340 eP 54 38.70 -1.9
0.8s 1.10nm 4.0mb
PV08 90.59 323 eP 56 10.97 -0.8
pP 56 16.09 16km
PV10 90.94 323 eP 56 14.05 0.8
pP 56 18.66 14km

S.D. = 1.4 on 98 of 111 obs.

? FEB 16, 1993 00h 46m 25.99±0.95s
31.131 S ±12.0km 68.297 W ±10.0km
DEPTH = 153.0 ±13.3 km
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.0 (SAN).

RTLL 0.25 217 iPd 46 48.70 1.4
CFA 0.48 174 ePc 46 46.80 -1.1
RTCB 0.56 230 iPc 46 48.20 -0.1
RTBS 1.12 242 ePc 46 51.00 -1.3
RTRS 1.39 313 iPd 47 04.80 9.9X
S 47 31.50
RTPR 1.75 62 ePc 47 07.40 8.7X
MDZ 1.81 195 i(P) 46 48.50 -11.1X
JACH 2.49 231 iP 47 10.48 2.8X
iS 47 36.64
MRA 2.55 121 ePc 47 06.00 -2.3
S 47 33.30
FCH 2.77 217 iP 47 11.74 0.4
iS 47 39.79
PEL 2.85 225 iP 47 13.14 1.0
iS 47 41.67
ROCH 2.95 231 iP 47 15.27 1.7
iS 47 44.85
PCH 3.11 216 iP 47 15.31 -0.2
eS 47 45.24
TCA 3.18 95 iPc 47 18.90 2.5
S 47 55.00
TACH 3.36 221 iP 47 18.55 -0.2
iS 47 50.95
CHCH 3.43 215 iP 47 19.32 -0.3
CACH 3.56 213 eP 47 21.31 0.0
LCCH 3.63 229 iP 47 22.28 0.2
iS 47 56.34
RFA 3.63 182 iPd 47 09.10 -13.2X
S 47 37.80
LNV 3.85 222 iP 47 24.02 -1.0
iS 47 59.69
CNCB 14.26 1 P 49 42.00 -0.7

S.D. = 1.3 on 16 of 21 obs.

* FEB 16, 1993 00h 49m 33.63±1.83s
49.146 N ±19.4km 6.970 E ±11.6km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
mbLg 2.7 (UCC).

RUP 0.56 6 ePg 49 44.29 -0.7
WLF 0.74 314 iPd 49 47.47 -0.7
iS 49 56.99
TNS 1.44 41 ePhc 50 07.50 7.6X
eSn 50 19.70
ENN 1.76 338 ePn 50 06.00 1.7
0.5s 28.30nm
eSn 50 30.50
DOU 1.81 303 iP 50 04.90 -0.2
iS 50 29.00
GEC2 4.44 91 Pn 50 42.60 0.0
Sn 51 32.40

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

FEB 16, 1993 01h 03m 25.59±0.57s
19.196 N ±7.0km 120.975 E ±10.2km
DEPTH = 33.0km (normal)
4.5mb (9 obs.) 4.0Msz (1 obs.)
PHILIPPINE ISLANDS REGION (248)

BAG 2.80 188 ePd 04 11.30 2.2
1.1s 37.97nm
iS 04 50.00
QCP 4.53 179 eP 04 35.00 1.3
HKC 7.08 297 iP 05 06.70 -2.8
GZH 8.11 300 P 05 20.20 -3.7X
QIZ 10.52 271 P 05 54.50 -2.8
E 15s 1.39um
S 07 53.10
NJ2 12.94 352 Pc 06 34.40 4.6X
Z 16s 0.58um
GYA 15.04 301 P 06 56.40 -1.2
1.0s 12.00nm 4.1mb
Z 15s 0.88um 4.0Msz
KMI 17.88 293 eP 07 44.00 10.2X
Z 16s 1.20um
N 12s 0.30um
E 12s 0.50um
pP 07 47.50
KMI 17.88 293 eP 07 34.00 0.2
Z 16s 1.20um
N 12s 0.30um
E 12s 0.50um
pP 07 47.50
XAN 18.27 326 P 07 38.50 0.2
Z 16s 0.71um
pP 07 46.00
CD2 19.45 310 iPc 07 52.40 -0.1
0.9s 20.00nm 4.4mb
Z 15s 0.80um 4.3Msz
eS 11 19.00
TIY 19.90 340 eP 07 57.40 0.1
Z 16s 0.95um
N 15s 1.15um
CHTO 20.83 273 eP 08 08.10 1.1
BJI 21.18 350 eP 08 11.00 0.6
LZH 22.60 322 eP 08 25.60 0.8
1.5s 32.00nm 4.6mb
Z 18s 0.49um 4.0Msz
N 10s 0.23um
PP 08 54.00
eS 12 28.00
HHC 23.04 342 eP 08 30.00 1.0
N 15s 0.36um
BTO 23.31 339 eP 08 31.20 -0.4
CN2 24.82 8 eP 08 45.80 -0.3
Z 14s 0.59um 4.2MszX
GTA 27.19 322 eP 09 12.00 3.6X
Z 16s 0.57um 4.2MszX
GUN 33.23 292 P 10 03.00 0.7
KKN 33.74 291 P 10 07.20 0.6
DMN 33.87 291 P 10 08.40 0.6
GKN 34.33 292 P 10 12.00 0.4
WB2 41.05 161 iPc 11 05.40 -2.3
0.7s 5.20nm 4.4mb
GBA 42.05 269 P 11 18.00 1.9
ASPA 44.43 163 iPc 11 33.80 -1.5
0.7s 9.00nm 4.7mb
WARB 45.44 173 eP 11 43.00 -0.3
0.4s 6.00nm 4.9mb
STK 54.50 158 eP 12 50.90 -1.6

0.6s 2.60nm 4.4mb
MA10 56.14 301 eP 13 06.00 1.4
KSP 84.21 322 ePd 15 55.60 0.6
GEC2 86.56 321 P 16 07.10 0.2
0.8s 0.74nm 3.9mb
e 16 14.80
YKA 87.63 23 eP 16 11.10 -0.5
0.8s 9.30nm 5.1mb
S.D. = 1.3 on 28 of 32 obs.

? FEB 16, 1993 01h 11m 27.03±1.17s
13.447 N ±19.5km 89.334 W ±17.5km
DEPTH = 66.5 ±9.3 km
4.1mb (2 obs.)
EL SALVADOR (73)
Felt (III) at Son Salvador.

SJAS 0.27 37 iPd 11 37.10 -0.8
LFU 0.37 36 iPd 11 38.60 0.0
TME 0.57 358 iPd 11 41.10 0.7
YPE 0.75 333 iPd 11 43.50 0.8
CUSS 0.75 308 iPd 11 42.10 -0.5
iS 11 56.00
MIAR 21.35 350 eP 16 10.05 -0.6
0.7s 4.58nm 4.0mb
SIV 40.45 135 P 19 01.30 0.4
i 19 18.00
(S) 25 18.00
YKA 52.18 345 eP 20 28.50 -4.4X
0.9s 2.90nm 4.3mb
S.D. = 0.9 on 7 of 8 obs.

FEB 16, 1993 01h 26m 51.85±0.37s
55.444 N ±10.3km 160.176 E ±7.8km
DEPTH = 170.8km (10 depth phases)
4.5mb (14 obs.)
KAMCHATKA (217)

KUSJ 15.91 225 eP 30 24.70 -2.7
ASAJ 15.97 232 eP 30 31.80 3.6X
YAK 17.00 305 eP 30 40.80 0.2
0.8s 68.00nm 5.1mb
e 33 52.00
HOJ 17.08 227 eP 30 41.40 -0.3
TTA 23.24 53 eP 31 43.80 -0.6
0.9s 11.30nm 4.4mb
SVW 23.55 58 eP 31 48.50 1.1
MAT 24.11 228 eP 31 55.00 2.1
0.7s 27.40nm 4.9mb
BRW 24.20 32 eP 31 54.40 1.0
IMA 24.31 46 eP 31 53.68 -0.9
0.6s 9.90nm 4.6mb
eP 32 29.08 179km
CP2 25.15 57 eP 32 02.60 0.0
CRP 25.19 57 eP 32 02.89 0.0
FBA 26.77 48 eP 32 16.34 -0.7
0.5s 3.06nm 4.2mb
eP 32 50.90 168km
KLU 28.11 55 (P) 32 28.09 -1.1
YKA 41.42 44 eP 34 22.10 -0.2
0.5s 9.00nm 4.6mb
FCC 51.62 40 eP 35 44.50 2.3
TNP 55.76 71 eP 36 12.71 -0.3
0.4s 2.12nm 4.3mb
eP 36 51.68 169km
BW06 56.35 62 eP 36 16.09 -1.1
0.5s 2.97nm 4.4mb
eP 36 55.21 170km
ULM 57.19 48 eP 36 25.00 2.4
KAF 57.34 336 eP 36 22.80 -0.7
CHTO 58.45 257 eP 36 31.80 0.0
SRU 58.55 66 eP 36 32.59 0.0
eP 37 11.73 168km
PV09 59.73 65 eP 36 40.72 0.0
eP 37 21.34 174km
PV10 59.87 65 iPd 36 41.70 0.0
eP 37 22.11 173km
PV08 59.92 65 eP 36 41.43 -0.7
eP 37 20.94 169km
NB2 61.30 343 P 36 49.80 -0.9
0.5s 0.90nm 3.9mb
WMOK 67.90 61 eP 37 32.93 -0.6
0.8s 6.88nm 4.5mb
eP 38 13.85 171km
FVM 69.26 53 eP 37 41.02 -0.8
0.5s 11.03nm 4.9mb
eP 38 20.79 166km

HYB	71.11	273	eP	37	53.00	-0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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16d 03h

EKA	19.04	10 P	15 51.00	1.0	LNK	1.20	170 iS	17 48.98	1.2	KSR	9.08	105 eP	03 25.00	1.7
	1.0s	8.70nm	3.9mb				iPd	17 42.91				S	05 00.40	
RBL	19.18	52 P	15 46.40	11.6X	FCH	1.28	116 iS	17 53.45		FRS	9.38	131 eP	03 27.00	-0.3
KBA	19.30	51 iPc	15 44.20	7.9X			iP	17 43.50	0.4			S	05 05.00	
	1.1s	18.30nm	4.3mb		PCH	1.29	132 iS	17 54.81		PRY	9.83	110 eP	03 54.00	20.4X
GRF	19.37	42 eP	15 45.80				iP	17 42.19	-0.7			S	05 40.00	
Z	18s	0.20um			CHCH	1.44	144 iS	17 53.22		SLR	10.29	103 eP	03 35.00	-4.9X
		e	15 46.50				iP	17 44.05	-0.7			S	05 25.60	
VBY	19.96	56 e(P)	15 53.00	9.7X	CACH	1.61	147 iS	17 55.30		SEK	10.43	118 eP	03 41.00	-0.8
MOX	20.13	40 e(P)	15 54.70	9.7X			iP	17 46.98	-0.1			S	05 32.50	
GEC2	20.31	46 P	15 47.20	0.2	MDZ	2.37	94 e(P)	18 01.15		BUL	11.25	73 iPn	04 00.50	7.5X
	0.8s	1.69nm	3.5mb		RTCB	2.75	63 ePc	18 02.50	0.2			iSn	05 39.00	
		e	15 56.40				S	18 40.00				iSg	06 32.00	
		e	16 02.40		RTLL	3.07	63 ePd	18 06.50	-0.2	MTD	15.24	65 iPnc	04 45.00	-0.8
		e	16 07.20				S	18 45.20				iSn	07 00.00	
GEC2	20.31	46 e(P)	15 56.50	9.5X	TCA	6.17	79 iP	18 43.60	-6.2X			iSg	08 18.80	
	0.7s	8.20nm	4.2mb				S.D. = 0.8	on 11 of 16 obs.				S.D. = 1.5	on 5 of 8 obs.	
GEC2	20.31	46 e(P)	16 03.10	16.1X			& FEB 16, 1993 03h 37m 12.14s					* FEB 16, 1993 05h 10m 11.21± 1.68s		
	0.6s	6.20nm					63.254 N	150.922 W				6.745 S ±13.1km	156.231 E ±10.6km	
KHC	20.38	45 P	15 44.40	-3.2X			DEPTH = 18.3km					DEPTH = 186.7 ± 15.4 km		
	1.0s	23.20nm	4.5mb				CENTRAL ALASKA	(1)				4.6mb (9 obs.)		
PTJ	20.55	56 eP	15 59.50	10.0X			<AEIC>. ML 2.5 (AEIC), 3.1					SOLOMON ISLANDS	(193)	
CLL	21.23	40 e(P)	16 09.00	12.7X			(PMR).							
PRU	21.35	44 iPc	16 07.70	10.2X	TRF	0.35	55 eP	37 19.07	-0.6	SVO	4.28	124 eP	11 15.00	-1.7
	0.7s	10.20nm					S	37 25.14		PMG	9.36	253 eP	12 26.00	2.7
		e	16 09.80		HUR	0.65	115 eP	37 24.73	0.1			eS	14 07.00	
BRG	21.48	42 e(P)	16 10.00	11.2X	RND	0.95	80 eP	37 29.73	0.0	CTA	16.42	215 iPd	13 53.00	0.3
ZST	22.08	50 iP	16 16.20	11.4X			S	37 43.41				i	14 07.00	
VRAC	22.21	47 eP	16 16.40	10.3X	MCK	1.01	61 eP	37 31.04	0.2	DZM	18.15	148 iPc	14 13.10	0.8
	1.5s	154.40nm					S	37 44.05		RMQ	20.89	199 eP	14 40.90	0.8
UZD	22.50	55 eP	16 19.50	10.5X	SKT	1.31	193 eP	37 34.84	-0.7			5.00nm	4.2mb	
SRO	22.70	52 eP	16 19.80	8.9X			eS	37 51.70		ARMA	23.95	190 iPc	15 10.90	1.1
KSP	22.74	44 ePc	16 22.50	11.2X	NEA	1.56	31 eP	37 39.23	0.2			8.00nm	4.6mb	
BUD	23.05	53 eP	16 25.00	10.6X			S	37 59.73		WB2	24.96	236 iPc	15 18.00	-1.2
QHR	23.24	70 eP	16 14.00	-2.3	PWA	1.68	163 P	37 41.20	0.4			3.90nm	4.5mb	
		i	16 25.50		GHO	1.75	147 eP	37 41.94	0.0			ePcP	18 50.40	
SPC	24.38	50 eP	16 39.20	11.7X			eS	38 05.35		CMS	26.47	200 eP	15 32.00	-0.9
VAY	24.58	69 iP	16 39.40	10.2X	SUA	1.80	177 eP	37 43.52	0.9			7.00nm	4.5mb	
LKO	27.13	174 P	16 52.24	-1.0			eS	38 07.92		ASPA	27.26	230 eP	15 38.00	-2.2
HFS	27.49	24 eP	17 05.40	9.3X	PLRM	1.86	153 eP	37 43.66	0.2			27.50nm	5.4mb	
	0.5s	2.40nm	4.1mb		PMR	1.86	153 eP	37 43.50	0.0			epP	15 43.00	18kmX
KIC	30.36	172 P	17 21.00	-1.2	SML	1.88	139 eP	37 43.76	0.0			eS	20 02.10	
BCAO	40.60	136 iPd	19 02.10	12.6X	CCB	1.96	43 eP	37 43.25	-1.6	STK	28.50	207 eP	15 50.00	-1.2
	1.0s	10.00nm			CRP	2.08	197 eP	37 45.59	-1.1			1.60nm	4.0mb	
LMN	42.48	301 eP	19 08.50	3.9X			eS	38 11.62		WARB	34.18	232 eP	16 39.00	-1.8
FCC	57.31	322 eP	21 02.00	4.2X	CPAM	2.09	196 eP	37 46.34	-0.5	MNG	37.87	156 P	17 12.10	0.5
ULM	61.31	313 eP	21 28.50	3.0X	CP2	2.09	198 eP	37 46.16	-0.8			23.00nm	5.2mb	
YKA	64.95	330 eP	21 48.80	-0.6			eS	38 11.84		LTZ	38.59	161 P	17 18.70	1.1
	0.9s	2.40nm	4.3mb		HDA	2.11	55 eP	37 48.06	1.1			11.00nm	4.9mb	
SIV	72.05	233 iP	22 40.00	5.9X	BGL	2.11	200 eP	37 47.04	-0.2	BWZ	39.48	165 eP	17 25.10	0.3
BW06	73.17	311 eP	22 40.26	-0.4	PMS	2.12	162 P	37 48.00	0.8			8.00nm	4.7mb	
	0.8s	2.61nm	4.3mb		CKN	2.12	197 eP	37 47.27	0.0	MQZ	39.54	161 eP	17 26.10	0.8
IMA	74.12	346 eP	22 47.40	1.8	CKT	2.15	197 eP	37 47.28	-0.4	GUN	76.04	301 P	21 39.60	-0.8
	0.9s	2.71nm	4.2mb		SPU	2.15	195 eP	37 47.05	-0.6	KKN	76.52	301 P	21 42.80	-0.1
PV08	74.99	307 eP	22 52.69	1.2	FBA	2.15	38 eP	37 51.30	3.7	DMN	76.62	300 P	21 43.80	0.3
		e	23 04.48		CKL	2.17	198 eP	37 47.63	-0.4	GKN	77.13	301 P	21 46.20	0.1
PV10	75.36	307 eP	22 54.72	1.3	SCM	2.19	129 eP	37 49.10	0.8	GEC2	127.47	330 PKP	28 56.80	1.2
		e	23 08.51		TTA	2.34	264 eP	37 46.95	-3.4			1.53nm		
SRU	75.88	308 eP	22 57.54	1.2	PAX	2.49	94 eP	37 53.52	0.9	BAO	147.29	133 ePKP	29 35.80	3.3X
WRA	143.62	73 PKP	30 56.00	11.4X	PTE	2.56	159 eP	37 54.40	1.0			e	29 38.00	
	1.0s	0.60nm			SDG	2.57	104 eP	37 53.93	0.3			S.D. = 1.3	on 20 of 21 obs.	
WB2	143.62	73 ePKP	30 54.70	10.1X	SLKM	2.78	173 eP	37 57.02	0.5			FEB 16, 1993 05h 26m 04.47± 0.57s		
	0.6s	3.10nm			DFR	2.80	198 eP	37 56.78	-0.1			40.124 S ± 5.0km	176.888 E ± 7.1km	
ASPA	145.29	79 ePKP	30 57.60	10.2X	NCT	2.86	200 eP	37 57.84	0.0			DEPTH = 28.2km (4 depth phases)		
		S.D. = 1.4	on 110 of 154 obs.		MPA	2.87	164 eP	37 58.71	0.9			4.7mb (6 obs.)		
		* FEB 16, 1993 03h 17m 19.35± 3.03s			RDW	2.92	199 eP	37 57.96	-0.8			NORTH ISLAND, NEW ZEALAND	(159)	
		32.769 S ±11.0km	71.666 W ±23.2km		KLU	2.92	125 eP	37 59.65	1.0			ML 5.0 (WEL).		
		DEPTH = 90.0 ± 26.4 km			RSO	2.93	198 eP	37 58.82	-0.1					
		NEAR COAST OF CENTRAL CHILE	(135)		VLZ	3.03	133 eP	38 00.74	0.8					
		MD 3.9 (SAN).			IMA	3.06	338 eP	37 57.07	-3.6					
							eS	38 39.88						
IHA	0.26	175 iPd	17 32.20	-0.5	SVW	3.08	228 (P)	37 59.98	-0.9	TEHZ	0.15	336 P	26 10.70	0.7
		iS	17 41.40				eS	38 43.27		THH	0.58	355 P	26 16.70	0.6
ROCH	0.59	110 iP	17 39.54	4.2X	ILIM	3.33	198 eP	38 05.26	0.8	WAHZ	0.59	316 Pc	26 16.20	-0.1
		iS	17 47.98		GLB	3.78	116 eP	38 12.46	1.6	TAHZ	0.99	353 eP	26 23.10	0.5
LCCH	0.71	173 iPd	17 40.02	3.9X			41 obs. associated			MOH	1.01	12 P	26 22.70	0.0
		iS	17 48.33				? FEB 16, 1993 04h 01m 11.29± 2.85s			MNG	1.18	245 P	26 26.50	1.3
PEL	0.91	115 iP	17 39.60	1.3			23.825 S ±18.7km	17.151 E ±31.6km				eS	26 41.80	
		iS	17 48.71				DEPTH = 33.0km (normol)							
JACH	0.91	85 iP	17 43.68	5.3X			NAMIBIA	(578)		MAHZ	1.21	40 P	26 25.60	0.0
		iS	17 55.08							PAHZ	1.27	6 P	26 26.40	0.0
TACH	1.07	145 iP	17 39.90	-0.3						DRZ	1.33	309 P	26 28.60	1.1
SAN	1.08	129 iPd	17 39.93	-0.4						NGZ	1.37	313 P	26 28.60	0.6
										CNZ	1.39	311 P	26 28.80	0.6
										MTW	1.48	225 P	26 29.80	0.4
										BSZ	1.54	282 P	26 32.00	1.7
										BLW	1.64	220 P	26 32.10	0.3
										KIW	1.68	243 P	26 33.10	0.8

CAW	1.70	234	P	26	32.90	0.3				Sg	26	59.46			eS	03	32.80			
NOZ	1.75	31	P	26	32.20	-1.1	TNS	1.46	42	ePnd	26	44.20	1.8	MUN	1.23	182	eP	03	42.00	-0.3
MOW	1.80	223	P	26	33.70	-0.3				eSn	27	02.20			eS	03	58.00			
URZ	1.87	5	P	26	34.00	-1.1	FEL	1.47	150	ePg	26	42.35	-0.2	MRWA	1.54	352	iPd	03	47.10	0.1
			eS	26	55.50		ENN	1.74	339	iPnc	26	48.30	1.9		eS	04	06.00			
TAZ	1.91	351	P	26	35.50	-0.2		0.7s	41	iPnm	27	12.80		KLB	1.55	123	eP	03	47.70	0.6
WEL	1.99	234	P	26	36.90	0.1				iSn	27	12.80			eS	04	07.00			
			eS	27	01.60		DOU	1.79	303	iP	26	46.60	-0.5	S.D. = 0.8 on 4 of 4 obs.						
MRW	2.00	236	P	26	36.70	-0.2				i	26	49.80		FEB 16, 1993 07h 04m 54.70±3.52s						
TCW	2.27	240	P	26	40.40	-0.3				iS	27	07.00		33.086 S ±12.3km 70.807 W ±10.7km						
PUZ	2.31	28	eP	26	39.20	-2.2	SNF	2.19	310	iP	26	52.20	-0.6	DEPTH = 75.6 ± 33.9 km						
DIW	2.36	252	P	26	42.00	-0.2	GRF	2.86	77	ePg	27	10.50	8.1X	CHILE-ARGENTINA BORDER REGION (127)						
NRZ	2.41	288	eP	26	44.60	1.8				eSg	27	46.30		MD 3.0 (SAN).						
WLZ	2.47	335	eP	26	43.10	-0.5	KHC	4.37	88	eP	27	24.00	0.2							
CCW	2.60	230	P	26	45.10	-0.4				e	27	38.50		PEL	0.12	120	iP	05	06.03	0.0
HBZ	2.75	24	eP	26	45.90	-1.7				e	28	15.00			iS	05	14.47			
QRZ	3.40	257	P	26	55.70	-1.2				eSg	28	33.50		ROCH	0.21	303	iPd	05	06.32	-0.1
KHZ	3.41	227	P	26	54.80	-2.2	GEC2	4.47	91	Pn	27	24.70	-0.6		iS	05	15.39			
			S	27	34.30					Pg	27	45.00		JACH	0.44	24	iPd	05	07.75	-0.1
THZ	3.43	240	P	26	56.00	-1.4	S.D. = 0.8 on 19 of 20 obs.								iS	05	17.58			
KUZ	3.49	344	P	26	57.10	-1.1				Sg	28	16.80		FCH	0.50	119	iPd	05	08.76	0.2
DSZ	4.18	246	eP	27	05.80	-2.2	? FEB 16, 1993 06h 50m 00.44±0.77s								iS	05	19.57			
LTZ	4.37	231	P	27	07.90	-2.8	27.396 N ±13.8km 129.587 E ±15.2km							TACH	0.58	191	iP	05	08.88	-0.1
			S	27	56.40		DEPTH = 33.0km (normal)								iS	05	20.26			
MOZ	4.78	220	eP	27	12.70	-3.6X	4.7mb (14 obs.)							PCH	0.59	155	eP	05	09.21	0.1
			eS	28	04.60		RYUKYU ISLANDS (238)								iS	05	19.77			
EWZ	5.64	231	eP	27	26.00	-2.5								LCCH	0.75	238	iPd	05	11.05	0.3
ODZ	6.74	221	eP	27	40.60	-3.4X									iS	05	23.56			
			S	28	52.80		SSE	8.21	299	eP	52	06.50	6.3X	CHCH	0.86	171	iP	05	11.92	-0.1
BWZ	6.81	227	eP	27	41.10	-3.9X	Z 20s			0.90um					iS	05	25.23			
LSCZ	7.46	226	eP	27	49.90	-4.7X	NJ2 10.42 299 Pc				52	38.10	7.5X	LNV	1.00	210	iPd	05	13.58	-0.2
MHZ	7.47	226	eP	27	49.90	-4.5X	Z 14s			0.59um					iS	05	27.94			
SBCZ	7.47	226	eP	27	49.80	-4.6X	CN2 16.71 350 eP				54	06.00	12.5X							
MMCZ	7.52	227	P	27	50.80	-4.3X	Z 12s			0.67um				S.D. = 0.2 on 9 of 9 obs.						
CMCZ	7.53	226	eP	27	50.80	-4.4X	BJ1 16.81 322 eP				54	01.00	6.2X	FEB 16, 1993 07h 34m 45.52±1.31s						
			eS	29	12.90		Z 12s			0.42um				38.041 N ±26.0km 14.173 E ±7.7km						
TLC	7.67	226	eP	27	53.20	-4.0X	TIY 17.72 310 eP				54	09.10	2.8	DEPTH = 10.0km (geophysicist)						
DZM	20 07	331	iPc	30	37.90	-0.6	Z 12s			0.96um				SICILY (398)						
BRS	23.65	295	iPd	31	15.50	1.3	N 13s			0.67um				GIB	0.13	246	P	34	47.10	-1.6
			e	31	24.00	30km	E 13s			0.48um					eSg	34	49.30			
TOO	24.52	266	eP	31	25.30	2.6					57	33.00		MNO	0.43	105	P	34	54.20	-0.1
	0.6s	15.00nm			4.7mb		CD2 22.81 285 eP				55	07.80	6.2X		eSg	35	01.80			
STK	29.56	275	eP	32	09.00	0.0	LZH 23.49 298 eP				55	17.50	9.2X							
	0.6s	3.10nm			4.3mb		1.2s			18.00nm					eSg	35	08.00			
ASPA	39.60	281	iPc	33	33.90	-1.3	Z 15s			0.49um			4.5mb	MCT	0.59	226	P	34	58.00	0.4
	0.6s	8.10nm			4.6mb		E 10s			0.23um			4.1mszx	ATN	1.02	83	Pc	35	04.70	-0.2
WB2	41.48	286	iPc	33	49.20	-1.4	KM1 24.17 271 eP				55	15.50	0.5		eSg	35	20.50			
	0.3s	8.50nm			5.0mb		0.8s			20.00nm			4.7mb	CVT	1.15	252	P	35	08.00	1.0
WRA	41.49	286	P	33	50.20	-0.5	pP				55	22.50	25kmX	SOI	1.49	88	P	35	12.60	0.4
	0.5s	1.10nm			3.8mb		GTA 27.47 303 eP				55	51.50	5.9X	S.D. = 1.1 on 6 of 6 obs.						
SPA	50.06	180	iPd	35	01.30	2.8	1.2s			10.00nm			4.4mb	FEB 16, 1993 07h 58m 24.28±1.19s						
	0.8s	12.50nm			5.0mb		GUN 38.56 281 P				57	22.00	-0.4	41.389 S ±5.6km 172.886 E ±6.4km						
LIC	146.21	177	PKP	45	44.98	1.9	0.4s			10.00nm			5.0mb	DEPTH = 148.9 ±13.1 km						
	0.6s	9.50nm					PK1 39.03 281 P				57	25.40	-0.9	SOUTH ISLAND, NEW ZEALAND (162)						
KIC	146.35	177	PKP	45	45.46	2.1	KKN 39.11 281 P				57	26.00	-0.8	THZ	0.38	178	Pc	58	45.00	0.1
	0.8s	18.50nm					DMN 39.29 281 P				57	28.00	-0.4		S	58	58.30			
TIC	146.62	177	PKP	45	46.00	2.2	0.8s			19.00nm			4.9mb	QRZ	0.62	334	Pc	58	46.00	-0.4
LKO	149.47	175	PKPd	45	53.88	5.6X	GKN 39.63 282 P				57	30.00	-1.1							
	0.6s	13.50nm					0.6s			26.00nm			5.2mb	DSZ	0.89	246	P	58	47.90	-0.4
OBN	149.80	313	ePKP	45	59.00	11.5X	WRA 47.28 174 P				58	33.20	0.5							
			e	46	26.00		0.6s			2.10nm			4.3mb	DIW	0.98	54	P	58	49.30	0.3
S.D. = 1.4 on 47 of 58 obs.							WB2 47.28 174 eP				58	32.60	-0.1	CCW	1.06	110	P	58	49.70	0.0
FEB 16, 1993 06h 26m 15.94±0.37s							0.7s			7.90nm			4.8mb	TCW	1.06	81	P	58	50.00	0.3
49.150 N ±3.2km 6.927 E ±4.1km							CTA 49.89 159 iPc				58	54.00	1.1	KHZ	1.14	155	P	58	50.90	0.5
DEPTH = 10.0km (geophysicist)							ASPA 50.93 175 iPd				59	00.60	-0.2		S	59	07.80			
GERMANY (543)							0.4s			5.90nm			4.9mb	MRW	1.38	84	Pc	58	52.80	0.0
mbLg 2.9 (UCC). ML 2.8 (STR).							KAF 72.07 331 iP				01	30.80	7.9X		S	59	12.40			
							0.7s			8.90nm			4.9mb	LTZ	1.47	198	P	58	54.20	0.4
							NUR 73.48 330 iP				01	39.60	8.4X			S	59	14.10		
							0.5s			6.70nm			4.9mb	KIW	1.62	72	P	58	55.30	-0.1
							YKA 76.96 25 eP				01	50.30	-0.7							
							0.6s			0.20nm			3.3mb X	CAW	1.67	81	P	58	55.80	-0.1
							HFS 78.35 333 eP				01	57.30	-1.4							
							0.4s			1.20nm			4.3mb	MOW	1.78	92	P	58	56.90	-0.3
							NB2 78.80 334 P				02	09.00	7.7X	BLW	1.95	90	P	58	58.80	-0.3
							0.9s			8.00nm			4.7mb	MTW	1.98	84	P	58	59.20	-0.3
							GEC2 85.00 323 PKP				02	34.90	1.1	MNG	2.11	69	P	59	00.70	-0.3
							1.0s			1.43nm			4.1mb		S	59	27.20			
										e			02 43.60	BSZ	2.22	45	eP	59	03.20	0.8
							S.D. = 1.2 on 14 of 24 obs.							MOZ	2.32	184	P	59	03.40	-0.2
							? FEB 16, 1993 07h 03m 19.48±1.16s								S	59	29.50			
							30.747 S ±8.2km 116.246 E ±11.7km							CNZ	2.99	44	eP	59	12.20	0.1
							DEPTH = 10.0km (geophysicist)							NGZ	3.03	44	eP	59	12.70	0.0
							WESTERN AUSTRALIA (590)							BWZ	3.84	214	eP	59	20.80	-2.2X
							BAL 0.42 71 iPd							03 27.70	-0.4	S.D. = 0.4 on 19 of 20 obs.				
															FEB 16, 1993 08h 18m 11.21±2.66s					
															47.710 N ±14.6km 146.900 E ±10.8km					

16d 08h

DEPTH = 396.1 ± 32.3 km 3.9mb (8 obs.)					IHA 1.58 303 eP 24 29.00 2.3					BWA 28.65 243 iPc 18 12.20 -1.4				
NORTHWEST OF KURIL ISLANDS (220)					RFA 1.59 124 iPc 24 26.70 -0.3					CMS 30.43 250 iPc 18 29.10 0.2				
										CTA 31.16 272 iPKPd 18 35.00 -0.2				
										e(SKS)29 45.00				
MAT 12.88 213 eP 21 03.00 -0.2					RTCV 2.40 33 ePc 24 41.70 3.0					TOO 31.64 238 iPc 18 40.10 1.0				
IMA 35.56 37 eP 24 34.00 0.2					RTCB 2.62 24 eP 24 47.00 5.0X					0.5s 25.00nm 5.1mb				
1.0s 5.00nm 3.8mb														
FBA 38.06 39 ePc 24 54.80 0.5					RTLL 2.88 28 eP 24 50.20 4.6X					TAU 32.02 228 iPc 18 43.50 1.3				
1.0s 6.50nm 3.9mb										BFD 33.85 240 eP 18 58.70 1.1				
GUN 50.73 270 P 26 34.40 -0.3										0.8s 12.00nm 4.6mb				
KKN 51.21 270 P 26 38.80 0.7					MRA 3.94 69 e(P) 25 00.80 0.3					STK 34.06 249 iPc 19 00.00 0.6				
PKI 51.27 270 P 26 38.80 0.2					TCA 5.27 63 eP 25 18.50 -1.0					0.5s 13.30nm 4.8mb				
DMN 51.45 270 P 26 40.60 0.8					(S) 25 42.00					ASPA 41.55 262 eP 20 00.20 -0.5				
GKN 51.51 271 P 26 39.80 -0.4					S.D. = 1.2 on 17 of 19 obs.					0.6s 11.60nm 4.6mb				
0.4s 5.00nm 4.2mb										WB2 42.00 267 eP 20 03.30 -0.9				
YKA 52.64 35 eP 26 47.00 -0.8					? FEB 16, 1993 09h 04m 37.42± 0.95s					0.5s 18.10nm 4.9mb				
0.5s 0.60nm 3.2mb					27.525 N ±15.8km 129.568 E ±19.5km					FORT 45.66 251 eP 20 31.50 -1.1				
NB2 65.85 338 P 28 16.00 -1.1					DEPTH = 33.0km (normal)					WARB 47.55 257 eP 20 45.30 -1.8				
0.5s 1.40nm 3.9mb					4.3mb (5 obs.)					CHJJ 71.74 326 P 23 26.40 -1.1				
BW06 67.51 51 ePc 28 28.10 0.3					RYUKYU ISLANDS (238)					IIDJ 71.85 325 eP 23 26.80 -1.5				
1.0s 7.50nm 4.4mb										MAT 72.52 326 iPd 23 30.50 -1.6				
WRA 68.28 193 P 28 32.00 -0.3										0.7s 22.60nm 4.8mb				
0.6s 1.10nm 3.7mb										MTMJ 72.76 326 P 23 32.50 -1.0				
RSSD 69.34 47 eP 28 39.40 0.5										TSRJ 72.91 324 P 23 33.80 -0.5				
0.6s 1.81nm 3.9mb										ADK 76.50 2 (P) 23 52.43 -1.4				
S.D. = 0.7 on 13 of 13 obs.										0.9s 29.17nm 4.7mb				
FEB 16, 1993 08h 21m 54.45± 0.84s										MDJ 82.90 327 eP 24 27.90 0.6				
41.424 N ±10.0km 20.370 E ± 7.5km										CN2 84.48 324 eP 24 34.60 -0.5				
DEPTH = 10.0km (geophysicist)										1.0s 23.00nm 4.8mb				
ALBANIA (391)										TIA 84.67 314 eP 24 37.10 0.8				
ML 2.5 (TTG), 2.3 (SKO).										TNP 86.18 45 eP 24 45.00 1.2				
										0.9s 3.52nm 4.1mb				
OHR 0.45 134 iPg 22 02.60 -1.0										XAN 89.08 308 P 24 58.00 0.8				
SKO 0.97 55 iPg 22 13.80 0.9										1.0s 18.00nm 5.0mb				
0.4s 29.00nm										RMW 89.20 35 eP 24 58.31 0.8				
ULC 1.00 303 iPgd 22 12.82 -0.6										CHTO 89.71 291 eP 25 01.80 1.5				
PVY 1.21 346 iPgd 22 14.96 -2.1										0.9s 9.80nm 4.7mb				
1.0s 22.20nm										1.0s 14.00nm 4.9mb				
TTG 1.30 321 iPgc 22 17.80 -0.7										SRU 91.12 47 eP 25 07.61 0.9				
BDV 1.44 307 iPgd 22 20.62 0.1										CD2 91.34 304 Pc 25 09.30 1.6				
1.0s 22.38nm										1.0s 20.00nm 5.1mb				
IVA 1.49 347 iPgc 22 20.44 -0.9										F8A 92.98 13 eP 25 13.50 -0.9				
1.0s 22.43nm										0.9s 4.17nm 4.6mb				
VAY 1.66 93 ePn 22 24.30 0.6										LZH 93.71 308 eP 25 19.50 0.8				
NKY 1.72 324 iPnd 22 25.71 1.0										1.2s 18.00nm 5.1mb				
1.0s 22.50nm										N82 143.00 351 PKP 31 28.00 -3.6X				
HCV 1.73 307 iPnc 22 25.99 1.2										1.0s 20.10nm				
1.0s 22.51nm										HFS 143.44 348 ePKP 31 29.00 -3.3X				
BRY 2.01 318 iPnc 22 29.80 0.9										0.3s 24.00nm				
1.0s 22.58nm										Z 17s 162.00um 7.9mszX				
PLE 2.04 340 iPnd 22 29.74 0.5										LR 23 03.00				
1.0s 22.57nm										EKA 149.52 3 PKP 31 48.00 5.8X				
S.D. = 1.1 on 12 of 12 obs.										1.0s 7.40nm				
FEB 16, 1993 08h 23m 58.74± 0.67s										KSP 151.08 338 iPKPd 31 51.80 7.1X				
33.889 S ± 6.9km 70.063 W ± 4.4km										i 32 01.40				
DEPTH = 10.0km (geophysicist)										e 35 44.00				
CHILE-ARGENTINA BORDER REGION (127)										CLL 151.69 342 iPKP 32 03.30 17.7X				
MD 4.1 (SAN).										0.8s 13.00nm				
PCH 0.46 305 iP 24 08.28 0.1										CLL 151.69 342 iPKP 31 52.90 7.3X				
CHCH 0.49 265 iPd 24 08.84 0.1										0.8s 26.00nm				
1.0s 24.16nm										WTS 152.38 350 ePKP 31 54.50 8.0X				
CACH 0.50 243 iP 24 08.88 0.0										0.7s 15.10nm				
1.0s 24.16nm										PRU 152.39 339 ePKP 31 54.70 8.1X				
FCH 0.59 341 iPd 24 10.05 -0.9										KHC 153.45 339 ePKP 31 57.00 8.8X				
1.0s 24.19nm										e 32 12.00				
SAN 0.66 311 eP 24 10.97 -1.0										GRF 153.64 343 ePKP 32 13.00 24.6X				
TACH 0.77 288 iPd 24 13.69 0.0										GEC2 153.66 339 PKP 31 57.30 8.8X				
1.0s 24.25nm										0.9s 2.57nm				
PEL 0.91 325 iPd 24 15.86 -0.3										S.D. = 1.1 on 68 of 79 obs.				
1.0s 24.29nm														
LNv 1.12 266 iPd 24 19.56 -0.2										FEB 16, 1993 09h 14m 31.12± 0.43s				
1.0s 24.35nm										43.096 N ± 5.5km 0.615 W ± 2.8km				
ROCH 1.21 319 iPd 24 21.18 -0.3										DEPTH = 5.0km (geophysicist)				
1.0s 24.38nm										PYRENEES (378)				
JACH 1.28 340 iP 24 22.09 -0.5										ML 1.0 (STR).				
1.0s 24.40nm														
LCCH 1.32 288 iPd 24 22.99 -0.2										ESCF 0.03 121 Pg 14 32.04 -0.4				
1.0s 24.41nm										ATE 0.06 261 Pg 14 32.58 -0.2				
MDZ 1.43 46 i(P) 24 23.60 -1.2										14 34.34				
1.0s 24.41nm										0.13 55 Pg 14 33.91 0.1				
CNB 28.07 241 eP 18 09.60 0.9										ISSF 0.15 243 Pg 14 34.41 0.2				
CAN 28.37 241 iPc 18 11.90 0.7										14 37.39				
										0.16 288 Pg 14 34.29 -0.1				
										Sg 14 37.15				
										LHE 0.18 181 Pg 14 35.16 0.2				
										JAU 0.19 108 Pg 14 35.18 0.1				

ELYF	0.29	285	Pg	14	37.00	0.1	BONR	74.04	42	(P)	27	50.68	0.3	RSNY	106.87	48	PKP	34	50.00	10.6X
BOH	0.29	271	Pg	14	37.04	0.0	SPA	74.63	180	iPd	27	54.40	1.2	Z	20s	0.31um			4.8Msz	
			Sg	14	41.59			0.8s	17.08nm			5.1mb		HRV	108.87	50	PKP	34	50.00	6.8X
BTH	0.30	85	iPg	14	37.20	0.0	TNP	74.82	43	eP	27	54.56	-0.3	Z	18s	0.38um			5.0Msz	
			i	14	39.40			1.3s	24.09nm			5.0mb		CBM	111.46	45	PKP	35	00.00	12.0X
			i	14	41.40		TPNV	74.83	44	(P)	27	54.79	-0.1	Z	20s	0.38um			5.0Msz	
			iSg	14	42.60			0.6s	2.07nm			4.3mb		CLL	143.90	353	e(PKP)	35	53.00	4.0X
S.D. = 0.2	on	10	of	10	obs.		TUC	76.35	51	eP	28	02.42	-1.1	SPC	144.60	345	ePKP	35	50.10	-0.4
								1.7s	32.58nm			5.0mb		MOX	144.69	355	ePKP	35	49.30	-1.1
FEB 16, 1993	09h	16m	16.25±	0.27s			Z	21s	0.47um			4.8Msz			2.0s	39.00nm				
15.472 S ±10.3km	173.285 W ± 7.0km						ARUT	77.17	45	eP	28	07.92	-0.2	PRU	144.99	351	PKP	35	50.50	-0.4
DEPTH = 39.0km (2 depth phases)							GMW	77.26	32	eP	28	07.90	-0.2		2.0s	45.00nm				
5.1mb (32 obs.)	4.9Msz (28 obs.)						LON	77.26	33	eP	28	07.12	-1.1				36	01.50		
TONGA ISLANDS (173)							SVW	77.62	9	eP	28	09.40	-0.5	KAS	145.17	323	iPKPc	35	52.80	1.2
Mw 5.4 (HRV). Ms 4.8 (BRK).							RMW	77.72	33	eP	28	10.01	-0.7	VRAC	145.30	349	ePKP	35	51.30	-0.1
CENTROID, MOMENT TENSOR (HRV)							CP2	78.30	10	eP	28	12.48	-1.3		2.2s	553.70nm				
Data Used: GDSN							MSU	78.40	45	eP	28	14.61	-0.3	VR1	145.36	335	ePKP	35	51.50	-0.2
L.P.B.: 35S, 66C							DUG	78.84	43	eP	28	16.27	-0.9	GAZ	145.40	314	iPKP	35	53.20	1.2
Centroid Location:								1.4s	18.43nm			4.9mb		DOU	145.42	2	PKP	35	52.80	1.2
Origin Time	09:16:20.8	0.4					MDJ	79.15	322	eP	28	20.00	1.5	GRF	145.67	355	ePKPc	35	52.60	0.5
Lat 15.39S 0.05 Lon 172.89W 0.04								1.8s	82.00nm			5.4mb		Z	19s	0.20um			4.9Msz	
Dep 15.0 FLX Half-duration 1.2							Z	22s	1.27um			5.2Msz		PSZ	145.86	344	ePKPc	35	53.00	0.4
Moment Tensor: Scale 10**17 Nm							PMR	79.17	11	P	28	30.00	11.7X	WLF	145.90	1	iPKPc	35	54.52	2.1
Mrr= 1.01 0.03 Mtt= 0.20 0.05							Z	19s	0.33um			4.7Msz		KHC	145.97	352	PKP	35	54.30	1.6
Mff=-1.21 0.05 Mrt= 0.26 0.11							TTA	79.31	8	eP	28	18.85	-0.3		1.4s	40.40nm				
Mrf= 1.02 0.15 Mtf= 0.12 0.03								1.4s	30.12nm			5.1mb					36	10.50		
Principal Axes:							HVU	79.69	41	eP	28	20.95	-0.8	MLR	145.98	336	ePKP	35	54.00	1.1
T Val= 1.47 Plg=65 Azm=302							SRU	79.82	45	eP	28	21.94	-0.6	ISR	146.02	335	ePKP	35	54.00	1.1
N 0.13 12 184							EMUT	79.97	44	eP	28	23.64	0.2	WET	146.04	353	iPKPd	35	54.40	1.6
P -1.60 21 89							DAU	79.97	43	eP	28	23.28	-0.2	GEC2	146.23	352	PKP	36	06.10	12.9X
Best Double Couple: Mo=1.5*10**17							HHA1	80.72	40	eP	28	27.57	0.4	GEC2	146.23	352	PKP	35	52.90	-0.3
NP1: Strike=158 Dip=26 Slip= 62							ALO	80.76	50	eP	28	27.04	-0.6	ZST	146.26	347	iPKP	35	54.40	1.3
NP2: 9 67 103								1.3s	14.32nm			4.8mb		FLN	146.28	9	ePKP	35	53.70	0.6
							Z	19s	0.41um			4.8Msz			1.0s	21.80nm				
DZM	20.27	248	iPc	20	49.80	-1.7	CN2	81.21	320	eP	28	30.00	0.5	Z	23s	0.28um			5.0MszX	
PMO	24.50	92	iPc	21	33.50	0.2		1.2s	23.00nm			5.0mb		SRO	146.35	346	iPKP	35	55.00	1.7
VAH	24.74	93	iPc	21	35.60	0.0		Z	20s	0.61um		5.0Msz		LDF	146.50	8	ePKP	35	54.50	1.0
TPT	24.77	92	iPc	21	36.20	0.3			eP	28	37.00	22kmX			1.5s	43.35nm				
ARMA	35.40	239	eP	23	09.10	-1.7	8W06	82.25	42	eP	28	33.59	-1.7	CMP	146.52	336	ePKPd	36	02.00	8.3X
	0.7s	6.00nm				4.6mb		1.5s	35.54nm			5.2mb		GRR	146.59	9	ePKP	35	54.80	1.2
RMO	36.97	246	eP	23	24.00	0.1	LCCM	82.35	38	ePc	28	35.20	-0.5	LPF	146.91	10	ePKP	35	55.70	1.6
	0.7s	11.00nm				4.9mb	FBA	82.45	11	ePc	28	34.20	-1.3		1.3s	42.95nm				
HON	39.52	23	P	24	02.67	17.5X		1.4s	53.48nm			5.4mb		CDF	147.15	359	ePKP	35	56.60	1.9
Z	20s	0.49um				4.3Msz	IMA	82.62	8	eP	28	35.11	-1.5		1.4s	36.60nm				
	S	30	12.19					1.8s	27.43nm			5.0mb		FUR	147.18	354	ePKP	35	56.70	2.1
CMS	40.49	239	eP	23	52.00	-1.1	GOL	83.62	46	eP	28	41.93	-0.5	HAU	147.56	0	ePKP	35	57.90	2.7X
	0.4s	4.00nm				4.5mb		1.0s	21.91nm			5.2mb			0.7s	9.70nm				
TOO	42.51	231	eP	24	09.10	-0.6		Z	19s	0.78um		5.1Msz		Z	20s	0.22um			5.0Msz	
	0.8s	22.00nm				4.9mb	GLD	83.75	46	eP	28	42.73	-0.3	BSF	147.73	360	ePKP	35	58.30	2.7X
STK	44.10	240	eP	24	22.30	-0.4		1.4s	54.33nm			5.5mb			1.5s	43.35nm				
	0.7s	6.20nm				4.5mb		Z	18s	0.87um		5.2Msz		SLE	147.77	358	ePKPd	35	58.80	3.2X
WB2	49.92	257	iPc	25	06.70	-1.8	SES	85.20	35	ePc	28	48.70	-1.1	KBA	148.01	351	iPKP	35	58.30	2.1
	0.6s	22.90nm				5.4mb		1.5s	138.00nm			5.9mb					36	09.70		
	i	25	41.40	152kmX					pP	29	01.00	41km		WTTA	148.04	354	iPKP	35	59.50	3.3X
WRA	49.93	257	P	25	07.60	-1.0	BJI	85.60	313	eP	28	54.00	2.0	LOR	148.21	4	ePKP	35	59.40	3.1X
	0.4s	2.00nm				4.5mb		2.0s	74.00nm			5.5mb			1.7s	58.80nm				
ASPA	50.20	252	eP	25	09.20	-1.4		Z	24s	0.32um		4.6MszX		Z	21s	0.30um			5.1Msz	
	0.7s	28.30nm				5.4mb			eS	39	24.00		SSF	148.39	4	ePKP	36	00.10	3.5X	
Z	22s	2.70um				5.2Msz	RSSD	86.44	42	eP	28	55.09	-1.3		1.4s	38.75nm				
	e	29	04.20					1.3s	19.63nm			5.2mb		MFF	148.44	9	ePKP	36	00.00	3.4X
GUMO	50.47	303	e(P)	24	53.00	-19.7X		Z	19s	0.23um		4.6Msz			2.0s	76.95nm				
WARB	56.73	249	eP	25	57.00	-1.9	WMOK	86.46	53	P	29	10.00	13.6X	LBF	148.50	4	ePKP	36	00.30	3.5X
	0.5s	10.00nm				5.1mb		Z	20s	0.63um		5.0Msz			1.1s	12.70nm				
SMY	68.79	352	P	27	30.00	11.7X	MEO	86.62	53	iPc	28	56.60	-0.6	LLS	148.64	357	PKP	36	05.69	8.4X
Z	18s	1.53um				5.3Msz	TIY	87.38	310	eP	29	05.00	4.1X	LLS	148.64	357	ePKPc	36	00.10	2.8X
MAT	69.06	320	eP	27	20.00	-0.4		Z	26s	0.85um		5.0MszX		AVF	148.65	4	ePKP	36	00.40	3.4X
	1.2s	23.44nm				5.1mb			S	39	36.00			1.4s	25.25nm					
Z	20s	1.06um				5.1Msz	HHC	89.16	313	eP	29	11.00	1.7	PTJ	148.69	348	ePKP	36	00.90	3.7X
	eS	36	25.00					1.6s	37.00nm			5.5mb		OSS	148.75	355	ePKPc	36	01.40	4.0X
ISA	72.63	44	P	27	50.00	8.0X	YAK	89.20	337	eP	29	08.20	-0.7	BGF	148.84	5	ePKP	36	01.10	3.8X
Z	20s	0.88um				5.0Msz		1.7s	64.00nm			5.7mb		TCF	149.05	6	ePKP	36	01.70	4.0X
CMB	72.75	41	P	27	46.32	3.7X		Z	22s	0.50um		4.9Msz		MAF	149.15	6	ePKP	36	02.10	4.3X
	Z	19s	0.41um			4.7Msz			e	32	36.00			VBY	149.21	348	ePKP	35	54.00	-3.9X
	SP	38	03.38				YKA	90.12	23	eP	29	12.60	-0.6	TMA	149.41	357	PKP	36	02.08	3.7X
CMB	72.75	41	eP	27	41.99	-0.6		1.4s	7.10nm			4.8mb		LPL	150.05	360	ePKP	36	05.50	6.0X
	1.6s	20.00nm				4.8mb	BTO	90.17	312	eP	29	16.00	1.9	LPG	150.07	360	ePKP	36	05.70	6.1X
Z	20s	0.40um				4.7Msz	MIAR	90.43	54	P	29	20.00	4.8X	SKO	150.70	337	ePKP	36	02.00	1.7
	eS	37	18.69					Z	18s	0.36um		4.9Msz					36	13.90		
	iScS	37	58.69				OLY	92.36	54	eP	29	24.08	-0.1	BCAO	164.02	228	iPKPd	36	17.20	0.0
	eLQ	46	08.69						e	29	35.77	37km			1.0s	15.00nm				
	eLQ	46	32.69																	

16d 09h

FNA 0.66 356 ePg 25 36.78 0.4
 eSg 25 45.90
 LIT 0.81 91 ePg 25 39.74 0.8
 IGT 1.03 235 ePg 25 42.62 -0.1
 OHR 1.10 334 e(Pn) 25 46.80 2.9X
 KNT 1.52 47 ePb 25 47.50 -3.0X
 SOH 1.62 64 ePb 25 50.90 -1.1
 eSb 26 10.02

S.D. = 1.4 on 4 of 6 obs.

FEB 16, 1993 11h 45m 20.57 ± 0.71s
 29.254 N ± 8.6km 130.764 E ± 7.7km
 DEPTH = 33.0km (normol)
 4.1mb (6 obs.) 4.1msz (1 obs.)

RYUKYU ISLANDS (238)

KAGJ 1.93 3 P 45 52.40 0.7
 KUMJ 3.27 1 P 46 11.20 0.5
 eS 46 49.90
 SHNJ 4.87 3 eP 46 32.90 -0.4
 TSRJ 7.66 34 eP 47 12.10 -0.5
 MAT 9.59 39 (P) 47 39.00 -0.4
 (S) 48 11.00

CHJJ 9.69 44 eP 47 41.20 0.4
 CN2 15.13 345 eP 49 01.00 7.6X
 1.0s 12.00nm 4.1mb
 Z 16s 0.88um 4.1mszX

BJI 16.10 316 eP 49 10.50 4.6X
 Z 16s 0.58um
 N 12s 0.30um

TIY 17.44 304 eP 49 27.40 4.4X
 Z 14s 1.07um
 N 12s 0.59um

XAN 19.19 290 P 49 45.80 1.4
 1.0s 7.10nm 3.9mb
 pP 49 54.50 33kmX
 sP 49 57.00

HHC 19.47 312 eP 49 47.40 -0.2
 BTO 20.38 309 eP 50 01.00 3.8X
 N 12s 0.23um
 E 11s 0.30um

GYA 21.48 268 P 50 08.40 -0.2
 Z 18s 0.69um 4.1msz
 CD2 23.41 281 eP 50 27.00 -0.5
 LZH 23.62 294 eP 50 36.00 6.4X

1.5s 19.00nm 4.4mb
 Z 15s 0.58um 4.2mszX
 E 12s 0.49um

GUN 39.26 279 P 52 47.00 -1.3
 0.4s 12.00nm 5.0mb
 ASPA 52.70 176 eP 54 35.00 0.8

1.7s 4.20nm 4.1mb
 YKA 74.84 26 eP 56 59.00 -0.2
 0.8s 0.60nm 3.6mb

S.D. = 0.8 on 13 of 18 obs.

FEB 16, 1993 12h 59m 48.73 ± 0.74s
 51.103 N ± 15.5km 177.690 W ± 9.3km
 DEPTH = 33.0km (normol)
 4.1mb (9 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.00 38 ePc 00 05.71 -0.8
 SVW 15.79 42 eP 03 32.21 2.3
 0.8s 20.19nm 4.3mb

TTA 16.61 36 eP 03 39.76 -0.7
 0.8s 2.91nm 3.5mb
 RSO 16.76 46 (P) 03 44.60 2.1

CRP 17.36 44 (P) 03 50.14 0.3
 PMS 18.51 46 e(P) 03 57.40 -6.5X
 IMA 19.33 30 eP 04 12.66 -1.2

0.8s 4.21nm 3.8mb
 KLU 20.25 47 (P) 04 21.56 -2.1X
 FBA 20.74 37 eP 04 25.68 -2.9X

0.7s 3.22nm 3.8mb
 BALM 21.82 49 (P) 04 39.95 0.3
 YKA 34.92 46 eP 06 36.20 -2.7

0.8s 1.20nm 3.9mb
 BMW 35.49 76 (P) 06 44.12 0.1
 TPNV 45.09 84 (P) 08 04.25 0.8

BW06 45.72 73 P 08 07.47 -1.0
 0.6s 2.50nm 4.3mb
 MSU 46.66 79 (P) 08 16.85 0.9

e 08 24.36
 RSSD 48.22 68 eP 08 27.71 -0.4

GOL 0.4s 0.98nm 4.2mb
 50.09 73 eP 08 42.39 -0.2
 0.5s 3.03nm 4.6mb
 MIAR 60.56 71 (P) 09 57.37 -0.7
 0.4s 1.70nm 4.5mb
 GUN 72.61 293 P 11 15.00 0.0
 KKN 73.05 293 P 11 18.20 0.8
 PKI 73.14 293 P 11 17.80 -0.3
 GKN 73.26 294 P 11 18.60 0.0
 DMN 73.28 293 P 11 19.40 0.5

S.D. = 1.2 on 20 of 23 obs.

% FEB 16, 1993 13h 36m 15.73 ± 2.18s
 33.296 S ± 7.5km 71.243 W ± 10.7km
 DEPTH = 50.9 ± 27.3 km

NEAR COAST OF CENTRAL CHILE (135)

MD 3.2 (SAN).

LCCH 0.33 237 iPd 36 25.29 0.1
 iS 36 32.96
 ROCH 0.38 31 iP 36 26.03 0.0
 iS 36 34.46

TACH 0.44 144 iP 36 26.60 0.2
 iS 36 35.08
 PEL 0.49 72 iP 36 26.80 -0.3
 iS 36 36.18

LNv 0.67 192 iP 36 28.99 -0.2
 iS 36 39.62
 PCH 0.69 118 iP 36 29.56 0.0
 iS 36 39.98

FCH 0.80 92 iP 36 31.14 -0.1
 iS 36 42.95
 CHCH 0.80 142 iP 36 31.30 0.2
 iS 36 43.04

JACH 0.82 42 iP 36 31.54 0.2
 iS 36 42.88

S.D. = 0.2 on 9 of 9 obs.

% FEB 16, 1993 13h 54m 10.33 ± 1.45s
 41.379 N ± 16.0km 24.330 E ± 7.0km
 DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

ML 2.3 (THE).

SRS 0.61 245 ePg 54 21.88 -0.8
 eSg 54 30.80
 SOH 0.92 233 ePg 54 27.24 -0.8
 eSg 54 40.40

OUR 1.08 194 ePg 54 30.92 0.4
 KNT 1.10 259 ePg 54 31.12 0.1
 eSg 54 45.92
 THE 1.27 235 ePb 54 34.52 0.6
 eSb 54 53.40

ALN 1.38 110 ePb 54 35.44 -0.2
 eSb 54 54.52
 GRG 1.52 254 ePb 54 38.28 0.7
 eSb 54 59.76

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

? FEB 16, 1993 14h 18m 43.86 ± 2.87s
 16.245 S ± 65.2km 72.688 W ± 30.6km
 DEPTH = 117.4 ± 11.1 km

4.1mb (1 obs.)

NEAR COAST OF PERU (115)

ARE 1.17 101 iPd 19 07.40 -0.7
 ZOBO 4.38 91 iPc 19 50.00 0.0
 1.0s 135.00nm
 S 20 31.00
 LR 21 10.00

LPB 4.41 94 P 19 50.60 0.3
 1.0s 170.00nm
 CNCB 4.55 98 iPc 19 53.50 1.2
 NNA 5.84 316 iPd 20 09.80 0.2

0.8s 44.78nm 4.7mb X
 i 20 12.70
 eS 21 11.00

SIV 11.17 90 P 21 20.40 -0.9
 BAO 23.75 92 eP 23 46.90 0.2
 e 23 50.20

YKA 85.09 342 eP 31 07.00 -0.3
 0.6s 1.60nm 4.1mb
 S.D. = 0.9 on 8 of 8 obs.

% FEB 16, 1993 14h 48m 32.04 ± 2.14s
 40.304 N ± 31.7km 27.088 E ± 13.6km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

EDC 0.59 86 iPg 48 43.00 -0.9
 eSg 48 51.00
 EZN 0.76 231 iPn 48 47.10 -0.1
 KCT 0.97 93 ePn 48 52.10 1.1

DST 1.37 120 iPn 48 57.70 -0.2
 YLV 1.76 81 ePn 49 03.60 0.1

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

? FEB 16, 1993 14h 56m 46.87 ± 1.11s
 9.590 S ± 16.0km 120.253 E ± 9.9km
 DEPTH = 33.0km (normol)
 4.2mb (2 obs.)

SUMBA REGION, INDONESIA (287)

KHKI 4.75 284 eP 57 58.00 0.0
 eS 58 48.10
 e 01 35.00

MTN 11.15 108 eP 59 27.00 -0.1
 eS 01 23.00
 MEEK 17.03 185 eP 00 44.00 -0.2
 eS 03 37.00

WB2 17.07 129 iPc 00 44.20 -0.5
 iS 03 40.90
 WARB 17.58 161 eP 00 51.00 -0.1
 eS 03 55.00

ASPA 19.13 139 eP 01 11.10 0.9
 0.5s 7.40nm 4.2mb
 eS 04 31.60

MRWA 19.93 191 eP 01 22.30 3.4X
 0.3s 4.00nm 4.3mb
 eS 04 40.00

MUN 22.59 189 eP 01 57.00 11.1X
 eS 05 44.00

S.D. = 0.6 on 6 of 8 obs.

? FEB 16, 1993 15h 03m 59.01 ± 5.28s
 30.157 S ± 34.7km 71.653 W ± 33.3km
 DEPTH = 25.8 ± 7.1 km

NEAR COAST OF CENTRAL CHILE (135)

MD 4.2 (SAN).

RTRS 1.90 91 iPc 04 33.00 2.8
 iS 04 54.30
 JACH 2.68 160 iP 04 41.95 0.5
 iS 05 12.17

RTCB 2.79 119 iPd 04 43.70 0.7
 S 05 13.50
 ROCH 2.86 169 eP 04 45.05 0.9
 iS 05 15.35

RTLL 2.98 114 iPc 04 46.00 0.3
 S 05 17.50
 PEL 3.09 165 iP 04 47.46 0.2
 iS 05 21.85

RTCV 3.17 123 iPd 04 48.80 0.4
 CFA 3.27 117 ePc 04 50.10 0.3
 S 05 25.00

LCCH 3.31 179 iP 04 50.21 -0.1
 iS 05 24.47
 FCH 3.37 160 iP 04 52.49 1.0
 iS 05 29.84

TACH 3.54 170 iP 04 53.61 0.0
 iS 05 31.15
 PCH 3.59 165 iP 04 54.09 -0.3
 iS 05 33.17

MDZ 3.62 139 eP 04 56.80 1.9
 LNv 3.79 177 iP 04 56.14 -1.0
 iS 05 37.36
 CHCH 3.86 168 iP 04 58.01 -0.1
 iS 05 38.78

RTPR 4.45 93 ePd 05 06.00 -0.5
 RFA 5.33 150 ePd 05 17.00 -2.1
 MRA 5.56 115 ePc 05 20.20 -2.0
 TCA 6.19 103 iP 05 28.40 -2.8

(S) 06 31.50

S.D. = 1.5 on 19 of 19 obs.

? FEB 16, 1993 15h 36m 53.77 ± 1.22s
 11.272 S ± 15.4km 120.018 E ± 14.4km
 DEPTH = 33.0km (normol)

SOUTH OF SUMBA, INDONESIA (292)

KHKI 5.22 303 ePc 38 11.70 0.1
 eS 39 08.00
 e 40 25.00

MEEK 15.34 185 eP 40 29.00 -0.6
 eS 43 04.00
 WARB 16.10 158 eP 40 40.20 0.9
 WB2 16.27 124 eP 40 40.10 -1.4
 eS 43 27.50
 ASPA 18.07 135 iPd 41 05.40 1.3
 eS 44 12.90
 MRWA 18.25 191 eP 41 06.00 -0.2
 eS 44 10.50

S.D. = 1.3 on 6 of 6 obs.

? FEB 16, 1993 16h 46m 57.76±7.21s
 43.724 N ±50.7km 7.613 E ±12.2km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.3 (GEN).

IMI 0.27 47 P 47 03.48 -0.1
 S 47 08.38
 ENR 0.52 345 P 47 08.33 0.0
 S 47 16.30
 STV 0.56 338 P 47 08.88 -0.3
 S 47 17.26
 ROB 0.60 18 P 47 10.03 0.1
 S 47 19.09
 FIN 0.65 41 P 47 10.76 0.0
 S 47 20.46
 PZZ 0.86 335 P 47 14.74 0.3
 S 47 26.59

S.D. = 0.2 on 6 of 6 obs.

FEB 16, 1993 16h 57m 12.69±0.71s
 43.426 N ±4.5km 5.432 E ±5.5km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.8 (STR).

GELF 0.04 185 Pg 57 14.30 -0.5
 TREF 0.20 350 Pg 57 16.91 -0.2
 BERF 0.22 121 Pg 57 17.68 0.2
 PUYF 0.22 61 Pg 57 16.83 -0.7
 CDR 0.35 44 iPg 57 18.70 -1.2
 PRAF 0.42 333 Pg 57 21.88 0.5
 VILF 0.47 26 Pg 57 21.88 -0.4
 TAVF 0.49 67 Pg 57 22.41 -0.3
 GANF 0.67 31 Pg 57 26.32 0.3
 CALN 1.11 72 Pg 57 34.46 0.9
 TOUF 1.44 65 Pn 57 39.58 0.5
 Sg 57 59.34
 AURF 1.45 71 Pn 57 39.58 0.5
 SBF 1.52 73 Pn 57 40.55 0.6
 Sg 58 01.29
 AUTN 1.55 68 Pn 57 41.16 0.5
 Sg 58 03.84
 PGF 2.76 107 Pn 57 56.89 -1.0
 Sg 57 56.89

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

? FEB 16, 1993 17h 03m 12.07±3.25s
 39.016 N ±21.8km 29.276 W ±33.1km
 DEPTH = 10.0km (geophysicist)
 4.7mb (1 obs.)

AZORES ISLANDS (405)
 Felt (IV) on Faial and (III) on Pico.

CALA 0.62 134 iPd 03 24.00 0.1
 iS 03 30.30
 HOR 0.70 134 iPd 03 25.70 -0.2
 iS 03 32.00
 PICO 0.84 127 iPd 03 28.50 0.1
 iS 03 36.70
 ADH 1.63 102 eP 03 40.90 0.0
 iS 03 58.40
 BCAO 55.27 116 iPc 12 48.00 0.0
 0.7s 6.00nm 4.7mb

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

? FEB 16, 1993 17h 19m 04.13±1.17s
 20.187 S ±18.1km 167.993 E ±24.8km
 DEPTH = 34.6km (2 depth phases)
 4.2mb (4 obs.)

LOYALTY ISLANDS (188)

DZM 2.37 217 iPd 19 39.20 -2.3
 PVC 2.45 7 iP 19 41.50 -1.1
 iS 20 12.00
 ARMA 17.94 232 eP 23 17.00 4.2X

RMO 18.74 247 eP 23 33.60 11.1X
 CTA 20.41 267 iPc 23 43.00 1.9
 CMS 22.86 236 eP 24 07.20 1.6
 0.9s 6.00nm 4.1mb
 STK 26.35 238 eP 24 39.80 0.8
 0.7s 2.10nm 3.9mb
 WB2 31.57 265 eP 25 24.30 -1.6
 0.5s 2.90nm 4.4mb
 i 25 34.10 35km
 ASPA 31.77 257 iPd 25 26.50 -1.1
 0.7s 12.90nm 4.9mb
 iPc 25 36.30 35km
 MOX 144.34 334 ePKP 38 37.60 -0.6
 GEC2 144.75 330 PKP 38 39.20 0.1
 0.8s 2.03nm

e 38 50.10
 OHR 145.21 314 e(PKP) 38 39.80 -0.2
 GRF 145.23 333 ePKPd 38 40.80 1.1
 BCAO 146.40 246 iPKPc 38 44.10 1.3
 0.8s 11.00nm
 ic 38 55.20
 CDF 147.84 336 ePKP 38 47.70 3.6X
 0.9s 7.85nm
 BSF 148.50 335 ePKP 38 49.50 4.3X
 0.7s 2.75nm
 HAU 148.53 336 ePKP 38 49.60 4.4X
 0.8s 6.05nm
 FLN 150.02 345 ePKP 38 52.90 5.6X
 1.1s 11.00nm
 LOR 150.06 338 ePKP 38 53.40 5.9X
 0.9s 5.10nm
 LDF 150.09 344 ePKP 38 53.50 6.0X
 LBF 150.26 338 ePKP 38 53.80 6.0X
 SSF 150.36 338 ePKP 38 54.20 6.3X
 0.8s 4.85nm
 LPL 150.38 333 ePKP 38 54.80 6.5X
 0.7s 6.05nm
 LPG 150.39 333 ePKP 38 54.90 6.5X
 0.9s 6.70nm
 GRR 150.46 345 ePKP 38 54.20 6.2X
 LPF 150.84 345 ePKP 38 55.00 6.4X
 PGF 151.54 326 ePKP 38 56.90 6.9X
 0.7s 10.70nm

S.D. = 1.5 on 12 of 27 obs.

* FEB 16, 1993 17h 21m 06.13±1.15s
 30.944 N ±18.2km 90.042 E ±10.4km
 DEPTH = 33.0km (normal)
 4.5mb (3 obs.)

XIZANG (306)

GUN 4.72 231 P 22 16.70 -0.5
 KKN 5.21 234 P 22 24.20 0.2
 PKI 5.26 231 P 22 24.00 -0.8
 DMN 5.44 234 P 22 27.70 0.4
 GKN 5.55 239 P 22 29.60 0.9
 NDI 11.37 262 eP 23 55.00 5.8X
 eS 25 57.50
 GBA 20.80 217 P 25 56.00 8.9X
 MAIO 25.93 290 eP 26 37.00 -0.2
 NB2 58.13 326 P 31 04.00 5.4X
 0.7s 1.90nm 4.3mb
 WB2 66.12 134 eP 31 53.40 1.0
 0.7s 2.80nm 4.5mb
 ASPA 68.67 137 eP 32 07.60 -0.9
 0.7s 4.40nm 4.6mb

S.D. = 0.9 on 8 of 11 obs.

? FEB 16, 1993 18h 01m 36.72±0.54s
 44.555 N ±4.8km 7.287 E ±5.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (GEN).

PZZ 0.14 249 P 01 40.48 0.3
 S 01 42.67
 BHB 0.29 357 P 01 42.81 0.1
 S 01 46.70
 STV 0.31 175 P 01 43.22 0.0
 S 01 47.39
 ENR 0.34 164 P 01 43.59 -0.2
 S 01 48.01
 ROB 0.49 122 P 01 46.79 0.1
 S 01 52.83
 RRL 0.51 316 P 01 46.88 -0.3
 S 01 53.66
 FIN 0.75 117 P 01 51.49 0.1

S 02 01.19
 IMI 0.78 146 P 01 51.83 -0.1
 S 02 01.71
 S.D. = 0.2 on 8 of 8 obs.

* FEB 16, 1993 19h 07m 36.26±1.15s
 37.215 N ±10.4km 141.969 E ±13.1km
 DEPTH = 33.0km (normal)
 3.4mb (1 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 1.76 236 P 08 05.40 0.5
 S 08 25.70
 YAMJ 1.81 303 iPd 08 04.70 -0.9
 eS 08 24.30
 OFUJ 1.88 353 P 08 07.40 0.8
 eS 08 27.90
 NIJJ 2.37 271 iPd 08 13.00 -0.6
 CHJJ 2.66 245 iPd 08 17.50 -0.2
 MAT 3.09 259 iPd 08 24.00 0.1
 eS 09 07.00
 MTMJ 3.40 261 P 08 28.90 0.6
 AOMJ 3.56 340 eP 08 31.70 1.1
 IIDJ 3.70 243 iPd 08 34.80 2.2
 MRRJ 5.25 353 eP 08 54.90 0.5
 HOOJ 5.26 11 eP 08 55.30 0.7
 eS 09 51.20
 KUSJ 6.24 19 eP 09 07.50 -0.9
 eS 10 13.80
 ASAJ 6.91 4 eP 09 17.20 -0.7
 KMI 35.43 261 eP 14 30.50 -1.1
 1.0s 20.00nm 5.0mb X
 GUN 47.58 276 P 16 09.60 -1.6
 0.6s 11.00nm 5.0mb X
 PKI 48.10 276 P 16 17.80 2.5
 KKN 48.11 276 P 16 14.40 -0.8
 0.6s 8.00nm 4.9mb X
 DMN 48.33 276 P 16 15.80 -1.1
 GKN 48.52 277 P 16 17.00 -1.3
 GBA 61.67 266 P 17 53.00 -0.5
 YKA 63.43 30 eP 18 05.10 0.5
 0.3s 0.10nm 3.4mb

S.D. = 1.2 on 21 of 21 obs.

FEB 16, 1993 19h 26m 01.71±1.03s
 59.309 N ±9.6km 144.973 W ±4.1km
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 ML 3.0 (AEIC), 3.1 (PGC).

KAIM 0.68 24 eP 26 16.01 0.8
 S 26 26.92
 MID 0.71 280 P 26 17.80 2.1
 S 26 27.10
 RAGM 1.09 8 iP 26 22.41 0.1
 S 26 37.02
 SGAM 1.20 354 iP 26 24.32 0.2
 S 26 41.30
 CVA 1.30 343 iP 26 25.55 -0.2
 S 26 41.55
 HIN 1.34 325 iP 26 26.38 0.0
 S 26 43.49
 SNH 1.39 50 iP 26 27.30 0.1
 S 26 43.46
 CYK 1.48 57 eP 26 28.35 0.0
 S 26 47.45
 CROM 1.72 32 iP 26 32.16 0.1
 S 26 53.37
 TGL 1.81 36 iP 26 33.34 0.1
 S 26 54.82
 YAH 1.94 56 eP 26 35.16 -0.1
 VLZ 1.95 340 eP 26 34.41 -0.7
 S 26 58.42
 BALM 2.17 36 iP 26 38.27 -0.3
 GLB 2.22 15 iP 26 38.96 -0.2
 S 27 04.48
 KLU 2.24 348 iP 26 39.19 -0.3
 SEW 2.40 291 eP 26 40.39 -1.3
 CTGM 2.47 46 eP 26 42.51 -0.2
 MPA 2.51 300 eP 26 41.68 -1.5
 PTE 2.56 309 eP 26 42.86 -1.0
 SCM 2.79 336 iP 26 46.98 -0.3
 SLKM 2.90 297 eP 26 47.59 -1.3
 PMS 3.00 312 P 26 53.00 2.8
 SML 3.01 328 eP 26 50.16 -0.1
 BRLL 3.05 281 P 26 51.70 0.9
 PLRM 3.08 320 P 26 52.50 1.3

16d 19h

PMR 3.08 320 (P) 26 51.20 0.0
 GHO 3.15 323 eP 26 52.54 0.2
 SDG 3.24 355 eP 26 53.66 0.0
 PAX 3.68 356 eP 27 00.14 0.1
 SPU 4.00 301 eP 27 02.81 -1.5
 S.D. = 1.0 on 30 of 30 obs.

& FEB 16, 1993 20h 39m 30.24s
 60.045 N 152.938 W
 DEPTH = 119.0km
 SOUTHERN ALASKA (2)
 <AEIC>.

ILIM 0.04 343 eP 39 45.79 0.6
 RS1 0.43 12 eP 39 47.31 -0.8
 S 40 00.90
 RS2 0.43 12 eP 39 47.24 -0.9
 RSO 0.43 12 eP 39 47.22 -1.0
 S 40 01.08
 RDW 0.44 8 eP 39 47.26 -1.0
 S 40 01.09
 NCT 0.52 0 eP 39 47.69 -0.9
 S 40 01.05
 DFR 0.56 13 eP 39 47.72 -1.1
 S 40 01.71
 RDT 0.59 26 eP 39 48.07 -1.0
 PDB 0.68 248 iP 39 48.71 -0.9
 S 40 03.25
 AUL 0.71 201 eP 39 48.94 -0.9
 AUE 0.72 198 eP 39 49.05 -0.9
 AUH 0.73 201 eP 39 49.34 -0.7
 AUI 0.75 199 eP 39 50.43 0.2
 S 40 03.68
 BRLK 1.07 104 eP 39 52.94 -0.3
 S 40 09.12
 NKA 1.10 50 eP 39 54.08 0.7
 MCNL 1.12 220 iP 39 52.66 -1.0
 CDD 1.18 198 eP 39 52.98 -1.4
 CKL 1.19 14 iP 39 53.87 -0.8
 S 40 12.29
 CKT 1.21 17 eP 39 53.85 -1.0
 S 40 12.10
 SPU 1.22 21 eP 39 53.93 -0.9
 S 40 12.51
 CKN 1.24 17 eP 39 54.31 -0.8
 S 40 13.28
 CP2 1.27 15 eP 39 54.96 -0.6
 CPAM 1.28 18 eP 39 54.94 -0.6
 CRP 1.29 17 eP 39 55.06 -0.6
 S 40 14.43
 SLKM 1.43 70 eP 39 55.80 -1.4
 SEW 1.75 87 eP 39 59.41 -1.5
 SUA 1.79 36 eP 40 01.02 -0.5
 S 40 24.16
 MPA 1.84 74 eP 40 00.66 -1.4
 S 40 23.88
 PMS 2.05 53 P 40 03.70 -1.1
 SKT 2.06 19 eP 40 03.64 -1.3
 PTE 2.11 65 eP 40 03.60 -1.8
 GHO 2.62 47 eP 40 10.03 -2.1
 SML 2.86 50 eP 40 12.93 -2.4
 HIN 3.23 81 eP 40 18.59 -1.7
 HUR 3.34 27 eP 40 20.63 -1.1
 CVA 3.61 79 eP 40 22.36 -3.0
 TRF 3.64 19 eP 40 25.34 -0.6
 KLU 3.74 64 eP 40 24.51 -2.6
 SGAM 3.88 80 eP 40 26.95 -2.0
 RND 3.89 28 eP 40 27.72 -1.5
 KAIM 4.28 88 eP 40 31.92 -2.5

41 obs. associated

FEB 16, 1993 20h 47m 32.73± 0.59s
 40.097 N ± 5.6km 20.681 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.1 (ATH). ML 2.8 (THE).

IGT 0.62 206 ePg 47 43.92 -1.4
 S 47 53.72
 KEK 0.78 241 ePg 47 47.70 -0.2
 S 48 01.20
 KZN 0.86 76 iPg 47 48.30 -1.1
 S 47 59.50
 FNA 0.87 38 ePg 47 48.56 -0.9
 S 48 01.76
 OHR 1.02 5 iPg 47 51.30 -0.7
 S 48 07.60

LIT 1.39 89 ePb 47 58.00 -0.1
 S 48 17.88
 GRG 1.57 56 ePb 48 00.72 0.0
 S 48 21.96
 AGG 1.67 130 ePb 48 02.32 0.2
 S 48 25.92
 VAY 1.89 49 ePn 48 05.70 0.4
 VLS 1.92 182 ePb 48 07.50 1.7
 SKO 1.96 17 ePn 48 08.00 1.7
 S 48 36.20
 KNT 1.99 57 ePn 48 07.40 0.5
 SOH 2.16 70 ePn 48 08.96 -0.4
 S 48 37.20
 PAIG 2.31 93 ePn 48 10.72 -0.7
 OUR 2.54 84 ePn 48 15.36 0.8
 S.D. = 1.0 on 15 of 15 obs.

* FEB 16, 1993 21h 11m 39.52± 0.44s
 22.194 S ± 8.8km 172.830 E ± 9.0km
 DEPTH = 22.8km (4 depth phases)
 5.0mb (15 obs.) 4.4Msz (1 obs.)
 LOYALTY ISLANDS REGION (189)

DZM 5.92 270 iPd 13 07.80 -0.4
 S 14 17.90
 NOZ 16.97 166 eP 15 38.30 1.3
 MNG 18.51 174 eP 15 55.30 -0.8
 BRS 18.92 250 iPc 16 02.50 1.1
 S 16 03.00
 LTZ 20.54 181 eP 16 18.00 -1.0
 ARMA 20.67 242 iPc 16 21.60 1.0
 S 16 22.00
 CNB 24.30 232 iPd 16 59.60 3.1X
 S 17 00.40
 CAN 24.57 233 eP 17 00.40 1.3
 BWA 24.64 235 eP 16 58.50 -1.2
 S 17 05.30
 CTA 24.87 270 iPc 17 03.00 1.0
 CMS 25.75 243 iPc 17 10.10 -0.2
 S 17 10.10
 TOO 28.09 231 iPc 17 31.40 -0.3
 S 17 31.40
 ASPA 35.81 260 eP 18 37.80 -1.6
 S 18 37.80
 Z 21s 0.70um 4.4Msz
 WB2 35.91 266 iPc 18 41.70 13kmX
 S 18 41.70
 SPA 67.94 180 iPc 22 38.60 0.0
 S 22 38.60
 CN2 78.74 327 eP 23 41.80 0.1
 S 23 41.80
 TIY 82.28 316 eP 24 02.20 1.5
 S 24 02.20
 Z 26s 0.56um 4.8MszX
 XAN 82.58 311 eP 24 05.60 3.3X
 KMI 82.67 301 Pc 24 06.50 3.3X
 S 24 06.50
 CHTO 82.92 294 eP 24 06.00 1.7
 HHC 84.65 318 eP 24 12.80 0.0
 BTO 85.47 317 eP 24 16.00 -0.9
 CMB 86.67 47 ePd 24 22.71 -0.1
 S 24 22.71
 ISA 86.78 49 ePd 24 23.45 0.0
 S 24 23.45
 LZH 87.19 311 eP 24 29.50 4.0X
 S 24 29.50
 YAK 90.69 341 eP 24 40.20 -1.0
 S 24 40.20
 RMW 90.79 38 eP 24 41.77 -0.3
 ARUT 91.34 50 (P) 24 45.13 0.1
 GTA 91.59 312 eP 24 47.00 0.9
 S 24 47.00
 FBA 91.95 16 eP 24 45.40 -1.6
 S 24 45.40
 VRI 143.73 319 ePKP 31 12.00 -2.4
 MLR 144.39 319 ePKP 31 11.00 -4.7X
 OJC 144.93 330 ePKP 31 14.90 -1.4
 SPC 145.41 328 ePKP 31 17.30 -0.1
 KSP 146.04 333 ePKP 31 16.50 -1.7
 EKA 146.77 356 PKP 31 20.00 0.9
 S 31 20.00
 BRG 146.97 335 ePKP 31 26.50 6.9X
 CLL 146.97 337 ePKP 31 21.00 1.4

VRAC 1.5s 56.00nm 31 22.30 2.6
 S 31 22.30
 SRO 2.9s 466.60nm 31 24.80 4.6X
 PRU 147.28 328 ePKP 31 24.80 4.6X
 147.42 334 PKP 31 22.90 2.5
 S 31 22.90
 ZST 147.61 329 ePKP 31 25.10 5.0X
 S 31 25.10
 MOX 148.02 337 ePKP 31 24.00 2.7X
 WTS 148.35 343 ePKP 31 29.50 7.8X
 S 31 29.50
 KHC 148.48 334 ePKP 31 26.00 3.8X
 S 31 26.00
 GEC2 148.65 333 PKP 31 25.50 3.0X
 S 31 25.50
 GEC2 148.65 333 PKP 31 31.30 8.8X
 GEC2 148.65 333 PKP 31 35.20 12.7X
 GRF 148.95 337 ePKP 31 27.70 4.8X
 S 31 27.70
 SKO 148.98 316 iPKP 31 32.50 9.4X
 S 31 32.50
 BCOA 149.48 238 iPKPd 31 33.30 8.6X
 S 31 33.30
 ENN 149.70 343 ePKP 31 32.50 8.6X
 S 31 32.50
 OHR 149.83 315 ePKP 31 11.50 -13.0X
 SNF 150.34 345 PKPc 31 35.20 10.3X
 WLF 150.63 342 PKP 31 33.00 7.7X
 DOU 150.65 344 PKPc 31 35.00 9.6X
 CDF 151.41 340 ePKP 31 35.60 8.9X
 S 31 35.60
 HAU 152.06 340 ePKP 31 37.70 10.1X
 S 31 37.70
 BSF 152.07 340 ePKP 31 37.70 10.0X
 S 31 37.70
 FLN 152.96 350 ePKP 31 34.30 5.5X
 LDF 153.06 350 ePKP 31 34.20 5.3X
 GRR 153.38 351 ePKP 31 35.20 5.8X
 LOR 153.45 343 ePKP 31 40.70 11.1X
 S 31 40.70
 SSF 153.73 343 ePKP 31 41.40 11.5X
 S 31 41.40
 LPF 153.76 351 ePKP 31 35.70 5.8X
 AVF 154.02 343 ePKP 31 41.70 11.4X
 S 31 41.70
 S.D. = 1.3 on 34 of 66 obs.

FEB 16, 1993 21h 39m 12.58± 0.35s
 23.018 S ± 5.9km 69.305 W ± 7.2km
 DEPTH = 84.0km (5 depth phases)
 5.0mb (15 obs.)

NORTHERN CHILE (123)
 ANT 1.23 236 iP+ 39 36.20 1.3
 S 39 36.20
 HJA 3.60 94 iPc 40 09.50 2.4
 YJA 3.61 77 iPc 39 10.00 -57.8X
 SLA 3.88 117 ePc 40 13.00 1.7
 FSA 4.28 136 iP 40 18.00 1.4
 CNCB 6.30 12 P 40 46.20 0.9
 CCH 6.35 29 P 40 47.00 1.3
 LPB 6.55 10 P 40 49.00 0.4
 ZOBO 6.79 10 iPc 40 52.10 0.0
 Z 25s 0.32um
 S 41 19.00
 (S) 42 52.00
 LR 43 22.00
 ARE 6.84 342 eP 40 50.00 -2.5
 RTRS 7.12 181 e(P) 40 53.00 -3.0
 CFA 8.61 174 ePd 41 13.00 -3.5X
 RTCV 8.83 176 ePc 41 15.70 -3.9X
 TCA 9.29 154 iPc 41 21.90 -3.9X
 MDZ 9.84 178 e(P) 41 32.90 -0.3
 MRA 9.88 162 ePc 41 29.80 -4.0X
 PEL 10.16 187 eP 40 42.00 -55.6X
 S 40 42.00
 SIV 10.44 49 eP 41 41.00 -0.5
 RFA 11.73 177 eP 41 53.00 -5.7X
 NNA 13.11 326 eP 42 23.50 6.7X
 S 42 23.50
 PPD 16.66 90 eP 42 58.40 -3.8X

[illegible]

MAIO	23.89	274	eS iPc	09 42.00 05 42.00	2.2	LLS	57.42	307	ePd	10 15.30	-1.0	RSSD	97.03	10	eP	13 58.90	0.3
NST	24.44	155	eS eP	10 05.00 05 46.00	1.0	CDF	57.89	309	eP	10 18.90	-0.5	SIV	145.88	303	PKP	20 11.50	5.5X
NJ2	24.74	96	Pd	05 52.00	4.1X	BSF	58.42	308	eP	10 22.60	-0.6	CCH	150.17	308	ePKP	20 18.00	4.9X
Z	12s	0.80um		4.4MsZ		HAU	58.62	309	eP	10 23.90	-0.6	ZOBO	150.53	312	PKP	20 14.00	-0.1
KHT	24.79	159	eP	05 53.40	4.9X	Z	19s	0.35um		4.5MsZ		Z	22s	0.50um		4.2MsZ	
GZH	25.42	120	Pd	05 55.00	0.6	DIX	58.74	306	ePc	10 25.60	-0.1			eLR	20 00.00		
OIZ	26.13	132	eP	06 00.80	-0.3	LPL	59.41	306	eP	10 30.30	0.1	LPB	150.70	312	PKP	20 14.00	-0.1
SNY	26.22	71	eP	06 02.00	0.3	SBF	59.66	304	eP	10 31.30	-0.5	CNCB	150.85	311	PKP	20 15.70	1.2
Z	16s	1.00um		4.5MsZ			1.1s	39.30nm		5.5mb		S.D.	1.0	on 113 of 119 obs.			
GBA	26.84	207	P	06 07.00	-0.6	LOR	60.46	309	eP	10 35.90	-1.2	% FEB 17, 1993 02h 23m 12.09± 0.74s					
SSE	26.95	96	Pc	06 10.50	2.0	Z	19s	0.30um		4.5MsZ		37.467 N ± 7.2km				3.744 W ± 6.7km	
Z	10s	35.00nm		5.0mb		LBF	60.51	308	eP	10 36.50	-1.0	DEPTH = 10.0km (geophysicist)					
CN2	27.52	67	eP	06 15.80	2.2	SMF	60.74	308	eP	10 38.30	-0.8	SPAIN					(377)
Z	10s	12.00nm		4.6mb		SSF	60.77	309	eP	10 38.50	-0.7	mbLg 2.5 (MDD).					
YAK	34.13	33	eP	07 10.00	-1.8	EKA	60.92	319	P	10 40.00	-0.1	ECOG	0.24	143	iPg	23 18.50	1.3
Z	14s	0.80um		4.6MsZ		AVF	60.98	308	eP	10 40.00	-0.6	ELUO	0.43	283	iPg	23 21.50	0.2
E	12s	0.60um		59kmX		BGF	61.40	308	eP	10 42.70	-0.8	EGUA	0.65	167	ePg	23 24.00	-1.1
OBN	38.91	313	iPc	07 53.00	0.7	MAF	61.72	308	eP	10 45.50	-0.2	EBAN	0.70	357	ePg	23 26.10	0.2
Z	16s	1.40um		4.9MsZ		TCF	61.91	308	eP	10 46.70	-0.3	EHUE	0.98	69	ePg	23 30.20	-0.5
E	14s	1.30um		5.4mb		LDF	62.27	311	eP	10 48.60	-0.7	EHOR	1.25	287	ePn	23 35.10	-0.1
KKM	40.25	136	ePc	08 08.00	1.2	FLN	62.40	312	eP	10 49.30	-0.9	S.D.	1.0	on 6 of 6 obs.			
KAF	44.61	323	iP	08 09.10	0.3	Z	23s	0.30um		4.4MsZ		% FEB 17, 1993 02h 27m 53.68± 1.36s					
SDF	45.00	331	iP	08 42.40	0.4	CAF	62.63	307	eP	10 51.70	-0.1	38.580 S ± 8.3km				175.700 E ± 6.1km	
NUR	45.40	321	iP	08 45.60	0.4	GRR	62.80	311	eP	10 52.00	-0.8	DEPTH = 193.8 ± 12.9 km					
VR1	46.11	300	eP	08 52.50	1.5	RJF	62.80	308	eP	10 52.90	0.0	NORTH ISLAND, NEW ZEALAND					(159)
MLR	46.73	300	iPc	08 57.50	1.4	Z	20s	0.17um		4.2MsZ		NGZ	0.60	187	P	28 20.80	-0.1
UPP	48.95	321	iP	09 13.10	0.1	LPF	63.07	311	eP	10 53.90	-0.7	CNZ	0.63	191	P	28 20.90	-0.1
SPC	49.54	306	eP	09 19.20	1.2	MFF	63.21	309	eP	10 54.90	-0.6	WHH	0.69	116	P	28 20.30	-1.0
OJC	49.56	308	iP	09 18.70	0.8	LFF	63.45	307	eP	10 57.30	0.1	WLZ	0.71	353	Pc	28 21.70	0.4
PSZ	50.10	305	eP	09 22.00	-0.2	IMA	65.23	24	iPc	11 08.48	-0.2	PAHZ	1.10	105	P	28 23.70	-0.1
HFS	50.86	321	eP	09 27.70	0.1	TTA	66.43	27	eP	11 17.50	1.2	URZ	1.15	74	P	28 23.40	-0.7
Z	16s	494.00um		7.6MsZ		FBA	67.84	23	iPc	11 24.91	-0.2	WAHZ	1.23	156	Pc	28 25.00	0.2
SRO	51.15	305	eP	09 30.20	0.2	CRP	68.90	27	eP	11 32.48	0.6	MOH	1.26	116	P	28 25.40	0.4
KSP	51.56	309	iPc	09 33.20	0.1	RSO	69.22	28	(P)	11 35.00	1.1	TTH	1.30	138	P	28 25.00	-0.4
ZST	51.81	306	eP	09 37.20	2.1	PMR	69.73	26	eP	11 36.50	-0.2	BSZ	1.36	206	P	28 26.50	0.7
NB2	51.88	323	P	09 35.00	-0.5	SLKM	70.11	27	eP	11 38.72	-0.4	TEHZ	1.65	149	P	28 28.90	0.3
PRU	52.88	309	Pc	09 43.40	0.4	KLU	70.88	25	eP	11 43.80	-0.1	MAHZ	1.81	110	P	28 30.60	0.5
CLL	53.41	311	iPc	09 46.80	-0.1	WRA	71.63	136	P	11 48.50	-0.3	NOZ	1.83	92	P	28 30.80	0.5
KHC	53.74	308	eP	09 50.50	1.0	WB2	71.64	136	iPc	11 47.70	-1.1	MNG	2.04	185	Pc	28 32.70	0.2
GEC2	53.76	307	P	09 50.20	0.6	BCAO	72.34	262	iPd	11 52.00	-1.2	KIW	2.36	195	P	28 36.10	0.1
MOX	54.45	310	eP	09 54.20	-0.4	BALM	72.38	24	eP	11 53.13	0.2	CAW	2.57	191	P	28 38.50	0.1
KBA	54.58	305	iPc	09 54.20	-1.6	ASPA	74.42	138	eP	12 04.50	-0.6	MTW	2.58	183	P	28 38.20	-0.3
GRF	55.01	309	iPc	09 59.50	0.8	YKA	77.67	11	eP	12 21.70	-1.2	DIW	2.61	211	P	28 39.20	0.4
Z	17s	0.60um		4.7MsZ		RMO	85.05	129	eP	13 04.20	2.1	MRW	2.76	196	P	28 40.50	0.0
FUR	55.51	307	iPc	10 02.80	0.4	JAO	87.36	351	eP	13 13.00	-0.2	S	29 12.80				
WTTA	55.60	306	iPc	10 02.90	-0.4	GMW	89.79	21	eP	13 26.91	1.9	BLW	2.79	183	P	28 40.80	-0.1
WATA	55.62	306	iPc	10 02.80	-0.5	SES	89.83	13	eP	13 25.00	-0.2	TCW	2.85	202	P	28 41.80	0.2
SQTA	55.89	306	iPc	10 04.60	-0.7	NEW	90.60	17	eP	13 29.85	1.1	MOW	2.86	187	P	28 41.50	-0.3
MOTA	55.91	306	iPc	10 04.70	-0.8	DPW	90.71	18	eP	13 30.52	1.2	ORZ	3.32	226	P	28 47.30	0.0
OSS	56.77	306	ePd	10 11.20	-0.5	LON	90.79	21	eP	13 31.28	1.6	KHZ	4.17	203	P	28 57.90	0.0
DAG	57.03	345	iPd	10 12.00	-1.0	LCCM	94.05	15	eP	13 45.40	0.6	LTZ	4.94	211	eP	29 07.30	-0.5
VDL	57.27	306	ePd	10 14.70	-0.6							S.D.	0.4	on 25 of 25 obs.			
SLE	57.39	308	ePc	10 14.90	-1.0							? FEB 17, 1993 02h 28m 22.75± 1.50s					
												22.711 N ± 27.4km				94.378 E ± 24.3km	
												DEPTH = 125.2 ± 13.6 km					
												4.4mb (8 obs.)					
												MYANMAR					(296)
												SHL	3.64	322	iPn	29 19.00	0.4
												GUN	9.27	306	P	30 34.60	-0.5
												PKI	9.46	303	P	30 37.60	0.0
												KKN	9.66	303	P	30 40.00	-0.2
												DMN	9.71	302	P	30 41.00	0.1
												WRA	57.61	134	P	38 02.30	0.3
														0.6s	0.60nm		3.8mb

17d 02h

WB2 57.62 134 iPd 38 01.70 -0.4
0.4s 4.00nm 4.7mb
HFS 65.97 327 eP 38 56.30 -1.0
0.4s 2.40nm 4.5mb
GEC2 67.23 315 P 39 05.90 0.2
0.6s 1.16nm 4.0mb
LPG 72.56 313 eP 39 38.80 0.5
0.4s 1.10nm 4.0mb
LPL 72.56 313 eP 39 38.80 0.5
0.4s 1.90nm 4.2mb
S.D. = 0.6 on 11 of 11 obs.

& FEB 17, 1993 02h 34m 49.71s
61.613 N 146.798 W
DEPTH = 27.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

SCM 0.34 311 iPc 34 57.16 -0.4
eS 35 03.27
KLU 0.44 106 iPc 34 58.43 -0.6
eS 35 05.47
VLZ 0.53 155 iPc 34 59.39 -1.1
iS 35 07.05
SML 0.76 286 iPc 35 02.56 -1.7
eS 35 13.55
TZL 0.78 56 eP 35 03.65 -1.0
GHO 1.03 280 iPc 35 06.69 -1.7
eS 35 21.22
SDG 1.09 32 iPd 35 07.74 -1.5
eS 35 22.20
PLRM 1.12 270 ePc 35 08.34 -1.2
eS 35 23.27
PMR 1.12 270 iPd 35 07.84 -1.7
CVA 1.19 154 eP 35 09.57 -1.0
HIN 1.23 173 iPd 35 10.88 -0.3
eS 35 28.23
PTE 1.31 236 iPd 35 11.80 -0.5
PMS 1.38 256 P 35 12.80 -0.5
GLB 1.44 96 iPc 35 12.74 -1.5
eS 35 31.43
PWA 1.47 273 P 35 14.10 -0.5
PAX 1.50 24 iPd 35 13.57 -1.6
RAGM 1.61 139 ePd 35 15.98 -0.7
MPA 1.68 229 eP 35 17.12 -0.5
eS 35 39.84
CUT 1.82 297 P 35 19.20 -0.5
THY 1.87 15 eP 35 20.32 -0.2
SUA 1.90 267 ePc 35 20.71 -0.2
HUR 1.91 317 eP 35 20.70 -0.3
eS 35 44.74
CRQM 1.97 114 eP 35 21.54 -0.5
SEW 1.99 222 eP 35 21.55 -0.7
SLKM 2.00 238 eP 35 21.92 -0.4
RND 2.04 333 eP 35 22.54 -0.4
eS 35 48.30
TGL 2.11 112 ePc 35 22.76 -1.2
MID 2.20 174 P 35 25.20 0.0
BALM 2.22 103 ePc 35 24.20 -1.4
SKT 2.28 281 ePc 35 25.54 -0.7
NKA 2.32 250 eP 35 27.23 0.4
MCK 2.34 336 eP 35 27.58 0.3
DOT 2.40 31 eP 35 28.17 0.1
SNH 2.41 125 eP 35 28.58 0.4
TRF 2.45 320 eP 35 28.23 -0.7
SPU 2.57 263 eP 35 29.41 -1.0
CRP 2.60 265 eP 35 30.28 -0.7
CKN 2.62 264 P 35 32.00 0.8
CKT 2.63 263 eP 35 30.48 -0.9
CP2 2.64 265 eP 35 31.37 -0.2
CKL 2.70 264 eP 35 31.18 -1.1
BGL 2.71 265 eP 35 32.58 0.1
CTGM 2.72 101 eP 35 31.87 -0.8
YAH 2.76 115 eP 35 32.18 -1.2
HDA 2.80 359 eP 35 32.47 -1.3
DFR 3.04 253 eP 35 36.43 -0.7
CCB 3.08 352 eP 35 37.76 0.1
RSO 3.12 251 eP 35 36.70 -1.7
FBA 3.33 353 eP 35 38.92 -2.3
IMA 5.41 329 eP 36 08.30 -2.5

50 obs. associated

& FEB 17, 1993 02h 36m 14.92s
34.210 N 117.582 W
DEPTH = 7.9km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS), 2.6 (GS).

Felt (IV) at Mount Baldy.

SSK 0.09 270 iPc 36 17.23 -0.2
PEC 0.47 132 iPd 36 23.53 -0.9
PLM 1.04 145 iPd 36 33.58 -1.4
eS 36 46.74
GSC 1.26 30 eP 36 37.82 -0.8
eS 36 54.04
ISA 1.62 333 ePn 36 43.16 -0.8
eS 37 04.89
BCH 2.28 296 ePn 36 52.53 -1.0
GLA 2.57 116 ePn 36 56.38 -1.2
7 obs. associated

FEB 17, 1993 03h 44m 05.02 ± 0.66s
41.011 N ± 6.4km 22.436 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.1 (THE).

GRG 0.06 206 ePgc 44 07.09 -0.2
eSg 44 08.44
VAY 0.33 18 iPg 44 11.40 -0.4
iSg 44 16.30
KNT 0.38 67 ePg 44 13.16 0.3
eSg 44 18.96
THE 0.55 133 ePg 44 15.96 -0.3
eSg 44 24.16
SOH 0.72 105 ePgc 44 19.40 0.2
FNA 0.83 255 ePg 44 21.52 0.3
eSg 44 33.44
SRS 0.88 83 ePg 44 22.00 0.1
eSg 44 34.08

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

* FEB 17, 1993 04h 15m 22.63 ± 0.93s
36.434 N ± 14.4km 71.275 E ± 10.3km
DEPTH = 33.0km (normal)
3.7mb (2 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

QUE 7.20 211 eP 17 06.30 -2.2
eS 18 30.00
NDI 9.21 145 eP 17 34.00 -2.2
iS 19 16.00
MAIO 9.50 273 iPd 17 42.00 1.7
eS 19 22.00
GKN 14.08 123 P 18 42.40 0.4
0.5s 23.00nm 5.1mb X
DMN 14.65 123 P 18 50.40 0.8
0.5s 24.00nm 4.9mb X
KKN 14.65 122 P 18 50.00 0.4
0.6s 33.00nm 5.0mb X
PKI 14.88 122 P 18 53.20 0.5
0.5s 16.00nm 4.6mb X
GUN 14.99 120 P 18 53.00 -1.1
0.5s 22.00nm 4.7mb X
HYB 20.01 159 eP 19 57.50 2.0
GBA 23.40 165 P 20 31.00 1.6
S 25 19.00
NB2 44.57 323 P 23 32.40 -0.5
0.5s 1.20nm 4.0mb
YKA 81.30 3 eP 27 35.20 -1.3
0.8s 0.40nm 3.5mb

S.D. = 1.6 on 12 of 12 obs.

* FEB 17, 1993 05h 16m 09.01 ± 2.18s
12.547 S ± 9.8km 167.016 E ± 8.8km
DEPTH = 320.9 ± 21.1 km
4.5mb (15 obs.)

SANTA CRUZ ISLANDS (184)

DZM 9.49 183 iPc 18 22.20 0.4
iS 19 08.30
BRS 19.90 220 iPc 20 19.50 1.3
0.8s 10.00nm 4.2mb
CTA 21.27 247 iPd 20 31.50 -0.1
0.7s 15.41nm 4.4mb
RMO 22.06 228 iPd 20 40.20 1.1
1.0s 75.00nm 5.0mb
ARMA 22.78 216 iPc 20 42.30 -3.7X
0.7s 25.00nm 4.7mb
CMS 27.13 223 eP 21 26.30 0.8
0.8s 4.00nm 3.9mb
WAHZ 28.28 165 P 21 34.80 -0.8
ORZ 28.58 171 eP 21 39.90 1.7
MNG 28.94 167 P 21 40.20 -1.1

KIW 29.05 168 eP 21 41.60 -0.7
MRW 29.36 168 eP 21 44.70 -0.3
BLW 29.65 167 P 21 47.10 -0.5
MOW 29.65 167 P 21 46.70 -0.9
STK 30.27 226 iPc 21 53.50 0.4
0.7s 2.10nm 3.7mb
LTZ 30.47 172 P 21 54.70 0.0
0.6s 36.00nm 5.0mb
BWZ 31.97 176 eP 22 07.40 -0.2
WB2 32.17 252 iPd 22 07.70 -2.0
0.8s 9.00nm 4.3mb
WRA 32.18 252 P 22 08.20 -1.6
0.7s 1.20nm 3.5mb X
ASPA 33.28 246 iPd 22 17.40 -1.8
0.5s 17.50nm 4.8mb
i 23 04.50
TUZ 33.37 177 P 22 20.50 0.9
WARB 40.26 244 eP 23 17.20 0.0
CRP 80.33 19 (P) 27 45.20 -0.8
SLKM 80.38 20 eP 27 45.23 -0.9
TTA 80.50 16 eP 27 46.35 -0.4
0.5s 2.99nm 4.4mb
PMR 81.54 20 eP 27 51.08 -0.9
0.6s 9.18nm 4.8mb
IMA 83.62 15 eP 28 02.98 0.3
0.7s 2.92nm 4.2mb
FBA 84.36 18 eP 28 05.16 -1.1
0.7s 21.06nm 5.1mb
GUN 88.13 299 PKP 28 27.40 1.6
PKI 88.44 299 PKP 28 28.20 1.0
KKN 88.61 299 PKP 28 28.80 0.9
DMN 88.71 299 PKP 28 29.80 1.4
GKN 89.22 299 PKP 28 31.40 0.8
ARUT 89.50 51 (P) 28 33.02 1.3
NEW 90.07 40 ePd 28 34.47 0.6
0.9s 14.18nm 4.9mb
MSU 90.66 51 ePc 28 38.73 1.6
LCCM 92.80 44 eP 28 48.10 1.4
YKA 95.73 27 eP 28 58.30 -1.2
0.6s 1.60nm 4.4mb
KAF 123.08 339 iPKP 34 28.90 0.4
0.5s 4.60nm
NUR 124.76 338 iPKP 34 32.80 1.0
0.4s 10.00nm
LMN 125.18 42 ePKP 34 36.50 3.4X
NB2 128.46 345 PKP 34 40.00 1.0
0.7s 2.90nm
GEC2 137.59 334 PKP 34 58.00 1.2
0.8s 2.11nm
LDF 142.50 346 ePKP 35 03.30 -2.1
0.6s 2.55nm
LOR 142.61 341 ePKP 35 03.90 -1.8
LBF 142.82 341 ePKP 35 04.60 -1.5
GRR 142.87 347 ePKP 35 04.40 -1.6
0.8s 7.40nm
SSF 142.90 341 ePKP 35 04.50 -1.7
0.5s 2.20nm
LPL 143.11 337 ePKP 35 05.60 -1.3
0.5s 2.85nm
LPG 143.12 337 ePKP 35 05.60 -1.4
0.7s 3.00nm
LPF 143.25 347 ePKP 35 05.40 -1.3
0.6s 4.25nm
BGF 143.56 342 ePKP 35 06.40 -0.9
0.6s 5.30nm
MAF 143.95 342 ePKP 35 07.80 -0.2
0.5s 2.85nm
SBF 144.19 334 ePKP 35 08.30 -0.2
0.7s 36.05nm
LSF 144.23 343 ePKP 35 08.50 0.1
MFF 144.37 345 ePKP 35 08.50 -0.1
0.9s 21.80nm
PGF 144.54 332 ePKP 35 09.10 -0.1
0.7s 31.00nm
FRF 144.76 335 ePKP 35 09.70 0.3
0.8s 29.40nm
SOB1 144.84 127 ePKP 35 11.20 0.8
LRG 144.97 335 ePKP 35 10.00 0.3
0.5s 7.60nm
LMR 145.01 335 ePKP 35 01.50 -8.3X
1.0s 41.00nm
RJF 145.09 342 ePKP 35 11.10 1.2
1.2s 36.30nm
CAF 145.26 341 ePKP 35 11.80 1.5
1.0s 11.60nm
LFF 145.65 343 ePKP 35 12.70 1.8
0.6s 13.70nm

17d 05h

LPO 145.75 342 ePKP 35 13.10 2.0
0.7s 12.55nm
EPF 147.51 342 ePKP 35 18.40 4.4X
0.6s 3.05nm
BCAO 147.83 258 iPKPc 35 19.20 3.9X
0.2s 16.00nm
ic 36 19.00
EGRA 148.47 342 ePKP 35 21.60 6.2X
ECRI 148.70 345 ePKP 35 22.50 6.6X
ETOR 150.25 343 ePKP 35 25.50 7.2X
GUD 150.96 346 iPKPc 35 27.80 8.3X
ECHE 151.04 341 ePKP 35 27.40 7.9X
EPLA 151.92 349 ePKP 35 29.70 8.9X
EVIA 152.39 342 iPKPd 35 31.10 9.5X
EHUE 153.18 342 iPKPd 35 32.60 9.9X
EGUA 154.38 342 ePKP 35 31.50 7.3X
S.D. = 1.2 on 61 of 75 obs.

& FEB 17, 1993 05h 24m 31.73s
63.220 N 151.066 W
DEPTH = 13.3km
CENTRAL ALASKA (1)
<AEIC>. ML 2.6 (AEIC).

TRF 0.42 56 iP 24 39.99 -0.5
iS 24 47.00
HUR 0.69 110 eP 24 45.52 0.4
S 24 55.58
RND 1.02 78 eP 24 50.71 0.0
eS 25 05.24
MCK 1.09 61 eP 24 51.90 0.0
S 25 07.15
SKT 1.26 190 eP 24 54.69 -0.2
eS 25 11.17
NEA 1.62 32 eP 25 00.04 0.0
eS 25 22.34
PWA 1.67 160 P 25 01.30 0.6
S 25 24.10
GHO 1.76 145 eP 25 02.18 0.0
SUA 1.77 175 eP 25 02.87 0.6
eS 25 26.77
PLRM 1.87 150 eP 25 03.69 0.2
PMR 1.87 150 eP 25 03.55 0.0
SML 1.90 137 eP 25 04.08 -0.1
CRP 2.03 195 eP 25 04.95 -1.1
eS 25 32.81
CCB 2.03 44 P 25 07.40 1.5
S 25 34.80
CPAM 2.04 195 eP 25 05.94 -0.2
CP2 2.04 196 eP 25 05.72 -0.6
eS 25 33.77
CKN 2.07 195 eP 25 06.85 0.3
CKT 2.10 195 eP 25 06.95 0.0
eS 25 35.05
SPU 2.10 193 eP 25 06.45 -0.5
S 25 34.65
PMS 2.10 160 eP 25 07.80 0.7
CKL 2.12 197 eP 25 07.44 0.1
MDM 2.14 34 eP 25 07.96 0.3
S 25 36.88
HDA 2.18 55 eP 25 08.99 0.9
FBA 2.22 39 eP 25 07.79 -0.9
eS 25 37.51
SCM 2.22 127 eP 25 09.93 1.1
TTA 2.27 265 eP 25 08.47 -1.0
eS 25 37.09
GLM 2.40 41 eP 25 12.04 0.8
PTE 2.55 157 eP 25 14.41 1.0
PAX 2.56 93 eP 25 14.06 0.5
SDG 2.62 103 eP 25 15.35 0.9
DFR 2.75 197 eP 25 16.38 0.1
SLKM 2.75 171 eP 25 16.54 0.2
NCT 2.81 199 eP 25 16.49 -0.7
MPA 2.86 163 eP 25 18.89 1.2
RSO 2.88 197 eP 25 18.85 0.6
RS1 2.88 197 eP 25 18.72 0.4
KLU 2.96 124 eP 25 19.89 0.6
SVW 3.01 227 (P) 25 18.72 -1.2
VLZ 3.05 131 eP 25 21.09 0.7
IMA 3.07 340 eP 25 17.28 -3.6
eS 26 00.36
SEW 3.22 165 eP 25 23.63 0.8
GLB 3.83 115 eP 25 32.43 0.9

42 obs. associated

FEB 17, 1993 05h 59m 49.26 ± 0.16s
7.784 S ± 3.3km 117.392 E ± 4.5km

DEPTH = 280.1km (2 depth phases)
5.2mb (52 obs.)
BALI SEA (278)
Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 24C
Centroid Location:
Origin Time 05:59:53.7 0.7
Lat 7.78S 0.06 Lon 117.53E 0.11
Dep 273.9 3.3 Half-duration 1.1
Moment Tensor: Scale 10**16 Nm
Mrr= 2.85 0.43 Mtt=-2.35 0.54
Mff=-0.50 0.82 Mrt= 7.19 0.49
Mrf=-0.68 0.71 Mtf= 1.30 0.65
Principal Axes:
T Val= 7.90 Plg=55 Azm=358
N -0.21 8 99
P -7.69 34 194
Best Double Couple: Mo=7.8*10**16
NP1: Strike=315 Dip=13 Slip= 127
NP2: 97 80 82

KHKI 1.86 252 iPd 00 33.00 -0.4
i(S) 01 07.00
e 06 20.70
MKS 3.28 39 iPd 00 48.50 1.5
PCI 7.26 20 ePc 01 38.00 3.9X
AAI 11.49 70 eP 02 32.00 5.0X
MNI 11.80 39 ePc 02 34.50 3.7X
KLI 12.79 282 eP 02 46.50 3.5X
e 03 04.00
TNE 13.08 50 iPc 02 49.10 2.6
KKM 13.79 355 ePc 02 58.20 2.9
0.8s 323.00nm 5.7mb
e 05 33.00
MTN 14.42 112 eP 03 01.00 -1.8
0.3s 443.00nm 6.3mb X
SWI 15.44 64 iPd 03 14.00 -1.0
KGM 17.08 304 ePc 03 34.10 1.4
MEEK 18.79 177 iPd 03 49.50 -0.7
0.5s 235.00nm 5.9mb
eS 07 22.00
WARB 20.31 155 iPd 04 05.00 -0.3
WRA 20.39 128 P 04 05.90 -0.3
WB2 20.40 128 iPd 04 05.40 -0.9
iS 07 34.20
eScS 14 55.10
IPM 20.43 306 ePc 04 07.90 1.3
0.5s 16.50nm 4.7mb
MRWA 21.36 183 iPd 04 15.90 0.4
0.7s 83.00nm 5.3mb
ASPA 22.36 137 iPd 04 24.90 -0.4
0.6s 422.90nm 6.0mb
Z 22s 0.30um 3.7msz
eS 08 06.60
iScS 15 03.30
SNG 22.38 311 eP 04 26.00 0.6
BAL 22.71 182 eP 04 27.70 -0.9
0.6s 95.00nm 5.4mb
COOL 23.25 172 iPd 04 32.50 -1.1
0.5s 62.00nm 5.3mb
KLB 23.69 179 iPd 04 37.00 -0.7
0.5s 25.00nm 4.9mb
BAG 24.24 7 ePc 04 43.00 -0.1
FORT 24.96 158 iPd 04 48.60 -0.7
RKG 26.66 181 iPd 05 04.90 0.2
0.4s 21.00nm 5.0mb
QIZ 27.66 344 P 05 14.80 1.0
NST 28.90 324 iPc 05 27.00 2.2
KHT 29.16 320 iPc 05 28.40 1.3
CTA 30.50 117 iPc 05 39.00 0.1
0.9s 16.81nm 4.6mb
i 05 43.40 15kmX
GZH 30.93 353 iPc 05 43.60 1.1
CHTO 32.09 326 iPc 05 53.70 1.1
1.0s 33.00nm 4.9mb
STK 32.90 140 iPd 05 59.10 -0.4
0.5s 75.60nm 5.5mb
eS 10 55.50
eScP 11 53.00
ADE 33.39 147 iPd 06 03.60 -0.1
GUMO 34.57 52 eP 06 12.60 -1.2
0.9s 433.70nm 6.0mb
PJG 34.57 52 eP 06 12.80 -1.0
GUA 34.58 52 eP 06 12.80 -1.0
0.8s 268.66nm 5.8mb

RMO 35.12 126 iPd 06 19.00 0.7
0.7s 38.00nm 5.0mb
iPcP 07 43.70
iScP 12 01.70
CMS 35.48 135 iPd 06 21.30 0.0
0.8s 23.00nm 4.8mb
GYA 35.60 343 iPc 06 23.80 1.4
1.4s 100.00nm 5.2mb
KMI 35.69 337 Pc 06 26.00 2.7
1.2s 220.00nm 5.6mb
BFD 37.12 146 iPd 06 35.20 0.2
0.5s 91.00nm 5.5mb
e 08 02.40 461kmX
WHN 38.22 356 eP 06 46.00 1.9
1.0s 71.00nm 5.1mb
pP 07 42.00 275km
BRS 38.75 125 iPc 06 49.50 0.9
0.5s 56.00nm 5.2mb
i 07 34.00 211kmX
i 08 24.00
SSE 38.83 5 Pd 06 50.10 1.0
1.0s 70.00nm 5.0mb
PcP 08 48.00
BWA 38.95 137 eP 06 51.90 1.7
TOO 39.08 144 iPd 06 52.40 1.2
0.8s 172.00nm 5.5mb
eS 12 16.90
ARMA 39.16 130 iPd 06 53.60 1.6
0.8s 37.00nm 4.8mb
iPcP 08 27.00
eScP 12 17.20
NJ2 39.64 2 Pc 06 57.50 1.8
1.0s 140.00nm 5.3mb
CAN 39.86 138 iPd 06 58.20 0.5
e 08 34.10 533kmX
CNB 40.10 138 iPc 07 00.10 0.4
0.9s 28.00nm 4.6mb
eS 12 20.00
RIV 40.51 135 iPd 07 04.20 1.3
0.7s 1452.00nm 6.4mb X
CD2 40.63 342 iPc 07 04.80 0.8
0.9s 130.00nm 5.3mb
KAGJ 40.85 18 P 07 05.50 -0.2
SHL 41.41 324 iPc 07 11.00 0.4
1.0s 60.00nm 4.9mb
eS 12 25.50
KUMJ 42.09 17 P 07 16.00 0.3
XAN 42.36 350 Pc 07 18.00 0.0
1.0s 60.00nm 4.8mb
SHNJ 43.66 17 P 07 28.70 0.4
TIA 43.76 360 P 07 29.00 -0.1
0.8s 47.00nm 4.9mb
TKSJ 44.44 20 P 07 35.00 0.5
GBA 45.00 298 P 07 37.00 -2.2
LSA 45.01 327 iPc 07 40.80 1.1
1.0s 43.00nm 4.7mb
WKYJ 45.19 21 P 07 40.80 0.2
YONJ 45.35 19 P 07 42.30 0.6
LZH 45.46 345 iPc 07 44.00 1.2
1.5s 84.00nm 4.8mb
pP 09 15.00 477kmX
i 09 44.00
sP 10 25.00
TIY 45.50 354 iPd 07 42.80 -0.1
1.0s 100.00nm 5.1mb
HYB 45.82 303 eP 07 43.50 -2.3
1.0s 35.00nm 4.6mb
DL2 46.62 5 eP 07 51.30 -0.2
1.0s 260.00nm 5.5mb
GUN 46.77 321 P 07 53.00 -0.3
PKI 46.83 320 P 07 52.80 -1.0
1.0s 62.00nm 4.9mb
DMN 47.05 320 P 07 54.40 -1.0
KKN 47.06 320 P 07 55.00 -0.5
1.0s 72.00nm 5.0mb
BJI 47.60 359 eP 07 59.00 0.0
1.0s 160.00nm 5.3mb
PcP 09 24.00
GKN 47.62 320 P 07 59.20 -0.5
CHJJ 48.10 24 P 08 02.00 -1.1
MTMJ 48.11 22 P 08 02.50 -0.8
MAT 48.23 23 iPc 08 02.90 -1.2
1.2s 204.69nm 5.3mb
BTO 48.62 353 P 08 07.00 -0.1
HHC 48.69 354 Pd 08 04.80 -2.8
1.0s 100.00nm 5.1mb
DZM 49.26 112 iPc 08 12.60 0.4

SNY	49.69	6 iPc	08 14.40	-0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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PEC	48.95 310 eP	20 39.51 ± 0.0		S	25 56.00	N 13s	3.90um	
	0.7s 9.27nm	4.4mb				E 13s	3.20um	
GSC	49.25 312 iPd	20 41.61 -0.2	ADAT	6.09 287 ePn	24 29.60 14.0X			
HVU	49.62 321 eP	20 44.40 -0.2	BVST	6.21 315 eP	24 27.90 10.5X		ePP	27 31.00
PTI	49.98 322 eP	20 47.13 -0.2	BNN	6.35 304 eP	24 18.00 -1.5		ePPP	27 40.00
MHA1	50.23 323 eP	20 49.20 0.0	MMR	6.49 249 eP	24 16.70 -4.8X		iS	30 53.00
TNP	50.75 315 iPd	20 53.06 -0.3	HMDT	6.76 243 eP	24 24.80 -0.3		eSS	31 09.00
	0.6s 4.66nm	4.3mb	FAM	7.09 268 eP	24 30.70 0.9		LQ	32 12.00
LCCM	51.42 326 eP	20 57.90 -0.3	TEH	7.12 86 e(P)	24 36.00 5.7X	BRY	20.04 299 iPd	27 17.18 -2.1
BNOR	51.46 314 iPd	20 59.21 0.4	ZNT	7.13 245 eP	24 22.90 -7.4X	PSZ	20.93 313 ePc	27 28.00 -0.4
SES	53.85 331 iPd	21 15.40 -0.5		eS	26 05.20	QUE	21.08 98 eP	27 30.00 -0.1
FCC	54.37 347 ePc	21 21.50 2.1	KVT	7.60 319 eP	24 41.00 4.1X		eS	31 30.00
ORV	54.40 315 iPd	21 19.84 -0.2	CSS	7.64 269 eP	24 39.00 1.5	UZD	21.17 309 eP	27 30.20 -0.6
LBFM	55.40 316 eP	21 26.31 -1.2	CTK	8.04 312 eP	24 43.50 0.3	BUD	21.26 311 eP	27 31.00 -0.7
LGPM	55.88 316 ePd	21 28.98 -1.8	SAGI	8.54 234 eP	24 45.00 -5.1X	SPC	21.36 317 eP	27 31.60 -1.3
DPW	56.15 325 eP	21 32.01 -0.6	AYN	8.69 222 ePc	25 09.71 17.6X	SRO	21.84 312 eP	27 38.20 0.8
VGB	56.52 321 eP	21 35.33 0.2	MRFT	8.80 307 eP	24 54.20 0.5	ATN	21.89 285 Pd	27 38.40 0.3
KMPM	56.59 315 eP	21 36.17 0.4	BBTK	8.95 302 eP	25 00.00 4.2X	SGO	22.07 291 Pd	27 40.10 0.3
GMW	58.69 323 iPd	21 49.04 -1.2	BZK	9.32 316 eP	24 46.00 -14.8X	OJC	22.16 319 eP	27 40.50 -0.1
YKA	63.38 340 eP	22 20.60 -0.8	QASM	9.43 175 eP	25 02.30 0.0		e	27 50.00 35kmX
	0.5s 15.70nm	5.1mb	BADA	9.52 225 eP	25 04.67 1.2	ZAG	22.60 305 iPc	27 45.50 0.5
TIC	67.36 86 P	22 47.38 -0.3	MJMA	9.89 166 eP	25 06.33 -2.4	PTJ	22.64 305 iPc	27 45.50 0.0
LIC	67.39 86 P	22 47.68 -0.2	WAJH	10.67 211 eP	25 18.67 -0.7	ZST	22.74 312 eP	27 46.30 -0.1
	0.6s 12.00nm	4.9mb	HLW	11.07 243 eP	25 24.50 -0.2		e	28 22.50 190kmX
	Z 21s 0.95um	5.0msz	DHR	11.21 143 eP	25 24.21 -2.4		i	29 11.20
KIC	67.66 86 P	22 49.70 0.1	RYD	11.29 161 eP	25 24.00 -3.9X	VBV	22.99 304 eP	27 49.00 0.1
	0.6s 16.00nm	5.0mb	AFIF	11.38 178 eP	25 29.00 -0.2	VKA	23.24 311 eP	27 51.00 -0.3
BALM	74.21 332 eP	23 29.10 1.1	ITU	12.07 302 iPc	25 40.00 1.7	Z 12s	2.70um	4.9MsZX
DAG	75.64 11 iPc	23 36.10 0.4	PRK	13.54 291 eP	26 00.00 2.1		LR	39 45.00
	0.7s 5.48nm	4.4mb	MAIO	13.68 82 eP	26 02.00 2.1	VRAC	23.52 314 iPd	27 55.80 1.9
KLU	76.00 332 eP	23 38.26 0.2		eS	28 38.00		2.5s 798.20nm	5.8mb
PMT	77.53 332 eP	23 47.00 0.7	NPS	13.90 274 eP	26 04.00 1.3	LJU	23.63 305 e(P)	27 56.00 0.9
	0.5s 3.31nm	4.3mb	ALN	14.11 297 eP	26 14.54 9.2X		eS	32 12.00
CRP	78.93 331 eP	23 54.15 -0.1	CFR	14.66 316 eP	26 11.00 -1.5	VOY	24.06 305 eP	28 00.00 0.7
CP2	78.97 331 eP	23 54.72 0.2	RZN	15.30 299 iPc	26 24.00 2.8		e	28 14.50 61kmX
RSO	79.14 330 eP	23 55.55 0.1	ATH	15.38 285 eP	26 26.00 4.1X	TRI	24.06 304 e(P)	28 00.00 0.8
IMA	80.10 336 eP	24 00.70 0.3		eS	29 30.00		e(S)	32 20.00
	0.8							

17d 07h

					i	28 55.50		1.5s	43.35nm	5.2mb	WIN	62.63	207 eP	33 15.00	4.8X
BDI	25.94	299 P		28 17.80	0.5	LPF	34.45	305 eP	29 30.90	-1.9		1.0s	15.00nm		5.1mb
WATA	25.94	307 iPc		28 16.60	-0.8		1.0s	10.40nm		4.7mb	SSE	64.13	69 P	33 19.50	-0.3
SQTA	26.16	306 iPc		28 18.40	-0.9	ECHE	34.56	290 eP	29 34.50	0.5		pP	33 31.50	41kmX	
OGA	26.19	305 eP		28 20.00	0.3	ETOR	35.25	292 iPd	29 39.00	-0.9	IMA	77.96	7 eP	34 42.66	0.0
	1.4s	63.00nm			5.1mb	WMO	35.29	62 Pd	29 40.80	0.6		1.3s	8.13nm		4.6mb
MOTA	26.26	306 iPc		28 19.10	-1.2		0.9s	9.00nm		4.7mb	FBA	79.58	5 eP	34 51.51	0.2
	1.3s	52.20nm			5.0mb	Z	20s	2.09um		4.9Msz		0.9s	6.16nm		4.6mb
FUR	26.37	308 eP		28 21.10	-0.1	N	15s	5.05um			YKA	80.63	350 eP	34 56.40	-0.5
	Z 21s	3.00um			4.8Msz			eS	35 14.00			0.9s	1.20nm		3.9mb
CLL	26.46	316 iPc		28 20.90	-1.0	ECRI	35.43	295 eP	29 41.00	-0.4	CRP	82.81	7 (P)	35 10.11	1.5
	1.7s	29.00nm			4.7mb	EVIA	35.88	289 eP	29 45.00	-0.3	BALM	83.71	2 eP	35 13.70	0.6
	eS			33 17.00		GKN	36.27	90 P	29 48.80	0.1	SOB1	90.08	259 (P)	35 47.00	2.3
KSH	26.65	72 eP		28 27.50	3.5X	DMN	36.80	90 P	29 54.00	0.7	SES	91.36	344 eP	35 52.00	1.8
	0.8s	20.00nm			4.8mb	GUD	36.85	292 iPc	29 53.00	-0.4	S.D. = 1.3 on 173 of 208 obs.				
	Z 12s	6.10um			5.4MszX	KKN	36.87	90 P	29 54.40	0.5	? FEB 17, 1993 08h 31m 11.85± 8.09s				
	N 10s	6.45um				EBAN	36.96	288 eP	29 54.00	-0.2	18.621 N ± 46.1km 67.292 W ± 50.2km				
E	10s	4.46um				EGUA	37.05	286 eP	29 53.70	-1.3	DEPTH = 33.0km (normol)				
	pP			28 33.00	19km	PKI	37.06	90 P	29 54.00	-1.6	MONA PASSAGE (89)				
	sP			28 37.00		PAB	37.16	291 iPc	29 55.00	-1.0	LRS	0.53	127 P	31 22.90	-0.1
	PP			29 11.00		GUN	37.32	89 P	29 57.20	-0.5		S		31 32.15	
	PcP			31 44.00		BCAO	38.11	221 iPc	30 06.00	1.9	APR	0.56	107 P	31 23.50	0.2
	eS			33 02.00			0.9s	23.00nm		5.0mb	MGP	0.64	162 P	31 24.40	0.0
	sS			33 13.00		GBA	38.13	116 P	30 05.00	0.8	PORP	0.84	132 P	31 27.30	0.0
OSS	26.73	305 ePd		28 24.80	0.1	EHOR	38.16	288 iPd	30 03.00	-1.3	LPR	1.39	103 P	31 34.90	-0.2
BOB	26.85	300 Pd		28 26.30	0.6	EPLA	38.39	292 iPd	30 06.30	0.0	CPD	1.43	114 P	31 35.80	0.1
GRF	26.89	312 ePc		28 26.00	0.1	DLF	38.50	313 eP	30 06.70	-0.2	S.D. = 0.2 on 6 of 6 obs.				
	1.4s	63.00nm			5.1mb	DMU	38.80	314 eP	30 09.20	-0.2	* FEB 17, 1993 08h 40m 33.19± 1.10s				
	Z 22s	2.00um			4.6Msz	DCN	38.94	313 eP	30 10.60	-0.1	15.960 S ± 34.9km 71.968 W ± 17.3km				
PGF	26.94	295 eP		28 27.40	0.9	EVAL	39.37	288 eP	30 14.70	0.3	DEPTH = 161.7 ± 9.7 km				
	1.0s	37.20nm			5.0mb	LSA	40.94	84 P	30 29.00	1.0	4.2mb (2 obs.)				
MOX	27.00	314 e(P)		28 24.30	-2.6		Z 24s	8.33um		5.5MszX	SOUTHERN PERU (117)				
	Z 19s	1.60um			4.6Msz	SHL	43.17	89 eP	30 45.00	-1.0	ARE	0.68	138 iPd	40 57.00	-0.4
VAI	27.50	302 Pd		28 30.70	-0.8	GTA	44.90	67 eP	30 59.80	0.0	ZOBO	3.70	96 Pc	41 30.00	-1.2
LLS	27.54	305 ePd		28 31.10	-1.0		Z 2.0s	27.00nm		4.8mb		0.5s	59.74nm		
NUR	27.57	341 eP		28 28.00	-3.9X		E 12s	0.84um		5.0Msz		S		42 14.00	
SLE	28.07	306 iPd		28 36.20	-0.5			sP	31 19.00		LPB	3.76	99 P	41 31.70	0.0
ZLA	28.08	306 ePd		28 36.30	-0.5			eS	37 38.00		CNCB	3.92	103 iPc	41 35.00	1.1
SBF	28.18	298 eP		28 37.20	-0.5	CD2	50.63	77 eP	31 45.00	0.6	CCH	5.76	105 P	41 59.00	1.0
	1.1s	49.10nm			5.2mb		Z 14s	1.43um		5.1MszX	NNA	6.16	309 iP	42 03.00	-0.1
DIX	28.47	303 ePd		28 40.00	-0.6			eS	39 22.00			0.6s	23.33nm		4.6mb X
FRF	28.73	297 eP		28 41.90	-0.7	BTO	52.13	63 eP	31 55.50	-0.3	BAO	23.07	92 iPc	45 25.90	0.3
	1.3s	46.20nm			5.1mb		N 15s	0.74um			PRM	50.74	349 (P)	49 18.48	0.0
LPG	28.85	301 eP		28 43.10	-0.9		E 14s	0.83um			MIAR	54.27	338 eP	49 45.03	0.4
	1.3s	29.25nm			4.9mb	KMI	52.20	84 Pd	31 58.50	1.9		0.6s	2.17nm		4.1mb
LPL	28.86	301 eP		28 43.00	-1.0			eS	42 56.50		FVM	56.39	343 (P)	49 59.74	-0.1
	0.8s	11.15nm			4.7mb		Z 1.9s	100.00nm		5.4mb	RSSD	66.58	335 (P)	51 08.97	0.0
LRG	28.93	297 eP		28 43.70	-0.7			eSS	32 09.00	36kmX	LIC	69.81	77 P	51 27.90	-0.5
	Z 21s	2.95um			4.9Msz		Z 15s	1.20um		5.1MszX	KIC	70.12	77 P	51 29.10	-1.2
CDF	29.02	307 eP		28 43.70	-1.5		N 16s	1.10um			YKA	85.03	342 eP	52 42.00	-9.2X
BSF	29.21	306 eP		28 45.90	-1.1	KIC	52.22	248 P	31 55.26	-1.3		0.7s	3.20nm		4.2mb
HAU	29.54	306 eP		28 48.30	-1.6	LIC	52.53	248 P	31 57.70	-1.2	GBA	150.34	90 PKP	00 11.00	9.0
	Z 23s	2.42um			4.8MszX	MTD	53.05	193 eP	32 01.80	-1.0	S.D. = 0.8 on 13 of 15 obs				
LBF	30.95	304 eP		29 00.70	-1.7	HMC	53.17	62 eP	32 04.40	0.9	FEB 17, 1993 09h 16m 09.46± 0.67s				
	1.0s	6.20nm			4.4mb		Z 10s	1.27um		5.3MszX	40.492 N ± 6.5km 21.859 E ± 5.8km				
SMF	31.00	303 eP		29 01.40	-1.4		N 14s	1.13um			DEPTH = 10.0km (geophysicist)				
	0.7s	8.25nm			4.7mb	XAN	53.50	71 P	32 05.50	-0.4	GREECE (364)				
LOR	31.07	304 eP		29 01.70	-1.7		Z 20s	1.46um		5.0Msz	ML 2.1 (THE).				
	1.2s	11.60nm			4.6mb		N 14s	1.11um			FNA	0.47	309 ePg	16 18.50	-0.5
SSF	Z 23s	2.65um			4.8MszX		E 16s	0.97um			GRG	0.62	41 ePg	16 21.82	-0.2
AVF	31.35	303 eP		29 04.50	-1.4			pP	32 09.00	36kmX		eSg	16 31.82		
	1.0s	13.40nm			4.8mb	GYA	54.78	81 P	32 15.40	-0.2	LIT	0.62	129 ePg	16 20.66	-1.3
BGF	31.67	303 eP		29 07.80	-0.9		Z 30s	1.17um		4.8MszX	VAY	0.99	33 ePn	16 36.50	8.3X
MAF	31.83	302 eP		29 09.30	-0.8			S	39 56.00		OHR	1.01	308 ePn	16 18.20	-10.5X
	1.1s	23.95nm			5.0mb	TIY	54.84	66 eP	32 19.30	3.5X	KNT	1.03	49 ePg	16 29.34	0.3
TCF	32.08	302 eP		29 11.40	-1.0		Z 20s	1.50um		5.1Msz		eSg	16 45.14		
	1.3s	45.15nm			5.2mb		N 16s	1.09um			SOH	1.18	73 ePb	16 31.38	-0.2
CAF	32.09	300 eP		29 11.50	-1.0	BUL	56.93	196 iPd	32 35.00	4.0X		eSb	16 47.98		
NB2	32.44	332 P		29 13.80	-1.5	YAK	58.02	34 eP	32 35.00	-3.0X	AGG	1.51	166 ePb	16 36.82	0.2
	1.0s	5.50nm			4.4mb		0.9s	30.00nm		5.3mb	IGT	1.51	231 ePb	16 37.16	0.5
RJF	32.50	300 eP		29 15.30	-0.7		Z 15s	0.80um		5.0MszX	OUR	1.63	95 ePb	16 39.38	1.1
	1.4s	51.85nm			5.3mb		N 12s	0.60um			S.D. = 0.9 on 8 of 10 obs.				
	Z 23s	2.55um			4.9MszX		E 14s	0.80um			& FEB 17, 1993 10h 32m 02.33s				
LSF	32.55	302 eP		29 15.20	-1.2			e	45 32.00		59.801 N 151.799 W				
LPO	32.71	299 eP		29 16.80	-1.0			e	47 36.00		DEPTH = 50.2km				
LFF	33.04	300 eP		29 19.60	-1.0	NJ2	61.93	69 eP	33 04.20	-1.1	KENAI PENINSULA, ALASKA (14)				
	1.1s	25.40nm			5.1mb		Z 18s	0.59um		4.8Msz					
EPF	33.32	296 eP		29 20.90	-2.3			e							
	0.9s	7.20nm			4.6mb			e							
MFF	33.73	302 eP		29 25.00	-1.6			e							
	0.8s	13.70nm			4.9mb			e							
EGRA	33.84	295 iPd		29 23.40	-4.1X			e							
LDF	33.89	306 eP		29 25.70	-2.3			e							
	1.0s	10.00nm			4.7mb			e							
GRR	34.36	306 eP		29 30.20	-1.8			e							

<AEIC>. ML 2.5 (AEIC).

XLV	0.35	174	eP	32	12.17	0.1
BRLK	0.46	94	eP	32	12.67	-0.6
			eS	32	21.93	
ILIM	0.65	296	iP	32	14.94	-0.6
INE	0.69	293	iP	32	15.35	-0.9
			eS	32	26.08	
INW	0.72	292	eP	32	15.89	-0.7
			eS	32	26.87	
RS1	0.82	324	eP	32	17.27	-0.7
RSO	0.82	325	iP	32	17.35	-0.6
			eS	32	29.30	
RS2	0.82	325	iP	32	17.40	-0.6
			eS	32	29.42	
RDT	0.83	339	eP	32	17.20	-0.8
RDW	0.85	324	iP	32	17.69	-0.7
			eS	32	30.29	
RDN	0.86	326	eP	32	17.70	-0.8
			S	32	30.20	
DFR	0.91	331	eP	32	17.88	-1.2
			eS	32	30.90	
AUE	0.92	242	eP	32	19.01	-0.1
NCT	0.95	324	eP	32	18.62	-1.1
			eS	32	32.02	
AUI	0.95	241	eP	32	19.57	0.0
			S	32	32.76	
NKA	0.99	16	eP	32	21.20	1.2
SLKM	1.06	47	iP	32	20.27	-0.9
PDB	1.21	270	iP	32	22.40	-0.8
			eS	32	37.95	
SEW	1.22	75	eP	32	23.11	-0.2
CDD	1.29	228	iP	32	24.03	-0.3
			eS	32	41.40	
SPU	1.39	355	eP	32	24.85	-0.9
MPA	1.40	59	eP	32	25.03	-0.8
			S	32	41.99	
CKT	1.42	352	eP	32	25.41	-0.8
CKL	1.43	349	eP	32	25.51	-0.8
MCNL	1.43	246	iP	32	25.41	-0.9
			eS	32	44.03	
CKN	1.44	353	eP	32	25.94	-0.5
CPAM	1.47	354	eP	32	26.47	-0.4
CRP	1.48	353	eP	32	26.49	-0.7
CP2	1.48	352	eP	32	26.99	-0.2
PTE	1.74	51	eP	32	30.23	-0.4
SUA	1.75	17	eP	32	30.69	-0.2
PMS	1.82	36	P	32	31.50	-0.3
SKT	2.19	3	eP	32	36.60	-0.4
PLRM	2.23	35	eP	32	36.07	-1.4
SVW	2.30	306	eP	32	37.19	-1.4
GHO	2.43	34	eP	32	39.42	-1.0
SML	2.63	39	eP	32	42.31	-1.0
HIN	2.72	75	eP	32	43.24	-1.3
VLZ	3.02	61	P	32	46.36	-2.4
KLU	3.36	57	iP	32	51.35	-2.3

40 obs. associated

% FEB 17, 1993 11h 21m 29.30±3.00s
32.268 S ±14.8km 71.768 W ±24.1km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.0 (SAN).

ROCH	0.95	138	iP	21	46.29	-0.2
JACH	1.08	113	iP+	21	48.06	-0.1
			iS	22	02.24	
LCCH	1.22	172	iP	21	50.10	0.1
			iS	22	05.07	
PEL	1.26	134	iPd	21	50.85	0.1
			iS	22	06.85	
SAN	1.50	142	iP	21	53.99	-0.3
			iS	22	12.84	
TACH	1.55	153	iP	21	55.18	0.3
			iS	22	14.03	
FCH	1.63	131	iPd	21	56.16	-0.3
			iS	22	16.60	
LNW	1.71	170	eP	21	56.46	-0.7
PCH	1.71	142	iP	21	57.14	-0.2
			iS	22	18.84	
CHCH	1.91	151	iP	22	00.20	0.1
			iS	22	23.57	
CACH	2.09	152	eP	22	03.81	1.0
			iS	22	29.72	
MDZ	2.54	105	e(P)	22	10.30	1.1
RTCB	2.64	74	eP	22	11.80	1.2
			S	22	46.00	

RTLL 2.96 72 ePc 22 15.70 0.6
(S) 22 51.10
TCA 6.18 83 iP 22 58.00 -2.7
S.D. = 1.0 on 15 of 15 obs.

% FEB 17, 1993 11h 27m 11.32±2.47s
31.454 S ±16.5km 68.737 W ±16.5km
DEPTH = 120.0 ± 23.5 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.06 239 iPd 27 28.00 -0.3
RTLL 0.26 62 iPc 27 20.00 -8.7X
CFA 0.45 110 ePc 27 29.10 -0.2
S 27 41.90
RTBS 0.65 251 ePd 27 30.90 0.4
S 27 44.90
MDZ 1.43 184 e(P) 27 57.40 19.0X
RTPR 2.23 60 ePc 27 48.10 -0.1
MRA 2.75 111 ePc 27 55.70 0.8
RFA 3.32 176 ePc 28 02.20 -0.4
S 28 35.00
TCA 3.55 89 iPc 28 05.30 -0.4
(S) 28 44.50
S.D. = 0.7 on 7 of 9 obs.

? FEB 17, 1993 11h 28m 57.30±2.52s
15.364 S ±73.9km 70.527 W ±29.0km
DEPTH = 187.0 ± 41.9 km
3.4mb (1 obs.)

SOUTHERN PERU (117)

ZOBO 2.48 112 iPc 29 41.60 0.3
iS 30 13.00
LPB 2.61 117 P 29 41.70 -0.8
CNCB 2.84 121 iPc 29 46.00 0.6
CCH 4.66 116 iP 30 07.90 -0.1
SIV 9.13 95 P 31 06.40 0.0
YKA 84.92 341 eP 41 11.90 0.0
0.8s 0.60nm 3.4mb
S.D. = 0.8 on 6 of 6 obs.

& FEB 17, 1993 11h 53m 18.10s
36.290 N 120.880 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. MD 2.8 (GM). ML 2.7
(PAS), 2.6 (BRK).

PRI	0.23	130	iPc	53	23.25	0.2
			eS	53	28.74	
LLA	0.33	351	iPd	53	24.55	-0.4
			eS	53	30.02	
PRS	0.40	276	iPc	53	25.72	-0.5
			eS	53	32.58	
PHAM	0.60	139	ePd	53	29.55	-0.6
SAO	0.66	316	ePc	53	29.86	-1.3
			eS	53	39.01	
PKEM	0.66	110	(P)	53	31.98	0.7
GCC	1.16	310	iPc	53	38.50	-1.3
			eS	53	54.94	
FRI	1.17	53	iPd	53	38.47	-1.5
			eS	53	53.64	
ARN	1.18	334	eP	53	39.23	-0.9
			eS	53	59.05	
BCH	1.28	149	eP	53	40.53	-1.4
STAN	1.52	317	eP	53	44.62	-0.7
PCC	1.71	316	eP	53	28.86	-19.1
			eS	53	41.00	
PCC	1.71	316	eP	53	46.68	-1.3
CMB	1.79	13	eP	53	47.69	-1.6
			eS	54	12.19	
BKS	1.92	326	eP	53	49.84	-1.3
			eS	54	15.62	
MMPM	1.98	48	eP	53	51.92	-0.5
			eS	54	17.86	
ISA	2.05	107	eP	53	51.36	-1.7
			eS	54	17.65	
MEMM	2.07	48	eP	53	54.55	1.2
			eS	54	20.46	
MTUM	2.14	60	eP	53	54.65	0.1
			eS	54	21.21	
MRCM	2.35	53	eP	53	58.13	0.6
NTYM	2.53	326	(P)	53	57.67	-2.2
BONR	2.65	50	ePn	54	02.04	0.2
ORV	3.30	352	(P)	54	08.60	-2.2
TNP	3.43	57	ePn	54	14.17	1.3
GSC	3.46	105	eP	54	12.50	-0.6

25 obs. associated

? FEB 17, 1993 12h 21m 32.97±0.91s
47.266 N ±11.4km 11.244 E ±7.0km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.3 (VIE).

SOTA 0.05 208 iPgc 21 35.20 -0.1
iSg 21 36.80
MOTA 0.12 310 iPgc 21 36.20 0.0
iSg 21 38.70
WATA 0.24 73 iPgc 21 38.00 -0.1
iSg 21 41.60
WTTA 0.27 90 iPgd 21 38.80 0.1
iSg 21 43.40
KBA 1.45 97 ePg 22 04.00 4.7X
eSg 22 25.50
S.D. = 0.2 on 4 of 5 obs.

% FEB 17, 1993 13h 22m 40.58±0.85s
39.087 N ±7.2km 27.535 E ±8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.72 197 iPg 22 54.70 -0.1
iSg 23 06.70
DST 0.99 58 iPn 22 59.70 0.3
EZM 1.19 309 ePn 23 03.00 0.2
EDC 1.28 11 ePn 23 04.00 -0.4
KCT 1.32 28 ePn 23 05.00 0.0
S.D. = 0.4 on 5 of 5 obs.

FEB 17, 1993 13h 31m 09.16±0.62s
33.800 N ±5.3km 32.129 E ±5.5km
DEPTH = 28.0 ± 5.6 km
4.4mb (10 obs.)
EASTERN MEDITERRANEAN SEA (371)
ML 4.3 (CSS). MD 4.1 (RYD).

PPCY	1.10	9	eP	31	29.50	0.8
			eS	31	44.00	
CSS	1.53	40	ePd	31	35.60	0.8
			eS	31	54.00	
FAM	1.96	52	eP	31	42.70	1.7
			eS	32	08.20	
ATZ	2.81	109	eP	31	53.50	0.4
			eS	32	26.30	
BHL	2.93	87	Pn	31	53.00	-2.0
			Sn	32	28.00	
HRI	3.06	99	iPd	31	56.70	-0.2
JVI	3.29	124	iPc	32	00.40	0.3
ELL	3.46	329	iPn	32	06.00	3.5X
BCK	3.86	341	iPn	32	10.80	2.6
HLW	3.99	190	ePn	32	11.50	1.6
			ePb	32	17.20	
			ePg	32	23.90	
			eSn	32	47.00	
			eSb	32	55.00	
SAGI	4.17	148	eP	32	12.80	0.3
MBH	4.65	149	iPc	32	19.40	0.0
KHL	4.98	336	iPn	32	21.00	-3.1X
SRFA	5.51	151	eP	32	30.67	-0.8
AYN	5.93	145	iPc	32	37.33	0.0
			eS	33	41.33	
IZM	6.05	321	iPn	32	39.00	-0.1
DST	6.44	335	ePn	32	42.70	-1.9
EYL	6.93	347	ePn	32	52.00	0.4
KCT	7.11	336	ePn	32	52.50	-1.4
WAJH	8.51	152	iPd	33	11.67	-1.9
OUR	9.21	317	eP	33	22.62	-0.5
AGG	9.46	306	eP	33	27.30	0.7
SOH	9.89	318	eP	33	28.26	-4.4X
LIT	9.95	312	eP	33	33.94	0.6
KNT	10.38	318	eP	33	38.18	-1.0
GRG	10.53	316	eP	33	41.69	0.4
FNA	11.04	312	eP	33	45.90	-2.4
IGT	11.06	305	eP	33	46.26	-2.3
ISR	12.11	341	eP	34	17.00	14.2X
MLR	12.61	340	eP	34	10.00	0.5
VRI	12.75	343	eP	34	11.00	-0.2
CVO	12.84	341	eP	34	11.00	-1.5
KBA	19.44	319	iPc	35	27.80	-8.6X
	0.9s	11.80nm				4.2mb
			i	35	35.40	
PGF	20.13	302	eP	35	51.50	7.8X

17d 13h

GEC2 20.35 323 Pn 35 44.80 -1.2
 SBF 21.63 305 eP 36 02.20 3.1X
 0.8s 18.55nm 4.6mb
 LPG 22.67 309 eP 36 11.70 2.1
 0.7s 15.00nm 4.6mb
 LPL 22.69 309 eP 36 11.80 2.1
 0.6s 9.00nm 4.4mb
 HAU 23.96 314 eP 36 20.10 -1.8
 SMF 24.97 309 eP 36 32.60 1.0
 LBF 25.01 310 eP 36 32.40 0.4
 LOR 25.19 311 eP 36 32.60 -1.1
 SSF 25.34 310 eP 36 34.90 -0.2
 0.7s 6.70nm 4.4mb
 AVF 25.34 309 eP 36 35.30 0.2
 BGF 25.59 309 eP 36 37.40 0.0
 MAF 25.66 308 eP 36 38.60 0.5
 TCF 25.92 308 eP 36 40.90 0.4
 0.6s 3.95nm 4.2mb
 RJF 26.10 305 eP 36 43.10 0.9
 NB2 30.43 340 P 37 19.50 -1.7
 0.9s 4.30nm 4.3mb
 GKN 45.03 83 P 39 25.20 0.8
 0.7s 22.00nm 5.2mb
 DMN 45.56 83 P 39 26.60 -2.2
 PKI 45.82 83 P 39 31.40 0.5
 0.7s 11.00nm 4.9mb
 GUN 46.09 82 P 39 33.60 0.6
 YKA 80.38 345 eP 43 19.20 0.2
 0.6s 0.50nm 3.7mb
 S.D. = 1.3 on 47 of 54 obs.

FEB 17, 1993 13h 45m 47.10 ± 0.72s
 40.084 N ± 7.0km 20.747 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.1 (ATH). ML 3.0 (THE).

IGT 0.64 210 ePg 45 58.89 -1.0
 eSg 46 07.94
 KZN 0.82 74 ePb 46 02.00 -1.0
 eSb 46 16.80
 KEK 0.82 243 ePb 46 01.70 -1.2
 eSb 46 16.00
 FNA 0.85 34 ePg 46 02.42 -1.1
 eSg 46 15.94
 OHR 1.03 2 iPg 46 06.10 -0.4
 iSg 46 21.70
 LIT 1.34 89 ePb 46 11.82 0.1
 eSb 46 33.18
 GRG 1.53 55 ePb 46 14.54 0.0
 eSb 46 35.54
 AGG 1.62 130 ePbc 46 16.58 0.8
 eSb 46 41.02
 THE 1.78 71 ePb 46 17.78 -0.3
 eSb 46 40.78
 VAY 1.86 48 ePn 46 21.60 2.4
 VLS 1.91 184 ePn 46 22.20 2.2
 eSn 46 49.00
 SKO 1.96 15 iPn 46 23.20 2.5
 iSg 46 50.00
 KNT 1.96 56 ePn 46 20.94 0.2
 eSn 46 44.62
 SOH 2.12 69 ePn 46 22.14 -1.0
 PAIG 2.26 93 ePn 46 24.62 -0.4
 eSn 46 53.18
 SRS 2.40 64 ePn 46 25.10 -2.0
 eSn 46 57.18
 OUR 2.49 83 ePn 46 28.46 0.2
 eSn 46 59.86
 S.D. = 1.4 on 17 of 17 obs.

FEB 17, 1993 13h 51m 36.05 ± 6.77s
 38.731 N ± 50.7km 23.503 E ± 27.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

AGG 0.96 288 ePg 51 54.32 0.0
 eSg 52 06.16
 PAIG 1.20 6 ePg 51 58.44 0.0
 eSg 52 12.68
 LIT 1.58 330 ePb 52 04.56 0.4
 eSb 52 22.44
 OUR 1.64 13 ePb 52 05.12 0.1
 KNT 2.47 349 ePn 52 16.64 -0.4
 FNA 2.62 322 ePn 52 19.08 -0.2
 S.D. = 0.3 on 6 of 6 obs.

FEB 17, 1993 14h 46m 53.89 ± 0.72s
 36.786 N ± 19.0km 72.718 E ± 11.7km
 DEPTH = 33.0km (normal)
 AFGHANISTAN-TAJIKISTAN BORD REG. (717)

MAIO 10.65 271 ePn 49 27.00 -0.4
 eSn 50 30.00
 GKN 13.34 128 P 50 04.20 0.7
 0.6s 12.00nm 5.0mb
 KKN 13.89 127 P 50 10.40 -0.5
 0.6s 11.00nm 4.8mb
 DMN 13.91 128 P 50 11.80 0.7
 PKI 14.13 127 P 50 12.80 -1.3
 0.7s 14.00nm 4.7mb
 GUN 14.20 125 P 50 15.40 0.3
 CDR 50.33 300 ePd 55 50.10 0.7
 e 56 02.10
 FBA 73.80 17 (P) 58 26.00 -0.4
 S.D. = 0.9 on 8 of 8 obs.

FEB 17, 1993 14h 54m 03.52 ± 1.65s
 21.541 S ± 22.1km 126.294 E ± 11.4km
 DEPTH = 10.0km (geophysicist)
 WESTERN AUSTRALIA (590)

WARB 4.63 176 eP 55 15.10 -0.1
 eS 56 02.00
 ASPA 7.34 108 eP 55 53.80 0.4
 eS 57 09.50
 WB2 7.71 80 eP 55 58.30 -0.2
 eS 57 21.50
 MEEK 8.66 233 eP 56 13.00 1.2
 eS 57 44.00
 MRWA 12.04 229 eP 56 57.00 -1.1
 eS 58 58.00
 S.D. = 1.2 on 5 of 5 obs.

FEB 17, 1993 14h 58m 44.22 ± 0.77s
 39.382 N ± 7.3km 27.830 E ± 6.8km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.9 (ISK).

DST 0.66 70 iPg 58 56.70 -0.7
 iSg 59 05.70
 KCT 0.96 25 iPg 59 04.10 1.2
 eSg 59 17.20
 EDC 0.96 2 iPg 59 02.00 -1.0
 eSg 59 16.00
 IZM 1.08 204 iPn 59 05.00 0.0
 EZN 1.24 291 ePn 59 07.90 0.1
 YLV 1.68 45 ePn 59 15.30 0.9
 EYL 2.14 56 ePn 59 21.00 -0.2
 DMK 2.44 359 ePn 59 25.00 -0.3
 S.D. = 0.9 on 8 of 8 obs.

FEB 17, 1993 15h 07m 11.82 ± 0.56s
 13.628 N ± 11.2km 144.590 E ± 14.8km
 DEPTH = 142.3 ± 6.1 km
 4.5mb (3 obs.)
 MARIANA ISLANDS (216)

GUMO 0.27 98 iPd 07 32.10 -0.5
 i 07 35.00
 eS 07 45.60
 PJG 0.27 98 iPd 07 32.10 -0.5
 GUA 0.33 106 iPd 07 32.30 -0.5
 i 07 35.20
 eS 07 45.30
 NMCC 1.87 36 eP 07 47.00 1.7
 eS 08 10.00
 WB2 34.85 197 iPc 13 52.20 1.0
 0.4s 6.90nm 4.8mb
 ASPA 38.51 196 iPc 14 22.80 0.8
 0.5s 6.30nm 4.6mb
 DZM 41.45 149 iPc 14 47.20 1.0
 BRS 41.54 169 iP 14 38.00 -8.8X
 GUN 56.23 295 P 16 40.60 0.5
 KKN 56.76 294 P 16 43.80 0.1
 DMN 56.91 294 P 16 45.00 0.2
 GKN 57.33 295 P 16 47.80 0.2
 MNG 61.10 153 eP 17 11.70 -1.3
 YKA 82.95 27 eP 19 20.70 -1.0
 0.4s 0.30nm 3.5mb
 KIC 143.65 301 PKP 26 30.60 -1.8
 LIC 143.96 301 PKP 26 31.80 -1.1
 ZOBO 148.30 99 PKP 26 42.00 1.3

CNCB 148.43 100 PKP 26 46.90 6.1X
 S.D. = 1.1 on 16 of 18 obs.

FEB 17, 1993 15h 39m 45.93 ± 3.23s
 21.454 S ± 22.7km 66.802 W ± 21.9km
 DEPTH = 202.1 ± 45.5 km
 SOUTHERN BOLIVIA (125)

YJA 1.40 121 iPd 40 19.50 -0.3
 S 40 46.00
 HJA 2.18 144 iPc 40 27.00 0.2
 CCH 4.10 9 P 40 50.20 0.3
 e 41 40.00
 CNCB 4.75 346 iPc 40 59.40 1.0
 LPB 5.05 346 P 41 01.00 -1.1
 ZOBO 5.29 346 iP 41 05.30 -0.1
 0.8s 14.11nm 4.2mb
 SIV 7.68 46 iPd 41 36.00 -0.1
 (S) 42 49.50
 S.D. = 0.9 on 7 of 7 obs.

FEB 17, 1993 16h 06m 05.44 ± 0.25s
 33.527 N ± 5.8km 72.508 E ± 4.5km
 DEPTH = 13.4km (8 depth phases)
 5.0mb (44 obs.) 4.5Msz (1 obs.)
 PAKISTAN (710)
 MD 5.0 (NDI). Felt in the
 Islamabad-Rawalpindi area.

QUE 5.78 236 eP 07 34.20 1.1
 eS 08 44.40
 NDI 6.29 139 iPnc 07 40.00 -0.1
 0.6s 186.67nm 6.1mb X
 iSn 08 50.00
 iSg 09 23.50
 KSH 6.54 24 Pn 07 48.40 4.6X
 0.7s 50.00nm 5.6mb
 MAIO 11.04 288 iPd 08 46.00 0.0
 0.8s 18.30nm 5.5mb
 eS 11 28.00
 POO 14.98 175 iPn 09 36.20 -2.3
 iS 14 05.20
 WMO 15.67 45 P 09 46.10 -1.3
 Z 16s 1.30um
 N 11s 0.67um
 LSA 16.33 98 P 09 53.00 -3.4X
 N 12s 1.56um
 HYB 16.94 160 eP 09 59.50 -4.2X
 SHL 18.61 110 eP 10 23.00 -1.6
 eS 13 27.00
 GBA 20.33 166 Pc 10 43.90 -0.2
 0.4s 3.00nm 4.0mb X
 S 14 43.90
 GTA 22.69 67 P 11 08.60 0.8
 1.5s 29.00nm 4.6mb
 pP 11 14.00 19km
 sS 15 19.00
 sCS 22 19.50
 LZH 25.80 75 eP 11 39.50 1.6
 1.5s 27.00nm 4.7mb
 sP 11 52.00
 CD2 26.52 87 eP 11 50.00 5.5X
 KMI 27.58 100 eP 11 57.00 2.6
 1.0s 30.00nm 5.0mb
 CHTO 27.78 115 eP 11 55.90 -0.1
 1.1s 22.08nm 4.8mb
 XAN 30.17 79 eP 12 19.80 2.3
 GYA 30.31 94 eP 12 23.40 4.5X
 TIY 32.55 71 eP 12 41.30 3.0X
 Z 10s 0.38um 4.4Msz X
 OBN 32.99 322 eP 12 41.50 -0.3
 1.0s 35.00nm 5.2mb
 Z 22s 1.10um 4.5Msz
 E 22s 0.70um
 e 12 45.00 12km
 e 13 56.00
 BJI 35.30 67 eP 13 15.00 13.1X
 BJI 35.30 67 eP 13 05.00 3.1X
 MLR 37.37 303 eP 13 21.50 2.0
 IPM 39.17 131 ePd 13 35.20 0.5
 KAF 40.80 329 iP 13 47.20 -0.4
 0.7s 12.80nm 4.8mb
 NUR 40.97 326 iP 13 48.70 -0.3
 0.4s 18.80nm 5.2mb
 PSZ 41.59 306 eP 13 55.90 1.5
 OJC 41.72 310 e(P) 13 50.00 -5.4X
 i 13 54.90 16km

CN2	41.95	60	eP	14	03.60	6.2X	CAF	54.16	304	eP	15	33.00	0.6	4.5mb (1 obs.)						
	0.8s		3.00nm			4.1mb		0.8s		17.35nm			5.1mb	IRIAN JAYA, INDONESIA	(201)					
KGM	42.59	131	eP	14	03.50	0.7	LSF	54.21	306	eP	15	32.50	-0.2	SWI	6.33	293	ePc	40	16.00	0.4
SRO	42.65	306	eP	14	04.40	1.4	RJF	54.44	305	iPc	15	35.00	0.5				eS	41	25.00	
SDF	43.05	336	iP	14	05.80	-0.3		0.9s		18.65nm			5.1mb	MDG	8.87	103	eP	40	52.20	1.7
ZST	43.46	307	eP	14	13.10	3.5X	LDF	54.78	309	iPc	15	36.10	-0.8	MTN	11.14	212	eP	41	21.20	0.0
UPP	44.18	324	iP	14	14.30	-0.9	LPO	54.82	304	eP	15	37.60	0.3		0.3s		189.00nm			6.5mb X
V8Y	44.88	303	eP	14	21.90	0.8	FLN	54.98	309	iPc	15	37.50	-0.8				eS	43	20.00	
PRU	45.10	309	P	14	23.80	1.0		0.7s		9.25nm			4.9mb	PMG	11.68	122	eP	41	27.00	-1.4
	1.0s		7.40nm			4.6mb	LFF	55.07	305	eP	15	39.40	0.4	WB2	16.72	189	iPc	42	31.40	-2.1
			eSg	24	19.00			0.6s		18.60nm			5.3mb				eS	45	26.30	
BRG	45.46	311	iP	14	25.90	0.2	MFF	55.26	307	iPc	15	39.80	-0.6	CTA	18.89	152	iPc	42	59.50	-0.4
	0.8s		20.00nm			5.1mb		1.2s		27.35nm			5.2mb	ASPA	20.44	188	iPd	43	17.30	1.2
			eSg	24	26.00		GRR	55.31	309	iPc	15	39.90	-0.8		0.3s		82.50nm			5.5mb X
GEC2	45.69	308	P	14	28.30	0.6		0.8s		11.95nm			5.0mb				iS	46	57.60	
	0.7s		3.01nm			4.4mb	LPF	55.51	309	eP	15	41.20	-0.9	WARB	24.83	203	eP	44	00.30	1.2
			e	14	31.40	10km	EGRA	56.55	302	eP	15	46.60	-3.1	RMQ	25.59	155	eP	44	18.00	11.9X
			e	16	09.50		BCAO	57.85	252	iPc	16	02.70	3.4X	BR5	28.23	149	iPc	44	30.60	0.4
			e	16	13.70			0.6s		11.00nm			5.1mb	XAN	45.69	327	P	46	57.00	-0.4
			e	16	20.70					id	16	18.20	58kmX	BJI	47.25	338	eP	47	09.00	-0.6
YAK	45.72	34	eP	14	26.00	-1.6	DAG	57.95	344	eP	15	56.10	-3.1	CN2	48.08	349	eP	47	15.20	-0.8
	1.0s		25.00nm			5.1mb		0.5s		6.34nm			4.9mb		0.6s		3.70nm			4.5mb
KHC	45.76	308	eP	14	29.00	0.9	GUD	59.78	301	eP	16	12.20	-0.3	MDJ	48.21	353	eP	47	17.00	0.0
	1.0s		3.50nm			4.3mb	EPLA	61.36	301	iPd	16	23.50	0.3	GUN	58.23	306	P	48	31.80	0.1
			e	14	32.00	10km	MTD	63.46	225	iPc	16	35.10	-2.3		0.8s		16.00nm			5.2mb X
			e	14	49.00					i	16	39.50	14km	KKN	58.67	305	P	48	34.60	0.0
			e	16	31.00		BUL	67.83	225	iPd	17	05.00	-0.6		0.8s		15.00nm			5.2mb X
			e	23	20.00					i	17	09.50	14km	DMN	58.74	305	P	48	35.40	0.3
			e	23	25.00		IMA	74.57	18	eP	17	44.00	-1.5	GKN	59.28	305	P	48	39.00	0.3
			eSg	23	47.00			1.0s		3.23nm			4.3mb		0.7s		17.00nm			5.3mb X
RBL	45.96	305	Pc	14	30.40	0.6	KIC	75.89	268	P	17	55.80	2.1	CNCB	148.15	130	PKP	58	24.00	5.0X
HFS	46.18	324	eP	14	29.80	-1.4	LIC	76.20	268	P	17	55.60	0.1	LPB	148.23	129	ePKP	58	27.00	8.1X
	0.4s		10.70nm			5.2mb	FBA	76.97	16	eP	18	00.90	2.0	ZOBO	148.34	129	ePKP	58	23.00	3.6X
	Z	16s	302.00um			7.3mszX		0.8s		5.52nm			4.7mb		S.D. = 1.0		on 17 of 21 obs.			
			LR	34	08.00		RSO	79.27	21	(P)	18	11.92	0.1							
MOX	46.95	310	e(P)	14	36.30	-1.2	WB2	79.37	122	iPc	18	12.80	0.0							
GRF	47.26	309	iPc	14	41.60	1.7		0.4s		12.20nm			5.3mb	& FEB 17, 1993 16h 45m 37.67s						
	0.9s		22.00nm			5.2mb	ASPA	81.53	126	iPd	18	24.30	0.1	60.539 N			140.604 W			
	Z	17s	0.20um			4.2mszX		1.1s		6.40nm			4.6mb	DEPTH = 16.2km						
			ePd	14	44.80	11km	BALM	81.57	16	eP	18	24.07	0.1	SOUTHEASTERN ALASKA						(19)
CTI	47.33	304	P	14	40.80	0.2	YKA	84.14	3	eP	18	35.60	-1.4	<AEIC>. ML 2.6 (AEIC), 2.8						
NB2	47.51	325	P	14	39.80	-2.0		0.6s		3.20nm			4.7mb	(PGC).						
	0.4s		7.60nm			5.1mb														
OGA	47.66	305	iPd	14	43.20	-0.2								PCA	0.48	159	iP	45	47.10	-0.2
OSS	48.28	305	ePd	14	48.40	0.2	? FEB 17, 1993 16h 22m 41.38±2.68s													
VDL	48.77	305	P	14	53.68	1.7	48.821 N ± 9.8km							CTGM	0.56	320	iP	45	48.33	-0.4
LLS	49.04	306	iPd	14	53.70	-0.3	DEPTH = 10.0km (geophysicist)													
TMA	49.23	305	ePc	14	55.20	-0.3	GERMANY							YAH	0.59	253	iP	45	48.80	-0.6
SLE	49.25	307	ePd	14	55.50	0.0	ML 2.4 (VIE).													
VAI	49.34	304	P	14	55.60	-0.5								BCPM	0.76	140	iP	45	51.14	-0.9
MMK	49.87	305	ePc	15	01.00	0.5	FUR	1.13	125	ePg	23	00.60	-1.9	BALM	0.99	301	iP	45	54.89	-1.2
ORO	49.93	304	P	14	59.10	-1.7	MOTA	1.68	151	iPg	23	10.80	-0.3							
CDF	49.98	308	eP	15	01.50	0.4								CYK	1.04	245	eP	45	56.60	-0.2
	0.7s		4.30nm			4.5mb	SOTA	1.83	151	iPg	23	13.60	0.4	PNL	1.06	145	iP	45	55.63	-1.6
DIX	50.24	305	ePd	15	03.80	0.4														
BSF	50.38	307	iPc	15	04.10	-0.1	WATA	1.86	142	iPg	23	13.90	0.2							
	0.7s		23.90nm			5.3mb								TGL	1.12	282	eP	45	56.87	-1.4
WLF	50.54	310	P	15	07.00	1.8	WTTA	1.94	143	iPg	23	15.60	0.6							
EMS	50.57	305	iPc	15	06.00	0.2								SNH	1.17	253	eP	45	58.28	-0.8
HAU	50.65	307	iPc	15	06.20	0.1	MOX	2.14	31	ePn	23	16.90	-0.7	CRQM	1.27	281	eP	45	59.09	-1.7
	0.7s		15.65nm			5.1mb														
LPG	50.80	304	eP	15	07.90	0.3								HQN	1.39	141	eP	46	00.50	-1.9
	0.9s		20.15nm			5.1mb	GEC2	2.51	88	Pg	23	24.60	1.6							
LPL	50.81	304	iPc	15	08.00	0.4														
	0.8s		18.00nm			5.1mb								GLB	1.81	301	eP	46	07.91	-0.5
RSL	50.85	304	P	15	07.63	-0.2								RAGM	2.02	267	eP	46	10.81	-0.7
BNI	50.94	304	P	15	08.40	-0.1								KLU	2.76	293	eP	46	20.99	-1.1
DOU	51.48	310	Pd	15	12.90	0.6								VLZ	2.87	284	eP	46	22.50	-1.0
SNF	51.61	311	P	15	14.10	0.8														
LBF	52.41	306	iPc	15	19.10	-0.4														
	0.7s		11.35nm			4.9mb														
LOR	52.43	307	iPc	15	19.10	-0.6	SOH	0.10	37	ePg	30	02.33	-0.9							
	0.6s		4.50nm			4.6mb														
SMF	52.57	306	iPc	15	20.60	-0.1	THE	0.26	245	ePg	30	06.04	0.0	JACH	0.44	192	iP	48	43.03	-0.3
	0.7s		48.75nm			5.5mb														
SSF	52.71	307	iPc	15	21.50	-0.2	SRS	0.44	33	ePg	30	09.96	0.5	ROCH	0.85	212	iP	48	46.80	0.1
	1.0s		30.00nm			5.2mb														
AVF	52.87	306	iPc	15	22.60	-0.2	KNT	0.51	325	ePg	30	10.92	0.2	PEL	0.91	191	iP	48	47.19	0.1
	0.8s		33.70nm			5.3mb														
COLF	52.90	305	P	15	23.28	0.1	OUR	0.68	127	ePg	30	14.32	0.4	FCH	1.09	172	iP	48	49.55	0.3
BGF	53.26	306	eP	15	25.50	-0.2														
	0.7s		12.55nm			5.0mb	PAIG	0.87	159	ePg	30	17.04	-0.2	PCH	1.37	181	iP	48	52.37	0.2
MAF	53.52	306	iPc	15	28.00	0.3														
	0.6s		14.05nm			5.1mb														
TCF	53.75	306	iPc	15	29.60	0.3								TACH	1.45	195	iP	48	53.	

17d 16h

CHCH 1.68 185 iS 49 18.67
 iP 48 55.79 -0.2
 LNV 1.87 204 iS 49 21.61
 iP 48 57.78 -0.5
 S.D. = 0.3 on 9 of 9 obs.

% FEB 17, 1993 17h 02m 07.50 ± 2.67s
 31.968 S ± 10.5km 67.220 W ± 8.7km
 DEPTH = 143.0 ± 36.8 km
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.94 292 e(P) 02 31.10 -0.3
 S 02 47.80
 RTCV 1.13 275 ePc 02 33.00 -0.1
 S 02 51.70
 RTLL 1.24 301 iPd 02 34.20 0.0
 S 02 51.50
 MRA 1.36 109 iPc 02 35.40 0.1
 S 02 54.30
 RTCB 1.43 289 iPc 02 36.50 0.3
 S 02 54.00
 MDZ 1.65 236 iP 02 38.90 0.3
 iS 03 02.30
 RTPR 1.77 20 iPd 02 39.80 0.0
 RFA 2.98 200 iPd 02 54.80 -0.2
 (S) 03 21.20
 S.D. = 0.3 on 8 of 8 obs.

FEB 17, 1993 17h 46m 23.52 ± 0.22s
 6.002 S ± 4.6km 150.604 E ± 6.9km
 DEPTH = 24.8km (6 depth phases)
 5.1mb (21 obs.) 5.2Msz (43 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

Mw 5.6 (HRV)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 41S, 80C
 Centroid Location:
 Origin Time 17:46:33.0 0.3
 Lat 6.14S 0.03 Lon 150.81E 0.04
 Dep 15.0 FIX Half-duration 1.6
 Moment Tensor: Scale 10**17 Nm
 Mrr = 1.48 0.06 Mtt = -1.69 0.06
 Mff = 0.20 0.07 Mrt = 2.13 0.21
 Mrf = 0.21 0.15 Mtf = -0.46 0.06
 Principal Axes:
 T Vol = 2.55 Plg = 63 Azm = 1
 N 0.29 5 262
 P -2.84 26 170
 Best Double Couple: Mo = 2.7*10**17
 NP1: Strike=249 Dip=19 Slip= 76
 NP2: 83 71 95

RAB 2.38 41 eP 47 06.00 4.3X
 YYY 4.62 267 eP 47 45.00 11.3X
 PMG 4.81 225 eP 47 38.00 1.8
 MNDI 6.91 268 eP 48 18.00 11.9X
 HNR 9.87 111 eP 48 45.50 -1.4
 CTA 14.63 196 iPc- 49 48.20 -2.6
 1.2s 46.88nm 4.8mb
 Z 20s 17.73um 5.2Msz

iP 49 56.20
 i 50 05.00
 i 50 49.00
 e(S) 52 15.00
 i 52 50.00
 i 02 15.00

CTA 14.63 196 P 49 52.29 1.5
 GUA 20.22 344 eP 51 01.00 1.3
 1.1s 962.03nm 6.1mb
 Z 22s 5.32um 4.9Msz
 GUMO 20.28 344 eP 51 00.60 0.3
 1.4s 740.60nm 5.9mb
 Z 23s 3.48um 4.6MszX

eS 54 56.60
 PJJ 20.28 344 eP 51 00.80 0.5
 WB2 21.01 227 eP 51 07.30 -0.6
 eS 54 56.60

BRS 21.37 175 iPc+ 51 10.20 -1.3
 1.5s 14.00nm 4.2mb
 eS 55 06.00

DZM 22.13 138 iPc 51 19.10 0.0
 ASPA 23.81 221 eP 51 36.70 1.2
 1.1s 40.50nm 4.9mb

ARMA 24.31 178 iPc 51 40.20 -0.2
 1.1s 45.00nm 4.9mb
 STK 27.09 197 P 52 05.80 -0.5

BWA 28.35 184 eP 52 19.70 1.9
 e 52 26.90 25km
 CNB 29.19 182 eP 52 28.60 3.2X
 1.1s 34.00nm 5.0mb
 e 52 36.00 26km

CAN 29.21 183 eP 52 28.00 2.5
 e 52 35.80 27km
 TOO 31.77 188 eP 52 47.10 -1.0
 BFD 31.89 192 eP 52 49.30 0.2
 0.7s 7.00nm 4.7mb

TAU 36.87 184 eP 53 38.00 6.2X
 eS 59 16.00
 BAG 37.12 307 eP 53 34.00 -0.5
 eS 59 31.00

MAT 43.88 346 eP 54 32.00 2.2
 eS 01 12.00
 SSE 46.38 324 eP 54 41.50 -8.3X

Z 20s 2.70um 5.2Msz
 N 20s 1.90um
 E 20s 1.00um
 S 01 36.00
 sS 01 56.00
 eSS 02 05.00

SSE 46.38 324 eP 54 51.50 1.7
 Z 20s 2.70um 5.2Msz
 N 20s 1.90um
 E 20s 1.00um

S 01 36.00
 sS 01 56.00
 GZH 46.49 310 eP 54 54.00 3.2X

Z 20s 1.25um 4.9Msz
 NJ2 48.45 323 Pc 55 03.80 -2.2
 Z 20s 1.42um 4.9Msz

ScP 00 24.80
 WHN 50.25 318 P 55 18.00 -1.9
 Z 20s 3.11um 5.3Msz
 E 18s 2.18um

DL2 52.13 331 eP 55 35.00 1.0
 0.7s 30.00nm 5.3mb
 Z 22s 0.64um 4.6Msz

TIA 52.42 326 eP 55 35.90 -0.4
 Z 22s 2.63um 5.2Msz
 N 16s 0.97um

E 16s 1.36um
 GYA 53.42 309 P 55 43.80 -0.2
 Z 28s 1.14um 4.8MszX

SNY 53.62 335 eP 55 43.80 -1.2
 Z 20s 1.58um 5.1Msz
 MDJ 53.82 342 eP 55 46.50 0.1

Z 22s 1.91um 5.1Msz
 NST 54.42 294 eP 55 52.50 1.2
 CN2 54.53 338 P 55 51.80 0.1

1.2s 12.00nm 4.8mb
 Z 16s 1.06um 5.0MszX
 eP 56 01.50 32km

BJI 55.72 328 eP 55 59.50 -0.9
 Z 18s 1.47um 5.1Msz
 N 18s 0.97um

KMI 55.87 306 eP 56 05.00 2.9
 Z 20s 1.40um 5.0Msz
 sP 56 18.50

XAN 56.02 318 P 56 03.40 0.7
 Z 20s 1.82um 5.2Msz
 N 16s 0.97um

pP 56 08.50 17km
 sP 56 11.00
 S 03 52.00

TIY 56.16 324 eP 56 04.00 0.3
 Z 22s 2.58um 5.3Msz
 N 20s 2.07um

HON 57.25 60 P 56 30.00 18.4X
 Z 22s 1.27um 5.0Msz
 CD2 57.89 312 eP 56 19.60 3.5X

Z 22s 1.46um 5.0Msz
 eS 04 12.00
 HHC 58.78 326 eP 56 21.60 -0.6

Z 10s 2.54um 5.6MszX
 N 18s 1.01um
 E 18s 0.94um

BTO 59.48 325 P 56 27.50 0.4
 N 17s 1.03um
 E 17s 1.25um

eS 04 37.50
 LZH 60.59 317 eP 56 34.00 -0.8
 2.0s 44.00nm 5.2mb

pP 56 41.00 23km
 PP 58 50.00

SMY 61.82 16 P 56 50.00 7.4X
 Z 20s 1.56um 5.2Msz
 GTA 65.08 319 P 57 03.50 -1.0
 2.0s 27.00nm 5.0mb

Z 18s 1.26um 5.2Msz
 E 18s 2.03um
 LSA 67.13 306 P 57 19.00 0.8

YAK 69.71 350 eP 57 32.00 -1.0
 1.2s 50.00nm 5.5mb
 Z 14s 0.50um 4.9MszX

e 58 12.00 166kmX
 IRK 70.10 332 eP+ 57 33.00 -2.6
 4.0s 0.17nm 2.5mb X

Z 16s 0.60um 4.9MszX
 N 16s 0.38um
 E 18s 0.22um

e 57 57.20 94kmX
 e 58 37.20
 eS 07 02.00

e 07 36.00
 e 11 49.00
 LR 23 25.00

SDN 73.25 27 eP 57 54.54 0.3
 0.9s 86.81nm 5.8mb
 HYB 74.83 290 eP 58 03.00 -1.3

1.2s 38.60nm 5.3mb
 WMO 75.16 318 eP 58 05.80 0.0
 Z 20s 1.07um 5.1Msz

GBA 75.18 286 P 58 06.00 -0.3
 TTA 79.69 22 eP 58 30.21 -0.3
 1.3s 7.96nm 4.6mb

SLKM 80.68 26 eP 58 34.63 -1.1
 PMR 81.68 25 P 58 50.00 9.1X
 Z 18s 0.66um 5.0Msz

KSH 82.04 311 eP 58 42.00 -1.4
 IMA 82.32 20 eP 58 44.00 -0.3
 KLU 83.00 26 eP 58 47.15 -0.7

FBA 83.81 22 eP 58 49.72 -2.1
 0.8s 6.58nm 4.9mb
 SPA 84.03 180 ePd 58 53.50 0.3

1.1s 71.43nm 5.8mb
 SIT 86.44 32 P 59 10.00 5.0X
 Z 20s 0.64um 5.0Msz

LGPM 91.30 49 ePd 59 30.33 1.7
 WDC 91.48 50 P 59 40.00 10.7X
 Z 21s 1.13um 5.3Msz

ORV 92.16 51 eP 59 33.42 1.0
 CMB 92.88 52 P 59 50.00 14.2X
 Z 22s 1.67um 5.4Msz

MEMM 93.99 53 eP 59 43.24 2.4
 ISA 94.21 55 P 59 50.00 8.0X
 Z 19s 1.53um 5.5Msz

MTUM 94.26 53 eP 59 43.67 1.3
 BONR 94.51 52 eP 59 44.71 1.0
 PEC 95.16 57 eP 59 48.45 2.0

0.8s 27.51nm 5.7mb
 GSC 95.54 55 eP 59 50.11 1.9
 TPNV 96.08 54 (P) 59 52.35 1.6

0.6s 9.76nm 5.4mb
 YKA 97.50 28 eP 59 53.20 -3.1X
 0.8s 1.40nm 4.5mb

TUC 100.45 58 Pd diff 00 20.00 9.4X
 Z 18s 0.67um 5.2Msz
 ALQ 104.02 56 Pd diff 00 40.00 13.5X

Z 18s 0.53um 5.1Msz
 GLD 104.71 51 Pd diff 04 50.00 260.5X
 Z 21s 1.08um 5.4Msz

RSSD 105.18 46 PKP 05 00.00 14.1X
 Z 18s 0.61um 5.2Msz
 WMOK 110.32 55 PKP 05 10.00 14.3X

Z 18s 0.70um 5.3Msz
 MIAR 114.60 55 PKP 05 10.00 6.1X
 Z 19s 0.79um 5.3Msz

SLM 116.37 50 PKP 05 20.00 12.9X
 Z 20s 0.68um 5.3Msz
 FVM 116.38 51 ePKP 05 05.15 -2.0

Z 19s 4.48um 6.1Msz
 APO 116.61 338 ePKP 05 05.40 -1.5
 0.7s 1.20nm

SRO 121.86 324 ePKP 05 16.70 -0.5
 ZST 122.36 325 e(PKP) 05 17.30 -0.9
 SKO 122.52 317 iPKP 05 18.00 -0.7

1.1s 37.00nm
 BRG 122.59 329 iPKP 05 19.00 0.5
 1.0s 18.00nm

PRU 122.79 328 ePKP 05 17.50 -1.4
 Z 21s 0.80um 5.3Msz

CLL 122.81 330 ePKP 05 19.00 0.1
 OHR 123.31 316 ePKP 05 19.20 -1.1
 MCWV 123.71 46 PKP 05 30.00 8.9X
 Z 20s 1.87um 5.7MsZ
 KHC 123.80 327 PKP 05 21.30 0.3
 1.0s 7.00nm
 Z 20s 0.80um 5.4MsZ
 N 20s 0.50um
 E 20s 0.90um

GEC2 123.90 327 PKP 05 21.30 0.0
 0.8s 6.16nm
 GRF 124.70 329 ePKPd 05 23.20 0.5
 Z 22s 0.50um 5.1MsZ
 VBY 124.85 323 ePKP 05 23.60 0.5
 RSNY 125.05 38 ePKP 05 23.73 0.2
 Z 21s 0.86um 5.4MsZ

CEH 125.66 50 PKP 05 30.00 5.0X
 Z 20s 1.20um 5.5MsZ
 OSS 127.11 327 ePKPc 05 28.10 0.4
 CDF 127.51 330 ePKP 05 27.80 -0.5
 HRV 127.96 39 PKP 05 40.00 10.8X
 Z 18s 0.97um 5.5MsZ

BSF 128.14 330 ePKP 05 28.90 -0.6
 1.2s 21.40nm
 TMA 128.16 327 ePKPc 05 29.60 -0.1
 HAU 128.25 330 ePKP 05 29.20 -0.4
 Z 20s 16.65nm 5.3MsZ

LPL 129.69 327 ePKP 05 33.60 0.9
 0.8s 3.65nm
 LPG 129.70 327 ePKP 05 33.70 0.9
 LOR 129.98 331 ePKP 05 32.80 -0.1
 Z 20s 9.00nm 5.2MsZ

LBF 130.12 330 ePKP 05 33.20 0.0
 SSF 130.29 331 ePKP 05 33.70 0.2
 1.3s 15.90nm
 SMF 130.42 330 ePKP 05 33.50 -0.3
 AVF 130.56 331 ePKP 05 33.90 -0.1
 LDF 130.82 335 ePKP 05 34.20 -0.2
 FLN 130.84 335 ePKP 05 34.20 -0.3

Z 23s 0.60um 5.2MsZ
 MAF 131.35 331 ePKP 05 35.90 0.4
 TCF 131.47 331 ePKP 05 36.00 0.2
 0.7s 6.50nm
 LPF 131.64 335 ePKP 05 36.10 0.1
 1.4s 40.10nm

LSF 131.83 331 ePKP 05 36.50 0.1
 CAF 132.52 330 ePKP 05 38.50 0.7
 RJF 132.52 331 ePKP 05 38.10 0.3
 Z 22s 0.52um 5.2MsZ
 LPO 133.13 330 ePKP 05 39.60 0.6
 CNCB 135.63 121 ePKP 05 43.00 -2.2
 ZOBO 135.74 121 ePKP 05 43.00 -2.5

Z 23s 0.10um 4.5MsZ
 LR 05 46.00
 50 05.00
 CCH 136.90 123 (PKP) 05 49.00 1.7
 SIV 141.78 125 ePKP 05 53.00 -2.9
 CUM 145.32 80 iPKP 05 56.00 -5.9X
 AVE 146.02 326 ePKP 06 06.50 3.9X

i 06 42.00
 VAO 146.44 150 (PKP) 06 09.00 5.3X
 TIO 147.65 323 iPKP 06 07.00 1.5
 i 06 11.00
 ANTZ 150.98 323 iPKPd 06 17.00 6.5X
 i 06 18.00
 i 06 21.00

KIC 155.49 272 PKP 06 16.60 -0.6
 e 06 43.00
 TIC 155.76 273 PKP 06 17.60 0.0
 e 06 44.00
 LIC 155.77 272 PKP 06 17.40 -0.2
 Z 21s 0.31um 5.1MsZ

e 06 44.00
 SOB1 161.04 143 (PKP) 06 25.00 1.4
 S.D. = 1.2 on 103 of 133 obs.

% FEB 17, 1993 17h 49m 33.84 ± 0.69s
 45.070 N ± 5.0km 7.156 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (GEN).

RSP 0.11 41 P 49 36.99 0.2
 S 49 38.87

BHB 0.24 162 P 49 39.46 0.5
 S 49 42.48
 RRL 0.30 241 P 49 40.51 0.2
 S 49 43.99
 LSD 0.39 360 P 49 41.66 -0.2
 S 49 46.42
 PZZ 0.57 184 P 49 45.04 -0.4
 S 49 53.51
 ENR 0.86 167 P 49 50.22 -0.3
 S.D. = 0.5 on 6 of 6 obs.

? FEB 17, 1993 18h 34m 05.19 ± 0.97s
 37.361 N ± 5.7km 9.326 W ± 9.1km
 DEPTH = 10.0km (geophysicist)
 PORTUGAL (376)
 mbLg 3.0 (MDD).

EVAL 2.06 83 iPnc 34 40.70 0.4
 eSn 35 02.20
 SFS 2.66 109 eP 34 49.50 0.7
 CNIL 2.81 110 eP 34 52.50 1.6
 ALJ 3.06 102 eP 34 55.00 0.5
 EHOR 3.27 81 iPnc 34 57.70 0.2
 eSn 35 30.30

EPRU 3.29 96 ePn 34 58.50 0.6
 eSn 35 33.40
 EPLA 3.71 42 iPnc 35 03.80 0.1
 eSn 35 43.40
 ELUO 4.03 86 iPnd 35 08.30 0.0
 eSn 35 48.80

EBAN 4.46 78 iPnc 35 13.60 -0.8
 eSn 35 59.00
 PAB 4.47 59 ePg 35 39.00 24.3X
 eSn 36 12.00
 iSg 36 31.00

ECOG 4.59 89 iPnc 35 16.20 -0.2
 EGUA 4.64 95 iPnc 35 17.57 0.7
 eSn 36 04.20
 EZAM 4.81 6 iPnc 35 20.67 1.3
 eSn 36 13.90

GUD 5.19 49 iPnd 35 23.33 -1.6
 eSn 36 18.00
 ERUA 5.30 18 ePn 35 26.80 0.5
 eSn 36 22.50
 EHUE 5.37 83 ePn 35 26.28 -1.1
 eSn 36 22.30

EVIA 5.54 75 iPnd 35 27.69 -2.1X
 eSn 36 26.40
 ETOR 6.63 56 iPnd 35 43.50 -1.6
 eSn 36 52.20
 TIO 6.64 164 iPn 35 44.50 -0.9
 iSn 36 53.00

ANTZ 8.87 183 iPn 36 16.00 -0.4
 iSn 37 30.00
 S.D. = 1.0 on 18 of 20 obs.

FEB 17, 1993 18h 56m 54.28 ± 0.70s
 43.423 N ± 4.7km 5.448 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.8 (STR).

GELF 0.04 201 Pg 56 56.10 -0.3
 BERF 0.21 122 Pg 56 59.05 0.2
 PUYF 0.21 59 Pg 56 58.23 -0.7
 CDR 0.34 42 iPg 57 00.30 -1.1
 PRAF 0.43 332 Pg 57 03.26 0.2
 VILF 0.47 24 Pg 57 03.26 -0.6
 TAVF 0.48 66 Pg 57 03.86 -0.3
 GANF 0.66 30 Pg 57 07.46 -0.1

TOUF 1.43 65 Pn 57 20.83 0.3
 Sg 57 40.93
 AURF 1.44 71 Pn 57 20.57 0.1
 Sg 57 41.65
 SBF 1.51 72 Pn 57 22.43 1.0
 Sg 57 44.47

AUTN 1.55 68 Pn 57 22.48 0.4
 Sg 57 44.64
 SAOF 1.63 69 Pn 57 23.28 0.2
 DOI 1.69 50 Pc 57 25.40 1.4
 eSg 57 49.10
 BNI 1.85 28 P 57 30.50 4.0X
 eSn 57 53.70

CKI 2.28 63 P 57 33.10 0.6
 eSg 58 06.50
 PGF 2.75 107 Pn 57 38.16 -1.2
 S.D. = 0.7 on 16 of 17 obs.

& FEB 17, 1993 19h 10m 47.21s
 34.944 N 116.778 W
 DEPTH = 2.9km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.9 (PAS).

GSC 0.36 357 eP 10 53.94 -0.4
 SSK 1.05 226 eP 11 06.65 -1.2
 PEC 1.10 197 eP 11 07.40 -1.1
 ISA 1.56 298 ePn 11 13.43 -2.6
 ePg 11 15.90
 eLg 11 36.49

PLM 1.59 183 ePn 11 14.66 -1.8
 ePg 11 16.65
 eSg 11 37.62
 GLA 2.49 139 ePn 11 25.64 -3.7
 ePg 11 32.79
 eLg 12 06.83

BCH 2.72 276 ePg 11 36.27 3.5
 BONR 3.25 338 (Pn) 11 38.72 -1.6
 8 obs. associated

& FEB 17, 1993 19h 41m 13.54s
 57.581 N 142.522 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AEIC>. ML 2.6 (AEIC).

PNL 2.66 37 eP 41 51.88 -5.3
 S 42 21.91
 HON 2.68 44 eP 41 51.93 -5.5
 S 42 21.96
 PCA 2.78 24 eP 41 53.72 -5.3
 S 42 24.54

BCPM 2.81 31 eP 41 54.00 -5.4
 S 42 25.51
 YAH 2.82 8 eP 41 54.20 -5.5
 5 obs. associated

% FEB 17, 1993 20h 05m 16.72 ± 0.49s
 42.632 N ± 3.9km 18.932 E ± 4.4km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.6 (TTC).

NKY 0.19 15 iPg 05 21.64 0.7
 iSg 05 24.96
 TTG 0.32 130 iPg 05 23.55 0.3
 iSg 05 28.95
 BDV 0.36 193 iPg 05 24.27 0.2
 iSg 05 30.04

HCY 0.37 240 iPg 05 24.32 0.0
 iSg 05 30.19
 BRY 0.39 313 iPg 05 24.58 -0.2
 iSg 05 30.62
 ULC 0.71 160 iPg 05 30.48 -0.2
 iSg 05 41.28

IVA 0.75 71 iPg 05 31.35 -0.1
 iSg 05 42.62
 PVY 0.77 92 iPg 05 31.58 -0.2
 iSg 05 43.20
 PLE 0.78 26 iPg 05 31.60 -0.3
 iSg 05 43.31

S.D. = 0.4 on 9 of 9 obs.
 FEB 17, 1993 21h 31m 45.99 ± 1.62s
 36.480 N ± 15.3km 12.825 E ± 5.5km
 DEPTH = 12.4 ± 3.3 km
 CENTRAL MEDITERRANEAN SEA (400)

PTS 0.74 296 P 32 01.40 1.1
 eSg 32 11.40
 CVT 1.20 359 P 32 07.80 -0.2
 eSn 32 27.40
 MCT 1.32 29 P 32 11.27 1.1
 ERC 1.56 353 P 32 13.00 -0.6

PZI 1.77 71 P 32 16.43 -0.1
 GIB 1.79 32 P 32 17.00 0.1
 eSn 32 41.40
 MEU 1.80 69 P 32 15.89 -1.2
 MNO 2.08 45 P 32 22.37 1.1

ATN 2.69 51 P 32 30.13 0.3
 GMB 2.95 54 P 32 34.22 0.7
 SOI 3.03 57 P 32 34.30 -0.2
 GRI 3.69 50 P 32 44.25 0.3
 TDS 4.21 40 P 32 50.30 -1.1

17d 21h

MGR 4.24 30 P 32 50.90 -0.8
 SGO 4.51 25 P 32 55.60 0.0
 SDI 5.27 8 P 33 07.00 0.5
 PGF 6.74 335 Pn 33 27.20 0.0
 Sn 34 39.40
 LMR 8.39 327 Pn 33 48.90 -1.2
 SBF 8.45 332 Pn 33 49.60 -1.4
 FRF 8.51 328 Pn 33 51.10 -0.7
 LRG 8.55 327 Pn 33 51.60 -0.8
 LPL 10.13 335 Pn 34 17.20 2.8
 S.D. = 1.1 on 22 of 22 obs.

* FEB 17, 1993 21h 31m 49.70 ± 0.55s
 9.160 N ± 10.9km 126.319 E ± 13.6km
 DEPTH = 33.0km (normal)
 4.7mb (7 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

MNI 7.81 191 e(P) 33 31.50 -12.4X
 WB2 29.98 165 iPd 37 56.70 -0.9
 0.6s 7.00nm 4.6mb
 ASPA 33.46 167 iPc 38 27.70 -0.3
 0.3s 8.20nm 5.1mb
 WARB 35.13 179 eP 38 43.30 0.9
 0.4s 12.00nm 5.2mb
 GUN 42.38 302 P 39 42.80 -0.4
 0.8s 38.00nm 5.2mb
 PKI 42.67 301 P 39 45.00 -0.6
 KKN 42.85 301 P 39 46.20 -0.7
 DMN 42.94 301 P 39 48.00 0.3
 STK 43.34 161 eP 39 50.70 0.1
 0.3s 2.20nm 4.4mb
 GKN 43.45 301 P 39 51.00 -0.8
 HYB 47.10 285 ePd 40 21.40 0.6
 GBA 48.06 280 Pd 40 30.00 1.6
 IMA 77.62 24 (P) 43 45.00 0.7
 1.0s 4.00nm 4.4mb
 YKA 94.75 24 eP 45 09.10 0.2
 0.6s 0.40nm 4.0mb
 KIC 128.85 286 PKP 50 56.00 -0.6
 S.D. = 0.8 on 14 of 15 obs.

& FEB 17, 1993 21h 52m 07.29s
 58.366 N 142.637 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AEIC>. ML 2.5 (AEIC).

CYK 1.72 3 eP 52 31.71 -5.7
 S 52 52.77
 SNH 1.82 357 iP 52 34.18 -4.8
 S 52 55.01
 YAH 2.06 12 iP 52 37.74 -4.8
 PCA 2.12 34 eP 52 38.30 -5.1
 PNL 2.12 51 eP 52 38.04 -5.3
 MID 2.20 301 eP 52 40.44 -3.9
 BCPM 2.22 43 eP 52 39.81 -4.9
 HQN 2.23 59 iP 52 39.64 -5.2
 RAGM 2.28 334 iP 52 40.48 -5.1
 TGL 2.40 358 iP 52 42.21 -5.1
 S 53 09.04
 CROM 2.41 354 eP 52 42.27 -5.3
 BALM 2.68 3 iP 52 46.22 -5.2
 CTGM 2.69 14 iP 52 46.36 -5.2
 HIN 2.84 317 iP 52 48.90 -4.6
 GLB 3.14 350 eP 52 52.45 -5.3
 VLZ 3.35 328 eP 52 55.34 -5.3
 KLU 3.55 334 eP 52 58.56 -5.0
 MPA 4.04 305 iP 53 05.02 -5.4
 PTE 4.10 310 eP 53 05.95 -5.3
 SLKM 4.43 302 eP 53 10.58 -5.5
 SML 4.48 323 eP 53 11.18 -5.6
 PMS 4.53 312 eP 53 12.57 -5.0
 GHO 4.65 320 eP 53 13.99 -5.2
 23 obs. associated

% FEB 17, 1993 22h 03m 36.14 ± 0.79s
 37.806 N ± 8.0km 14.982 E ± 5.9km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.26 299 Pc 03 42.20 0.5
 eSg 03 47.10
 ATN 0.52 47 P 03 46.30 -0.4
 eSg 03 53.70
 MEU 0.71 183 P 03 50.10 0.0
 eSg 04 02.10

GIB 0.78 284 P 03 50.90 -0.5
 SOI 0.89 72 P 03 53.50 0.3
 eSg 04 08.00
 S.D. = 0.6 on 5 of 5 obs.

% FEB 17, 1993 22h 48m 33.30 ± 1.67s
 44.108 N ± 13.2km 11.793 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

SFI 0.19 167 Pc 48 38.30 0.8
 eSg 48 42.50
 PGD 0.24 193 Pd 48 39.00 0.5
 eSg 48 43.60
 CRE 0.49 166 Pd 48 42.10 -1.2
 eSg 48 48.60
 RSM 0.51 110 P 48 43.70 0.1
 eSg 48 51.90
 BDI 0.86 267 P 48 49.80 -0.2
 eSg 49 01.60
 S.D. = 1.1 on 5 of 5 obs.

* FEB 17, 1993 23h 27m 41.49 ± 1.60s
 26.258 N ± 13.6km 92.805 E ± 12.5km
 DEPTH = 27.7 ± 13.4 km
 4.2mb (4 obs.)

NORTHEASTERN INDIA (317)

ML 4.2 (NDI).
 SHL 1.08 231 iPg 28 01.20 0.2
 iSg 28 13.50
 LSA 3.73 337 Pn 28 37.20 -1.8
 Sn 29 24.00
 GUN 6.39 286 P 29 07.20 -9.4X
 PKI 6.73 283 P 29 12.60 -8.8X
 KKN 6.88 284 P 29 14.20 -9.2X
 DMN 7.00 283 P 29 16.00 -9.1X
 GKN 7.48 285 P 29 22.40 -9.3X
 GYA 12.43 86 eP 30 40.40 0.8
 HYB 15.88 239 eP 31 24.30 -0.5
 XAN 15.94 57 eP 31 29.00 3.5X
 pP 31 33.90
 WMO 18.01 348 eP 31 54.40 3.0X
 1.0s 14.00nm 4.0mb
 WB2 61.12 135 eP 37 54.80 -0.9
 0.5s 15.60nm 5.4mb X
 HFS 62.23 326 eP 38 03.60 0.8
 0.6s 1.60nm 4.3mb
 Z 19s 34.00um 6.5msz
 LR 00 06.00
 LR 59 26.00
 ASPA 63.59 138 eP 38 11.30 -0.9
 0.7s 4.40nm 4.7mb
 GEC2 63.74 314 P 38 15.20 2.1
 0.6s 0.60nm 3.9mb
 e 38 17.20
 e 38 20.00
 e 38 24.20
 S.D. = 1.7 on 8 of 15 obs.

? FEB 17, 1993 23h 37m 25.23 ± 1.35s
 21.640 N ± 12.0km 99.666 W ± 22.2km
 DEPTH = 33.0km (normal)
 3.2mb (1 obs.)

CENTRAL MEXICO (523)

CRX 2.22 180 eP 37 59.00 -1.8
 iS 38 26.00
 UNM 2.34 169 eP 38 02.80 0.3
 (S) 38 37.00
 MRX 2.40 217 iP 38 03.70 0.7
 iS 38 43.50
 PPM 2.74 159 iP 38 09.20 0.9
 iS 38 42.00
 III 3.25 177 (P) 38 20.00 4.7X
 (S) 38 59.00
 ACX 4.75 182 (P) 38 47.00 10.6X
 (S) 39 35.00
 YKA 42.09 350 eP 45 15.30 -0.1
 0.8s 0.40nm 3.2mb
 S.D. = 1.5 on 5 of 7 obs.

? FEB 18, 1993 00h 16m 11.90 ± 1.11s
 15.641 S ± 17.4km 75.389 W ± 13.8km
 DEPTH = 33.0km (normal)
 4.1mb (2 obs.)
 NEAR COAST OF PERU (115)

ARE 3.84 103 eP 17 11.00 0.6
 iS 18 06.80
 NNA 3.90 339 eP 17 11.50 0.5
 0.8s 63.43nm

e 17 15.50
 eS 18 03.50
 ZOBO 7.01 96 eP 17 55.00 -0.5
 i 17 57.50
 S 19 22.00
 LR 20 10.00
 LPB 7.06 98 Pc 17 57.30 1.2
 LR 20 31.00
 CNCB 7.21 100 iPc 17 59.80 1.5
 SIV 13.78 93 eP 19 26.00 -1.4
 (S) 22 19.00
 TCA 18.48 150 eP 20 27.50 0.3
 BAO 26.38 94 eP 21 45.20 -2.2
 ALO 58.32 330 eP 26 06.00 -0.3
 0.9s 1.17nm 4.0mb
 e 26 24.40
 ULM 68.04 346 eP 27 11.50 1.4
 YKA 83.73 343 eP 28 37.40 -1.1
 0.8s 1.50nm 4.2mb
 S.D. = 1.4 on 11 of 11 obs.

* FEB 18, 1993 01h 22m 05.95 ± 0.93s
 15.580 S ± 18.1km 75.284 W ± 14.4km
 DEPTH = 33.0km (normal)
 4.3mb (2 obs.) 4.7msz (1 obs.)
 NEAR COAST OF PERU (115)

ARE 3.75 104 eP 23 03.00 -0.2
 iS 23 50.30
 NNA 3.88 337 eP 23 03.00 -1.8
 0.8s 14.93nm
 i 23 09.20
 eS 23 57.50
 ZOBO 6.92 97 P 23 50.00 1.7
 Z 16s 4.25um
 S 25 17.00
 LR 26 00.00
 CNCB 7.12 101 P 23 50.00 -1.1
 S 25 25.10
 SIV 13.69 94 Pc 25 23.10 2.9X
 TCA 18.48 150 eP 26 20.50 -0.8
 BAO 26.28 94 eP 27 39.80 -0.7
 e 28 21.00
 ALO 58.32 330 eP 31 59.20 -1.2
 1.0s 2.50nm 4.3mb
 MSU 63.95 328 eP 32 39.27 0.8
 ARUT 64.05 327 eP 32 41.33 2.2
 ULM 68.00 346 eP 33 05.50 1.6
 SES 72.81 337 eP 33 33.00 -0.1
 pP 33 42.00 29kmX
 LIC 72.85 78 P 33 34.60 0.6
 Z 20s 0.40um 4.7msz
 KIC 73.16 78 P 33 35.20 -0.6
 NVL 74.46 160 eP 33 34.00 -8.4X
 YKA 83.70 343 eP 34 31.40 -1.0
 0.8s 2.00nm 4.3mb
 GBA 153.53 91 PKP 42 05.00 9.5X
 S.D. = 1.3 on 14 of 17 obs.

FEB 18, 1993 01h 47m 03.18 ± 0.83s
 33.664 N ± 10.4km 136.719 E ± 5.5km
 DEPTH = 388.7 ± 7.7 km
 4.6mb (28 obs.)

NEAR S. COAST OF WESTERN HONSHU (233)

MAT 3.12 23 iPd 48 06.50 -0.4
 iS 48 54.90
 SHK 3.46 286 iPc 48 11.30 1.3
 0.8s 686.57nm
 SSE 13.38 263 P 49 57.50 -3.4X
 1.0s 11.00nm 4.2mb
 NJ2 15.10 269 Pc 50 19.00 -0.4
 1.0s 46.00nm 4.8mb
 TIA 16.27 285 eP 50 30.80 -0.7
 1.0s 15.00nm 4.3mb
 BJI 17.61 297 eP 50 45.50 0.4
 1.5s 120.00nm 5.0mb
 eS 53 51.00
 WHN 19.20 267 Pc 51 02.00 1.2
 0.7s 87.00nm 5.3mb
 TIY 20.12 289 Pd 51 11.60 1.8
 HHC 21.22 297 P 51 21.20 0.7
 1.4s 74.00nm 4.9mb

BTO	22.33	296	eP	51	31.30	0.4	ARA0	4.49	66	Pn	25	17.12	-0.4	iS	02	02.08				
XAN	23.07	279	Pd	51	37.00	-0.7				Sn	26	04.27		PEL	0.43	159	iP	01	54.19	0.1
	0.8s	23.00nm				4.6mb				Lg	26	23.80			iS	02	03.80			
LZH	27.01	285	eP	52	12.50	-0.9	NRA0	7.46	188	P	26	00.26	1.0	FCH	0.76	140	iP	01	58.19	0.2
	1.2s	18.00nm				4.4mb				S	27	19.29			iS	02	10.93			
CD2	27.94	273	Pd	52	20.60	-0.9				Lg	28	02.44		TACH	0.91	184	iP	01	59.13	-0.3
	0.8s	32.00nm				4.7mb	HFS	8.00	180	eP	26	05.40	-1.5		iS	02	12.87			
GTA	30.06	292	Pd	52	39.00	-1.0		0.1s	0.30nm			4.4mb		PCH	0.92	161	iP	01	59.97	0.2
	1.2s	16.00nm				4.2mb		S.D. = 1.4	on	5	of	6	obs.		iS	02	13.64			
KMI	30.70	263	Pc	52	45.50	-0.3								LCCH	0.94	219	iP	02	00.09	0.3
	1.0s	40.00nm				4.7mb								CHCH	1.20	171	iP	02	02.97	-0.3
CHTO	36.75	256	ePd	53	37.10	0.4									iS	02	19.73			
	0.9s	17.05nm				4.4mb								LNK	1.29	200	iP	02	04.36	-0.1
WMO	39.05	300	P	53	56.00	0.4									S.D. = 0.3	on	9	of	9	obs.
	1.2s	8.70nm				3.9mb														
GUN	43.70	277	P	54	33.20	-0.3														
	0.6s	27.00nm				4.7mb														
PKI	44.21	276	P	54	37.00	-0.5														
	0.6s	14.00nm				4.4mb														
KKN	44.24	277	P	54	37.20	-0.4														
	0.6s	23.00nm				4.7mb														
DMN	44.44	277	P	54	39.00	-0.3														
GKN	44.69	277	P	54	40.80	-0.3														
	0.6s	26.00nm				4.7mb														
TTA	50.35	33	eP	55	23.80	-0.1														
SVW	50.49	36	eP	55	25.50	0.6														
BRW	51.00	22	eP	55	28.56	0.2														
IMA	51.51	29	eP	55	32.60	0.2														
	1.0s	7.90nm				4.0mb														
RSO	51.90	36	eP	55	34.43	-1.1														
		e				55	45.50													
KDC	52.20	40	e(P)	55	36.50	-0.9														
WB2	53.35	183	eP	55	45.20	-1.0														
	0.3s	11.90nm				4.7mb														
PMS	53.42	35	eP	55	45.60	-0.7														
	1.0s	47.60nm				4.8mb														
PMR	53.60	35	eP	55	45.67	-1.8														
	0.9s	22.84nm				4.5mb														
		e				55	54.99													
		e				55	59.60													
HYB	54.26	268	eP	55	52.00	-0.9														
KLU	55.14	35	eP	55	57.37	-1.3														
ASPA	57.07	183	eP	56	11.70	-0.7														
		eS				58	58.40													
GBA	57.10	265	P	56	13.00	0.2														
YKA	68.61	28	eP	57	24.90	-1.9														
	0.8s	2.30nm				3.9mb														
DPW	74.82	42	eP	58	03.55	0.1														
NEW	75.21	42	eP	58	05.58	0.0														
	0.9s	15.82nm				4.7mb														
LGPM	75.80	50	eP	58	09.71	0.6														
SES	77.18	37	ePc	58	16.00	-0.4														
ORV	77.39	51	eP	58	17.03	-0.6														
FCC	78.69	24	eP	58	28.00	3.8X														
KVN	79.86	50	eP	58	31.95	0.9														
BONR	80.36	51	eP	58	34.15	0.3														
TNP	80.98	50	eP	58	37.15	0.2														
	0.7s	10.24nm				4.7mb														
HVU	81.51	45	eP	58	40.47	0.9														
TPNV	82.27	51	eP	58	43.99	0.4														
	0.7s	11.03nm				4.7mb														
BW06	82.75	43	eP	58	44.24	-1.7														
	0.8s	10.76nm				4.7mb														
GSC	82.88	52	eP	58	46.16	-0.4														
PEC	83.48	54	eP	58	49.11	-0.4														
	0.7s	7.82nm				4.6mb														
MSU	83.89	47	eP	58	52.89	1.2														
ULM	84.39	31	eP	58	56.00	2.3														
SRU	84.51	46	eP	58	55.36	0.6														
RSSD	84.88	39	eP	58	58.00	1.5														
	1.0s	3.59nm				4.1mb														
LPB	151.90	59	PKP	06	10.00	2.1														
CNCB	152.17	59	PKP	06	10.60	2.2														
	S.D. = 1.0	on	54	of	56	obs.														
? FEB 18, 1993 02h 24m 07.89±5.14s																				
6B.102 N ±40.3km 13.767 E ±57.9km																				
DEPTH = 10.0km (geophysicist)																				
NORTHERN NORWAY (646)																				
MD 3.4 (BER).																				
MOR7	1.86	168	eP	24	40.60	0.5														
		eS				25	01.84													
KTK1	3.60	71	eP	25	05.20	0.4														
		eSg				25	54.41													
NSS	3.66	192	eP	24	56.55	-9.2X														
S.D. = 1.5 on 18 of 22 obs.																				
? FEB 18, 1993 04h 01m 42.03±4.29s																				
32.744 S ±24.9km 70.870 W ±11.4km																				
DEPTH = 66.5 ± 33.9 km																				
CHILE-ARGENTINA BORDER REGION (127)																				
MD 3.1 (SAN).																				
JACH	0.24	75	iP	01	52.57	-0.2														
		iS				02	01.26													
ROCH	0.26	208	iP	01	52.90	-0.1														
S.D. = 0.5 on 8 of 8 obs.																				
FEB 18, 1993 02h 56m 57.41±0.60s																				
37.502 N ± 8.1km 137.733 E ± 6.8km																				
DEPTH = 33.0km (normal)																				
4.5mb (5 obs.)																				
NEAR WEST COAST OF HONSHU, JAPAN(226)																				
MTMJ	0.92	176	P	57	13.90	-0.1														
MAT	1.03	158	iPd	57	13.90	-1.7														
		iS				57	31.40													
NIJ	1.04	104	P	57	15.80	0.1														
		S				57	32.50													
CHJJ	1.77	145	P	57	27.70	1.5														
		S				57	53.80													
YAMJ	1.94	69	eP	57	28.30	-0.4														
		eS				57	54.20													
IJDJ	2.02	176	P	57	32.10	2.2														
KAKJ	2.35	123	eP	57	38.60	4.2X														
TSRJ	2.42	216	P	57	34.30	-1.1														
OFUJ	3.47	62	eP	57	50.10	-0.4														
WKYJ	3.71	209	P	58	02.30	8.5X														
	</																			

18d 04h

YKA 79.97 356 eP 27 09.70 -0.1
0.8s 0.90nm 3.8mb
S.D. = 1.0 on 27 of 37 obs.

& FEB 18, 1993 04h 22m 22.95s
60.072 N 152.918 W
DEPTH = 117.5km
3.1mb (1 obs.)
SOUTHERN ALASKA
<AEIC>.

ILIM	0.02	292	iPc	22	38.50	0.8
			eS	22	51.35	
INE	0.07	261	ePc	22	38.61	0.7
			eS	22	51.70	
INW	0.11	268	ePc	22	38.70	0.9
			eS	22	51.86	
RS1	0.40	12	iPc	22	39.85	-0.7
RS2	0.40	11	iPc	22	39.82	-0.7
RSO	0.40	12	iPc	22	39.79	-0.8
RDW	0.42	7	ePc	22	39.79	-0.8
RDN	0.45	10	ePc	22	40.03	-0.7
NCT	0.49	359	iPc	22	40.20	-0.7
DFR	0.53	12	iPc	22	40.28	-0.9
PDB	0.70	247	iPd	22	41.35	-1.0
			eS	22	55.93	
AUL	0.74	201	ePd	22	41.94	-0.7
AUE	0.75	198	eP	22	41.88	-0.8
AUH	0.76	201	ePd	22	42.14	-0.8
AUI	0.78	199	eP	22	42.02	-1.0
			eS	22	57.16	
BRLK	1.07	106	eP	22	45.94	0.1
			eS	23	02.39	
NKA	1.07	50	ePc	22	46.70	0.9
MCNL	1.15	220	iPd	22	45.31	-1.3
			eS	23	02.89	
CKL	1.16	14	iPc	22	46.11	-0.8
			eS	23	04.83	
CKT	1.19	17	iPc	22	46.22	-0.9
			eS	23	04.58	
SPU	1.19	21	iPc	22	46.19	-1.0
			eS	23	04.21	
CKN	1.21	17	ePc	22	46.72	-0.6
BGL	1.22	12	iPc	22	46.91	-0.6
CP2	1.24	15	iPc	22	47.28	-0.6
CPAM	1.25	18	iPc	22	47.13	-0.7
			eS	23	06.00	
CRP	1.26	17	iPc	22	46.68	-1.3
			eS	23	04.46	
SLKM	1.41	71	eP	22	48.42	-1.2
SVW	1.69	309	P	22	51.50	-1.5
SEW	1.74	87	eP	22	51.89	-1.5
SUA	1.76	36	eP	22	53.00	-0.8
			eS	23	16.60	
MPA	1.82	75	eP	22	53.24	-1.2
PMS	2.03	53	eP	22	55.78	-1.4
			eS	23	21.06	
SKT	2.03	19	eP	22	55.73	-1.4
			eS	23	23.26	
PTE	2.09	66	eP	22	55.90	-1.9
PWA	2.17	42	P	22	58.50	-0.4
PLRM	2.40	49	eP	22	59.81	-2.1
PMR	2.40	49	(P)	22	57.31	-4.6
			eS	23	26.28	
GHO	2.59	47	eP	23	02.34	-2.2
SML	2.84	50	eP	23	05.02	-2.7
HIN	3.22	81	eP	23	10.76	-2.0
SCM	3.25	55	eP	23	10.80	-2.5
HUR	3.31	27	eP	23	12.85	-1.2
VLZ	3.42	69	eP	23	12.32	-3.1
CVA	3.60	79	eP	23	15.17	-2.7
TRF	3.61	19	eP	23	15.89	-2.4
KLU	3.72	64	ePd	23	16.69	-2.9
RND	3.86	28	eP	23	19.52	-2.0
GLB	4.67	69	eP	23	30.67	-1.9
CROM	4.90	78	ePd	23	33.62	-2.1
TGL	5.05	78	eP	23	35.54	-2.2
CCB	5.17	25	eP	23	36.31	-2.9
BALM	5.31	75	ePd	23	39.25	-2.0
YAH	5.58	82	eP	23	43.30	-1.8
CTGM	5.79	76	eP	23	46.34	-1.6
YKA	18.38	66	eP	26	27.40	-3.6
	0.5s	0.60nm			3.1mb	
	55 obs.	associated				

* FEB 18, 1993 04h 37m 39.35±0.50s
1.022 S ± 8.5km 127.567 E ± 11.8km

DEPTH = 29.2km (2 depth phases)
4.8mb (8 obs.)
HALMAHERA, INDONESIA (267)

PCI	7.73	271	ePc	39	32.70	-0.1
WB2	19.94	161	iPd	42	10.80	-1.3
			iS	45	48.40	
ASPA	23.33	165	iPd	42	46.80	0.6
	0.8s	21.40nm			4.7mb	
		eS	46	56.80		
STK	33.43	158	eP	44	18.70	0.9
	0.5s	1.60nm			4.2mb	
CHTO	34.34	306	eP	44	26.10	0.2
CD2	39.00	327	eP	45	05.10	0.0
TIY	41.00	342	eP	45	21.50	-0.1
LZH	43.02	331	eP	45	38.70	0.4
	1.5s	24.00nm			4.7mb	
		pP	45	47.00	28km	
		sP	45	52.50		
LSA	46.27	314	Pd	46	06.20	1.4
	0.6s	6.00nm			4.7mb	
GTA	47.60	331	eP	46	14.80	0.0
	1.0s	9.00nm			4.7mb	
		pP	46	24.00	31km	
GUN	49.27	309	P	46	27.80	-0.3
PKI	49.47	308	P	46	29.40	-0.3
	0.4s	8.00nm			5.1mb	
KKN	49.68	309	P	46	30.80	-0.3
	0.6s	24.00nm			5.4mb	
DMN	49.73	308	P	46	31.60	0.0
GKN	50.28	308	P	46	35.60	-0.1
	0.6s	20.00nm			5.3mb	
HYB	51.62	293	ePd	46	46.00	0.1
WMO	57.10	326	P	47	24.50	-1.1
	S.D. = 0.7	on 17	of 17	obs.		

* FEB 18, 1993 05h 30m 16.27±0.49s
10.830 N ± 5.2km 62.531 W ± 4.6km
DEPTH = 15.0 ± 3.7 km
NEAR COAST OF VENEZUELA (97)
MD 3.9 (TRN).

TCE	0.78	100	iPd	30	32.69	1.8
TRN	1.12	99	iPd	30	37.02	0.2
			eS	30	51.61	
TPP	1.18	116	iP	30	37.96	0.2
			eS	30	51.61	
TBH	1.48	103	iP	30	41.58	-0.7
			eS	30	59.14	
GRW	1.57	33	eP	30	44.65	0.9
			eS	31	04.27	
CUM	1.65	257	iPd	30	38.20	-6.6x
			iS	31	02.00	
PIG	1.69	79	eP	30	44.89	-0.5
			eS	31	05.02	
TPR	1.76	78	eP	30	45.58	-0.8
			eS	31	06.00	
BOT	1.81	79	eP	30	46.52	-0.6
			eS	31	07.74	
FCV	2.63	28	eP	30	58.71	-0.2
			eS	31	29.14	
SVB	2.73	27	eP	31	00.23	-0.1
			eS	31	31.00	
SVV	2.79	27	eP	31	01.08	-0.1
			eS	31	31.65	
GUAN	3.19	254	iPd	31	08.90	2.0
			iS	31	45.80	
SLB	3.31	26	eP	31	08.34	-0.3
			eS	31	46.09	
SLW	3.53	26	eP	31	11.58	-0.1
BIM	3.93	21	eP	31	17.63	0.2
MVM	4.03	23	eP	31	19.20	0.4
FDF	4.11	19	eP	31	20.26	0.4
CRM	4.21	22	eP	31	21.45	0.2
LLAV	4.22	266	iP	31	12.36	-9.2x
			iS	32	11.30	
OLLA	4.28	260	iPd	31	23.20	0.8
			iS	32	12.30	
DEG	5.63	15	eP	31	42.00	0.4
MORO	5.68	271	iP	31	42.90	0.6
			iS	32	46.60	
MGH	5.86	3	eP	31	44.00	-0.7
TOV	7.22	262	eP	32	03.30	-0.6
			eS	33	25.00	
SDV	8.21	257	eP	32	15.20	-2.7
			eS	33	44.00	
	S.D. = 1.0	on 24	of 26	obs.		

% FEB 18, 1993 06h 32m 35.25±0.69s
43.413 N ± 5.0km 5.460 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (STR).

GELF	0.04	219	Pg	32	36.87	-0.5
BERF	0.20	121	Pg	32	40.12	0.5
PUYF	0.21	56	Pg	32	39.74	-0.1
TREF	0.22	345	Pg	32	39.74	-0.2
CDR	0.34	40	ePg	32	41.70	-0.7
PRAF	0.44	332	Pg	32	45.06	0.7
VILF	0.48	23	Pg	32	44.92	0.0
TAVF	0.48	65	Pg	32	45.31	0.3
GANF	0.67	29	Pg	32	48.53	0.0
	S.D. = 0.5	on 9	of 9	obs.		

? FEB 18, 1993 06h 48m 12.59±1.20s
5.317 S ± 19.2km 151.708 E ± 25.3km
DEPTH = 97.0 ± 16.3 km
4.6mb (4 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.21	22	ePn	48	36.00	0.6
PMG	6.07	228	eP	49	40.00	-1.5
RMO	21.24	187	eP	52	52.20	-0.3
	0.9s	11.00nm			4.2mb	
DZM	21.93	141	iPc	53	04.80	5.4x
BRS	21.98	177	iPc	53	00.00	0.2
WB2	22.28	228	iPd	53	03.70	0.9
	0.7s	19.70nm			4.6mb	
ASPA	25.04	221	iPd	53	30.90	1.5
	0.7s	30.90nm			4.8mb	
YKA	96.39	28	eP	01	30.20	-1.3
	1.0s	2.10nm			4.6mb	
	S.D. = 1.5	on 7	of 8	obs.		

& FEB 18, 1993 07h 20m 03.24s
58.062 N 155.908 W
DEPTH = 115.3km
3.2mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>.

MCNL	1.39	35	iP	20	28.43	-1.1
CDD	1.47	53	iP	20	29.22	

0.6s 7.24nm 4.5mb X
 IMA 8.10 6 eP 21 56.01 -3.7
 0.7s 2.71nm 4.0mb X
 YKA 20.68 60 eP 24 30.60 -4.7
 0.4s 0.50nm 3.2mb
 39 obs. associated

FEB 18, 1993 07h 20m 22.73±0.73s
 38.674 N ± 7.4km 141.702 E ± 11.1km
 DEPTH = 74.5 ± 6.8 km
 4.6mb (6 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ 0.41 356 iP 20 36.20 0.9
 S 20 44.80
 YAMJ 1.40 250 iPd 20 45.90 -1.0
 S 21 02.10
 AOMJ 2.15 332 P 20 57.30 0.3
 NIJ 2.57 237 P 21 02.60 -0.3
 KAKJ 2.75 207 iPd 21 04.60 -0.8
 S 21 37.40
 CHJJ 3.39 220 P 21 14.90 0.5
 S 21 55.30
 MAT 3.50 234 (P) 21 16.00 0.1
 eS 22 06.00
 MTMJ 3.73 237 P 21 19.50 0.3
 MRRJ 3.78 353 eP 21 20.40 0.7
 eS 22 07.70
 HOOJ 3.90 18 eP 21 21.50 0.1
 eS 22 12.70
 IIDJ 4.40 225 P 21 30.70 2.1
 KUSJ 4.97 26 eP 21 34.70 -1.8
 eS 22 28.10
 ASAJ 5.49 7 eP 21 43.10 -0.5
 SSE 18.43 252 P 24 33.00 -1.5
 1.0s 11.00nm 4.0mb
 GUN 47.24 274 P 28 49.00 -1.6
 0.4s 8.00nm 5.0mb
 KKN 47.77 275 P 28 55.00 0.5
 0.4s 6.00nm 4.9mb
 GKN 48.17 275 P 28 58.60 1.0
 WB2 58.71 188 iPc 30 13.30 -1.6
 0.7s 4.00nm 4.7mb
 WRA 58.71 188 P 30 14.40 -0.5
 0.4s 2.70nm 4.7mb
 YKA 62.28 31 eP 30 38.20 -0.5
 0.7s 0.50nm 3.7mb
 ZOBO 145.65 58 PKP 39 55.80 0.6
 LPB 145.84 58 ePKP 39 56.00 0.8
 CNCB 146.12 58 PKP 39 58.10 2.2
 SIV 149.83 48 iPKP 40 11.40 10.4X
 i 40 31.30
 S.D. = 1.2 on 23 of 24 obs.

? FEB 18, 1993 08h 12m 55.99±1.72s
 10.689 N ± 20.2km 86.708 W ± 13.8km
 DEPTH = 33.0km (normal)
 3.9mb (1 obs.)
 OFF COAST OF COSTA RICA (77)
 MD 4.3 (APY).

SSN 1.04 54 iP 13 12.19 -2.0
 eS 13 34 51
 PYN 1.71 350 iP 13 24.33 0.4
 PYT 1.93 19 ePd 13 28.73 1.5
 SDV 15.94 95 eP 16 40.60 0.8
 TOV 16.67 92 iPc 16 49.50 0.6
 MEO 26.32 338 iPc 18 30.90 0.2
 WMOK 26.35 337 eP 18 31.08 0.1
 ALO 30.11 326 eP 19 05.80 0.6
 0.9s 1.92nm 3.9mb
 YKA 55.49 345 eP 22 27.60 -2.2
 0.6s 0.30nm 3.5mb X
 GBA 151.19 33 PKP 32 48.00 5.7X
 S.D. = 1.5 on 9 of 10 obs.

* FEB 18, 1993 08h 43m 52.31±1.61s
 22.922 S ± 13.3km 66.697 W ± 11.7km
 DEPTH = 206.5 ± 25.8 km
 JUJUY PROVINCE, ARGENTINA (128)

HJA 1.22 104 iPd 44 25.00 0.4
 YJA 1.33 56 iPc 44 26.00 0.0
 SLA 2.11 149 iPd 44 32.20 -0.7
 ANT 3.51 256 iPc 44 49.30 0.5
 eS 45 31.50

CNCB 6.20 349 P 45 24.30 0.8
 LPB 6.49 348 P 45 26.00 -1.2
 ZOBO 6.74 348 P 45 30.10 -0.4
 SIV 8.70 39 iPd 45 56.20 0.6
 S.D. = 0.9 on 8 of 8 obs.

FEB 18, 1993 09h 04m 16.28±0.61s
 40.478 N ± 6.2km 21.880 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.0 (THE).

FNA 0.49 309 ePg 04 25.92 -0.3
 eSg 04 33.48
 LIT 0.60 129 ePg 04 27.16 -1.3
 eSg 04 36.88
 GRG 0.62 39 ePg 04 29.06 0.3
 eSg 04 40.80
 VAY 0.99 32 ePn 04 31.50 -3.6X
 KNT 1.03 48 ePg 04 36.24 0.5
 eSg 04 50.80
 OHR 1.04 308 ePn 04 35.20 -0.7
 PAIG 1.48 111 ePb 04 43.48 0.5
 AGG 1.49 166 ePb 04 43.68 -0.1
 IGT 1.52 232 ePb 04 44.64 1.1
 S.D. = 0.9 on 8 of 9 obs.

* FEB 18, 1993 09h 43m 14.74±0.71s
 53.502 N ± 13.7km 164.845 W ± 8.4km
 DEPTH = 33.0km (normal)
 4.7mb (21 obs.)
 UNIMAK ISLAND REGION (10)
 ML 4.5 (PMR).

SDN 3.14 52 eP 44 00.32 -2.6
 ADK 7.38 262 eP 45 03.70 0.9
 KDC 8.18 54 e(P) 45 14.50 0.5
 SVW 9.10 29 eP 45 28.64 1.8
 RSO 9.59 39 eP 45 31.63 -2.0
 CP2 10.32 36 eP 45 40.88 -2.8X
 CRP 10.35 36 eP 45 40.19 -3.9X
 TTA 10.53 23 eP 45 46.91 0.5
 SLKM 10.61 43 eP 45 43.55 -3.9X
 PMS 11.30 41 eP 45 52.90 -4.0X
 KLU 12.90 44 eP 46 11.95 -6.4X
 IMA 13.77 19 eP 46 30.61 0.9
 0.9s 4.04nm 4.2mb
 BALM 14.26 49 eP 46 31.22 -5.0X
 FBA 14.31 30 (P) 46 36.85 0.1
 0.8s 6.09nm 4.2mb
 BRW 18.22 8 eP 47 26.40 0.1
 YKA 27.42 51 eP 49 01.60 2.8
 0.6s 2.40nm 4.0mb
 FCC 38.09 53 eP 50 33.00 1.4
 ULM 41.19 65 eP 50 57.50 0.1
 MAT 42.45 270 eP 51 09.00 1.1
 0.9s 15.13nm 4.7mb
 CN2 45.32 287 eP 51 30.40 -0.6
 0.8s 6.70nm 4.6mb
 ePp 51 40.50 34kmX
 TIA 55.12 285 eP 52 45.40 -0.4
 BTO 56.05 294 eP 52 52.60 0.0
 XAN 61.35 289 eP 53 28.80 -0.7
 KAF 64.39 354 iP 53 48.10 -1.0
 0.6s 4.80nm 4.8mb
 WMO 64.94 310 P 53 53.00 0.0
 1.0s 14.00nm 5.0mb
 NB2 65.76 2 P 53 57.60 -0.4
 0.9s 2.90nm 4.4mb
 NUR 66.09 355 eP 53 57.50 -2.5
 GYA 68.32 285 P 54 15.00 0.3
 1.0s 14.00nm 5.0mb
 LDF 77.46 10 eP 55 07.60 -0.3
 0.8s 3.35nm 4.4mb
 GRR 77.58 11 eP 55 08.43 -0.1
 LPF 77.91 11 eP 55 10.50 0.1
 GEC2 78.02 1 PKP 55 11.40 0.3
 0.6s 0.81nm 4.0mb
 e 55 14.00
 GUN 78.53 302 P 55 14.60 0.0
 0.6s 23.00nm 5.4mb
 KKN 78.93 302 P 55 17.00 0.4
 0.4s 6.00nm 4.9mb
 PKI 79.04 302 P 55 17.00 -0.4
 0.6s 10.00nm 5.0mb
 GKN 79.08 302 P 55 17.60 0.2
 0.6s 14.00nm 5.1mb

LOR 79.15 8 eP 55 17.20 0.0
 0.9s 5.55nm 4.6mb
 DMN 79.17 302 P 55 17.80 -0.2
 SSF 79.32 8 eP 55 18.30 0.2
 0.8s 7.00nm 4.7mb

MFF 79.42 11 eP 55 18.80 0.1
 LBF 79.44 8 eP 55 18.70 -0.1
 0.8s 5.25nm 4.6mb
 AVF 79.58 8 eP 55 19.50 0.0
 0.9s 8.20nm 4.7mb
 SMF 79.77 8 eP 55 20.40 -0.1
 0.8s 6.30nm 4.7mb
 KBA 79.79 1 iPd 55 20.70 -0.1
 MAF 80.07 9 eP 55 22.40 0.2
 RJF 80.88 10 eP 55 27.30 0.8
 0.6s 4.70nm 4.7mb
 OHR 85.64 356 eP 55 51.50 0.6
 HYB 90.96 301 eP 56 17.00 0.3
 BUL 145.13 338 ePKP 02 48.30 -2.1
 0.8s 6.34nm
 ipP 02 58.20
 WIN 149.08 357 ePKP 03 05.50 8.7X
 0.5s 7.04nm
 SEK 153.22 335 ePKP 03 08.00 5.3X
 S.D. = 1.0 on 43 of 51 obs.

FEB 18, 1993 10h 04m 31.46±0.41s
 53.547 N ± 8.0km 164.262 W ± 5.3km
 DEPTH = 33.0km (normal)
 4.7mb (28 obs.)
 UNIMAK ISLAND REGION (10)
 Felt (11) at Akutan.

SDN 2.84 49 eP 05 16.70 1.3
 KDC 7.87 53 eP 06 22.96 -3.5X
 SVW 8.90 28 eP 06 40.16 -0.5
 CP2 10.08 35 eP 06 57.54 0.4
 CRP 10.11 35 eP 06 57.69 0.2
 SLKM 10.34 42 eP 06 59.43 -1.0
 TTA 10.35 21 eP 06 57.69 -3.1X
 PMR 11.42 39 eP 07 13.50 -1.6
 0.9s 10.05nm 5.0mb
 KLU 12.63 44 eP 07 28.54 -2.9X
 BALM 13.97 49 eP 07 46.74 -2.4X
 FBA 14.10 30 eP 07 48.71 -2.0
 1.0s 6.39nm 4.3mb
 SIT 16.78 66 (P) 08 34.31 9.1X
 1.0s 295.61nm 5.4mb
 YKA 27.12 51 eP 10 14.00 1.2
 0.7s 4.80nm 4.2mb
 SES 32.30 74 eP 10 59.00 -0.2
 MEMM 34.79 99 (P) 11 21.30 0.6
 BONR 34.98 98 eP 11 23.61 0.9
 TNP 35.54 96 eP 11 27.55 0.2
 0.8s 8.35nm 4.7mb
 HVU 35.85 88 eP 11 30.42 0.5
 DUG 36.80 90 eP 11 38.37 0.4
 1.0s 14.12nm 4.8mb
 TPNV 36.86 97 eP 11 38.97 0.5
 0.8s 16.13nm 4.9mb
 FCC 37.79 53 ePd 11 49.40 3.7X
 ARUT 37.97 93 eP 11 48.18 0.3
 EMUT 38.23 89 eP 11 50.53 0.4
 MSU 38.26 92 eP 11 50.58 0.3
 SRU 38.86 89 eP 11 55.20 0.0
 PLM 39.00 102 eP 11 57.21 0.8
 RSSD 39.64 79 eP 12 01.18 -0.5
 1.1s 9.53nm 4.5mb
 ULM 40.86 66 ePd 12 14.30 2.9
 TUC 43.32 97 ePc 12 32.23 0.4
 1.0s 15.23nm 4.7mb
 CN2 45.64 288 eP 12 49.00 -1.2
 ACO 47.21 83 iPc 13 02.60 -0.2
 WMOK 48.77 85 eP 13 14.15 -0.8
 0.8s 17.24nm 5.1mb
 ePp 13 23.24 30kmX
 esP 13 28.80
 FVM 51.46 76 eP 13 33.24 -2.2
 0.7s 11.49nm 4.9mb
 MIAR 51.99 81 eP 13 37.89 -1.5
 1.0s 9.44nm 4.7mb
 ELC 52.63 76 eP 13 42.03 -2.2
 BTO 56.35 294 eP 14 13.20 1.7
 CVL 58.25 68 eP 14 23.30 -1.4
 SDF 59.09 355 iP 14 30.00 -0.2
 CEH 59.39 70 eP 14 30.91 -1.8
 0.8s 18.49nm 5.3mb

ZOBO	50.48	249	Pd	19	47.80	-2.0
Z	17s		8.59um			5.8mszx
			i	19	59.50	
			S	26	50.00	
			LR	34	00.00	
STV	50.50	25	P	19	49.94	1.1
LPB	50.51	249	P	19	50.40	0.7
			LR	35	50.00	
ENR	50.52	25	P	19	49.99	0.9
PZZ	50.62	24	P	19	50.49	0.7
BGF	50.75	20	eP	19	50.80	0.2
	1.1s		18.80nm			4.9mb
ROB	50.77	25	P	19	52.18	1.3
RRL	50.83	24	P	19	52.05	0.5
FIN	50.85	26	P	19	51.50	0.1
LPF	50.88	16	eP	19	51.40	-0.2
	1.1s		19.05nm			4.9mb
BNi	50.89	24	Pd	19	53.50	1.6
BUL	50.91	116	iPd	19	51.80	-0.6
			iS	27	08.00	
BHB	50.96	24	P	19	50.67	-1.6
CKI	51.05	25	Pd	19	53.60	0.7
AVF	51.13	20	eP	19	53.50	0.0
	1.1s		22.95nm			5.0mb
RMP	51.13	31	P	19	55.70	2.1
SMF	51.17	20	eP	19	53.60	-0.2
RSP	51.21	24	P	19	55.48	1.2
GRR	51.26	16	eP	19	54.00	-0.4
	1.1s		57.15nm			5.4mb
PCP	51.26	25	P	19	54.01	-0.6
LPG	51.29	23	eP	19	55.60	0.5
	1.0s		28.80nm			5.2mb
KSR	51.30	123	iPc	19	55.00	-0.4
	1.0s		20.00nm			5.0mb
LPL	51.30	23	eP	19	55.50	0.4
	0.9s		25.05nm			5.1mb
SSF	51.41	20	eP	19	55.70	0.0
	0.9s		25.55nm			5.2mb
LSD	51.42	24	P	19	56.39	0.3
MGR	51.48	34	P	19	57.00	0.7
LBf	51.51	20	eP	19	56.20	-0.3
	1.0s		31.60nm			5.2mb
FRS	51.59	129	iPc	19	56.60	-0.7
	0.7s		23.97nm			5.2mb
TDS	51.60	35	P	19	57.00	-0.2
SDI	51.63	32	P	19	58.10	0.7
SGO	51.63	34	Pd	19	58.20	0.9
LDF	51.65	16	eP	19	56.90	-0.5
	1.1s		34.45nm			5.2mb
FLN	51.70	16	eP	19	57.20	-0.6
	1.0s		36.20nm			5.3mb
Z	21s		3.90um			5.4msz
LOR	51.71	20	eP	19	57.60	-0.4
	0.9s		20.45nm			5.1mb
Z	21s		4.43um			5.5msz
BDI	51.79	27	P	19	59.30	0.6
BOB	51.83	26	P	19	59.70	0.8
FIR	51.88	28	eP	20	02.00	2.8

ORX	51.90	24	P	19	57.49	-2.0
BLF	52.00	127	eP	19	57.00	-3.6X
	1.0s		50.00nm			5.4mb
ASS	52.03	30	P	20	00.50	0.0
DIX	52.03	24	ePd	20	01.90	1.2
CRE	52.10	29	P	20	00.90	-0.1
	1.6s		74.00nm			5.4mb
PGD	52.18	28	Pd	20	01.50	-0.2
MMK	52.23	24	ePc	20	02.70	0.5
SFI	52.27	28	P	20	01.90	-0.2
VAI	52.41	25	P	20	02.70	-0.5
ARV	52.48	29	P	20	05.20	1.4
TMA	52.65	25	ePd	20	04.10	-1.1
MDI	52.74	25	P	20	05.20	-0.4
SEK	52.84	126	iPc	20	06.50	-0.4
	1.0s		30.00nm			5.2mb
LOMF	52.85	22	P	20	06.28	-0.3
VDL	53.20	25	ePc	20	09.80	0.5
BBS	53.21	23	P	20	08.65	-0.5
HAU	53.22	21	eP	20	08.60	-0.7
	0.8s		26.20nm			5.2mb
	19s		2.28um			5.2Msz
BSF	53.24	22	eP	20	08.50	-1.0
	1.0s		20.60nm			5.0mb
VLS	53.24	39	eP	20	10.00	0.5
VITF	53.27	21	P	20	09.11	-0.5

MOF	53.38	22	P	20	09.33	-1.2
ZLA	53.56	23	ePd	20	12.10	0.3

18d 10h

Z	20s	7.87um	6.1Msz	TPNV	37.01	97 eP	21 23.47	-0.3	GEC2	89.60	329 P	36 34.10	-2.4	
QUE	87.11	60 eP	23 32.20	-4.3X	0.6s	4.88nm		4.5mb	1.6s	3.78nm		4.4mb		
GOL	87.14	310 P	23 50.00	13.4X	GSC	37.80	99 eP	21 30.44	0.1		e	36 59.80		
Z	19s	7.46um	6.1Msz	FCC	37.93	53 eP	21 34.00	3.1X	ZOBO	150.03	72 iPKP	43 31.60	5.9X	
ALO	87.80	305 P	23 39.60	-0.1	ARUT	38.12	93 eP	21 32.98	-0.1	i	43 56.70			
	0.8s	4.38nm	4.8mb	MSU	38.40	91 eP	21 35.62	0.1	LPB	150.18	72 ePKP	43 37.00	11.3X	
SRU	91.12	309 P	23 55.40	0.2	SRU	39.01	89 eP	21 40.54	0.0	CNCB	150.41	72 PKP	43 33.70	7.5X
SES	91.36	320 eP	23 57.00	1.1	GLA	40.55	100 eP	21 53.13	0.0	S.D. = 1.2	on 29 of 34 obs.			
TUC	91.37	302 P	24 10.00	13.6X	KAF	64.40	354 eP	24 48.40	-1.5					
Z	20s	2.79um	5.7Msz		0.6s	4.10nm		4.7mb		FEB 18, 1993	11h 54m 34.76±0.57s			
YKA	92.79	332 eP	24 00.70	-1.4	NUR	66.09	355 eP	24 59.80	-1.0	15.039 N ± 9.4km	91.682 W ± 4.5km			
	0.8s	2.50nm	4.7mb	HFS	66.70	1 eP	25 03.30	-1.3	DEPTH = 22.0km	(3 depth phoses)				
KSH	94.49	51 eP	24 18.00	7.3X		0.4s	2.40nm		4.7mb	4.7mb (21 obs.)				
Z	20s	9.95um	6.3Msz	CDF	78.21	6 eP	26 12.60	-0.3		MEXICO-GUATEMALA BORDER REGION (62)				
N	16s	4.30um		GUN	78.69	302 P	26 16.40	0.2						
	eSKS	34 50.00			0.4s	9.00nm		5.1mb	TPX	0.58	257 iPc	54 44.20	-1.9	
	eS	35 20.00		BSF	78.76	6 eP	26 16.40	0.4	iS	54 51.00				
TPNV	95.71	307 P	24 30.00	13.6X		0.7s	3.40nm		4.5mb	SCX	1.92	332 iP	55 06.30	-0.3
Z	20s	2.46um	5.7Msz	KKN	79.09	302 P	26 18.40	0.1	iS	55 26.30				
ISA	97.60	306 P	24 30.00	5.2X	PKI	79.21	302 P	26 19.20	0.2	OXX	5.26	293 iP	55 55.20	1.0
Z	21s	2.83um	5.7Msz	GKN	79.24	303 P	26 18.20	-0.8	IISM	6.72	307 (P)	56 17.00	2.4	
CMB	98.89	308 P	24 40.00	9.4X	SSF	79.29	8 eP	26 19.40	0.7	PPM	7.76	302 eP	56 28.20	-1.5
Z	21s	2.40um	5.7Msz	DMN	79.33	302 P	26 20.20	0.6	ACX	8.07	284 (P)	56 34.00	0.3	
WDC	100.23	311 Pdiff	24 50.00	13.4X	MFF	79.38	11 eP	26 20.00	0.8	III	8.16	295 (P)	57 14.30	39.2X
Z	18s	4.81um	6.0Msz	LBF	79.40	8 eP	26 19.80	0.4	UNM	8.34	302 (P)	56 16.00	-21.7X	
SIT	104.18	330 Pdiff	25 00.00	6.3X	0.7s	3.95nm		4.5mb	CRX	8.79	301 (P)	57 06.00	22.1X	
Z	21s	3.19um	5.8Msz	AVF	79.54	8 eP	26 20.70	0.7	MRX	10.19	298 eP	57 03.50	0.6	
PMR	108.20	337 PKP	29 30.00	11.9X	0.5s	2.20nm		4.4mb	CGX	12.16	294 (P)	57 28.00	-1.9	
Z	19s	3.21um	5.9Msz	SMF	79.73	8 eP	26 21.80	0.7	PRM	20.75	22 (P)	59 15.60	-1.0	
GTA	112.57	47 ePKP	29 35.00	7.7X	0.7s	4.95nm		4.6mb	FNO	20.78	347 e(P)	59 15.70	-1.2	
Z	22s	2.65um	5.8Msz	LPL	81.07	6 eP	26 31.00	2.5	OCO	21.05	347 iPd	59 18.50	-1.2	
E	16s	1.46um		CAF	81.27	10 eP	26 30.30	1.0	RRO	21.20	345 iPc	59 20.90	-0.3	
LZH	116.70	49 ePKP	29 45.00	9.6X	S.D. = 0.9	on 34 of 42 obs.			ELC	22.26	5 (P)	59 31.39	-0.4	
Z	22s	2.28um	5.7Msz						ACO	22.57	344 iPc	59 34.50	-0.5	
E	17s	1.91um							CEH	23.63	26 (P)	59 43.20	-2.0	
SMY	126.69	350 PKP	30 10.00	16.2X					0.7s	11.83nm		4.5mb		
Z	19s	3.06um	6.0Msz						pP	59 48.00		17km		
HON	134.56	300 PKP	30 20.00	10.3X					NAV	24.21	22 eP	59 52.20	1.4	
Z	20s	1.70um	5.8Msz						TUC	24.46	318 ePd	59 54.45	1.0	
STK	143.17	153 ePKP	30 38.90	13.7X					0.9s	8.91nm		4.4mb		
ASPA	144.72	135 ePKP	30 26.40	-1.7	MAT	8.06	341 eP	25 40.00	1.5	GLA	27.61	315 eP	00 23.15	0.4
	1.1s	14.20nm			0.9s	58.82nm		5.7mb X	MSU	29.55	326 ePc	00 41.32	0.9	
CMS	145.30	158 ePKP	30 31.00	2.2	eS	27 08.00			ARUT	29.74	324 eP	00 42.73	0.7	
WRA	147.28	130 PKP	30 42.20	9.8X	SSE	17.68	282 Pc	27 47.50	1.4	RSSD	30.84	343 eP	00 50.98	-0.7
	0.7s	4.20nm			0.8s	9.00nm		4.0mb	0.7s	5.61nm		4.5mb		
WB2	147.29	130 iPKPd	30 40.00	8.4X	Z	20s	1.80um	3.9MszX	RSNY	32.82	23 eP	01 08.29	-0.5	
	0.7s	3.80nm			N	16s	1.00um		0.9s	15.82nm		4.9mb		
RMQ	150.90	150 ePKP	30 51.00	13.2X	E	16s	1.10um		KVN	33.33	321 (P)	01 14.84	1.3	
	0.7s	20.00nm			MDJ	18.27	332 eP	27 52.50	-0.8	pP	01 21.65		23km	
BRS	151.32	165 e(PKP)	30 54.00	15.6X	0.8s	32.00nm		4.5mb	LCCM	35.08	335 eP	01 29.20	0.7	
e	33 30.00				CN2	19.59	323 eP	28 13.20	4.2X	ULM	35.28	355 eP	01 30.00	0.1
GUMO	159.72	49 e(PKP)	30 59.20	9.6X	0.8s	3.80nm		3.7mb	ZOBO	38.86	142 P	02 05.50	4.4X	
Z	35s	1.37um	5.6MszX		esP	28 24.00			LON	40.37	328 (P)	02 14.88	2.2	
S.D. = 1.0	on 206 of 258 obs.				NJ2	19.71	285 Pc	28 11.50	1.1	pP	02 22.49		26km	
					0.8s	32.00nm		4.7mb	SIV	43.18	134 eP	02 43.00	7.0X	
FEB 18, 1993	11h 14m 15.49±0.41s				BJI	23.51	305 eP	28 48.00	-0.6	FCC	43.68	358 eP	02 42.50	3.0X
53.513 N ± 7.1km	164.513 W ± 5.3km				WHN	23.56	281 Pc	28 50.50	1.4	YKA	50.09	346 eP	03 28.80	-1.1
DEPTH = 33.0km	(normal)				TIY	25.69	297 eP	29 07.80	-1.8	0.6s	6.70nm		4.8mb	
4.5mb (12 obs.)					HHC	27.11	304 eP	29 21.80	-0.8	FBA	62.42	336 eP	04 57.32	-0.8
UNIMAK ISLAND REGION	(10)				1.2s	6.10nm		4.1mb	0.9s	2.69nm		4.4mb		
ML 4.5 (PMR).					XAN	28.13	289 P	29 30.50	-1.4	EKA	76.95	36 Pc	06 27.00	-0.1
SDN	2.98	50 eP	15 01.61	0.2	GYA	30.83	274 P	29 56.00	-0.2	0.8s	6.50nm		4.7mb	
AOK	7.57	262 eP	16 04.94	-1.3		1.2s	16.00nm		4.7mb	LPF	79.40	43 eP	06 40.70	-0.1
0.5s	37.71nm			5.7mb X	CD2	32.62	283 Pc	30 11.00	-0.8	0.8s	7.40nm		4.8mb	
KDC	8.01	53 eP	16 10.38	-2.0	CHTO	39.97	265 eP	31 14.80	0.7	GRR	79.46	43 eP	06 41.20	0.1
SVW	9.00	29 eP	16 26.25	0.1	WMQ	44.99	304 eP	31 55.00	0.2	0.8s	11.95nm		5.0mb	
0.8s	20.19nm			5.3mb X	CP2	53.73	33 eP	33 01.73	-0.2	FLN	79.63	42 eP	06 42.30	0.3
RSO	9.46	38 eP	16 33.32	0.7	CRP	53.77	33 ePd	33 02.91	0.8	0.6s	5.05nm		4.7mb	
CP2	10.19	35 eP	16 41.65	-1.1	FBA	56.04	29 (P)	33 31.00	12.6X	LDF	79.90	42 eP	06 43.70	0.3
CRP	10.23	36 eP	16 42.65	-0.4	YKA	70.84	28 eP	34 54.40	-1.5	1.1s	12.20nm		4.8mb	
TTA	10.44	22 eP	16 46.35	0.4	0.8s	1.10nm		4.0mb	MFF	80.28	44 eP	06 45.70	0.2	
0.8s	2.29nm			4.5mb X	RMW	73.52	45 (P)	35 10.14	-2.0	0.8s	5.10nm		4.6mb	
SLKM	10.46	42 eP	16 43.65	-2.6X	OBN	74.64	325 eP	35 18.00	-0.4	LFF	81.23	46 eP	06 51.00	0.5
PMS	11.16	40 eP	16 53.20	-2.6X	DPW	75.53	43 eP	35 24.76	1.0	0.9s	11.95nm		4.9mb	
PMR	11.54	39 (P)	16 54.77	-6.0X	KAF	75.54	334 eP	35 23.20	-0.2	EPF	81.35	48 eP	06 52.00	0.7
KLU	12.76	44 eP	17 12.77	-4.4X	0.4s	1.80nm		4.4mb	LPO	81.59	46 eP	06 52.80	0.3	
IMA	13.69	19 (P)	17 29.55	0.0	NEW	76.00	42 eP	35 27.16	0.8	0.7s	4.85nm		4.6mb	
0.9s	3.14nm			4.1mb	0.9s	14.02nm		5.0mb	RJF	81.68	45 eP	06 53.00	0.1	
BALM	14.10	49 (P)	17 30.90	-4.0X	BONR	80.13	52 (P)	35 49.20	-0.3	TCF	81.93	44 eP	06 54.30	0.1
FBA	14.21	30 eP	17 33.33	-2.8X	LCCM	80.31	43 eP	35 51.40	1.2	1.0s	7.60nm		4.7mb	
0.8s	1.80nm			3.8mb	NB2	81.67	338 P	35 58.30	1.5	MAF	82.19	44 eP	06 55.60	0.0
BRW	18.19	8 e(P)	18 28.00	1.4X	0.9s	6.00nm		4.6mb	0.8s	4.05nm		4.5mb		
YKA	27.26	51 eP	19 58.50	0.4	TPNV	82.04	52 (P)	35 58.75	-0.7	BGF	82.30	44 eP	06 56.20	0.1
0.8s	2.50nm			3.9mb	ARUT	83.53	50 (P)	36 07.77	0.6	0.8s	10.50nm		5.0mb	
DUG	36.95	90 eP	21 23.14	-0.1	SRU	84.76	48 iPc	36 14.13	0.8	AVF	82.58	44 eP	06 57.30	-0.3
0.7s	2.48nm			4.2mb	KSP	87.00	329 eP	36 24.70	0.8	0.7s	2.55nm		4.4mb	
					ic	36 47.90			SSF	82.62	43 eP	06 57.70	-0.1	

18d 12h

		iPg	19	58.00	
		eSg	20	23.00	
KHC	2.56	214 ePn	20	08.50	0.5
		e	20	14.00	
MOX	2.71	258 ePg	20	17.40	7.4X
		iSg	20	58.00	
OJC	2.76	111 iP	20	12.20	1.5
		iS	20	48.10	
GEC2	2.77	210 Pn	20	12.30	1.3
		Pg	20	17.50	
		Sg	20	57.30	
WET	2.83	222 iPnc	20	12.30	0.6
VKA	3.02	173 iPg	20	22.90	8.4X
		iSg	21	06.60	
KBA	4.49	202 iPnc	20	34.90	-0.5
	0.5s	5.80nm			
		i	21	39.20	
		i	21	52.80	
		i	21	59.10	

S.D. = 1.6 on 7 of 9 obs.

* FEB 18, 1993 12h 42m 53.77 ± 3.57s
 51.498 N ± 23.5km 16.166 E ± 21.0km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.7 (GRF), 3.5 (VIE).

KSP	0.66	173 iPd	43	06.20	-0.7
	0.4s	133.00nm			
		iS	43	15.00	
		i	43	19.50	
CLL	1.99	266 iPn	43	27.40	-0.4
		iPg	43	31.20	
		iSg	43	57.40	
OJC	2.63	118 eP	43	42.40	5.4X
		iS	44	18.60	
KHC	2.89	216 Pn	43	40.50	-0.2
		e	43	48.00	
		e	44	17.00	
		eSg	44	26.60	
		e	44	31.50	
MOX	2.99	255 ePn	43	42.30	0.2
		iPg	43	50.60	
		iSg	44	30.60	
WET	3.16	223 iPnc	43	44.60	0.1
VKA	3.24	178 iPnc	43	46.60	1.0
		iPg	43	54.50	
		iSg	44	39.30	
GRF	3.63	242 iPnc	43	51.40	0.2
		ePg	44	02.50	
		eSg	44	49.10	
KBA	4.79	204 iPnc	44	07.50	-0.4
		iPg	44	22.80	
		iSg	45	22.80	
WTTA	5.17	217 iPnd	44	13.30	0.2
	0.5s	5.00nm			4.4mb X
		i	45	30.40	
		i	45	36.90	
RBL	5.34	200 P	44	16.00	0.5
FVI	5.39	206 P	44	15.50	-0.6
		eSn	45	42.50	
OGA	5.73	218 iPd	44	21.40	0.3

S.D. = 0.5 on 12 of 13 obs.

? FEB 18, 1993 12h 54m 45.07 ± 0.94s
 39.125 N ± 8.0km 27.609 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 4.4mb (8 obs.) 3.9Msz (2 obs.)
 TURKEY (366)
 MD 2.6 (ISK).

IZM	0.77	201 ePg	55	00.20	0.0
		eSg	55	12.70	
DST	0.92	58 ePn	55	02.80	0.0
EZN	1.22	306 ePn	55	07.70	0.0
EDC	1.24	9 ePn	55	08.00	0.0

S.D. = 0.1 on 4 of 4 obs.

* FEB 18, 1993 13h 27m 01.00 ± 0.68s
 50.054 N ± 27.1km 29.039 W ± 7.7km
 DEPTH = 10.0km (geophysicist)
 4.4mb (8 obs.) 3.9Msz (2 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)

LPF	18.43	B6 eP	31	21.60	3.7X
	1.4s	35.30nm			4.3mb
GUD	19.78	109 eP	31	33.90	-0.3
PAB	20.34	112 eP	31	41.00	1.0

RJF	21.03	91 eP	31	46.90	-0.1
LPO	21.08	93 eP	31	46.80	-0.7
TCF	21.10	88 eP	31	47.50	-0.2
	1.0s	20.00nm			4.4mb
MAF	21.35	88 eP	31	50.20	-0.1
CAF	21.54	92 eP	31	52.10	-0.1
	1.6s	49.75nm			4.7mb
AVF	21.65	86 eP	31	53.30	0.0
	1.0s	11.60nm			4.2mb
SSF	21.65	85 eP	31	53.40	0.1
LOR	21.81	85 eP	31	54.80	-0.1
	Z 20s	0.73um			4.1Msz
LBF	21.98	85 eP	31	56.60	-0.1
	1.3s	34.30nm			4.6mb
SMF	22.02	86 eP	31	57.20	0.2
	1.4s	48.80nm			4.7mb
HAU	23.16	81 eP	32	08.50	0.2
	Z 21s	0.32um			3.8Msz
BSF	23.50	82 eP	32	11.60	-0.1
GRF	25.74	75 eP	32	39.80	6.8X
CLL	26.41	71 iPc	32	45.70	6.6X
BRG	27.10	72 e(P)	32	51.80	6.4X
GEC2	27.54	76 P	32	49.80	0.2
	1.5s	2.65nm			3.8mb
		e	32	55.60	
FVM	44.56	279 eP	35	12.70	-1.9
ALO	56.55	286 ePc	36	48.00	2.0
	1.2s	3.91nm			4.3mb
BCAO	60.51	122 iPd	37	12.90	-0.7X

S.D. = 0.8 on 17 of 22 obs.

FEB 18, 1993 13h 28m 18.93 ± 0.24s
 44.477 N ± 2.1km 114.785 W ± 2.3km
 DEPTH = 5.0km (geophysicist)
 WESTERN IDAHO (33)
 ML 3.8 (GS), 4.0 (BUT). Felt
 (IV) at Choltis and (II) at
 Clayton. Also felt at Stanley.

STID	0.37	189 iP	28	26.40	0.1
PCID	0.56	179 iP	28	30.00	-0.2
BCYI	1.00	99 iPc	28	38.16	-0.4
		eS	28	51.30	
CNCI	1.10	119 iPc	28	39.45	-0.8
TCSI	1.27	132 iPd	28	42.46	-0.7
		eS	29	00.56	
HWSI	1.33	114 iPd	28	43.75	-0.3
COMI	1.33	139 iPd	28	43.53	-0.6
		eS	29	00.15	
ICI	1.33	96 ePc	28	44.31	0.1
		eS	29	02.32	
MCMT	1.43	75 iPnd	28	45.90	0.1
HPI	1.44	122 iPc	28	45.69	-0.3
		eS	29	04.80	
SMBI	1.47	131 iPc	28	46.19	0.0
		eS	29	04.17	
LLRI	1.53	119 iPc	28	47.18	0.1
		eS	29	07.12	
GTRI	1.66	137 iPc	28	48.78	-0.2
		eS	29	11.51	
NPRI	1.66	121 iPc	28	48.73	-0.3
		eS	29	09.98	
CBTI	1.74	128 iPc	28	49.79	-0.3
		eS	29	10.49	
PZCI	1.77	94 iPc	28	50.86	0.2
		eS	29	15.72	
SPCI	1.86	123 iPc	28	51.68	-0.2
		eS	29	16.90	
LTMT	1.92	88 (P)	28	53.81	1.0
GBI	2.02	103 iPc	28	54.23	0.1
		eS	29	21.96	
HBMT	2.03	49 ePnd	28	54.30	-0.1
BGMT	2.09	68 ePn	28	55.00	-0.3
HHA1	2.10	123 ePd	28	55.26	-0.1
		eS	29	24.49	
LRM	2.13	50 ePn	28	55.60	-0.3
BUT	2.20	45 ePn	28	57.30	0.5
		ePg	29	00.10	
		eSg	29	29.10	
IRCI	2.21	115 eP	28	57.27	0.4
		eS	29	27.51	
TPMT	2.24	82 ePn	28	57.90	0.4
PTI	2.38	132 eP	28	59.47	0.1
		eS	29	30.39	
LCCM	2.47	55 ePn	28	59.93	-0.7
IMW	2.83	100 ePd	29	06.20	0.3
MEMT	2.93	66 ePn	29	07.10	-0.2

HRV	3.05	42 ePn	29	08.10	-0.7
HVU	3.07	151 eP	29	09.33	0.2
		eS	29	52.06	
NEW	4.12	338 ePn	29	23.49	-0.4
		eSg	30	28.26	
DPW	4.14	326 eP	29	23.48	-0.8
		eS	30	28.95	
BW06	4.16	112 ePn	29	25.40	0.7
		ePg	29	44.29	
		eS	30	25.76	
VGB	4.38	286 eP	29	27.99	0.4
DUG	4.52	160 eP	29	29.22	-0.5
DAU	4.83	146 eP	29	29.70	-4.6X
LON	5.43	297 eP	29	41.63	-0.9
EMUT	5.51	146 ePn	29	45.18	1.2
KVN	5.96	206 (P)	29	51.74	1.6
LBFM	6.08	242 (P)	29	50.56	-1.3
SRU	6.23	148 eP	29	54.32	0.3
MSU	6.27	161 (P)	29	53.52	-1.1
		eSg	31	35.59	
SES	6.44	22 P	29	58.00	1.2
	0.7s	14.00nm			5.0mb X
TNP	6.65	197 (P)	30	02.59	2.7X
ARUT	6.76	171 (Pn)	30	01.31	-0.1
		eSg	31	53.10	
MCW	6.96	310 (P)	30	04.93	0.9
ORV	7.01	228 (P)	30	07.46	2.7X
BONR	7.03	203 (P)	30	06.57	1.2
RSSD	7.72	89 eP	30	15.76	0.8
YKA	18.05	0 eP	32	28.20	-3.6X
	0.7s	0.70nm			2.9mb

S.D. = 0.7 on 48 of 52 obs.

* FEB 18, 1993 13h 35m 31.92 ± 0.58s
 49.956 N ± 18.3km 29.097 W ± 6.2km
 DEPTH = 10.0km (geophysicist)
 4.5mb (16 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)

EKA	16.58	61 P	39	26.00	0.2
	1.2s	26.10nm			4.2mb
GRR	18.49	84 eP	39	49.90	0.3
	0.9s	9.15nm			4.0mb
MFF	19.50	89 eP	40	01.60	-0.3
PAB	20.34	111 eP	40	12.00	1.1
RJF	21.07	91 eP	40	17.90	-0.4
LPO	21.11	93 eP	40	18.40	-0.4
	1.6s	77.75nm			4.8mb
TCF	21.14	88 eP	40	18.50	-0.6
	1.6s	69.65nm			4.8mb
MAF	21.39	88 eP	40	21.20	-0.4
	1.3s	23.10nm			4.4mb
BGF	21.45	87 eP	40	21.70	-0.5
	1.3s	50.90nm			4.8mb
DOU	21.55	77 Pd	40	22.90	-0.2
AVF	21.69	86 eP	40	24.10	-0.5
	1.0s	17.20nm			4.4mb
SSF	21.70	85 eP	40	24.30	-0.4
LOR	21.86	84 eP	40	25.80	-0.5
	0.8s	9.25nm			4.3mb
Z	19s	0.38um			3.8Msz
LBF	22.03	85 eP	40	27.60	-0.4
	1.4s	31.35nm			4.6mb
SMF	22.06	86 eP	40	28.00	-0.3
	1.5s	77.30nm			4.9mb
WLF	22.63	77 eP	40	36.00	2.2
HAU	23.22	81 eP	40	39.70	0.0
	0.8s	13.95nm			4.6mb
Z	22s	0.22um			3.6Msz
BSF	23.55	81 eP	40	42.60	-0.5
	1.4s	47.50nm			4.9mb
CDF	23.68	80 eP	40	43.70	-0.6
MOX	25.79	73 eP	41	06.40	2.0
	1.7s	17.00nm			4.5mb
CLL	26.48	71 ePc	41	16.00	5.3X
BRG	27.16	71 e(P)	41	23.00	6.0X
KHC	27.43	75 eP	41	19.50	0.0
		e	41	30.00	
GEC2	27.60	76 P	41	21.50	0.4
	1.1s	2.19nm			3.8mb
		e	41	24.90	
		e	41	33.80	
FVM	44.54	279 eP	43	46.78	1.4
BW06	53.46	295 eP	44	52.50	-1.9
ALQ	56.54	286 eP	45	17.00	0.1
	1.0s	2.50nm			4.2mb
BCAO	60.49	122 iPc	45	44.50	0.2

0.5s 5.00nm 4.9mb
S.D. = 0.9 on 26 of 28 obs.

FEB 18, 1993 14h 28m 50.81 ± 0.93s
44.401 N ± 6.6km 114.654 W ± 9.7km
DEPTH = 5.0km (geophysicist)
WESTERN IDAHO (33)
ML 2.9 (GS), 3.1 (BUT).

STID	0.32	208	iP	28	57.50	0.1
MCMT	1.36	71	iPnd	29	17.00	0.4
HHA1	1.98	123	eP	29	26.44	0.9
			S	29	54.81	
HBMT	2.01	45	ePn	29	26.10	0.1
BGMT	2.04	65	ePn	29	26.70	0.3
LRM	2.11	47	ePn	29	27.10	-0.4
BUT	2.19	42	ePg	29	32.20	3.7X
			eSg	30	00.90	
PTI	2.26	132	(P)	29	28.88	-0.6
			S	30	01.64	
MEMT	2.88	64	ePn	29	38.50	0.1
HVU	2.96	152	eP	29	42.76	3.3X
			eS	30	22.15	
HRY	3.04	40	ePn	29	40.40	-0.2
BW06	4.04	112	(P)	29	54.24	-0.7
NEW	4.22	337	(P)	30	10.12	12.8X
			S	30	59.17	
DPW	4.26	326	(P)	30	10.07	12.3X
			S	30	58.34	
DUG	4.42	161	(P)	30	14.72	14.5X
			S	31	09.23	

S.D. = 0.6 on 10 of 15 obs.

FEB 18, 1993 15h 39m 50.98 ± 0.63s
34.030 S ± 6.2km 70.175 W ± 3.7km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.2 (SAN).

CACH	0.36	256	iP	39	58.79	0.3
			iS	40	04.97	
CHCH	0.41	284	iP	39	59.90	0.5
PCH	0.50	325	iP	40	01.14	0.1
			iS	40	09.36	
SAN	0.70	325	iP	40	04.74	-0.2
			iS	40	16.90	
FCH	0.71	352	(P)	40	04.28	-0.9
			(S)	40	14.77	
TACH	0.74	300	iP	40	05.54	0.1
			iS	40	17.17	
PEL	0.98	334	iP	40	09.35	-0.3
			iS	40	23.79	
LVN	1.03	274	iP	40	10.35	-0.1
			iS	40	25.57	
ROCH	1.27	326	iP	40	14.16	-0.5
			iS	40	32.73	
LCCH	1.29	295	iP	40	14.75	-0.1
			iS	40	33.15	
JACH	1.39	345	iP	40	16.15	-0.3
			iS	40	35.76	
MDZ	1.59	44	iP	40	19.40	0.1
			iS	40	41.40	
RFA	1.59	118	iPd	40	18.70	-0.7
			S	40	37.80	
RTCV	2.56	33	ePd	40	35.80	2.5
RTCB	2.79	25	ePd	40	41.50	4.9X
RTLL	3.05	29	ePd	40	45.00	4.8X
			S	41	27.00	
MRA	4.08	68	ePd	40	54.90	0.2
			S	41	55.00	
TCA	5.42	62	iP	41	13.00	-0.9
			(S)	42	36.00	
CNCB	17.26	7	P	43	57.60	3.3X
LPB	17.52	7	eP	43	52.00	-5.4X

S.D. = 0.8 on 16 of 20 obs.

FEB 18, 1993 16h 19m 51.52 ± 0.23s
44.514 N ± 2.2km 114.823 W ± 2.1km
DEPTH = 5.0km (geophysicist)
WESTERN IDAHO (33)
ML 4.0 (GS), 4.1 (BUT). Felt
(IV) at Clayton, (III) at
Challis and (II) at Yellow Pine.
Also felt at Stanley.

STID	0.40	184	iP	19	59.40	-0.2
PCID	0.60	177	iP	20	03.00	-0.6

BCYI	1.04	101	iPc	20	11.23	-0.5
			eS	20	23.53	
CNCI	1.15	120	iPc	20	12.44	-1.1
TCSI	1.32	132	iPc	20	15.17	-1.3
ICI	1.36	97	iPc	20	17.31	-0.1
			eS	20	34.85	
HWSI	1.37	115	iPd	20	16.90	-0.5
COMI	1.38	139	iPd	20	16.42	-1.1
MCMT	1.44	77	iPnc	20	19.10	0.5
HPI	1.48	122	iPc	20	18.80	-0.3
			eS	20	37.04	
SMBI	1.51	131	iPc	20	19.36	-0.1
LLRI	1.57	120	iPc	20	20.37	0.1
			eS	20	41.30	
LJI	1.58	115	iPc	20	20.43	0.0
NPRI	1.71	122	iPc	20	21.88	-0.3
GTRI	1.71	137	iPc	20	21.84	-0.4
CRBI	1.72	113	iPc	20	22.21	-0.2
PZCI	1.80	95	iPc	20	24.01	0.3
			eS	20	49.33	
LTMT	1.94	89	ePn	20	27.04	1.3
HBMT	2.02	50	iPnc	20	27.40	0.5
GBI	2.05	104	iPc	20	27.34	0.1
			eS	20	54.39	
BGMT	2.10	69	ePnc	20	28.20	0.1
LRM	2.13	51	iPnc	20	28.70	0.3
HHA1	2.15	124	eP	20	28.37	-0.2
			eS	20	55.81	
BUT	2.19	46	ePg	20	33.70	4.4X
			iSg	21	02.30	
IRCI	2.25	115	ePd	20	30.16	0.1
			eS	21	00.27	
TPMT	2.26	83	ePn	20	30.40	-0.1
PTI	2.42	132	ePd	20	32.25	-0.3
			eS	21	02.65	
TMI	2.42	119	iPc	20	33.15	0.5
			eS	21	04.94	
LCCM	2.47	57	iPnc	20	33.10	-0.1
IMW	2.86	101	iPd	20	39.31	0.4
MEMT	2.94	67	ePn	20	39.70	-0.3
SXM	3.03	56	ePn	20	41.20	0.0
HRY	3.04	43	ePnc	20	40.80	-0.5
HVU	3.12	151	eP	20	42.01	-0.4
			eS	21	24.00	
NEW	4.07	338	ePn	20	56.21	0.4
			ePg	21	08.00	
DPW	4.10	326	eP	20	57.05	0.9
			eS	21	59.50	
BW06	4.20	113	eP	20	59.03	1.2
			eS	21	58.33	
VGB	4.34	285	ePn	20	59.83	0.1
			eS	22	05.63	
DUG	4.57	160	ePn	21	02.21	-0.8
DAU	4.87	146	ePn	21	08.78	1.2
LON	5.39	297	ePn	21	14.32	-0.2
KVN	5.98	205	ePn	21	23.76	0.7
LBFM	6.08	241	(Pn)	21	24.28	-0.1
			ePg	21	39.96	
BMW	6.23	291	eP	21	27.13	0.8
SRU	6.28	148	ePn	21	28.37	1.1
MSU	6.32	161	(Pn)	21	29.08	1.2
			eS	23	07.07	
GMW	6.32	301	ePn	21	26.84	-0.8
SES	6.42	22	P	21	27.00	-2.1
	0.7s	16.00nm				5.1mb X
TNP	6.67	196	ePn	21	31.83	-1.0
			eS	23	18.15	
ARUT	6.80	171	(Pn)	21	35.32	0.7
ORV	7.02	227	(Pn)	21	36.60	-0.8
			ePg	22	00.06	
BONR	7.06	203	ePn	21	38.64	0.4
PV09	7.37	143	ePn	21	43.31	0.6
			eSg	23	40.55	
MEMM	7.51	206	(P)	21	48.36	4.0X
PV10	7.51	143	ePn	21	45.29	0.7
PV08	7.52	140	ePn	21	45.01	0.1
			eS	23	45.58	
			Sg	23	50.86	
TPNV	7.63	189	(Pn)	21	48.46	2.2X
			eS	23	45.28	
YKA	18.01	0	eP	24	01.40	-2.6X
	0.6s	0.90nm				3.1mb
YKA	18.01	0	eP	24	14.80	10.8X
	0.6s	1.00nm				

S.D. = 0.7 on 54 of 59 obs.

FEB 18, 1993 16h 38m 03.25 ± 0.51s
48.337 N ± 10.0km 154.803 E ± 7.7km
DEPTH = 37.4km (3 depth phases)
4.7mb (21 obs.) 4.2Msz (1 obs.)
KURIL ISLANDS (221)

KUSJ	8.79	237	eP	40	09.10	-1.7
			eS	41	42.20	
ASAJ	9.42	248	eP	40	23.30	3.8X
MDJ	17.73	267	eP	42	10.70	2.0
YAK	19.64	323	eP	42	29.20	-2.1
	0.8s	52.00nm				4.9mb
		e		42	55.00	157kmX
		e		46	07.00	
		e		51	16.00	
CN2	20.80	268	eP	42	41.80	-1.7
	0.8s	13.00nm				4.4mb
IMA	31.85	37	eP	44	25.41	-1.2
	0.6s	0.88nm				3.8mb
TIY	32.36	267	eP	44	31.10	-0.2
	20s	0.50um				4.2Msz
FBA	34.21	40	eP	44	46.02	-0.9
	0.8s	5.39nm				4.5mb
		e		44	56.28	36km
LZH	38.99	271	eP	45	27.00	-0.8
	1.2s	15.00nm				4.6mb
GTA	39.87	278	eP	45	35.50	0.6
	1.4s	7.00nm				4.2mb
GTA	43.18	257	P	46	06.00	3.8X
CHTO	53.60	257	eP	47	23.40	0.5
GUN	56.00	275	P	47	40.20	-0.6
KKN	56.48	275	P	47	44.00	-0.1
DMN	56.71	275	P	47	46.00	0.2
GKN	56.77	276	P	47	45.60	-0.5
BGMT	59.93	55	eP	48	07.50	-0.5
		e		48	19.20	40km
HYB	68.10	272	eP	49	02.00	0.5
WB2	70.39	200	eP	49	11.90	-3.4X
	1.0s	5.80nm				4.6mb
		i		49	15.10	10kmX
ASPA	74.08	200	eP	49	37.90	0.8
	1.1s	6.40nm				4.5mb
KSP	74.98	334	eP	49	41.80	-0.3
LTX	75.73	62	eP	49	46.45	-0.3
		e		49	57.47	36km
PRU	76.25	335	eP	49	49.70	0.4
KHC	77.29	335	eP	49	55.00	-0.1
	1.0s	5.40nm				4.5mb
		e		50	10.50	55kmX
GRF	77.43	337	eP	49	56.40	0.6
KBA	79.22	334	iPc	50	06.60	0.7
	0.9s	20.40nm				5.1mb
CDP	79.61	339	eP	50	07.20	-0.7
HAU	80.21	339	eP	50	10.40	-0.6
LDF	81.04	343	eP	50	14.60	-0.7
	0.9s	6.20nm				4.6mb
VAY	81.25	326	eP	50	17.00	0.5
GRR	81.37	344	eP	50	16.70	-0.4
	1.1s	16.35nm				4.9mb
LOR	81.48	340	eP	50	18.00	0.3
	0.8s	7.10nm				4.7mb
LBF	81.72	340	eP	50	19.20	0.2
LPF	81.75	344	eP	50	19.00	0.0
SSF	81.75	341	eP	50	19.40	0.3
	1.0s	12.20nm				4.9mb
AVF	82.04	341	eP	50	20.30	-0.3
	0.8s	5.65nm				4.7mb
SMF	82.07	340	eP	50	20.60	-0.2
LPL	82.44	33				

18d 16h

? FEB 18, 1993 16h 45m 32.33±1.07s
 35.445 N ±18.9km 141.084 E ±18.0km
 DEPTH = 33.0km (normol)
 4.6mb (4 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

MAT 2.58 296 iPd 46 14.10 1.5
 (S) 46 44.00
 FBA 50.59 31 eP 54 31.00 1.5
 ASPA 59.18 188 eP 55 33.10 0.7
 1.1s 2.70nm 4.3mb
 GBA 60.83 266 P 55 43.00 -0.9
 KAF 69.60 333 eP 56 38.80 -1.0
 0.6s 5.20nm 4.8mb
 NUR 71.22 332 eP 56 48.70 -1.0
 0.4s 4.00nm 4.8mb
 NB2 75.55 337 P 57 14.30 -0.7
 0.7s 2.60nm 4.3mb
 ZOBO 147.71 61 ePKP 05 17.00 3.5X
 SIV 152.30 51 PKP 05 32.00 12.3X
 S.D. = 1.4 on 7 of 9 obs.

FEB 18, 1993 17h 06m 16.95±0.86s
 52.208 N ± 6.0km 152.551 E ± 3.0km
 DEPTH = 427.8 ± 11.2 km
 4.5mb (53 obs.)
 NORTHWEST OF KURIL ISLANDS (220)

ASAJ 10.45 223 eP 08 41.50 0.6
 KUSJ 10.53 213 eP 08 36.60 -5.2X
 eS 10 28.40
 HOOJ 11.66 216 eP 08 50.60 -3.7X
 eS 10 54.30
 MRRJ 12.49 223 eP 09 01.80 -1.6
 eS 11 12.50
 AOMJ 14.34 220 eP 09 22.60 -0.5
 eS 11 46.80
 OFUJ 15.15 214 eP 09 31.20 -0.4
 eS 12 08.40
 YAK 15.73 318 iPd 09 38.00 0.6
 0.7s 108.00nm 5.4mb
 e 12 19.00
 YAMJ 16.54 217 eP 09 47.50 1.7
 eS 12 40.80
 MAT 18.66 219 eP 10 07.00 0.2
 0.9s 18.49nm 4.6mb
 CN2 19.90 256 eP 10 18.80 0.1
 0.8s 14.00nm 4.5mb
 TTA 28.79 48 iPc 11 39.25 -0.1
 0.8s 15.99nm 4.5mb
 SVW 29.10 52 eP 11 42.51 0.4
 1.8s 33.89nm 4.4mb
 IRK 29.11 290 eP 11 43.00 0.8
 1.0s 29.00nm 4.6mb
 BRW 29.33 31 ePc 11 44.90 1.0
 TIA 29.64 251 eP 11 46.90 0.0
 IMA 29.77 42 iPc 11 47.75 -0.2
 0.7s 21.40nm 4.6mb
 RSO 30.58 53 eP 11 54.00 -1.2
 CRP 30.75 51 ePc 11 56.96 0.4
 KDC 31.26 58 eP 12 00.30 -0.4
 TIY 31.42 259 Pc 12 02.90 0.5
 NJ2 31.68 244 Pc 12 04.50 0.0
 1.0s 20.00nm 4.5mb
 SLKM 31.81 52 eP 12 03.96 -1.5
 PMS 31.99 51 ePc 12 06.60 -0.4
 0.3s 46.30nm 5.3mb
 PMR 32.13 50 eP 12 07.83 -0.3
 0.3s 10.59nm 4.7mb
 FBA 32.27 44 iPc 12 09.59 0.3
 0.7s 44.02nm 5.0mb
 KLU 33.66 50 iPc 12 21.30 0.2
 WHN 35.34 247 Pc 12 35.00 -0.3
 1.0s 18.00nm 4.4mb
 BALM 35.45 50 iPd 12 36.75 0.6
 XAN 36.00 257 P 12 40.50 -0.4
 1.2s 10.00nm 4.1mb
 LZH 37.70 264 Pd 12 56.00 0.9
 1.5s 54.00nm 4.7mb
 pP 14 14.50 412kmX
 GTA 38.09 272 P 12 59.00 0.8
 1.0s 19.00nm 4.4mb
 SIT 40.24 54 eP 13 16.31 1.0
 CD2 41.29 258 eP 13 24.80 0.5
 1.0s 20.00nm 4.5mb
 GYA 42.84 251 P 13 36.60 -0.1
 1.0s 35.00nm 4.7mb

WMO 42.85 286 iPd 13 38.00 1.4
 0.7s 37.00nm 4.9mb
 PP 15 29.00
 KMI 46.15 254 Pd 14 02.50 -0.3
 1.5s 70.00nm 4.8mb
 YKA 46.85 39 eP 14 07.10 -0.4
 0.6s 13.70nm 4.5mb
 GMW 51.79 59 iP 14 44.88 0.1
 JCW 51.83 58 Pc 14 44.96 -0.1
 BMW 52.23 60 P 14 47.98 -0.1
 FMW 52.77 59 P 14 52.00 -0.1
 SHW 52.94 60 iP 14 53.96 0.6
 WTV 53.17 57 P 14 54.24 -0.7
 CHTO 53.24 252 eP 14 55.20 -0.4
 1.0s 37.50nm 4.7mb
 SAW 53.46 57 Pc 14 56.29 -0.6
 SSOR 53.68 62 P 14 58.72 0.1
 DPW 53.97 56 P 15 00.07 -0.5
 WAH2 53.99 58 P 15 00.35 -0.3
 VBEM 54.02 61 P 15 01.13 0.0
 NEW 54.26 55 iPd 15 02.13 -0.6
 0.8s 16.67nm 4.4mb
 GUN 54.36 271 P 15 03.20 -0.8
 DBO 54.39 64 P 15 04.37 0.7
 CROR 54.39 61 P 15 03.74 0.0
 JBO 54.69 60 P 15 05.50 -0.2
 KKN 54.82 271 P 15 06.50 -0.6
 VIPM 54.90 61 P 15 07.39 0.0
 DMN 55.05 271 P 15 08.60 -0.2
 GKN 55.06 272 P 15 08.40 -0.3
 LNOR 55.24 58 P 15 09.29 -0.3
 SES 55.83 50 iPc 15 12.80 -0.9
 0.8s 34.00nm 4.7mb
 LGPM 56.09 65 iPc 15 16.27 0.6
 LBFM 56.32 64 iPc 15 17.71 0.3
 FCC 56.94 35 ePc 15 22.70 1.5
 ORV 57.75 66 iPc 15 26.44 -0.6
 KAF 58.36 334 eP 15 29.60 -1.3
 0.5s 1.90nm 3.8mb
 LCCM 58.54 55 iPc 15 32.30 -0.3
 NUR 60.14 333 eP 15 40.80 -2.1
 0.6s 5.30nm 4.2mb
 BW06 61.89 56 iPc 15 53.84 -1.1
 0.6s 10.58nm 4.5mb
 DUG 62.05 60 iPc 15 56.11 0.1
 0.8s 8.17nm 4.3mb
 TPNV 62.52 65 iPd 15 59.14 0.1
 0.4s 2.66nm 4.1mb
 ULM 62.67 42 ePc 16 00.80 1.2
 DAU 62.72 59 iPc 16 00.66 0.1
 NB2 62.95 340 P 15 59.90 -1.5
 0.8s 2.80nm 3.9mb
 SLL 63.01 339 eP 16 00.10 -1.5
 0.3s 1.30nm 4.0mb
 EMUT 63.39 59 eP 16 04.71 0.0
 ARUT 63.46 62 eP 16 04.79 -0.3
 MSU 63.61 61 iPc 16 06.60 0.5
 SRU 64.06 59 eP 16 08.68 -0.2
 PV10 65.38 59 eP 16 17.39 0.0
 PV08 65.44 58 iP 16 17.66 -0.2
 HYB 66.64 268 iPd 16 24.20 -1.0
 0.6s 26.70nm 5.1mb
 ALO 69.33 60 eP 16 44.50 2.9
 1.0s 3.75nm 4.0mb
 GBA 70.25 267 P 16 47.00 0.0
 PRU 72.13 333 eP 16 57.80 0.3
 KHC 73.18 333 eP 17 03.60 -0.1
 e 17 10.50
 GEC2 73.40 333 P 17 04.50 -0.5
 0.6s 1.21nm 3.7mb
 e 17 09.90
 WMOK 73.45 54 ePc 17 04.89 -0.5
 0.8s 12.58nm 4.6mb
 KBA 75.11 332 iPd 17 15.30 0.5
 0.7s 13.30nm 4.7mb
 ic 17 15.50
 WTTA 75.41 334 iPc 17 17.10 0.6
 1.0s 15.50nm 4.6mb
 CDF 75.47 337 eP 17 16.30 -0.4
 0.9s 7.85nm 4.4mb
 ELC 75.92 46 eP 17 18.46 -0.7
 VBY 75.97 331 eP 17 19.20 -0.1
 FLN 76.82 342 eP 17 23.50 -0.4
 0.5s 2.60nm 4.2mb
 LDF 76.91 342 eP 17 23.90 -0.5
 0.5s 2.75nm 4.2mb
 LMN 77.18 26 eP 17 28.50 2.6

GRR 77.25 342 eP 17 26.20 0.0
 0.7s 8.80nm 4.5mb
 LOR 77.34 339 eP 17 26.50 -0.3
 0.7s 5.75nm 4.4mb
 LBF 77.58 339 eP 17 27.70 -0.5
 0.6s 2.70nm 4.1mb
 SSF 77.62 339 eP 17 28.10 -0.2
 LPF 77.62 342 eP 17 28.30 0.0
 0.4s 4.00nm 4.4mb
 AVF 77.91 339 eP 17 29.70 -0.1
 0.9s 7.85nm 4.4mb
 SMF 77.94 339 eP 17 30.00 0.0
 0.9s 8.20nm 4.4mb
 LPL 78.31 336 eP 17 33.00 0.6
 0.7s 8.95nm 4.6mb
 LPG 78.33 336 eP 17 33.20 0.7
 0.6s 6.50nm 4.5mb
 MAF 78.62 339 eP 17 34.20 0.5
 0.5s 3.00nm 4.2mb
 TCF 78.63 340 eP 17 33.80 0.0
 1.2s 12.50nm 4.5mb
 MFF 78.82 341 eP 17 35.00 0.3
 0.4s 1.45nm 4.0mb
 ZNT 79.78 310 eP 17 40.30 0.3
 CAF 79.96 339 eP 17 41.50 0.7
 0.5s 1.95nm 4.0mb
 LFF 80.23 340 eP 17 42.80 0.7
 0.4s 4.10nm 4.5mb
 LPO 80.38 340 eP 17 43.50 0.6
 0.6s 3.95nm 4.3mb
 RMN 81.41 310 eP 17 48.50 -0.2
 MBH 81.90 309 eP 17 51.10 0.0
 S.D. = 0.8 on 111 of 113 obs.

? FEB 18, 1993 17h 09m 37.86±0.82s
 7.311 S ± 9.6km 133.382 E ±15.2km
 DEPTH = 33.0km (normol)
 4.5mb (6 obs.)
 ARU ISLANDS REGION, INDONESIA (204)

TLE 1.78 339 ePd 10 06.90 0.2
 eS 10 13.50
 MTN 5.93 202 eP 11 07.00 1.3
 eS 12 15.00
 WB2 12.59 176 iPc 12 31.20 -6.4X
 eS 14 43.30
 ASPA 16.27 178 iPd 13 20.00 -5.7X
 i 13 29.20
 eS 16 08.50
 CTA 17.81 137 iPc 13 45.50 0.6
 1.0s 10.00nm 3.9mb
 WARB 19.84 198 eP 14 07.00 -2.0
 0.4s 10.00nm 4.5mb
 FORT 23.87 191 eP 14 50.40 1.1
 0.6s 63.00nm 5.3mb
 RMO 24.04 144 iPd 14 51.10 0.1
 0.7s 26.00nm 4.9mb
 STK 25.62 164 iPd 15 05.20 -0.8
 0.5s 3.70nm 4.2mb
 CMS 26.71 156 eP 15 16.30 0.1
 ADE 27.96 171 e(P) 15 27.20 -0.3
 BFD 30.88 166 eP 15 53.20 -0.3
 0.9s 9.00nm 4.6mb
 CNCB 148.05 139 PKP 29 25.80 5.7X
 LPB 148.17 138 ePKP 29 24.00 3.9X
 ZOBO 148.33 138 PKP 29 24.50 3.9X
 SIV 152.78 148 (PKP) 29 31.00 4.5X
 S.D. = 1.1 on 10 of 16 obs.

FEB 18, 1993 17h 14m 35.91±0.65s
 61.122 N ± 7.8km 150.242 W ± 5.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ALASKA (2)
 ML 2.8 (PMR), 2.4 (AEIC). Felt
 (11) at Anchorage.

PMS 0.35 69 iPd 14 44.40 1.2
 iS 14 49.20
 PWA 0.56 18 iPc 14 47.80 0.6
 eS 14 55.00
 SLKM 0.62 179 iPc 14 48.34 0.0
 PMR 0.71 48 eP 14 48.13 -1.8
 CRP 0.94 280 ePd 14 53.75 -0.2
 eS 15 06.65
 CP2 0.98 279 ePd 14 54.97 0.3
 eS 15 08.64
 RSO 1.40 243 eP 15 01.55 -0.1

eS 15 19.65
 KLU 2.12 78 iPd 15 11.83 -0.1
 SVW 2.61 272 eP 15 21.70 2.8X
 TTA 3.27 306 eP 15 33.60 5.3X
 BALM 3.84 88 eP 15 35.27 -1.1X
 FBA 3.95 15 eP 15 44.80 6.9X
 IMA 5.20 344 eP 16 00.00 4.4X

S.D. = 1.0 on 8 of 13 obs.

FEB 18, 1993 17h 23m 36.22 ± 0.34s
 53.462 N ± 6.1km 164.495 W ± 4.3km
 DEPTH = 33.0km (normal)
 4.4mb (9 obs.)

UNIMAK ISLAND REGION (10)
 ML 4.4 (PMR).

SDN 3.00 50 eP 24 22.67 0.2
 ADK 7.58 263 eP 25 25.97 -1.1
 KDC 8.04 53 e(P) 25 33.50 0.0
 SVW 9.04 28 (P) 25 45.51 -1.9X
 CP2 10.23 35 eP 26 03.92 0.0
 CRP 10.26 35 eP 26 03.57 -0.7
 TTA 10.48 22 (P) 26 06.31 -1.0
 SLKM 10.49 42 eP 26 04.72 -2.6X
 KLU 12.79 44 eP 26 34.39 -3.9X
 IMA 13.74 19 e(P) 26 51.10 0.3
 BALM 14.13 49 ePd 26 52.81 -3.2X
 FBA 14.24 30 eP 26 57.10 -0.2

0.9s 3.78nm 4.0mb
 YKA 27.28 51 eP 29 19.70 0.6
 0.9s 3.40nm 4.0mb
 MEMM 34.92 98 (P) 30 26.27 -0.3
 FCC 37.95 53 eP 30 55.00 3.1X
 0.9s 3.40nm 4.0mb
 ARUT 38.11 93 eP 30 53.45 -0.3
 EMUT 38.37 89 eP 30 54.77 -1.3
 MSU 38.39 91 eP 30 56.65 0.5
 SRU 39.00 89 eP 31 01.77 0.6
 PLM 39.12 101 eP 31 02.73 0.5

0.9s 3.40nm 4.0mb
 PV09 40.22 89 eP 31 11.14 -0.3
 PV10 40.36 89 eP 31 12.50 0.0
 UAT 41.02 66 eP 31 20.50 3.1X
 MAT 42.66 270 (P) 31 32.00 0.9
 TUC 43.45 97 ePc 31 38.06 0.5

1.0s 8.41nm 4.5mb
 CN2 45.53 287 eP 31 54.00 -0.1
 0.8s 4.80nm 4.5mb
 MIAR 52.14 81 eP 32 43.98 -1.3
 1.1s 9.93nm 4.7mb

0.8s 4.80nm 4.5mb
 XAN 61.56 289 eP 33 55.50 3.1X
 WMO 65.12 311 P 34 15.00 -0.7
 0.8s 4.80nm 4.5mb
 GYA 68.53 286 P 34 37.60 0.1
 SSF 79.33 8 eP 35 40.70 1.0

0.7s 3.95nm 4.5mb
 LBF 79.45 8 eP 35 41.00 0.6
 0.9s 4.40nm 4.5mb
 AVF 79.59 8 eP 35 41.90 0.9
 0.8s 2.70nm 4.3mb
 SMF 79.78 8 eP 35 42.90 0.8
 0.8s 4.55nm 4.5mb
 HYB 91.16 302 eP 36 39.00 -0.1
 WIN 149.13 357 e(PKP) 43 27.00 8.6X

S.D. = 0.7 on 28 of 36 obs.

FEB 18, 1993 18h 27m 39.43 ± 0.77s
 46.979 N ± 8.0km 112.852 W ± 7.3km
 DEPTH = 5.0km (geophysicist)

MONTANA (456)
 ML 3.0 (GS), 3.4 (BUT).

HRY 0.75 111 ePd 27 54.80 0.2
 BUT 0.99 168 ePc 27 59.40 0.7
 0.9s 3.40nm 4.0mb
 LRM 1.19 166 iPd 28 02.70 0.4
 HBMT 1.20 172 eP 28 02.60 0.2
 LCCM 1.33 149 ePd 28 04.60 0.1
 BGMT 1.84 162 ePnd 28 11.50 -0.6
 MEMT 1.90 136 ePn 28 12.50 -0.4
 MCMT 2.15 180 ePn 28 16.00 -0.7
 NEW 3.16 296 eP 28 31.05 0.2
 0.9s 3.40nm 4.0mb
 DPW 3.74 286 eP 28 39.04 -0.1
 0.9s 3.40nm 4.0mb
 S.D. = 0.5 on 10 of 10 obs.

FEB 18, 1993 18h 28m 17.23 ± 0.68s
 38.247 N ± 6.0km 22.869 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.0 (ATH), ML 2.7 (THE).

ATH 0.72 112 ePb 28 32.20 0.8
 AGG 0.88 332 ePg 28 33.04 -1.1
 0.9s 3.40nm 4.0mb
 VLI 1.53 178 ePb 28 44.40 -0.6
 PAIG 1.79 20 ePb 28 48.32 -0.1
 VLS 1.80 268 ePn 28 48.20 -0.3
 LIT 1.87 351 ePb 28 48.72 -0.9
 0.9s 3.40nm 4.0mb
 OUR 2.26 22 ePb 28 54.48 -0.6
 IGT 2.36 304 ePn 29 00.64 4.0X
 0.9s 3.40nm 4.0mb
 SOH 2.60 8 ePn 28 59.60 -0.4
 0.9s 3.40nm 4.0mb
 GRG 2.73 353 ePn 29 03.20 1.3
 FNA 2.78 336 ePn 29 03.72 1.0
 KNT 2.91 0 ePn 29 04.28 -0.2
 SRS 2.92 11 ePn 29 03.88 -0.7
 0.9s 3.40nm 4.0mb
 OHR 3.28 331 ePn 29 11.50 1.8

S.D. = 1.0 on 13 of 14 obs.

% FEB 18, 1993 18h 48m 18.70 ± 1.12s
 38.339 N ± 11.2km 13.082 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

ERC 0.49 232 P 48 27.70 -1.0
 0.9s 3.40nm 4.0mb
 CVT 0.70 199 P 48 33.80 1.3
 0.9s 3.40nm 4.0mb
 GIB 0.82 115 P 48 35.10 0.4
 0.9s 3.40nm 4.0mb
 MCT 0.83 148 P 48 39.10 4.2X
 MNO 1.34 107 P 48 43.00 -0.5
 ATN 1.88 95 P 48 50.60 -0.6
 MEU 1.92 130 P 48 51.90 0.1
 SOI 2.36 96 P 48 57.40 -0.6
 MGR 2.63 46 P 49 02.80 0.9

S.D. = 1.0 on 8 of 9 obs.

? FEB 18, 1993 18h 58m 26.59 ± 5.11s
 38.092 S ± 34.4km 175.528 E ± 29.5km
 DEPTH = 276.1 ± 46.7 km
 NORTH ISLAND, NEW ZEALAND (159)

WHH 1.10 136 eP 59 04.70 -0.6
 PAHZ 1.42 123 eP 59 07.30 0.1
 WAHZ 1.73 158 P 59 09.40 0.0
 0.9s 3.40nm 4.0mb
 TTH 1.77 145 eP 59 10.40 0.8
 MNG 2.52 181 P 59 16.30 0.0
 0.9s 3.40nm 4.0mb
 KIW 2.81 190 eP 59 19.10 0.0
 DIW 2.98 204 eP 59 21.20 0.3
 CAW 3.03 187 eP 59 21.20 -0.2
 MTW 3.06 180 eP 59 21.40 -0.3
 MRW 3.20 191 eP 59 22.90 -0.3
 0.9s 3.40nm 4.0mb
 TCW 3.26 197 eP 59 24.00 0.2
 THZ 4.18 208 eP 59 34.60 0.4
 KHZ 4.58 199 eP 59 39.00 0.3
 LTZ 5.30 207 P 59 46.90 -0.5

S.D. = 0.4 on 14 of 14 obs.

FEB 18, 1993 19h 35m 36.81 ± 0.21s
 52.998 S ± 6.4km 72.687 E ± 5.3km
 DEPTH = 10.0km (geophysicist)
 5.5mb (40 obs.) 4.9Msz (5 obs.)
 KERGUELEN ISLANDS REGION (433)

Mw 5.4 (HRV).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 28S, 44C
 Centroid Location:
 Origin Time 19:35:43.9 0.5
 Lat 52.925 0.07 Lon 72.77E 0.17
 Dep 15.0 FIX Half-duration 1.2
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.31 0.05 Mtt=-0.38 0.05
 Mff= 0.07 0.06 Mrt=-1.25 0.13

Mrf= 0.97 0.11 Mtf= 0.04 0.05
 Principal Axes:
 T Val= 1.65 Plg=50 Azm=225
 N -0.05 7 126
 P -1.59 39 30
 Best Double Couple: Mo=1.6*10**17
 NP1: Strike= 73 Dip= 9 Slip= 36
 NP2: 307 85 97

PAF 3.97 336 eP 36 40.00 1.0
 MAW 15.40 194 iP 39 08.00 -7.5X
 0.6s 279.07nm 5.8mb
 CSY 22.83 140 eP 40 39.30 -1.3
 0.9s 50.20nm 5.0mb
 0.9s 3.40nm 4.0mb
 SNA 36.63 213 iPd 42 43.80 -0.7
 1.3s 365.38nm 6.0mb
 SPA 37.18 180 iPc 42 48.20 -1.3
 0.9s 327.27nm 6.1mb
 0.9s 3.40nm 4.0mb
 VTY 39.08 320 eP 43 06.40 0.6
 AVY 39.15 321 eP 43 07.50 1.1
 TAN 39.22 321 eP 43 07.50 0.5
 SBA 39.69 161 iPd 43 09.00 -1.1
 SEK 41.20 289 iPc 43 22.50 -0.7
 1.0s 27.00nm 4.9mb
 BLF 41.44 286 eP 43 23.50 -1.7
 0.5s 10.81nm 4.8mb

FRS 41.47 285 eP 43 22.60 -2.6
 1.5s 55.56nm 5.1mb
 BFT 41.88 294 eP 43 29.00 0.2
 CER 42.47 276 iPc 43 31.00 -2.4
 1.2s 120.00nm 5.5mb

MEEK 42.98 71 eP 43 36.00 -1.7
 KSR 43.50 290 iPc 43 41.00 -1.1
 CIR 44.81 299 iPd 43 50.90 -1.6
 BUL 47.10 297 iPd 44 08.90 -1.9
 0.9s 8.40nm 4.8mb

WARB 48.00 78 eP 44 15.00 -2.7
 MTD 48.33 303 iPd 44 19.00 -1.4
 TAU 48.84 110 eP 44 25.00 1.0
 ADE 48.99 96 e(P) 44 24.50 -0.8
 BFD 49.79 101 eP 44 30.70 -0.7
 0.8s 22.00nm 5.2mb
 TOO 51.27 103 eP 44 42.00 -0.6
 1.3s 76.00nm 5.5mb

WIN 51.70 284 iPc 44 43.50 -2.8
 1.4s 116.28nm 5.6mb
 STK 52.86 95 eP 44 53.10 -1.6
 1.2s 14.60nm 4.8mb

ASPA 54.21 82 P 45 02.79 -1.9
 CAN 54.87 104 eP 45 09.60 0.1
 CNB 55.08 104 eP 45 13.40 2.3X
 1.1s 37.00nm 5.3mb

BWA 55.15 103 eP 45 12.00 0.5
 0.9s 3.40nm 4.0mb
 CMS 55.68 98 eP 45 15.20 -0.1
 1.0s 7.00nm 4.6mb

WRA 57.31 80 P 45 26.50 -0.6
 0.6s 5.80nm 4.8mb
 WB2 57.32 80 eP 45 23.20 -3.9X
 0.9s 18.40nm 5.1mb

AIA 57.54 200 eP 45 27.50 -0.7
 TUZ 58.68 126 eP 45 36.30 -0.1
 1.1s 97.00nm 5.8mb
 NAI 59.52 317 ePd 45 44.50 1.7
 1.0s 1102.00nm 6.9mb X
 Z 20s 0.43um 4.6Msz

ARMA 59.90 102 eP 45 44.10 -1.1
 1.0s 29.00nm 5.4mb
 KGM 60.53 36 eP 45 49.00 -0.4
 RMO 61.06 96 eP 45 52.50 -0.5
 1.1s 39.00nm 5.5mb

IPM 62.15 32 eP 45 59.90 -0.5
 LTZ 62.29 125 eP 46 01.50 0.4
 1.1s 81.00nm 5.8mb

BRS 62.80 100 iPd 46 03.00 -1.7
 1.0s 5.00nm 4.7mb
 i(S)
 DSZ 62.82 124 eP 46 03.60 -1.0
 KHZ 63.18 125 P 46 07.30 0.4
 1.1s 113.00nm 6.0mb
 CTA 64.36 90 iPc 46 15.00 0.0

					HHC 99.33 29 eP 49 20.00 0.2					DEPTH = 9.1km									
					1.6s 19.00nm 5.5mb					CENTRAL ALASKA					(1)				
					SIV 100.60 225 Pdiff 49 30.00 3.8X														
					ZOB0 103.17 219 ePdiff 49 39.00 0.6														
					LR 26 30.00					TRF 0.42 61 iP 12 57.33 -0.5									
					IRK 108.19 20 ePKP 54 26.00 20.4X					HUR 0.72 111 eP 13 02.91 -0.6									
					1.6s 12.00nm					eS 13 13.70									
					e 54 42.30					RND 1.03 80 eP 13 08.39 -0.4									
					e 00 44.00					S 13 23.19									
					e 01 29.00					MCK 1.09 63 eP 13 09.37 -0.4									
					e 03 51.00					S 13 25.61									
					YAK 123.18 28 ePKP 54 33.00 -0.8					SKT 1.29 189 eP 13 12.47 -0.7									
					1.5s 28.00nm					eS 13 29.80									
					Z 19s 0.40um 5.1msz					NEA 1.61 33 eP 13 18.56 0.8									
					e 56 11.00					S 13 39.71									
					NB2 123.74 329 PKP 54 35.20 0.2					PWA 1.70 160 P 13 20.00 0.9									
					0.9s 5.40nm					GHO 1.79 145 eP 13 20.45 -0.1									
					BRW 151.75 31 ePKP 55 25.35 0.6					eS 13 45.73									
					ePKPbc55 32.30					SUA 1.80 174 eP 13 21.23 0.6									
					LMN 151.79 273 ePKP 55 34.50 8.8X					eS 13 46.35									
					TTA 152.99 49 ePKP 55 27.06 0.1					PLRM 1.90 150 eP 13 22.17 0.2									
					ePKPbc55 35.90					PMR 1.90 150 eP 13 21.44 -0.5									
					ePKPab55 47.23					SML 1.93 137 eP 13 22.64 0.1									
					TTA 152.99 49 ePKP 55 36.30 9.4X					CCB 2.02 45 eP 13 22.37 -1.4									
					e 55 47.90					S 13 52.07									
					SVW 153.08 53 (PKP) 55 27.91 0.8					CRP 2.05 194 eP 13 23.47 -0.9									
					JSC 153.67 235 ePKP 55 28.74 0.1					eS 13 51.45									
					IMA 153.83 42 e(PKP)55 27.00 -1.1					CPAM 2.06 194 eP 13 25.11 0.7									
					i 55 37.90					CP2 2.06 195 eP 13 23.62 -0.9									
					HRV 154.03 261 ePKP 55 28.78 -0.1					BGL 2.08 197 eP 13 24.76 0.0									
					PRM 154.06 233 ePKP 55 30.72 1.5					CKN 2.09 194 eP 13 25.05 0.2									
					SLKM 155.69 55 ePKP 55 32.66 2.0					CKT 2.12 195 eP 13 25.10 -0.2									
					ePKPab55 56.63					SPU 2.12 193 eP 13 24.79 -0.5									
					NAV 155.79 240 ePKP 55 32.85 1.3					MDM 2.13 35 eP 13 26.63 1.2									
					e 55 40.65					PMS 2.14 160 P 13 26.60 1.1									
					ePKPab55 58.33					HDA 2.18 56 eP 13 27.15 1.1									
					PMS 156.02 53 e(PKP)55 51.10 20.0X					FBA 2.21 40 eP 13 26.71 0.2									
					e 56 00.00					eS 13 56.89									
					LTX 156.20 188 ePKP 55 32.77 0.4					SCM 2.25 127 eP 13 27.21 0.0									
					PMR 156.22 52 ePKP 55 31.82 0.6					TTA 2.25 264 eP 13 24.44 -2.8									
					ePKPab55 58.19					eS 13 56.68									
					KLU 157.76 52 (PKP) 55 33.75 0.4					GLM 2.39 41 eP 13 29.37 0.2									
					TUC 159.17 172 ePKP 55 37.58 1.8					PAX 2.58 94 eP 13 31.09 -0.7									
					OLY 159.23 219 ePKP 55 35.71 0.1					PTE 2.59 157 eP 13 31.87 0.1									
					e 55 47.95					SDG 2.65 103 eP 13 31.88 -0.9									
					ePKPab56 11.30					SLKM 2.78 171 eP 13 35.23 0.5									
					GLA 159.34 162 ePKP 55 37.34 1.4					NCT 2.83 199 eP 13 35.52 0.1									
					iPKPab56 14.13					MPA 2.89 163 eP 13 37.80 1.6									
					BALM 159.52 53 ePKP 55 37.20 1.9					RDW 2.89 197 eP 13 36.02 -0.4									
					ePKPab56 13.27					RSO 2.90 196 eP 13 39.00 2.4									
					WMOK 160.76 202 ePKP 55 37.83 0.5					KLU 2.99 124 eP 13 37.63 0.0									
					ePKPab56 18.42					SVW 3.02 227 eP 13 36.83 -1.2									
					FVM 160.95 225 ePKP 55 38.91 1.5					eS 14 21.31									
					ePKPcb56 19.27					IMA 3.04 340 eP 13 35.49 -2.9									
					CMB 162.50 144 ePKP 55 39.35 0.4					eS 14 19.28									
					ePKPab56 27.36					ILIM 3.30 196 eP 13 43.23 1.2									
					ACO 162.72 203 iPKPc 55 40.10 0.9					HIN 3.60 141 eP 13 46.47 0.2									
					TPNV 162.77 155 (PKP) 55 42.43 3.0X					CVA 3.71 135 eP 13 47.93 0.1									
					ePKPab56 27.81					CNPM 3.74 181 eP 13 48.24 0.0									
					BONR 163.13 149 ePKP 55 41.80 1.8					PD8 3.77 204 eP 13 47.68 -1.1									
					iPKPab56 31.55					GLB 3.85 115 eP 13 50.43 0.5									
					ORV 163.40 138 ePKP 55 41.15 1.4					AUE 4.05 197 eP 13 51.39 -1.2									
					ePKPab56 31.71					45 abs. associated									
					TNP 163.57 151 ePKP 55 42.16 1.9														
					ePKPab56 32.83					% FEB 18, 1993 20h 39m 52.15±0.73s									
					ARUT 164.20 162 ePKP 55 42.39 1.5					44.393 N ± 6.5km 7.329 E ± 8.3km									
					iPKPab56 35.61					DEPTH = 10.0km (geophysicist)									
					MSU 165.13 165 ePKP 55 43.09 1.4					NORTHERN ITALY (545)									
					ePKPab56 38.97					ML 1.7 (GEN).									
					PV10 165.33 175 ePKP 55 42.70 0.8														
					ePKPab56 38.17					STV 0.15 181 P 39 55.58 -0.1									
					PV09 165.44 174 ePKP 55 43.60 1.5					S 39 57.59									
					ePKPab56 40.48					ENR 0.18 158 P 39 56.27 0.0									
					SRU 165.93 170 ePKP 55 43.39 1.1					S 39 58.65									
					ePKPab56 40.85					PZZ 0.20 305 P 39 56.68 0.1									
					DUG 166.65 161 ePKP 55 44.24 1.4					S 39 59.84									
					ePKPab56 45.04					ROB 0.40 104 P 40 00.43 0.1									
					DAU 167.13 166 ePKP 55 45.72 2.3X					S 40 06.61									
					BW06 169.66 171 ePKP 55 45.98 -0.8					BHB 0.45 354 P 40 01.26 -0.1									
					YKA 169.72 19 ePKP 55 42.50 -1.4					S 40 08.44									
					1.2s 3.30nm					S.D. = 0.1 an 5 of 5 abs.									
					LCCM 172.24 156 ePKP 55 47.40 1.6														
					e 57 10.40					% FEB 18, 1993 22h 02m 43.75±0.69s									
					S.D. = 1.3 an 115 of 131 obs.					34.028 S ± 5.5km 70.134 W ± 4.9km									
										DEPTH = 10.0km (geophysicist)									
					& FEB 18, 1993 20h 12m 49.17s					CHILE-ARGENTINA BORDER REGION (127)									
					63.248 N 151.106 W					MD 3.8 (SAN).									

	1.0s	30.00nm		5.0mb
BUL	42.07	270 iPd	51 10.00	-0.6
		i	53 56.90	

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YKA	144.85	7	ePKP	02 52.50	-2.3
	1.1s		4.90nm		
CBM	144.86	313	ePKP	02 54.04	-1.3
JAO	145.88	328	ePKP	02 56.00	-0.8
ALQ	172.88	4	ePKP	03 18.00	-9.1
	1.0s		2.50nm		
TUC	173.84	42	ePKP	03 28.55	1.2
S.D. = 0.9 on 43 of 50 obs.					
FEB 19, 1993 00h 57m 59.41± 0.66s					
43.038 N ± 7.4km 0.331 W ± 5.0km					
DEPTH = 10.0km (geophysicist)					
PYRENEES					(378)
ML 2.8 (LDG). mbLg 2.6 (MDD).					
Felt (iii) in the Bearn area, France.					
JAU	0.03	270	Pg	58 01.04	-0.5
BTH	0.12	47	iPg	58 01.40	-1.1
			iSg	58 04.00	
			iSg	58 06.10	
OGE	0.17	321	Pg	58 02.51	-0.7
ESCF	0.18	283	Pg	58 03.14	-0.4
			Sg	58 06.31	
LHE	0.25	240	Pg	58 04.67	-0.1
ATE	0.27	280	Pg	58 04.83	-0.4
			Sg	58 09.12	
ISSF	0.34	268	Pg	58 06.39	-0.1
			Sg	58 11.51	
MADF	0.37	287	Pg	58 06.63	-0.5
			Sg	58 12.85	
EPF	0.49	91	Pg	58 08.20	-1.2
			Sg	58 14.90	
ELYF	0.50	285	Pg	58 16.90	7.3X
BOH	0.50	278	Pg	58 09.25	-0.4
			Sg	58 16.53	
EGRA	0.84	179	ePg	58 21.20	5.6X
			eSg	58 32.90	
ELIZ	0.89	279	ePg	58 22.40	6.0X
ECRI	1.66	256	ePn	58 31.50	2.8
			eSn	58 50.60	
LPO	1.98	33	Pg	58 35.20	1.9
			Sg	59 00.60	
LEF	2.05	22	Pg	58 37.00	2.7
			Sg	59 03.10	
EROO	2.28	166	ePn	58 38.40	0.7
			eSn	59 02.60	
CAF	2.56	42	Pg	58 46.30	4.7X
			Sg	59 18.30	
ETOR	2.56	211	ePn	58 41.00	-0.8
			eSn	59 05.50	
RJF	2.63	30	Pn	58 40.70	-1.9
			Pg	58 47.00	
			Sg	59 20.20	
LSF	3.48	22	Pg	59 03.10	8.5X
			Sg	59 46.60	
MFF	3.57	2	Pg	59 05.60	9.7X
			Sg	59 49.90	
TCF	3.72	28	Pg	59 07.60	9.4X
			Sg	59 55.80	
S.D. = 1.4 on 16 of 23 obs.					
* FEB 19, 1993 01h 06m 14.52± 0.92s					
40.543 N ± 15.5km 23.966 E ± 7.4km					
DEPTH = 10.0km (geophysicist)					
GREECE					(364)
MD 3.1 (ATH).					
VAY	1.31	307	iPn	06 40.40	1.6
			iSn	06 59.40	
RDO	1.34	63	ePb	06 37.60	-1.5
KZN	1.69	263	ePb	06 43.80	-0.5
EZN	1.94	111	iPn	06 46.80	-1.1
PRK	2.20	125	ePn	06 53.20	1.6
OHR	2.47	284	ePn	06 54.20	-1.3
DMK	3.13	65	ePn	07 06.00	1.1
DST	3.70	103	ePn	07 21.00	8.0X
S.D. = 1.7 on 7 of 8 obs.					

RTRS	3.40	228	iPd	45	42.70	0.8
			S	46	25.00	
RTLL	3.80	206	eP	45	46.70	-0.2
TCA	3.83	154	iPc	45	47.10	-0.2
			(S)	46	31.00	
CFA	3.97	201	e(P)	45	48.90	-0.2
RTCB	4.07	208	eP	45	50.20	-0.1
RTCV	4.31	203	e(P)	45	33.00	-20.2X
RTBS	4.52	213	ePd	45	56.30	0.5
VAO	18.34	79	eP	48	50.30	1.2
LZH	168.47	43	ePKP	04	29.50	-1.2
	1.0s	60.00nm				
			pP	04	33.00	
			sP	04	37.00	
S.D. = 0.9 on 10 of 11 obs.						
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%	FEB	19,	1993	02h	06m	13.42± 0.59s
	40.388	N	± 4.2km		23.989	E ± 5.3km
DEPTH = 10.0km (geophysicist)						
GREECE						(364)
ML 3.1 (THE).						
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OUR	0.05	186	ePgC	06	15.76	0.2
			eSg	06	18.96	
PAIG	0.52	207	ePgC	06	23.73	-0.2
			eSg	06	31.16	
SOM	0.65	312	ePgD	06	26.10	-0.3
			eSg	06	34.73	
SRS	0.79	338	ePg	06	28.48	-0.3
			eSg	06	39.28	
THE	0.82	288	ePg	06	28.84	-0.4
			eSg	06	41.08	
KNT	1.13	313	ePgC	06	34.82	0.2
			eSg	06	50.08	
LIT	1.18	256	ePb	06	35.78	0.3
			eSb	06	51.64	
GRG	1.33	296	ePb	06	38.80	0.8
			eSb	06	58.08	
ALN	1.65	71	ePb	06	42.56	0.1
			eSb	07	03.48	
AGG	1.87	224	ePb	06	45.52	-0.3
			eSb	07	09.52	
FNA	2.03	282	ePn	06	48.08	0.0
			eSn	07	15.60	
S.D. = 0.4 on 11 of 11 obs.						
<hr/>						
	FEB	19,	1993	02h	30m	04.07± 0.29s
	36.464	N	± 6.6km		70.840	E ± 4.7km
DEPTH = 188.9km (2 depth phases)						
4.2mb (24 obs.)						
HINDU KUSH REGION, AFGHANISTAN						(718)
<hr/>						
KSH	5.04	52	P	31	20.80	1.3
			S	32	17.50	
QUE	7.05	209	eP	31	50.70	4.8X
			eS	33	08.20	
MAIO	9.15	272	iPd	32	12.50	-0.9
	0.8s	8.05nm				4.2mb
			eS	33	48.00	
NDI	9.44	143	iPc	32	16.50	-0.5
	0.5s	31.69nm				5.0mb X
			iS	33	53.00	
WMQ	14.82	55	eP	33	24.00	-1.7
			eS	36	04.00	
LSA	18.29	106	Pc	34	07.60	0.9
	2.0s	46.00nm				4.6mb
			S	37	23.00	
HYB	20.16	158	eP	34	26.00	0.5
	1.0s	40.00nm				4.9mb
GTA	23.00	74	eP	34	54.00	0.8

19d 02h

BRG 42.54 308 iP 37 44.10 1.8
i 38 24.40 186km
GEC2 42.85 305 P 37 45.50 0.6
0.6s 0.81nm 3.5mb
NB2 44.33 323 P 37 56.30 -0.3
0.7s 22.10nm 4.8mb
NAO 44.50 323 P 37 55.90 -2.0
BSF 47.55 305 eP 38 22.10 -0.1
0.7s 7.70nm 4.3mb
HAU 47.81 305 eP 38 24.10 0.0
0.6s 3.50nm 4.0mb
LPG 48.06 302 eP 38 26.80 0.5
0.6s 2.55nm 3.9mb
LPL 48.07 302 eP 38 26.80 0.5
0.3s 1.40nm 3.9mb
LBF 49.60 304 eP 38 37.20 -0.6
0.5s 1.40nm 3.8mb
SMF 49.77 304 eP 38 39.00 0.0
AVF 50.06 304 eP 38 41.10 -0.1
MAF 50.73 304 eP 38 46.00 -0.3
TCF 50.95 304 eP 38 48.20 0.2
1.0s 6.20nm 4.1mb
CAF 51.41 302 eP 38 51.80 0.3
LSF 51.41 304 eP 38 51.20 -0.3
0.5s 1.60nm 3.9mb
LDF 51.90 307 eP 38 54.00 -1.1
0.5s 2.20nm 4.1mb
FLN 52.09 307 eP 38 55.80 -0.6
LFF 52.31 302 eP 38 57.80 -0.3
0.6s 3.80nm 4.2mb
GRR 52.42 307 eP 38 58.30 -0.6
BCAO 57.53 249 ePc 39 35.00 -1.0
0.6s 6.00nm 4.5mb
ic 40 19.00 192km
IMA 72.20 17 (P) 41 09.10 -0.6
0.8s 1.36nm 3.7mb
FBA 74.54 16 eP 41 23.70 0.6
1.0s 5.00nm 4.2mb
YKA 81.29 3 eP 42 00.00 0.2
0.5s 0.80nm 3.7mb
WRA 82.08 122 P 42 04.30 -0.3
0.9s 3.30nm 4.1mb
S.D. = 0.9 on 39 of 40 obs.

* FEB 19, 1993 02h 35m 57.34 ± 1.31s
23.812 N ± 14.3km 121.894 E ± 12.7km
DEPTH = 33.0km (normal)
4.4mb (7 obs.)

TAIWAN (244)
ML 4.3 (BJI).

OZH 3.21 291 Pn 36 46.00 -0.7
SSE 7.28 355 P 37 43.50 -0.6
Z 20s 0.90um S 38 58.00
NJ2 8.64 343 Pd 38 02.00 -1.0
S 39 35.40
WHN 9.49 317 P 38 13.00 -1.7
TIA 13.03 343 eP 39 06.10 3.4X
GYA 14.04 284 P 39 25.60 9.3X
TIY 16.05 332 eP 39 44.30 2.1X
Z 24s 0.94um
E 12s 0.43um
CD2 17.58 298 eP 40 03.00 1.5
HHC 19.07 335 eP 40 21.00 1.2
1.2s 24.00nm 4.3mb
BTO 19.49 332 eP 40 26.00 1.4
LZH 19.82 312 Pd 40 29.00 0.7
2.0s 51.00nm 4.5mb
Z 15s 0.49um 4.3msz
pP 40 32.00 12kmX
CHTO 21.94 261 eP 40 49.50 -0.4
GTA 24.31 315 eP 41 14.00 0.9
1.6s 20.00nm 4.4mb
pP 41 26.50 50kmX
sP 41 31.50
LSA 28.02 289 P 41 55.20 7.2X
0.8s 5.00nm 4.3mb
MAIO 54.59 299 eP 45 25.00 -0.1
FBA 68.84 27 eP 47 01.00 0.7
0.9s 8.33nm 4.8mb
YKA 83.06 23 eP 48 20.20 -0.4
0.7s 2.00nm 4.3mb
GEC2 83.54 321 P 48 22.00 -1.5
0.8s 1.65nm 4.2mb
S.D. = 1.1 on 14 of 18 obs.

% FEB 19, 1993 02h 53m 36.64 ± 0.96s
40.118 N ± 13.3km 27.258 E ± 8.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

EDC 0.52 64 iPg 53 46.00 -1.0
eSg 53 53.00
EZN 0.77 248 iPg 53 51.90 -0.2
eSg 54 03.40
DST 1.17 115 ePn 53 59.30 0.3
CTT 1.36 41 iPn 54 03.00 0.8
YLV 1.68 74 ePn 54 07.00 0.2
S.D. = 0.9 on 5 of 5 obs.

& FEB 19, 1993 03h 38m 02.60s
36.880 N 121.623 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.1 (BRK), 3.0 (GS).
Felt (III) at Aromas. Also felt
at San Juan Bautista and in the
Solinos area.

SAO 0.18 129 iPd 38 06.28 -0.1
iS 38 09.16
GCC 0.33 297 iPc 38 08.88 -0.5
COE 0.38 354 iPd 38 10.78 0.6
MHC 0.46 358 iPd 38 11.96 0.1
iS 38 19.10
ARN 0.47 9 iPd 38 12.03 -0.1
PRS 0.58 160 iPd 38 13.78 -0.5
eS 38 21.20
LLA 0.61 116 iPc 38 14.64 -0.1
iS 38 24.23
STAN 0.68 320 ePd 38 15.64 -0.6
eS 38 25.97
PCC 0.87 316 iPc 38 18.26 -1.4
PRI 1.07 133 iPd 38 22.55 -0.7
eS 38 27.46
BKS 1.11 334 iPd 38 22.01 -1.8
iS 38 38.95
ZSP 1.18 335 iPc 38 23.15 -1.9
HMR 1.28 354 eP 38 26.60 -0.2
PHAM 1.44 136 eP 38 27.47 -1.9
PKEM 1.47 123 eP 38 28.17 -1.6
eS 38 33.57
CMB 1.52 40 ePd 38 28.91 -1.6
eS 38 47.91
NTYM 1.72 332 (P) 38 30.06 -3.2
eS 38 53.27
BCH 2.10 143 eP 38 37.06 -1.9
MMPM 2.20 70 eP 38 39.71 -0.9
eS 39 08.63
MEMM 2.28 69 eP 38 41.56 0.1
eS 39 12.42
MTUM 2.49 78 eP 38 44.24 -0.4
eS 39 18.90
MRCM 2.61 71 eP 38 47.07 0.7
eS 39 21.41
ORV 2.67 2 eP 38 46.18 -0.9
ISA 2.82 115 eP 38 45.38 -3.9
eS 39 25.54
BONR 2.85 67 ePn 38 51.04 1.1
eS 39 31.71
MIN 3.46 0 ePd 39 06.92 8.6
TNP 3.70 70 ePn 39 01.34 -0.6
TPNV 4.31 87 ePg 39 14.59 4.2
28 obs. associated

* FEB 19, 1993 04h 01m 01.97 ± 0.64s
52.865 S ± 16.9km 72.779 E ± 12.4km
DEPTH = 10.0km (geophysicist)
5.2mb (12 obs.)

KERGUELEN ISLANDS REGION (433)

SPA 37.32 180 iPc 08 16.30 0.5
1.2s 54.23nm 5.2mb
VTY 39.01 320 eP 08 30.40 0.0
AVY 39.08 321 eP 08 29.00 -2.0
BUL 47.09 297 iPd 09 33.40 -2.5
1.0s 5.00nm 4.6mb
WIN 51.73 283 iPc 10 10.50 -1.1
0.9s 16.81nm 5.0mb
STK 52.81 95 eP 10 17.70 -1.8
1.1s 2.80nm 4.1mb X
CAN 54.84 104 eP 10 40.30 5.8X

BWA 55.12 103 eP 10 36.60 0.1
WB2 57.24 80 iPc 10 49.40 -2.4
0.9s 9.70nm 4.8mb
i 11 54.80
CTA 64.30 90 iPc 11 44.00 4.2X
1.0s 7.50nm 4.8mb
GBA 66.32 5 Pd 11 51.00 -1.5
NST 72.23 28 eP 12 31.00 2.1
BCAO 73.01 302 iPc 12 32.90 -0.8
0.9s 27.00nm 5.3mb
ic 12 40.00
CHTO 74.90 26 ePd 12 44.60 0.1
1.2s 19.44nm 5.0mb
KMI 81.93 27 Pd 13 24.50 1.4
2.0s 90.00nm 5.5mb
LSA 83.76 16 iPd 13 33.40 0.7
1.2s 45.00nm 5.6mb
KIC 87.55 284 P 13 52.34 1.1
1.2s 28.00nm 5.4mb
LIC 87.61 283 P 13 52.42 0.9
0.9s 16.00nm 5.3mb
CD2 87.69 26 Pc 13 52.40 0.8
TIC 87.94 284 P 13 54.28 1.1
0.8s 14.00nm 5.3mb
MBH 88.68 328 eP 13 57.40 1.0
ARVI 89.39 328 eP 14 00.80 1.2
MMR 91.49 329 eP 14 10.60 1.2
SPC 110.99 326 ePKP 19 51.80 15.4X
BRW 151.60 31 ePKPd 20 57.89 8.2X
LMN 151.84 273 ePKP 21 01.50 10.6X
TTA 152.86 49 ePKP 20 59.96 8.1X
SVW 152.96 53 ePKP 20 58.64 6.6X
IMA 153.70 42 ePKP 21 01.60 8.5X
1.1s 7.00nm
S.D. = 1.5 on 21 of 29 obs.

FEB 19, 1993 04h 02m 43.10 ± 0.46s
30.842 N ± 8.0km 141.758 E ± 7.8km
DEPTH = 36.4km (5 depth phases)
4.6mb (16 obs.) 4.0msz (2 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT 6.41 333 eP 04 18.00 0.4
eS 05 32.00
MDJ 16.76 329 eP 06 35.40 -1.1
CN2 18.28 320 eP 06 54.20 -1.2
1.2s 34.00nm 4.4mb
Z 18s 0.60um 4.0msz
BJI 22.71 301 eP 07 42.50 -0.2
1.6s 100.00nm 5.0mb
Z 20s 0.42um 3.9msz
eS 11 44.00
TIY 25.12 294 Pc 08 06.40 0.2
Z 20s 0.75um 4.2msz
N 20s 1.04um
S 12 20.00
HHC 26.32 301 eP 08 17.80 0.4
0.8s 14.00nm 4.6mb
BTO 27.42 300 eP 08 28.00 0.6
N 15s 0.44um
E 16s 0.53um
epP 08 38.00 36km
XAN 27.83 285 P 08 31.00 -0.1
1.0s 7.10nm 4.3mb
sP 08 41.50
LZH 31.92 290 eP 09 07.00 -0.7
1.2s 18.00nm 4.8mb
pP 09 15.00 28km
GTA 35.10 296 eP 09 34.80 -0.3
1.0s 15.00nm 4.9mb
pP 09 45.50 37km
WMO 44.16 303 P 10 52.00 1.9
2.0s 22.00nm 4.6mb
pP 11 03.50 41km
WB2 50.99 189 eP 11 41.00 -2.5
0.5s 7.90nm 4.9mb
i 11 43.20 7kmX
WRA 50.99 189 P 11 44.00 0.5
0.8s 2.70nm 4.3mb
PMR 53.51 34 eP 12 01.79 -0.1
1.1s 8.22nm 4.6mb
FBA 54.26 30 eP 12 07.30 0.0
0.9s 3.75nm 4.4mb
ASPA 54.72 189 eP 12 12.50 1.3
0.7s 7.10nm 4.8mb
NDI 55.36 285 eP 12 15.00 -0.9
BALM 56.80 34 eP 12 26.20 0.2

19d 04h

YKA 69.04 29 eP 13 45.00 -1.8
1.0s 1.80nm 4.1mb
KAF 73.95 334 eP 14 16.40 0.3
0.8s 9.50nm 4.8mb
NEW 74.42 43 (P) 14 19.50 0.3
1.2s 9.09nm 4.6mb
LCCM 78.74 43 eP 14 43.30 -0.3
NB2 80.01 338 P 14 50.10 0.1
0.7s 1.60nm 4.1mb
PV10 84.66 48 eP 15 15.34 0.6
KSP 85.52 329 eP 15 19.50 1.0
e 15 31.70 40km
CLL 86.61 331 i(P) 15 25.10 1.3
ZOBO 149.13 69 ePKP 22 37.00 10.8X
LR 48 20.00
LPB 149.29 69 ePKP 22 31.00 4.8X
CNCB 149.53 70 PKP 22 33.20 6.5X
S.D. = 1.0 on 26 of 29 obs.

* FEB 19, 1993 04h 18m 41.33±1.22s
51.605 N ±10.5km 16.185 E ± 5.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.7 (GRF), 3.4 (VIE).

KSP 0.77 175 iPd 18 56.00 -0.3
0.4s 114.00nm
iS 19 04.80
i 19 11.40
BRG 1.59 243 iPn 19 09.40 -0.1
iPg 19 11.00
iSg 19 28.70
PRU 1.93 213 Pnd 19 14.30 -0.1
0.5s 30.80nm
Pg 19 16.20
Sn 19 33.30
Sg 19 39.80
i 19 47.70
VRAC 2.31 173 iPnc 19 21.20 1.2
0.2s 9.70nm
eSg 19 53.70
OJC 2.67 120 eP 19 24.90 -0.3
iPg 19 33.70
eS 20 08.30
iSg 20 10.30
KHC 2.99 215 Pn 19 29.00 -0.6
e 19 35.60
HOF 3.02 246 iPnc 19 30.10 0.1
MOX 3.03 253 ePn 19 30.30 0.0
iPg 19 38.50
iSg 20 18.20
GEC2 3.19 211 Pn 19 32.50 -0.1
Pg 19 39.10
Sg 20 17.80
WET 3.25 222 iPnc 19 33.60 0.3
VKA 3.35 178 ePn 19 35.00 0.3
iPg 19 44.20
iSg 20 27.20
GRF 3.69 241 iPnc 19 40.00 0.3
ePg 19 51.40
eSg 20 37.40
KBA 4.90 203 iPnc 19 56.60 -0.3
i 20 05.20
iSg 21 15.10
WTTA 5.26 216 iPnc 20 02.00 0.0
0.6s 8.10nm 4.5mb X
i 21 18.20
i 21 38.10
RBL 5.45 199 P 20 04.00 -0.6
FVI 5.49 205 P 20 04.90 -0.2
eSn 21 34.00
CTI 6.32 210 P 20 17.30 0.5
S.D. = 0.5 on 17 of 17 obs.

FEB 19, 1993 04h 26m 28.13±1.38s
36.401 N ± 8.6km 71.404 E ± 8.3km
DEPTH = 117.6 ± 15.6 km
4.6mb (13 obs.)
AFGHANISTAN-TAJIKISTAN 80RD REG. (717)

KSH 4.73 48 P 27 39.40 0.8
S 28 33.10
QUE 7.23 212 P 28 14.70 1.9
eS 29 34.70
NDI 9.12 146 iPd 28 36.50 -1.8
0.5s 29.58nm 5.3mb X
iS 30 13.00

MAIO 9.61 273 iPd 28 37.00 -7.9X
0.8s 15.74nm 4.9mb
eS 30 16.00
WMO 14.49 54 P 29 46.00 -2.7
1.0s 14.00nm 4.2mb
eS 32 22.20
LSA 17.84 106 eP 30 30.60 -0.1
HYB 19.94 160 eP 30 51.50 -1.6
eS 34 23.50
GTA 22.58 74 eP 31 21.50 2.2
1.2s 57.00nm 4.8mb
GBA 23.34 165 P 31 28.00 1.4
LZH 26.10 81 eP 31 54.00 1.3
1.5s 38.00nm 4.7mb
OBN 30.20 319 eP 32 28.00 -1.1
1.4s 30.00nm 4.8mb
e 32 30.00
BTO 30.34 70 eP 32 31.90 1.2
MLR 35.11 299 iPc 33 13.00 1.0
KAF 37.89 327 eP 33 35.00 0.1
0.3s 1.80nm 4.4mb
NUR 38.10 324 iP 33 35.90 -0.7
0.3s 2.60nm 4.6mb
VBY 42.60 300 e(P) 34 14.40 0.5
HFS 43.35 322 eP 34 19.20 -0.5
0.3s 4.80nm 4.7mb
NB2 44.66 323 P 34 29.30 -1.0
0.5s 5.60nm 4.6mb
GRF 44.78 307 eP 34 32.50 1.1
BCAO 57.93 250 iPc 36 08.50 -1.9
1.7s 3.00nm 4.0mb
FBA 74.47 16 eP 37 55.10 0.4
1.0s 9.50nm 4.5mb
YKA 81.33 3 eP 38 32.00 -0.2
0.9s 3.60nm 4.2mb
WB2 81.67 122 eP 38 33.90 -0.8
0.3s 3.60nm 4.6mb
JAO 85.77 341 eP 38 55.50 0.5
S.D. = 1.4 on 23 of 24 obs.

? FEB 19, 1993 04h 34m 35.87±9.99s
39.446 N ±62.0km 15.375 E ±44.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

MGR 0.70 11 P 34 49.60 -0.2
eSg 34 59.60
TDS 0.77 74 P 34 50.90 -0.1
eSg 35 01.60
ORI 1.03 53 P 34 55.50 0.1
SGO 1.11 357 P 34 56.80 0.1
eSg 35 11.30
S.D. = 0.2 on 4 of 4 obs.

? FEB 19, 1993 04h 38m 57.23±0.82s
38.878 S ± 6.6km 174.817 E ± 6.4km
DEPTH = 266.1 ± 8.7 km
NORTH ISLAND, NEW ZEALAND (159)

CNZ 0.65 120 P 39 32.60 0.0
NGZ 0.68 116 P 39 32.70 -0.1
BSZ 0.92 175 P 39 34.00 0.2
WLZ 1.18 32 P 39 35.80 0.6
WHH 1.31 91 eP 39 35.30 -0.9
WAHZ 1.45 125 P 39 36.90 -0.2
TTH 1.70 114 P 39 39.50 0.7
PAHZ 1.75 90 P 39 39.30 0.0
MNG 1.81 164 P 39 39.80 0.0
eS 40 07.10
MOH 1.83 99 P 39 40.40 0.4
URZ 1.90 72 eP 39 39.70 -0.8
eS 40 07.40
TEHZ 1.90 126 P 39 40.70 0.2
KIW 1.99 178 P 39 41.20 0.0
DIW 2.04 199 P 39 42.00 0.3
CAW 2.24 175 P 39 43.40 -0.1
MTW 2.34 167 P 39 44.10 -0.3
MRW 2.35 182 Pc 39 44.50 -0.1
S 40 16.00
TCW 2.37 190 P 39 45.10 0.4
MAHZ 2.41 98 P 39 45.60 0.5
WEL 2.41 181 P 39 44.90 -0.1
NOZ 2.53 85 P 39 46.70 0.4
BLW 2.54 169 P 39 46.20 -0.2
MOW 2.56 173 P 39 46.40 -0.2
ORZ 2.63 221 P 39 47.10 -0.1
PUZ 2.82 75 eP 39 48.90 -0.3

S 40 23.60
HBZ 3.03 66 eP 39 51.10 -0.2
THZ 3.23 206 P 39 53.70 0.1
KHZ 3.67 195 P 39 58.70 0.4
DSZ 3.68 218 P 39 58.40 -0.2
LTZ 4.35 206 eP 40 06.20 -0.2
MOZ 5.09 198 P 40 14.30 -0.8
BWZ 6.75 212 eP 40 35.40 -0.1
ODZ 6.90 205 eP 40 38.20 0.8
S.D. = 0.4 on 33 of 33 obs.

FEB 19, 1993 04h 55m 39.17±0.98s
44.409 N ±10.6km 10.430 E ± 7.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.5 (LDG).

MME 0.29 138 P 55 44.90 -0.4
BDI 0.37 161 Pd 55 46.90 0.2
eSg 55 54.80
PII 0.69 174 P 55 53.10 0.3
eSg 56 06.50
BOB 0.79 297 P 55 56.90 2.3
eSg 56 09.10
SFI 1.13 115 P 56 01.00 0.6
eSg 56 16.00
CRE 1.35 125 P 56 03.60 -0.4
PGF 2.13 210 Pn 56 15.80 0.4
Sn 56 41.90
SBF 2.22 257 Pn 56 17.10 0.4
Sn 56 43.70
LPL 2.85 294 Pn 56 23.30 -2.4
Sn 56 57.00
FRF 2.86 254 Pn 56 25.00 -0.7
Sn 56 57.90
LMR 3.03 251 Pn 56 27.40 -0.7
Sn 57 02.10
LRG 3.09 253 Pn 56 29.20 0.3
S.D. = 1.2 on 12 of 12 obs.

FEB 19, 1993 06h 00m 01.83±0.76s
41.826 N ± 6.0km 22.681 E ± 6.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.9 (THE).

KKB 0.30 82 iPg 00 08.00 -0.2
KNT 0.68 166 ePg 00 14.54 -0.8
eSg 00 23.92
MMB 0.82 106 iPd 00 17.00 -0.7
VTS 0.86 27 ePg 00 17.00 -1.5
GRG 0.89 194 ePg 00 17.96 -1.0
eSg 00 31.76
SRS 0.98 136 ePg 00 20.20 -0.3
eSg 00 33.72
SOH 1.12 153 ePg 00 22.88 0.0
eSg 00 38.44
THE 1.21 170 ePg 00 23.64 -0.7
eSg 00 40.04
PGB 1.32 56 ePg 00 26.00 -0.3
FNA 1.43 224 ePb 00 29.48 1.6
eSb 00 46.64
RZN 1.53 94 iPd 00 30.00 0.6
OHR 1.58 244 ePn 00 30.20 0.1
OUR 1.79 146 ePb 00 33.00 0.1
eSb 00 56.16
KDZ 2.05 94 P 00 39.00 2.2
ALN 2.70 109 ePn 00 46.88 0.9
eSn 02 22.28
S.D. = 1.1 on 15 of 15 obs.

% FEB 19, 1993 06h 09m 56.23±0.84s
38.901 S ± 8.0km 176.113 E ± 8.3km
DEPTH = 133.5 ± 11.5 km
NORTH ISLAND, NEW ZEALAND (159)

WHH 0.30 87 P 10 13.50 -1.4
TAHZ 0.54 116 eP 10 16.40 0.1
eS 10 28.30
PAHZ 0.74 87 P 10 17.20 -0.3
WAHZ 0.82 167 P 10 18.40 0.2
MOH 0.84 106 P 10 18.30 0.0
URZ 1.01 51 P 10 19.30 -0.5
S 10 33.20
TEHZ 1.21 154 P 10 22.30 0.5
BSZ 1.28 225 P 10 24.10 1.6
NOZ 1.53 80 eP 10 25.80 0.6

19d 06h

PUZ 1.87 65 P 10 29.60 0.3
 HBZ 2.16 54 eP 10 33.10 0.4
 KIW 2.17 205 P 10 33.30 0.4
 MTW 2.30 192 P 10 34.50 -0.1
 CAW 2.35 200 P 10 35.30 0.2
 BLW 2.51 191 P 10 36.80 -0.4
 DIW 2.54 221 P 10 38.00 0.4
 MRW 2.57 204 eP 10 37.80 -0.1

MOW 2.60 194 P 10 38.10 -0.3
 TCW 2.71 211 P 10 39.80 0.1
 ORZ 3.36 234 P 10 48.60 0.2
 THZ 3.77 220 eP 10 53.60 -0.2
 KHZ 4.02 208 P 10 56.40 -0.7
 DSZ 4.35 228 P 11 00.90 -0.7
 LTZ 4.85 216 P 11 06.80 -1.5X
 MQZ 5.46 207 P 11 13.70 -2.8X

S.D. = 0.6 on 23 of 25 obs.

FEB 19, 1993 07h 29m 09.37 ± 1.79s
 43.270 N ± 12.3km 18.900 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.6 (TTG).

PLE 0.37 80 iPgC 29 16.86 -0.1
 BRY 0.45 215 iPgD 29 18.46 -0.1
 NKY 0.46 171 iPgC 29 18.56 -0.2
 IVA 0.83 118 iPgD 29 25.47 0.0
 HCY 0.87 200 iPgC 29 26.22 0.1
 TTG 0.88 162 iPgD 29 25.44 -0.8
 BDV 0.99 183 iPgC 29 28.32 0.2
 PVY 1.04 130 iPgC 29 29.31 0.3
 ULC 1.33 169 iPgC 29 34.67 0.7
 OHR 2.58 146 ePn 29 55.50 3.6X
 VBY 3.44 312 e(P) 30 11.30 7.3X

S.D. = 0.5 on 9 of 11 obs.

FEB 19, 1993 07h 34m 12.57 ± 0.44s
 11.105 N ± 9.4km 125.787 E ± 14.4km
 DEPTH = 33.0km (normol)
 4.7mb (13 obs.)

SAMAR, PHILIPPINE ISLANDS (251)

SSE 20.34 349 Pc 38 50.00 1.1
 0.8s 9.00nm 4.2mb
 GYA 23.63 313 P 39 23.80 1.9
 XAN 27.55 329 P 39 57.50 -1.0
 0.5s 40.00nm 5.3mb
 SNY 30.67 357 Pd 40 26.20 0.0
 1.0s 14.00nm 4.7mb
 WB2 31.98 165 eP 40 41.20 61kmX
 0.7s 4.90nm 4.5mb
 GTA 36.43 325 eP 41 16.60 0.3
 1.0s 10.00nm 4.7mb
 CTA 36.97 147 iPd 41 21.50 0.7
 WARB 37.07 179 eP 41 22.00 0.4
 GUN 40.94 300 P 41 54.00 -0.3
 KKN 41.42 300 P 41 57.60 -0.5
 0.7s 17.00nm 4.9mb
 DMN 41.52 299 P 41 58.40 -0.5
 GKN 42.02 300 P 42 02.40 -0.5
 0.6s 17.00nm 5.0mb
 STK 45.34 161 eP 42 27.00 -2.5
 0.5s 6.10nm 4.8mb
 RKG 46.18 190 eP 42 37.20 1.1
 0.5s 9.00nm 5.0mb
 BWA 50.12 156 eP 43 08.80 2.0
 CAN 51.13 156 eP 43 15.30 0.8
 CNB 51.28 155 iPc 43 16.50 0.9
 0.7s 17.00nm 5.1mb
 DZM 51.74 130 iPc 43 19.10 -0.3
 IMA 76.08 24 eP 45 58.40 -0.1
 0.8s 3.79nm 4.4mb

YKA 93.19 24 eP 47 23.70 -0.9
 0.9s 1.00nm 4.2mb
 GEC2 95.75 322 P 47 36.50 -0.3
 1.1s 1.27nm 4.3mb
 S.D. = 1.2 on 21 of 21 obs.

FEB 19, 1993 08h 17m 03.83 ± 0.89s
 21.495 N ± 6.3km 143.501 E ± 12.3km
 DEPTH = 255.8 ± 9.6 km
 4.5mb (11 obs.)

MARIANA ISLANDS REGION (215)

PJG 7.97 170 eP 18 56.20 -1.3
 GUMO 7.97 170 eP 18 56.30 -1.2
 0.9s 383.40nm 5.4mb X
 GUA 8.03 170 eP 18 56.70 -1.5
 0.8s 179.10nm 5.2mb X
 WKYJ 14.47 333 P 20 20.20 1.5
 IIDJ 14.77 342 P 20 25.20 2.9
 KAGJ 14.85 313 P 20 24.80 1.4
 KAKJ 14.94 350 P 20 24.80 0.4
 TKSJ 14.98 328 P 20 27.10 2.3
 CHJJ 15.03 346 P 20 25.40 0.0
 MAT 15.69 344 eP 20 32.00 -1.4
 0.5s 14.79nm 4.7mb
 KUMJ 15.75 317 eP 20 35.00 0.9
 MTMJ 15.83 343 P 20 34.30 -1.0
 NIJJ 16.17 347 P 20 38.00 -0.9
 YONJ 16.24 329 P 20 39.60 -0.1
 SHNJ 16.67 322 eP 20 44.40 0.2
 SSE 22.14 300 P 21 39.50 0.1
 1.0s 6.00nm 4.1mb
 SNY 26.31 325 eP 22 15.60 -2.4
 TIA 27.25 308 eP 22 26.00 -0.6
 GTA 41.23 306 eP 24 24.50 -1.1
 PcP 26 20.00
 ScP 29 44.00
 CTA 41.42 176 iPc 24 29.50 2.4
 0.9s 16.81nm 4.4mb
 WB2 42.14 193 eP 24 34.10 1.1
 0.5s 8.10nm 4.4mb
 iPP 26 23.80
 iScP 29 50.00
 eS 30 40.30
 RMO 47.97 174 eP 25 20.00 1.1
 BRS 49.42 169 eP 25 15.00 -15.0X
 WARB 50.13 200 iPd 25 37.00 1.6
 WMO 50.94 310 eP 25 38.80 -2.7
 ARMA 52.20 171 eP 25 45.30 -5.6X
 GUN 52.34 289 P 25 52.80 0.4
 0.4s 7.00nm 4.4mb
 KKN 52.88 289 P 25 56.40 0.2
 DMN 53.06 289 P 25 57.60 0.1
 STK 53.10 182 eP 25 57.80 0.5
 0.5s 10.80nm 4.5mb
 GKN 53.42 290 P 26 00.40 0.3
 FBA 61.72 27 eP 26 56.37 -0.6
 0.6s 2.40nm 4.0mb
 GBA 63.10 275 P 27 06.00 -0.8
 BALM 63.77 31 ePc 27 10.13 -0.5
 KAF 83.03 335 iP 29 00.70 -0.7
 0.7s 12.10nm 4.8mb
 SES 83.05 38 eP 29 03.00 1.1
 NUR 84.59 334 iP 29 08.50 -0.8
 0.4s 5.10nm 4.7mb
 HFS 89.03 337 eP 29 28.80 -2.0
 0.4s 3.50nm 4.6mb
 NB2 89.24 339 P 29 30.30 -1.5
 0.8s 5.00nm 4.5mb
 MTD 115.95 261 iPKPd 35 16.90 -1.6
 BUL 119.53 258 iPKPd 35 25.00 -0.4
 0.8s 6.34nm
 BCAA 120.28 289 iPKPd 35 26.40 -0.4
 0.5s 5.00nm
 PEL 147.62 118 iPKP 36 21.20 4.5X
 ZOBO 149.66 86 PKP 36 22.00 1.0
 0.8s 13.17nm
 LPB 149.75 86 PKP 36 22.50 1.6
 1.1s 25.32nm
 i 36 27.20
 CNCB 149.93 87 PKP 36 23.50 2.2

S.D. = 1.4 on 43 of 46 obs.

? FEB 19, 1993 08h 28m 26.90 ± 2.85s
 25.145 S ± 19.6km 179.216 E ± 18.0km
 DEPTH = 559.6 ± 30.8 km
 4.9mb (10 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM 12.10 282 iPc 31 05.90 -1.1
 NOZ 13.47 184 eP 31 22.90 2.4
 ORZ 16.61 198 P 31 51.80 0.5
 THZ 17.38 196 eP 31 59.00 0.2
 DSZ 17.66 199 eP 32 02.10 0.6
 KHZ 17.85 194 P 32 02.10 -1.2
 LTZ 18.50 196 eP 32 07.60 -1.9
 MQZ 19.28 195 eP 32 14.80 -2.0
 BWZ 20.78 199 eP 32 27.90 -2.6
 BRS 23.80 259 iPd 32 59.00 0.8
 0.7s 6.00nm 4.3mb
 ARMA 24.94 252 iPc 33 09.80 1.5
 0.7s 27.00nm 5.0mb
 RMO 27.43 261 iPd 33 30.90 0.9
 0.7s 51.00nm 5.3mb
 CNB 27.62 241 iPd 33 33.70 1.9
 0.6s 19.00nm 4.9mb
 CAN 27.91 242 iPd 33 35.70 1.4
 BWA 28.19 244 iPd 33 35.90 -0.8
 CMS 29.99 250 iPd 33 52.70 0.6
 0.4s 16.00nm 5.0mb
 CTA 30.79 273 iPc 33 58.00 -1.1
 0.9s 54.62nm 5.2mb
 TOO 31.18 238 iPd 34 04.10 1.8
 0.6s 31.00nm 5.1mb
 BFD 33.40 240 iPc 34 22.30 1.5
 0.9s 20.00nm 4.7mb
 PMG 34.25 291 eP 34 23.00 -5.2X
 WRA 41.63 268 P 35 27.10 -1.1
 0.5s 5.40nm 4.3mb
 FORT 45.22 251 iPd 35 55.10 -1.0
 MTN 46.86 276 eP 36 05.30 -3.5X
 NNT 85.99 286 eP 40 07.20 -2.4
 e 50 43.30
 CHTO 89.45 291 eP 40 23.40 -2.3
 ALO 92.28 52 iPc 40 39.80 1.1
 0.9s 2.13nm 4.2mb
 NB2 143.19 350 PKP 46 47.80 -10.6X
 0.5s 1.60nm
 HFS 143.61 348 ePKP 46 48.40 -10.6X
 0.4s 12.30nm
 HRI 147.24 293 ePKP 47 05.40 -0.6
 JVI 147.65 290 ePKP 47 06.40 -0.3
 MBH 148.10 286 ePKP 47 07.80 0.3
 KSP 151.17 337 iPKPd 47 11.80 0.5
 CLL 151.82 342 iPKP 47 13.10 0.9
 BRG 151.92 340 i(PKP) 47 13.00 0.6
 BCAA 152.28 225 iPKPc 47 32.00 18.0X
 0.5s 8.00nm
 GEC2 153.76 338 PKP 47 15.90 0.8
 1.2s 1.88nm
 S.D. = 1.5 on 31 of 36 obs.

& FEB 19, 1993 08h 58m 40.07s

60.598 N 148.498 W

DEPTH = 12.8km

KENAI PENINSULA, ALASKA (14)

<AEIC>. ML 2.5 (AEIC).

PTE 0.37 316 iPd 58 47.60 -0.2
 eS 58 53.13
 MPA 0.44 256 iPc 58 48.91 -0.2
 eS 58 55.12
 SEW 0.69 224 ePc 58 52.66 -0.7
 S 59 02.65
 PMS 0.83 322 ePc 58 54.95 -1.0
 S 59 06.38
 SLKM 0.86 265 eP 58 55.62 -0.7
 eS 59 07.81
 HIN 1.01 101 eP 58 57.52 -1.4
 S 59 11.93
 PLRM 1.04 343 eP 58 58.14 -1.3
 eS 59 12.18
 VLZ 1.19 62 eP 59 00.10 -1.8
 eS 59 15.98
 GHO 1.20 350 eP 59 00.75 -1.4
 S 59 17.26
 SML 1.22 4 ePc 59 00.75 -1.7
 eS 59 18.49

19d 08h

PWA	1.25	328	eP	59	01.85	-1.2
CVA	1.36	91	iPd	59	02.64	-2.0
			eS	59	21.82	
SCM	1.36	24	eP	59	03.26	-1.6
			eS	59	22.16	
SUA	1.40	309	ePc	59	04.17	-1.2
			S	59	22.71	
BRLK	1.46	236	eP	59	05.15	-0.9
			S	59	23.40	
KLU	1.54	53	iPc	59	05.60	-1.8
			eS	59	25.19	
SGAM	1.63	92	eP	59	06.67	-1.9
			eS	59	28.63	
CNPM	1.74	233	eP	59	08.86	-1.4
SPU	1.83	290	ePc	59	10.12	-1.5
			eS	59	33.83	
CPAM	1.90	292	ePc	59	11.36	-1.2
			S	59	36.29	
RAGM	1.90	95	eP	59	10.41	-2.2
CKN	1.91	291	eP	59	11.31	-1.3
			eS	59	36.43	
CRP	1.91	292	ePc	59	11.55	-1.2
CKT	1.91	290	eP	59	11.30	-1.4
			S	59	35.13	
CP2	1.95	292	eP	59	12.37	-1.0
CKL	1.97	289	ePc	59	12.08	-1.5
			eS	59	36.84	
BGL	2.01	291	eP	59	12.87	-1.4
SKT	2.02	315	ePc	59	12.42	-1.8
			S	59	37.71	
DFR	2.07	272	eP	59	13.85	-1.1
TZL	2.07	44	eP	59	13.47	-1.5
RSO	2.11	268	eP	59	14.49	-1.2
RS2	2.11	268	eP	59	15.03	-0.7
RDW	2.13	269	eP	59	14.39	-1.7
NCT	2.19	271	eP	59	15.94	-0.8
ILIM	2.28	259	eP	59	17.06	-1.0
INE	2.33	259	eP	59	18.08	-0.8
SDG	2.40	35	iPd	59	19.26	-0.4
GLB	2.43	68	eP	59	19.91	-0.3

38 obs. associated

? FEB 19, 1993 09h 03m 30.02±4.37s
 33.135 S ±11.6km 72.121 W ±32.1km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)
 MD 3.6 (SAN).

LCCH	0.57	126	iP	03	42.03	0.4
			iS	03	48.54	
ROCH	0.95	80	iP	03	48.24	0.0
			iS	03	59.34	
LNV	1.01	144	iP	03	49.30	0.2
			iS	04	01.26	
TACH	1.12	118	iP	03	50.49	-0.5
			iS	04	03.82	
PEL	1.20	91	iP	03	52.62	0.1
			iS	04	07.07	
JACH	1.36	71	iP	03	55.27	0.1
			iS	04	11.41	
PCH	1.43	110	iP	03	56.08	0.0
			iS	04	13.90	
CHCH	1.46	123	iP	03	56.20	-0.3
			iS	04	14.33	
FCH	1.55	98	iP	03	57.92	0.0
			iS	04	16.46	

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

% FEB 19, 1993 09h 13m 20.83±0.93s
 39.075 N ±7.6km 27.604 E ±9.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

IZM	0.73	202	iPg	13	35.20	0.0
			eSg	13	47.70	
DST	0.95	56	iPn	13	38.90	-0.1
EZN	1.24	308	ePn	13	43.80	-0.1
EDC	1.29	9	iPn	13	44.00	-0.7
BNT	1.30	11	ePn	13	45.80	0.9

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

FEB 19, 1993 10h 16m 56.69±0.59s
 40.459 N ±6.1km 21.838 E ±5.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.0 (THE).

FNA	0.48	313	ePg	17	05.48	-1.0
			eSg	17	12.64	
LIT	0.61	125	ePg	17	07.52	-1.6
			eSg	17	18.32	
GRG	0.66	41	ePg	17	09.36	-0.4
			eSg	17	21.16	
OHR	1.02	310	e(Pn)	17	16.30	0.2
KNT	1.07	49	ePg	17	17.78	1.0
			eSg	17	32.80	
SOH	1.21	72	ePb	17	19.44	0.2
			eSb	17	38.76	
IGT	1.48	232	ePb	17	24.08	0.7
AGG	1.48	165	ePb	17	23.96	0.5
PAIG	1.51	110	ePb	17	23.24	-0.5
OUR	1.64	94	ePb	17	26.52	0.9

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

? FEB 19, 1993 10h 19m 02.63±1.01s
 39.115 N ±8.6km 27.609 E ±10.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.6 (ISK).

IZM	0.77	201	iPg	19	17.40	-0.2
			iSg	19	29.20	
DST	0.93	58	iPn	19	20.90	0.5
EZN	1.22	306	ePn	19	25.80	0.5
EDC	1.25	9	ePn	19	25.00	-0.8

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

? FEB 19, 1993 10h 55m 07.11±3.35s
 31.136 S ±43.3km 68.717 W ±17.5km
 DEPTH = 115.3 ±24.8 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.29	132	iPc	55	24.00	0.0
			S	55	35.90	
RTCB	0.36	191	iPd	55	24.20	0.1
			S	55	36.20	
CFA	0.62	139	iPc	55	25.60	-0.1
			S	55	38.00	
RTBS	0.82	230	ePd	55	27.20	0.0
			eS	55	41.40	
RTPR	2.07	67	ePc	55	44.10	2.4X
			S	56	10.30	
MRA	2.86	117	ePc	55	52.10	0.0
TCA	3.54	94	iP	56	01.30	0.0
			(S)	56	41.00	

S.D. = 0.1 on 6 of 7 obs.

? FEB 19, 1993 11h 10m 41.30±2.53s
 32.333 S ±25.2km 70.441 W ±19.8km
 DEPTH = 100.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.4 (SAN).

JACH	0.37	200	iP	10	56.47	-0.1
			iS	11	08.56	
ROCH	0.80	217	iP	11	00.11	0.0
			iS	11	14.84	
PEL	0.83	194	iP	11	00.06	-0.2
			iS	11	14.86	
FCH	1.00	173	iP	11	02.57	0.2
			iS	11	19.35	
PCH	1.29	183	iP	11	05.47	0.1
			iS	11	24.79	
TACH	1.38	197	iP	11	06.27	-0.2
			iS	11	26.48	
LCCH	1.48	220	iP	11	08.51	0.8
			iS	11	28.70	
CHCH	1.61	186	iP	11	09.70	0.4
			iS	11	31.03	
LNV	1.81	206	iP	11	11.04	-0.8
			iS	11	34.83	

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

? FEB 19, 1993 11h 22m 22.09±0.36s
 10.320 S ±5.7km 120.289 E ±8.3km
 DEPTH = 33.0km (normol)
 4.6mb (5 obs.)

SUMBA REGION, INDONESIA (287)

MTN	10.91	104	eP	25	00.10	1.0
			iS	26	55.00	
MEEK	16.31	185	eP	26	10.20	-0.1
			eS	28	57.00	
WB2	16.60	127	iPc	26	13.00	-1.0

	0.4s	10.90nm		4.3mb	
			eS	29	00.30
WARB	16.89	160	eP	26	17.00
MRWA	19.23	191	iPc	26	47.30
			eS	30	02.00
BAL	20.46	189	eP	27	00.00
			eS	30	35.00
MUN	21.88	189	eP	27	21.50
			eS	31	05.00
CTA	26.84	114	iP	28	05.00
KHT	32.93	319	eP	28	57.00
BRS	34.97	124	iPc	29	18.00
CD2	43.96	339	Pd	30	28.40
XAN	45.42	347	P	30	39.40
	0.5s	4.00nm		4.6mb	
GBA	48.71	298	P	31	05.00
BJI	50.25	356	eP	31	17.00
	1.2s	16.00nm		4.9mb	
GUN	50.54	320	P	31	19.60
	0.8s	27.00nm		5.3mb	
DMN	50.83	319	P	31	22.20
KKN	50.84	319	P	31	22.20
GKN	51.40	319	P	31	25.40
GTA	53.01	340	eP	31	38.50
	1.5s	8.00nm		4.5mb	
			pP	31	52.00
WMO	61.49	334	eP	32	41.40
MAIO	73.56	313	eP	33	50.00
YKA	114.86	25	ePKP	41	06.00
	0.6s	0.20nm		4.9kmX	
CNCB	151.83	163	PKP	42	21.20
LPB	152.06	163	ePKP	42	23.00
ZOBO	152.28	162	ePKP	42	16.00

S.D. = 0.7 on 16 of 25 obs.

* FEB 19, 1993 11h 35m 20.05±2.18s
 48.104 N ±19.4km 153.117 E ±16.3km
 DEPTH = 113.2 ±23.2 km
 4.5mb (10 obs.)

KURIL ISLANDS (221)

KUSJ	7.73	233	iP+	37	11.30	-0.1
			eS	38	32.60	
ASAJ	8.30	245	iP+	37	24.50	5.5X
HOOJ	8.99	234	P	37	29.10	0.8
			eS	39	03.30	
MRRJ	10.21	241	eP	37	44.80	0.1
AOMJ	11.83	235	eP	38	04.50	-1.6
OFUJ	12.24	227	eP	38	09.30	-2.3
			eS	40	17.40	
YAMJ	13.75	229	eP	38	29.00	-2.3
KAKJ	15.25	224	P	38	54.30	4.0X
MAT	15.94	229	eP	38	58.00	-0.9
	0.6s	24.00nm			4.6mb	
CHJJ	15.94	226	P	38	59.80	0.9
MTMJ	16.11	230	P	39	02.70	1.5
MDJ	16.59	267	eP	39	09.40	2.4
IIDJ	16.92	227	P	39	12.40	1.3
TSRJ	17.86	232	P	39	23.70	1.1
WKYJ	19.08	230	P	39	37.10	0.9
CN2	19.66	268	eP	39	40.20	-2.0
	1.0s	22.00nm			4.5mb	
TIA	28.95	259	eP	41	10.90	0.5
FBA	35.11	40	eP	42	04.51	0.8
	0.7s	5.52nm			4.5mb	
LZH	37.87	270	Pd	42	28.50	1.0
	1.5s	24.00nm			4.9mb	
GVA	42.03	256	P	43	02.40	0.6
	1.0s	19.00nm			4.8mb	
YKA	49.84	37	eP	44	03.50	0.6
	0.5s	0.80nm			3.9mb	
GUN	54.90	274	P	44	41.00	-0.4
KKN	55.38	274	P	44	44.80	0.1
DMN	55.61	274	P	44	46.60	0.2
GKN	55.67	275	P	44	46.80	0.1
	0.5s	7.00nm			4.9mb	
NB2	66.95	341	P	46	01.00	-0.9
	0.8s	3.70nm			4.3mb	
HFS	67.19	339	eP	46	01.90	-1.4
	0.3s	2.00nm			4.4mb	
GBA	70.45	269	P	46	23.00	-1.0
GEC2	77.24	334	P	47	02.80	-0.1
	0.5s	0.89nm			3.8mb	

S.D. = 1.3 on 27 of 29 obs.

DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.43	188	eP	44	02.94	-0.8
			eS	44	27.98	
KNT	1.55	208	eP	44	04.90	-0.5
			eS	44	30.50	
VAY	1.55	219	ePn	44	06.60	1.2
SOH	1.76	193	eP	44	08.26	-0.2
GRG	1.92	215	eP	44	10.02	-0.8
OUR	2.20	178	eP	44	16.14	1.3
ALN	2.32	134	eP	44	16.30	-0.2
S.D. = 1.1 on 7 of 7 obs.						

% FEB 19, 1993 12h 47m 40.26±0.47s
40.488 N ± 6.3km 28.736 E ± 3.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.8 (ISK).

YLV	0.49	81	iPg	47	50.30	0.0
			eSg	47	57.70	
BNT	0.64	258	iPg	47	53.70	0.7
			iSg	48	02.70	
EDC	0.68	258	iPg	47	54.00	0.2
			eSg	48	04.00	
HRT	0.78	65	iPg	47	55.90	0.3
			eSg	48	06.90	
DST	0.89	185	iPg	47	56.80	-0.5
			iSg	48	10.80	
EYL	1.09	85	ePg	48	01.10	0.3
GPA	1.22	99	ePn	48	03.00	0.0
DMK	1.52	331	ePn	48	06.60	-0.9
ALT	1.78	143	ePn	48	11.00	-0.4
EZN	1.96	251	ePn	48	14.00	0.1
S.D. = 0.5 on 10 of 10 obs.						

* FEB 19, 1993 12h 48m 40.25±0.71s
34.867 N ± 9.4km 110.853 E ± 8.3km
DEPTH = 10.0km (geophysicist)

SOUTHEASTERN CHINA (664)
ML 3.5 (BJI).

XAN	1.80	243	iPnd	49	12.80	1.2
			Pg	49	15.80	
			Sn	49	35.60	
			Sg	49	40.00	
TIY	3.11	24	ePn	49	29.40	-1.0
			Pg	49	36.80	
			Sg	50	15.10	
TIA	5.29	74	ePg	50	11.90	10.7X
			eSg	51	20.40	
BTO	5.76	354	Pg	50	25.80	17.9X
			Sg	51	38.40	
HHC	6.00	5	iPg	50	28.00	16.7X
			Sg	51	45.00	
BJI	6.68	38	ePn	50	22.50	1.8
			ePg	50	45.00	
CD2	7.15	238	Pn	50	26.00	-1.5
NJ2	7.25	111	Pc	50	28.00	-0.8
GVA	9.12	204	P	50	54.60	-0.4
			S	52	30.00	
GTA	9.91	300	eP	51	04.50	-1.4
	1.0s		5.00nm			4.9mb
WMO	19.97	304	eP	53	14.70	-0.8
			pP	53	21.50	26kmX
GUN	22.39	259	P	53	41.20	0.6
KKN	22.92	259	P	53	47.00	1.3
GKN	23.35	260	P	53	50.60	0.8
S.D. = 1.3 on 11 of 14 obs.						

? FEB 19, 1993 13h 02m 23.62±0.87s
40.612 N ± 10.9km 29.861 E ± 7.1km
DEPTH = 5.0km (geophysicist)

TURKEY (366)
MD 2.5 (ISK).

EYL	0.23	101	iPg	02	28.40	0.1
			iSg	02	30.80	
HRT	0.26	325	iPg	02	28.80	0.0
YLV	0.37	263	iPg	02	31.20	0.0
			eSg	02	37.00	
GPA	0.47	133	ePg	02	33.00	-0.1
			eSg	02	38.20	
S.D. = 0.1 on 4 of 4 obs.						

? FEB 19, 1993 14h 07m 02.40±0.74s

42.925 N ± 11.2km 140.903 E ± 21.4km
DEPTH = 33.0km (normol)

4.6mb (5 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT	6.70	199	iPc	08	41.10	0.0
	0.6s		8.00nm			4.7mb
IMA	41.91	34	eP	14	51.30	0.2
FBA	44.42	35	eP	15	11.10	-0.3
	1.0s		8.00nm			4.5mb
KAF	62.93	331	iP	17	27.30	0.0
	0.4s		1.60nm			4.5mb
NUR	64.60	331	iP	17	38.20	-0.1
	0.2s		2.80nm			5.0mb
NB2	68.62	336	P	18	04.00	0.1
	0.5s		2.00nm			4.5mb
S.D. = 0.2 on 6 of 6 obs.						

FEB 19, 1993 14h 08m 41.66±0.51s
2.058 N ± 7.3km 97.264 E ± 7.4km
DEPTH = 23.4km (4 depth phases)
4.8mb (17 obs.) 4.3msz (3 obs.)
NORTHERN SUMATERA, INDONESIA (706)

KLM	4.50	77	eP	10	03.00	12.9X
IPM	4.51	56	iPc	09	51.60	1.2
			e	10	11.50	
			iS	11	04.00	
KGM	6.05	90	ePd	10	13.70	1.7
			e	11	39.80	
SNG	6.08	33	eP	10	14.20	1.7
	1.0s		260.00nm			5.9mb X
NNT	10.75	13	eP	11	18.30	1.0
CHTO	16.73	6	eP	12	36.50	0.2
KKM	19.31	78	ePd	13	08.00	-0.3
GSA	22.72	301	Pd	13	47.20	4.0X
	0.9s		6.00nm			4.1mb
KMI	23.53	13	Pc	13	51.00	-0.4
	1.5s		50.00nm			4.8mb
	Z 16s		1.30um			4.5mszX
	E 12s		0.60um			
			pP	14	03.50	50kmX
GVA	25.89	20	P	14	14.00	0.2
	Z 22s		0.63um			4.1msz
GUN	27.92	338	P	14	33.60	1.0
	0.6s		17.00nm			5.0mb
DMN	27.95	336	P	14	33.80	1.0
KKN	28.04	337	P	14	34.40	0.8
	1.1s		44.00nm			5.1mb
GKN	28.48	336	P	14	38.60	1.1
XAN	33.63	18	P	15	20.50	-2.2
	1.0s		25.00nm			5.1mb
			pP	15	27.60	24km
LZH	34.40	9	eP	15	27.50	-2.0
	1.5s		16.00nm			4.7mb
	Z 20s		0.50um			4.2msz
	E 10s		0.23um			
GTA	37.25	3	eP	15	52.80	-0.7
	1.0s		6.00nm			4.4mb
			pP	16	03.50	37kmX
TIY	38.12	20	eP	15	59.40	-1.4
	Z 16s		0.83um			4.6mszX
	N 14s		0.39um			
BJI	41.52	22	eP	16	29.00	0.2
	0.8s		28.00nm			5.0mb
WRA	42.44	123	P	16	36.70	0.0
	0.5s		3.10nm			4.3mb
WMO	42.45	350	P	16	37.50	1.0
	1.0s		7.40nm			4.4mb
			pP	16	46.50	30km
WB2	42.45	123	iPc	16	36.20	-0.6
	0.8s		12.80nm			4.7mb
			i	16	41.40	17km
SNY	46.12	27	eP	17	04.60	-1.3
	0.8s		13.00nm			4.9mb
CN2	48.52	27	P	17	23.50	-1.2
	1.0s		12.00nm			4.9mb
	Z 22s		0.63um			4.6msz
			epP	17	39.60	63kmX
MAIO	48.76	319	eP	17	27.00	0.1
MDJ	51.09	29	eP	17	44.00	-0.4
CMS	56.87	130	eP	18	27.50	0.2
BRS	60.87	123	eP	18	55.00	-0.1
YAK	64.58	16	eP	19	17.00	-2.1
	1.0s		40.00nm			5.5mb
MTD	67.42	251	iPc	19	37.30	-0.8
BUL	70.75	248	eP	20	00.00	1.3

0.6s 6.67nm 4.9mb
OBN 71.91 328 eP 20 19.00 14.2X
1.5s 35.00nm

BCAO	78.61	274	iPc	20	21.00	6kmX
	0.5s		8.00nm			5.0mb
GEC2	84.21	319	P	21	12.30	-0.4
	1.3s		5.35nm			4.6mb
			e	21	19.20	22km
S.D. = 1.1 on 31 of 34 obs.						

? FEB 19, 1993 14h 13m 57.47±1.87s
17.989 N ± 20.4km 76.775 W ± 10.0km
DEPTH = 10.0km (geophysicist)
JAMAICA REGION (86)
MD 3.2 (HOJ). Felt at Moront Boy.

HOJ	0.03	62	iP	13	59.71	0.3
			S	14	07.17	
GWJ	0.09	22	iP	13	59.63	-0.6
			S	14	06.41	
STH	0.10	337	iP	14	00.63	0.5
			S	14	08.50	
SPJ	0.75	271	iP	14	11.99	-0.2
			S	14	25.10	
S.D. = 0.8 on 4 of 4 obs.						

? FEB 19, 1993 14h 30m 24.89±9.43s
34.516 S ± 59.1km 71.811 W ± 50.3km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.8 (SAN).

LNV	0.65	31	iP	30	37.96	0.4
			iS	30	46.85	
LCCN	1.06	11	iP	30	43.16	-0.2
CACH	1.08	69	iP	30	44.00	0.1
			iS	30	57.75	
CHCH	1.12	59	iP	30	44.43	0.0
			iS	30	58.65	
TACH	1.13	40	iP	30	44.33	-0.1
			iS	30	58.03	
PCH	1.40	51	iP	30	48.15	-0.2
			iS	31	06.23	
PEL	1.66	35	(P)	30	52.00	-0.1
			iS	31	12.44	
ROCH	1.68	24	eP	30	52.88	0.3
			iS	31	14.51	
FCH	1.73	47	iP	30	53.29	-0.2
			iS	31	13.90	
S.D. = 0.3 on 9 of 9 obs.						

? FEB 19, 1993 14h 42m 58.80±4.27s
43.404 N ± 39.0km 6.424 E ± 9.7km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)

CDR	0.55	300	ePg	43	09.70	-0.2
			i(Sg)	43	16.30	
DOI	1.25	28	P	43	21.40	-0.7

(43)

PLM 0.95 180 eS 36 49.58
ePd 36 45.23 -1.1
eS 36 58.06
GSC 0.99 3 ePd 36 45.93 -1.1
ISA 1.90 316 ePn 37 00.94 -0.1
GLA 2.11 126 ePnd 37 01.90 -2.2
ePg 37 06.70
BCH 2.80 289 ePn 37 12.59 -1.5
PHAM 3.28 299 (P) 37 19.20 -1.6
MTUM 3.34 336 (Pn) 37 22.94 1.1
TNP 3.78 356 (Pn) 37 27.16 -0.9
10 obs. associated

? FEB 19, 1993 17h 45m 00.32 ± 2.48s
37.987 N ± 15.0km 27.072 E ± 21.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.0 (ISK).

IZM 0.44 20 iPg 45 08.00 -1.2
iSg 45 12.30
CIN 0.89 115 ePg 45 17.00 -0.4
iSg 45 29.00
EZN 1.93 343 ePn 45 33.20 -0.2
DST 2.02 36 ePn 45 36.00 1.1
KCT 2.47 23 ePn 45 42.00 0.7
S.D. = 1.3 on 5 of 5 obs.

* FEB 19, 1993 18h 01m 54.51 ± 0.98s
43.767 N ± 10.2km 18.259 E ± 11.0km
DEPTH = 5.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
ML 2.4 (TTG).

BRY 0.89 166 iPg 02 10.85 -1.3
iSg 02 25.28
PLE 0.93 118 iPg 02 11.96 -0.9
iSg 02 26.57
NKY 1.10 150 iPg 02 15.03 -0.6
iSg 02 31.95
HCY 1.33 172 iPg 02 19.37 -0.2
iSg 02 39.57
IVA 1.49 126 iPg 02 21.89 -0.2
iSg 02 45.12
TTG 1.52 151 iPnd 02 22.72 0.3
iSn 02 46.33
BDV 1.54 164 iPnd 02 23.07 0.4
iSn 02 46.85
PVY 1.72 132 iPnc 02 26.57 1.2
iSn 02 52.57
ULC 1.94 158 iPnc 02 30.04 1.5
iSn 02 58.31
VBY 2.76 310 iPn 02 40.00 -0.2
eSn 03 14.50
S.D. = 1.0 on 10 of 10 obs.

* FEB 19, 1993 19h 26m 29.83 ± 0.96s
6.261 S ± 8.5km 147.380 E ± 9.9km
DEPTH = 48.3 ± 9.4 km
4.5mb (7 obs.) 3.9Msz (1 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

FINC 0.59 127 P 26 43.90 1.8
YYYY 1.40 271 eP 26 50.90 -2.6
eS 27 11.80
MDG 1.88 302 eP 27 00.00 -0.1
eS 27 25.90
PMG 3.13 184 eP 27 17.00 -0.9
MNDI 3.70 271 eP 27 28.00 1.8
CTA 13.79 184 iPc 29 49.50 4.9X
WB2 18.58 222 eP 30 41.10 -4.3X
GUMO 19.88 353 eP 30 59.20 -0.9
PJG 19.88 353 eP 30 58.60 -1.5
RMO 20.16 176 eP 31 04.70 1.7
1.0s 19.00nm 4.4mb
ASPA 21.62 215 iPd 31 18.00 0.1
0.4s 7.50nm 4.4mb
Z 19s 0.50nm 3.9Msz
eS 35 12.00
DZM 24.21 132 iPc 31 40.70 -2.7
ARMA 24.36 171 eP 31 47.60 2.8X
0.7s 5.00nm 4.2mb
STK 26.06 191 eP 32 00.00 -0.6
0.4s 1.20nm 3.8mb
SSE 44.80 327 eP 34 42.00 1.2
IPM 47.52 282 ePd 35 03.00 0.3
SNY 52.57 338 eP 35 41.00 0.2

XAN 54.12 320 P 35 52.50 0.1
1.0s 8.50nm 4.7mb
sP 36 03.80
BJI 54.31 331 eP 35 53.00 -0.6
1.4s 29.00nm 5.1mb
GUN 68.33 303 P 37 29.60 0.6
KKN 68.78 303 P 37 32.20 0.5
DMN 68.87 303 P 37 33.00 0.7
GKN 69.39 303 P 37 34.80 -0.5
YAK 69.43 351 eP 37 36.20 1.5
1.4s 30.00nm 5.0mb
GBA 72.17 286 Pd 37 53.00 0.9
WMO 73.23 319 eP 37 54.00 -4.0X
KIC 152.29 272 PKP 46 14.80 -1.1
S.D. = 1.4 on 23 of 27 obs.

* FEB 19, 1993 19h 27m 46.79 ± 2.61s
37.934 N ± 16.1km 26.712 E ± 18.5km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)
MD 3.3 (ISK).

IZM 0.63 43 iPg 27 59.40 -0.2
eSg 28 05.00
CIN 1.14 107 eP 28 08.00 -0.1
EZN 1.91 351 iPn 28 19.80 0.1
DST 2.24 41 ePn 28 25.50 1.0
EDC 2.57 20 ePn 28 29.00 -0.1
BNT 2.59 21 ePn 28 29.50 0.0
KCT 2.64 28 ePn 28 29.50 -0.7
S.D. = 0.6 on 7 of 7 obs.

* FEB 19, 1993 19h 39m 58.96 ± 2.88s
37.909 N ± 18.0km 26.717 E ± 20.2km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)
MD 3.0 (ISK).

IZM 0.65 41 iPg 40 11.40 -0.6
iSg 40 18.40
CIN 1.13 105 eP 40 20.00 -0.1
EZN 1.94 351 ePn 40 32.00 -0.2
DST 2.26 41 ePn 40 37.50 0.5
KCT 2.66 28 ePn 40 43.00 0.3
S.D. = 0.6 on 5 of 5 obs.

* FEB 19, 1993 19h 56m 31.26 ± 0.66s
31.577 S ± 9.1km 67.877 W ± 5.7km
DEPTH = 11.9 ± 6.7 km

SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.31 264 iPc 56 37.50 -0.4
S 56 42.00
RTLL 0.56 296 ePc 56 41.70 -0.9
RTCV 0.63 243 iPd 56 42.70 -1.1
S 56 53.50
RTCB 0.79 276 ePc 56 47.50 0.9
RTBS 1.35 266 ePc 56 56.90 1.1
S 57 15.00
MDZ 1.54 212 i(P) 57 02.30 3.7X
RTPR 1.73 43 ePc 57 00.70 -0.6
eS 57 22.90
MRA 2.02 115 e(P) 57 06.20 0.7
S 57 30.00
TCA 2.82 86 iP 57 16.00 -1.0
(S) 57 48.00
PEL 2.84 236 eP 57 22.00 4.7X
RFA 3.22 189 ePd 57 22.70 0.0
i 57 31.20
S 58 07.80
CYA 3.61 31 eP 57 28.90 0.7
S.D. = 1.0 on 10 of 12 obs.

? FEB 19, 1993 20h 01m 47.31 ± 5.06s
33.738 S ± 11.0km 71.897 W ± 35.8km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)
MD 3.6 (SAN).

LCCH 0.38 46 iP 01 55.75 0.7
iS 02 02.19
LNV 0.46 118 iP 01 56.99 0.3
iS 02 04.24
TACH 0.80 84 iP 02 02.64 -0.3
CHCH 1.05 101 eP 02 06.58 -0.6
iS 02 22.00
ROCH 1.06 44 iP 02 07.40 -0.1

S 02 22.42
CACH 1.14 110 iP 02 09.72 0.9
iS 02 26.96
PCH 1.16 85 iP 02 00.40 -0.6
iS 02 23.86
PEL 1.17 60 iP 02 09.76 0.5
iS 02 25.33
FCH 1.40 73 iP 02 12.60 -0.6
iS 02 33.04
JACH 1.52 46 iP 02 14.47 -0.1
iS 02 35.52
S.D. = 0.7 on 10 of 10 obs.

FEB 19, 1993 20h 56m 00.55 ± 0.94s
49.189 N ± 8.8km 6.782 E ± 7.6km
DEPTH = 10.0km (geophysicist)

GERMANY (543)
MD 2.8 (UCC).

RUP 0.54 19 ePg 56 10.79 -0.8
WLF 0.63 319 iPd 56 13.63 0.5
iS 56 23.12
ABH 0.85 35 ePg 56 15.85 -1.2
TNS 1.50 46 ePnc 56 29.60 2.1
iSn 56 47.90
iSg 56 51.90
FEL 1.55 148 ePg 56 27.73 -0.6
DOU 1.69 303 P 56 30.70 0.5
i 56 33.10
SNF 2.09 310 eP 56 35.30 -0.7
GRF 2.94 78 e(Pg) 56 55.40 7.2X
eSg 57 32.50
KHC 4.46 88 eP 57 10.00 0.2
e 57 30.00
e 57 55.50
eSg 58 18.00
e 58 26.00
S.D. = 1.2 on 8 of 9 obs.

FEB 19, 1993 21h 51m 24.95 ± 1.03s
5.776 N ± 6.1km 126.204 E ± 7.9km
DEPTH = 123.0 ± 9.7 km
4.7mb (20 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

DAV 1.45 334 iPd 51 51.60 -0.7
iS 52 12.90
TSM 8.43 260 eP 53 26.00 0.3
KKM 9.94 272 eP 53 48.50 2.4
KGM 23.13 262 eP 56 22.00 0.8
IPM 25.10 268 ePd 56 40.00 0.0
0.8s 31.30nm 4.8mb
PMG 25.76 126 eP 56 45.00 -1.0
0.9s 33.61nm 4.9mb
WRA 26.78 163 P 56 55.29 0.0
WB2 26.79 163 eP 56 53.80 -1.6
i 56 57.60
ASPA 30.21 166 P 57 26.10 0.1
WARB 31.77 179 eP 57 39.00 -0.6
XAN 32.37 333 P 57 43.50 -1.3
0.7s 7.30nm 4.6mb
CTA 32.39 143 P 57 48.90 3.8X
CTA 32.39 143 iP 57 43.00 -2.1
i 57 48.00
i 57 54.00
MEEK 33.05 193 iPd 57 49.10 -1.7
TIY 34.18 340 eP 57 58.40 -2.0
BJI 35.29 347 eP 58 10.00 0.3
1.0s 11.00nm 4.6mb
SNY 35.97 357 P 58 16.80 1.3
0.8s 19.00nm 5.0mb
LZH 36.49 329 eP 58 20.00 -0.1
1.5s 22.00nm 4.8mb
STK 40.22 160 iPc 58 51.40 0.4
0.5s 4.70nm 4.5mb
GTA 41.09 328 eP 58 58.00 -0.2
1.0s 5.00nm 4.2mb
BRS 41.80 143 iP 59 04.00 -0.1
0.9s 8.00nm 4.5mb
i 59 12.00
ARMA 43.46 147 eP 59 18.70 1.1
0.3s 4.00nm 4.6mb
GUN 44.12 305 P 59 23.00 -0.4
KKN 44.57 304 P 59 26.00 -0.8
0.7s 18.00nm 4.9mb
DMN 44.65 304 P 59 26.80 -0.7
0.8s 27.00nm 5.0mb

19d 21h

BWA 45.15 154 eP 59 33.20 2.1
 GKN 45.18 304 P 59 30.80 -0.7
 0.7s 18.00nm 4.9mb
 CAN 46.17 154 eP 59 40.30 1.3
 GBA 48.62 283 P 59 59.00 0.6
 WMO 50.76 324 eP 00 14.00 -0.5
 YAK 56.18 2 eP 00 47.00 -6.9X
 0.7s 40.00nm 5.5mb
 KSH 56.21 314 P 00 55.40 0.7
 MAIO 67.87 307 iPd 02 11.60 -0.8
 IMA 80.74 24 ePd 03 27.75 2.0
 0.9s 3.89nm 4.2mb
 SLKM 81.84 30 eP 03 32.01 0.6
 FBA 83.11 25 eP 03 38.79 0.9
 0.7s 3.49nm 4.4mb
 KLU 83.95 29 eP 03 44.12 1.8
 OBN 85.08 325 iPd 03 48.00 0.0
 1.0s 18.00nm 4.9mb
 KAF 89.55 332 eP 04 08.30 -1.1
 0.7s 5.80nm 4.8mb
 NB2 96.73 334 P 04 41.20 -1.3
 0.7s 2.50nm 4.8mb
 YKA 97.86 24 eP 04 48.10 0.6
 0.8s 0.80nm 4.3mb
 KIC 129.58 283 PKP 10 22.50 0.5
 TIC 129.78 284 PKP 10 22.10 -0.3
 LIC 129.88 283 PKP 10 22.60 0.1
 TCA 152.63 160 ePKP 11 10.30 8.6X
 S.D. = 1.1 on 42 of 45 obs.

& FEB 19, 1993 23h 57m 28.52s
 34.599 N 116.634 W
 DEPTH = 4.2km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.6 (PAS).

GSC 0.71 349 iPd 57 41.93 -0.9
 PEC 0.83 212 ePc 57 43.79 -1.3
 eS 57 54.73
 SSK 0.96 246 eP 57 46.19 -1.2
 PLM 1.26 189 eP 57 51.68 -0.8
 ISA 1.84 306 ePn 58 00.58 -0.7
 GLA 2.15 135 ePn 58 06.02 0.3
 ePg 58 08.64
 BONR 3.61 339 (Pg) 58 35.23 8.6
 7 obs. associated

FEB 20, 1993 00h 31m 53.30 ± 0.39s
 7.740 S ± 6.0km 22.213 E ± 12.4km
 DEPTH = 15.7km (3 depth phases)
 4.8mb (13 obs.)
 ZAIRE (567)

BCAO 12.64 343 iPc 34 48.30 -7.0X
 0.5s 20.00nm 5.6mb
 iS 36 55.20
 Lg 38 30.10
 BUL 13.80 154 iPn 35 09.20 -1.6
 iSn 37 08.10
 WIN 15.54 198 iPd 35 32.50 -1.2
 S 38 37.00
 NAI 15.89 67 ePc 35 35.50 -2.8
 KSR 18.57 167 iPd 36 13.00 1.2
 S 39 46.00
 BFT 19.35 158 iPd 36 23.50 2.2
 (S) 38 52.50
 PRY 19.73 166 eP 36 26.00 0.5
 S 40 14.00
 SEK 21.10 167 iPd 36 40.50 0.7
 S 40 30.00
 BLF 21.58 171 eP 36 44.00 -0.7
 S 41 21.00
 FRS 22.09 173 iPc 36 49.60 0.1
 (S) 40 07.00
 CER 25.64 186 eP 37 30.00 6.1X
 S 42 28.00
 LIC 30.51 296 P 38 05.80 -2.4
 Z 20s 0.14um 3.6msz
 TIC 30.69 297 P 38 07.50 -2.3
 VAY 48.82 0 eP 40 40.00 0.3
 EPF 54.31 340 eP 41 22.90 1.7
 0.8s 10.50nm 4.9mb
 LPG 54.78 347 eP 41 24.50 -0.5
 LPO 55.52 342 eP 41 30.50 0.5
 LFF 55.89 342 eP 41 33.90 1.3
 0.9s 19.00nm 5.1mb
 RJF 55.98 342 eP 41 33.70 0.4

1.0s 11.00nm 4.8mb
 MAF 56.51 344 eP 41 37.80 0.7
 SMF 56.56 345 eP 41 37.50 0.0
 0.8s 7.00nm 4.7mb
 AVF 56.83 345 eP 41 39.60 0.3
 0.9s 9.50nm 4.8mb
 GEC2 56.84 353 P 41 32.80 -6.7X
 0.7s 0.33nm 3.5mb X
 e 41 37.80 16km
 e 41 46.20
 LBF 56.84 345 eP 41 39.80 0.3
 0.8s 4.55nm 4.6mb
 BSF 56.99 348 eP 41 40.30 -0.3
 0.9s 7.85nm 4.7mb
 SSF 57.04 345 eP 41 40.70 -0.1
 0.7s 4.20nm 4.6mb
 KHC 57.13 353 eP 41 41.00 -0.5
 e 41 47.50 21km
 e 41 50.00
 e 43 15.00
 LOR 57.14 345 eP 41 42.00 0.4
 CDF 57.44 348 eP 41 43.30 -0.4
 0.8s 5.65nm 4.6mb
 MFF 57.65 342 eP 41 46.30 1.2
 1.0s 12.40nm 4.9mb
 GRF 57.99 352 e(P) 41 50.60 3.1X
 e 41 53.50 10km
 GRR 59.47 342 eP 41 58.70 0.9
 0.6s 5.95nm 4.9mb
 NB2 69.11 354 P 43 07.80 7.3X
 0.6s 1.90nm 4.4mb
 KAF 69.71 2 eP 43 10.00 5.9X
 S.D. = 1.3 on 28 of 34 obs.

% FEB 20, 1993 01h 22m 15.67 ± 0.52s
 40.066 N ± 4.2km 29.306 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

YLV 0.50 6 iPg 22 25.80 -0.1
 DST 0.70 229 iPg 22 29.30 -0.2
 iSg 22 38.30
 KCT 0.75 284 ePg 22 30.50 0.1
 eSg 22 41.50
 HRT 0.80 20 iPg 22 31.00 -0.3
 EYL 0.82 52 ePg 22 32.00 0.4
 ISK 1.02 349 iPg 22 35.00 0.1
 BNT 1.10 286 ePg 22 36.60 0.3
 EDC 1.14 285 ePg 22 37.00 0.0
 ALT 1.19 148 ePn 22 37.80 -0.1
 CTT 1.27 329 iPn 22 39.00 -0.2
 S.D. = 0.2 on 10 of 10 obs.

FEB 20, 1993 01h 47m 55.31 ± 0.36s
 10.657 S ± 6.2km 162.284 E ± 8.7km
 DEPTH = 28.2km (3 depth phases)
 5.0mb (22 obs.) 4.8msz (8 obs.)
 SOLOMON ISLANDS (193)

BKM 9.05 141 iPd 50 05.30 -1.9
 DZM 12.03 161 iPc 50 48.80 0.8
 iS 52 58.10
 PMG 14.95 273 eP 51 30.00 3.5X
 CTA 18.06 237 iPc+ 52 08.00 1.9
 1.5s 201.39nm 5.0mb
 i 52 15.00
 eS 55 36.00
 BRS 18.90 207 iPc+ 52 16.00 -0.3
 1.9s 11.00nm 3.8mb X
 iP 52 23.00
 i 52 33.00
 eS 55 57.00
 RMO 20.28 217 iPd 52 32.20 0.6
 1.2s 563.00nm 5.8mb
 ARMA 22.02 205 iPc 52 50.60 1.2
 1.0s 29.00nm 4.7mb
 CMS 25.73 214 eP 53 25.50 0.4
 WB2 28.44 248 iPc 53 48.00 -2.1
 0.7s 8.80nm 4.6mb
 WRA 28.45 248 P 53 49.20 -0.9
 STK 28.49 219 eP 53 50.80 0.4
 0.5s 4.20nm 4.4mb
 GUMO 29.65 324 eP 54 02.80 1.9
 ASPA 29.97 241 eP 54 01.80 -2.0
 1.0s 6.70nm 4.4mb
 Z 19s 1.30um 4.6msz

MEEK 44.08 243 eP 56 03.00 0.0
 0.4s 10.00nm 5.0mb
 BAL 46.66 238 eP 56 23.50 0.0
 BAG 49.25 303 eP 56 42.90 -1.0
 MAT 52.13 335 (P) 57 05.00 -0.4
 0.9s 8.40nm 4.7mb
 Z 20s 0.71um 4.7msz
 eS 04 20.00
 MDJ 62.47 334 eP 58 21.00 2.6
 SNY 63.18 328 eP 58 26.00 2.9
 Z 18s 0.65um 4.8msz
 S 06 54.00
 CN2 63.71 331 Pc 58 25.00 -1.6
 1.0s 14.00nm 5.0mb
 Z 18s 0.60um 4.8msz
 N 13s 0.54um
 E 13s 0.27um
 BJI 66.08 323 eP 58 41.00 -1.0
 Z 22s 0.62um 4.8msz
 eS 07 30.00
 XAN 67.37 314 P 58 48.50 -1.9
 pP 58 58.00 30km
 sP 59 04.70
 KMI 68.03 303 eP 58 54.00 -1.0
 1.9s 50.00nm 5.3mb
 HHC 69.37 321 eP 59 02.00 -0.8
 CD2 69.68 309 eP 59 06.80 2.0
 BTO 70.18 320 eP 59 07.00 -0.8
 LZH 72.00 313 eP 59 17.80 -1.1
 2.0s 41.00nm 5.1mb
 Z 22s 0.61um 4.8msz
 pP 59 27.50 31km
 sP 59 34.00
 GTA 76.36 315 eP 59 43.00 -1.0
 1.6s 27.00nm 5.0mb
 Z 22s 0.70um 4.9msz
 YAK 76.78 345 eP 59 45.00 -0.7
 0.8s 63.00nm 5.7mb
 SVW 78.83 19 eP 59 57.72 0.6
 1.2s 48.80nm 5.4mb
 RSO 79.33 21 eP 59 59.26 -0.8
 SPA 79.41 180 iPd 00 04.10 3.8X
 1.3s 34.17nm 5.2mb
 IRK 79.90 328 eP 00 05.00 2.0
 1.4s 24.00nm 5.0mb
 Z 17s 0.22um 4.6msz X
 e 00 12.30 23km
 LR 31 44.00
 TTA 80.07 18 eP 00 04.03 0.2
 0.9s 6.53nm 4.6mb
 SLKM 80.27 22 eP 00 04.49 -0.4
 PMR 81.40 21 eP 00 10.23 -0.4
 1.5s 41.49nm 5.2mb
 IMA 83.08 17 eP 00 18.96 -0.6
 1.3s 11.86nm 4.9mb
 GUN 83.17 300 P 00 20.80 -0.3
 BALM 83.60 24 eP 00 22.30 0.1
 KKN 83.65 300 P 00 23.60 0.3
 DMN 83.75 299 P 00 24.00 0.1
 FBA 84.04 19 iPc 00 23.59 -0.7
 0.7s 13.83nm 5.3mb
 GKN 84.25 300 P 00 25.40 -0.9
 0.6s 12.00nm 5.3mb
 WMO 86.43 316 P 00 36.00 -0.7
 Z 20s 0.54um 4.9msz
 SKS 10 52.00
 LCCM 94.67 44 eP 01 16.30 1.0
 YKA 96.20 28 eP 01 20.30 -1.4
 0.8s 1.60nm 4.5mb
 NB2 125.40 343 PKP 07 03.30 8.3X
 0.9s 3.26nm
 GEC2 133.80 332 PKP 07 11.30 -0.2
 0.9s 0.89nm
 e 07 18.50
 e 15 46.80
 e 15 50.50
 e 16 01.90
 e 16 33.50
 e 16 49.40
 BCAA 143.56 263 iPKPc 07 26.00 -4.2X
 0.8s 11.00nm
 ic 07 50.40
 id 08 40.50
 EGRA 145.08 337 ePKP 07 31.70 -0.2
 ECR1 145.51 340 iPKPd 07 33.80 1.0
 EROQ 145.96 335 ePKP 07 35.00 1.5
 ETOR 146.93 338 iPKPd 07 37.40 2.2

GUD 147.82 340 ePKP 07 40.00 3.4X
 EPLA 148.95 343 ePKP 07 43.60 5.2X
 EALH 149.21 334 ePKP 07 50.60 11.8X
 SOB1 149.65 130 (PKP) 07 41.00 0.9
 EHUE 149.74 336 ePKP 07 44.60 4.9X
 ENIJ 150.30 334 ePKP 07 51.40 10.9X
 ECOG 150.59 337 ePKP 07 45.50 4.5X
 ELUO 150.61 338 ePKP 07 46.90 5.9X
 EGUA 150.97 336 ePKP 07 45.60 4.1X
 EVAL 151.43 342 ePKP 07 47.00 4.9X
 EPRU 151.48 339 ePKP 07 50.00 7.7X
 S.D. = 1.3 on 50 of 64 obs.

FEB 20, 1993 01h 57m 09.14±0.36s
 52.839 S ± 8.9km 73.232 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 5.3mb (21 obs.)

KERGUELEN ISLANDS REGION (433)

CRZF 15.23 286 eP 00 45.00 -0.6
 MAW 15.64 195 e(P) 00 45.00 -5.9X
 0.6s 40.70nm 4.8mb

NVL 32.19 213 eP 03 38.00 -0.8
 1.0s 18.00nm 5.0mb
 03 53.00

SPA 37.34 180 iPc 04 25.00 1.8
 1.1s 119.05nm 5.6mb

WIN 51.99 283 eP 06 17.00 -3.8X
 1.5s 69.44nm 5.4mb

STK 52.54 95 eP 06 23.80 -0.8
 1.0s 5.80nm 4.5mb

ASPA 53.86 82 P 06 34.70 0.3
 WRA 56.96 79 P 06 55.80 -1.1
 0.8s 3.60nm 4.5mb

WB2 56.96 79 iPc 06 55.30 -1.7
 0.9s 15.20nm 5.0mb

ARMA 59.61 101 eP 07 16.00 0.5
 0.8s 6.00nm 4.8mb

NAI 59.63 317 iPd 07 16.50 0.6
 2.0s 294.12nm 6.1mb

RMQ 60.75 96 iPd 07 23.30 0.1
 1.2s 38.00nm 5.4mb

SNG 64.16 30 eP 07 45.50 -0.4
 GBA 66.27 4 Pc 07 58.00 -1.4

HYB 70.11 5 eP 08 23.00 -0.4
 1.0s 30.00nm 5.4mb

KHT 70.81 26 eP 08 28.30 0.6
 NST 72.08 27 eP 08 37.50 2.3

CHTO 74.76 25 ePc 08 50.60 -0.3
 1.0s 19.50nm 5.1mb

DMN 80.77 11 P 09 24.00 -0.2
 KKN 80.97 11 P 09 24.60 -0.6

GKN 81.11 10 P 09 24.80 -1.0
 GUN 81.16 11 P 09 26.20 -0.1

KMI 81.78 27 Pd 09 30.50 1.0
 1.8s 100.00nm 5.6mb

OUE 82.86 355 eP 09 37.00 2.1
 LSA 83.67 16 iPc 09 40.00 0.6

1.2s 65.00nm 5.7mb
 GYA 84.17 30 P 09 41.80 0.2

1.2s 16.00nm 5.1mb
 CD2 87.55 26 eP 09 58.40 0.3

KIC 87.81 283 P 09 59.26 -0.4
 0.9s 20.00nm 5.5mb

LIC 87.87 283 P 10 00.40 0.4
 0.9s 24.50nm 5.5mb

TIC 88.21 283 P 10 01.08 -0.5
 0.9s 33.50nm 5.7mb

MBH 88.80 327 eP 10 04.10 0.0
 ARVI 89.52 328 eP 10 07.50 0.1

MAIO 89.57 349 eP 10 07.00 -0.7
 JVI 90.65 329 eP 10 12.70 0.0

XAN 91.94 29 P 10 21.50 3.0X
 KSH 91.95 2 eP 10 19.50 0.9

1.0s 20.00nm 5.4mb
 LZH 92.48 24 eP 10 21.50 0.3

1.8s 30.00nm 5.4mb
 GTA 94.73 20 P 10 31.50 0.1

1.5s 11.00nm 5.0mb
 SIV 100.95 225 ePd iff 11 03.00 3.0X

NB2 123.77 329 PKP 16 06.10 -1.3
 0.9s 3.20nm

GDH 150.71 324 ePKP 17 00.00 4.4X
 BRW 151.44 31 ePKP 16 59.66 3.0X

LMN 152.11 273 ePKP 17 08.50 10.0X
 TTA 152.63 49 ePKP 17 05.46 6.7X

IMA 153.49 42 ePKP 17 06.42 6.5X

RES 157.54 352 ePKP 17 19.00 14.1X
 S.D. = 0.9 on 36 of 46 obs.

% FEB 20, 1993 02h 08m 48.44±0.67s
 32.108 S ± 8.7km 68.363 W ± 8.1km
 DEPTH = 100.0km (geophysicist)

MENDOZA PROVINCE, ARGENTINA (139)

CFA 0.51 12 ePc 09 04.90 0.3
 S 09 17.00

RTCB 0.72 329 iPc 09 06.20 -0.2
 RTLL 0.78 353 ePd 09 06.50 -0.4

RTBS 1.03 295 iPc 09 09.70 0.3
 MRA 2.27 98 e(P) 09 26.00 0.9

S 09 54.20
 RTPR 2.40 42 e(P) 09 27.30 0.5

RFA 2.66 182 ePd 09 30.20 -0.2
 TCA 3.30 78 iPc 09 38.00 -1.2

(S) 10 15.50
 S.D. = 0.8 on 8 of 8 obs.

FEB 20, 1993 02h 31m 09.00±0.41s
 44.709 N ± 4.2km 18.535 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
 MD 3.5 (TRI).

BEO 1.37 85 ePg 31 34.70 0.6
 0.8s 0.30nm

PLE 1.51 155 iPg 31 34.03 -2.2
 iSg 31 48.85

BRY 1.81 180 iPg 31 39.57 -1.0
 iSg 31 58.43

UZD 1.88 1 ePn 31 41.70 0.2
 NKY 1.92 170 iPg 31 41.63 -0.6

IVA 2.09 151 iPg 31 45.43 0.9
 iSg 32 07.97

HVAR 2.15 225 iPnc 31 45.00 -0.3
 iSg 32 12.50

TTG 2.34 167 iPnd 31 48.03 0.0
 iSn 32 13.54

PVY 2.36 153 iPnd 31 49.55 1.1
 iSn 32 14.79

BDV 2.43 175 iPnc 31 50.63 1.2
 iSn 32 15.75

VBY 2.45 290 ePn 31 54.90 5.2X
 iSn 32 27.90

ULC 2.79 169 iPnc 31 55.02 0.4
 iSn 32 24.95

BUD 2.80 7 ePn 32 05.00 10.4X
 CEY 3.08 291 e(Pn) 32 09.00 10.4X

eSn 32 44.50
 SRO 3.11 357 i(Pn) 32 02.70 3.8X

e 32 53.40
 e 32 02.30

PSZ 3.35 16 ePn 32 01.70 -0.6
 SKO 3.46 141 ePn 32 23.20 19.2X

TRI 3.52 288 e(Pn) 32 04.10 -0.7
 e(Pg) 32 13.30

e(Sn) 32 46.30
 e(Sb) 32 58.50

e(Sg) 33 03.10
 VOY 3.53 294 e(Pn) 32 05.90 0.9

eSn 32 45.00
 e 33 05.30

ZST 3.63 345 eP 32 06.00 -0.3
 RBL 3.89 298 P 32 10.00 -0.2

eSn 33 12.00
 KBA 4.33 305 ePg 32 18.00 1.5

eSg 33 07.00
 FVI 4.45 297 P 32 18.00 0.0

KHC 5.58 324 eP 32 33.40 -0.6
 e 32 41.00

e 33 16.50
 e 34 10.50

S.D. = 1.0 on 19 of 24 obs.

FEB 20, 1993 04h 02m 32.07±0.85s
 37.757 N ± 7.5km 22.294 E ± 7.7km
 DEPTH = 33.0km (normal)

SOUTHERN GREECE (368)
 MD 3.5 (ATH). ML 3.1 (THE).

ATH 1.15 79 ePn 02 53.80 2.0
 eSn 03 12.30

VLI 1.16 153 iPnc 02 51.50 -0.5
 AGG 1.26 1 ePb 02 52.94 -0.6

eSb 03 09.58
 VLS 1.41 288 ePn 02 54.50 -1.2

IGT 2.35 320 ePn 03 10.78 1.7
 eSn 03 42.38

LIT 2.34 4 ePn 03 08.22 -0.9
 eSn 03 37.66

PAIG 2.42 26 ePn 03 09.37 -0.8
 eSn 03 38.74

KZN 2.58 351 ePn 03 14.00 1.5
 KEK 2.76 316 ePn 03 14.50 -0.4

OUR 2.89 27 ePn 03 15.66 -1.1
 THE 2.92 10 ePn 03 16.86 -0.3

FNA 3.11 347 ePn 03 20.98 1.1
 eSn 03 56.10

SOH 3.17 15 ePn 03 20.38 -0.4
 GRG 3.20 1 ePn 03 20.34 -0.8

eSn 03 58.82
 KNT 3.43 8 ePn 03 23.58 -1.0

eSn 04 04.18
 OHR 3.54 341 ePn 03 27.50 1.3

VAY 3.57 3 ePn 03 27.00 0.6
 SKO 4.26 351 ePn 03 36.00 -0.2

i 04 05.80
 ALN 4.28 42 ePn 03 33.70 -2.8X

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

* FEB 20, 1993 04h 31m 19.25±1.30s
 12.316 N ± 17.9km 88.210 W ± 13.0km
 DEPTH = 33.0km (normal)

4.5mb (7 obs.)
 OFF COAST OF CENTRAL AMERICA (76)

PYN 1.16 87 eP 31 38.97 -0.3
 PYT 2.11 84 eP 31 51.51 -1.4

PRM 22.31 13 eP 36 16.02 0.5
 MIAR 22.66 348 ePc 36 19.84 0.9

1.0s 64.88nm 5.1mb
 LHS 23.07 16 eP 36 24.03 1.2

GBTN 23.53 8 eP 36 28.54 1.2
 TKL 23.58 9 eP 36 28.48 0.6

MEO 24.27 339 iPd 36 34.30 -0.3
 WMOK 24.30 338 iPd 36 35.11 0.2

1.1s 27.63nm 4.7mb
 FNO 24.31 341 iPc 36 35.30 0.3

OCO 24.58 342 iPc 36 38.60 1.0
 ELC 24.88 358 eP 36 39.57 -0.8

FVM 25.64 356 eP 36 46.40 -1.1
 0.8s 5.30nm 4.2mb

ACO 26.20 340 iPc 36 52.80 0.0
 RSSD 34.49 340 ePd 38 06.44 -0.1

0.7s 7.82nm 4.7mb
 EEO 35.07 11 eP 38 13.00 1.7

35.55 333 eP 38 15.00 -0.7
 1.2s 3.65nm 4.2mb

ULM 38.34 352 ePc 38 39.40 0.7
 SIV 38.88 136 P 38 45.20 1.5

LMN 38.88 26 eP 38 45.00 1.7
 LCCM 38.99 334 eP 38 44.80 0.4

SES 42.33 338 eP 39 11.00 -0.7
 JAO 42.56 11 eP 39 10.50 -3.0

FCC 46.57 356 eP 39 46.50 1.0
 YKA 53.55 345 eP 40 35.80 -3.0

0.8s 3.70nm 4.4mb
 RES 62.47 358 eP 41 39.50 -1.7

0.7s 2.00nm 4.4mb
 GBA 150.58 29 PKP 51 08.40 3.8X

S.D. = 1.3 on 26 of 27 obs.

? FEB 20, 1993 06h 18m 57.34±1.78s
 21.669 S ± 14.2km 68.516 W ± 11.4km
 DEPTH = 150.5 ± 57.7 km

CHILE-BOLIVIA BORDER REGION (124)

ANT 2.68 221 eP 19 41.00 -0.2
 eS 20 11.50

YJA 2.84 101 iPc 19 43.00 -0.7
 HJA 3.26 119 ePd 19 49.50 0.9

CNCB 4.86 6 iPc 20 10.70 0.5
 LPB 5.12 4 eP 20 12.00 -1.7X

(S) 21 21.00
 ZOBO 5.36 4 iP 20 17.00 -0.1

SIV 9.03 53 iPc 21 05.40 -0.3
 S 22 40.00

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

% FEB 20, 1993 06h 30m 16.42±2.04s
37.000 S ±13.9km 176.761 E ±11.4km
DEPTH = 270.7 ± 16.5 km
NORTH ISLAND, NEW ZEALAND (159)

KUZ	0.87	286	P	30	53.30	0.0
URZ	1.29	168	P	30	55.20	-0.3
			S	31	21.20	
HBZ	1.37	116	P	30	55.80	-0.2
PUZ	1.60	132	P	30	57.20	-0.6
			S	31	24.40	
PAHZ	1.87	173	eP	30	59.80	-0.1
WHH	1.89	186	P	31	00.30	0.2
NOZ	1.91	148	P	31	00.60	0.5
MOH	2.15	172	P	31	03.40	1.1
NGZ	2.36	202	eP	31	04.60	0.3
WAHZ	2.71	187	P	31	08.10	0.4
TEHZ	2.99	179	P	31	10.80	0.4
MNG	3.75	195	P	31	18.80	0.0
			S	32	04.30	
KIW	4.12	200	P	31	23.00	0.0
MTW	4.27	193	P	31	24.10	-0.6
CAW	4.31	197	P	31	24.90	-0.3
DIW	4.40	209	eP	31	26.60	0.4
BLW	4.48	193	eP	31	26.30	-0.8
MRW	4.52	200	P	31	27.20	-0.4
			S	32	20.10	
MOW	4.57	194	P	31	27.80	-0.4
ORZ	5.05	220	eP	31	34.00	0.0
THZ	5.62	211	eP	31	41.00	0.1
			S	32	45.80	
KHZ	5.95	204	P	31	44.70	-0.2
DSZ	6.10	217	eP	31	46.40	-0.4
LTZ	6.73	209	eP	31	54.30	-0.3
			eS	33	08.50	
MOZ	7.40	204	eP	32	01.80	-1.1X
			eS	33	22.50	
BWZ	9.15	213	eP	32	24.80	-0.1
ODZ	9.27	208	P	32	27.80	1.4

S.D. = 0.5 on 26 of 27 obs.

* FEB 20, 1993 06h 53m 38.26±1.36s
47.035 N ±25.3km 154.142 E ±19.8km
DEPTH = 33.0km (normal)
4.9mb (11 obs.)

KURIL ISLANDS (221)

KUSJ	7.75	243	eP	55	29.00	-2.5
			eS	56	49.20	
ASAJ	8.58	254	eP	55	44.30	1.3
HOJ	9.02	243	eP	55	47.60	-1.5
			eS	57	21.70	
TIY	31.86	268	eP	00	04.00	1.6
IMA	33.16	36	eP	00	13.80	0.3
	1.0s	4.75nm			4.3mb	
		pP	00	25.50	44kmX	
FBA	35.50	39	eP	00	34.00	0.6
	1.0s	8.50nm			4.6mb	
XAN	36.24	266	P	00	39.50	-0.5
	1.0s	78.00nm			5.6mb	
		pP	00	54.30	57kmX	
LZH	38.58	272	eP	01	00.00	0.2
	1.2s	33.00nm			5.6mb	
CD2	41.61	266	iPc	01	25.60	0.9
	1.0s	29.00nm			5.0mb	
YKA	50.27	37	eP	02	32.70	-0.2
	0.8s	0.90nm			3.8mb X	
LSA	50.96	274	P	02	40.20	1.0
	0.8s	5.00nm			4.5mb	
CHTO	52.87	257	eP	02	54.20	1.1
GUN	55.68	276	P	03	14.20	0.2
KKN	56.16	276	P	03	17.80	0.5
	0.8s	36.00nm			5.5mb	
DMN	56.40	276	P	03	19.60	0.5
	0.8s	42.00nm			5.5mb	
GKN	56.46	276	P	03	19.80	0.4
KAF	63.48	335	eP	04	05.30	-1.5
NUR	65.25	335	eP	04	17.20	-1.1
NB2	68.18	342	P	04	36.00	-1.0
	0.8s	10.40nm			5.0mb	
HFS	68.43	340	eP	04	36.60	-1.8
	0.6s	3.80nm			4.7mb	
Z	16s	228.00um			7.5mszX	
		LR	34	02.00		
CLL	76.49	336	iPd	05	26.30	0.2
	1.0s	17.00nm			5.0mb	

PRU 77.24 335 eP 05 31.20 0.9
KHC 78.29 335 eP 05 36.60 0.5
GEC2 78.51 335 P 05 37.40 0.0
S.D. = 1.1 on 24 of 24 obs.

% FEB 20, 1993 06h 57m 51.52±1.04s
32.777 S ±12.6km 70.477 W ±14.8km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.3 (SAN).

JACH	0.14	314	iP	58	06.04	0.0
			iS	58	16.26	
PEL	0.41	206	iP+	58	06.61	-0.3
			iS	58	17.69	
ROCH	0.49	246	iP	58	07.81	0.1
			iS	58	19.27	
FCH	0.57	164	iP+	58	08.58	0.1
			eS	58	20.82	
PCH	0.84	182	iP+	58	10.82	0.2
			iS	58	24.66	
TACH	0.96	204	iP	58	11.72	0.0
			iS	58	26.42	
LCCM	1.15	232	iP	58	14.21	0.3
			iS	58	30.34	
CHCH	1.16	187	iP	58	14.17	0.0
			iS	58	30.81	
LNV	1.41	213	iP	58	16.74	-0.3

S.D. = 0.2 on 9 of 9 obs.

FEB 20, 1993 07h 11m 52.12±0.33s
22.110 S ± 9.6km 174.838 W ± 7.4km
DEPTH = 43.7km (2 depth phases)
5.6mb (30 obs.) 5.5msz (47 obs.)

TONGA ISLANDS REGION (174)

Mw 5.5 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 37S, 68C

Centroid Location:

Origin Time 07:11:53.6 0.5

Lat 21.275 0.06 Lon 175.24W 0.04

Dep 15.0 BDY Half-duration 1.6

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-0.32 0.05 Mtt= 0.09 0.08

Mff= 0.22 0.08 Mrt= 0.59 0.11

Mrf= 1.90 0.11 Mtf= 1.14 0.05

Principal Axes:

T Vol= 2.53 Plg=34 Azm=304

N -0.50 26 195

P -2.02 45 76

Best Double Couple: Mo=2.3×10¹⁷

NP1: Strike= 90 Dip=27 Slip= -13

NP2: 192 84 -116

SVA	7.45	301	eP	13	43.90	2.9
BKM	16.51	283	iPc	15	45.70	3.4X
PUZ	16.98	199	eP	15	49.90	1.8
DZM	17.35	267	iPc	15	55.10	2.3
LTZ	23.26	205	eP	16	57.90	1.4
BRS	29.83	253	iP	17	54.00	-3.5X
			eS	22	21.00	
ARMA	31.10	247	eP	18	07.80	-1.0
	0.9s	17.00nm			4.8mb	
RMO	33.39	255	iPc	18	27.00	-1.8
	1.2s	79.00nm			5.5mb	
CMS	36.17	247	eP	18	49.80	-2.6
	1.1s	23.00nm			5.0mb	
CTA	36.29	266	iPc	18	51.00	-2.6
	1.8s	102.27nm			5.4mb	
		i	19	06.00		
		i	20	15.00		
		eS	24	30.00		
PMG	38.58	283	eP	19	11.00	-1.8
STK	39.80	246	eP	19	20.40	-2.4
	0.9s	4.00nm			4.2mb X	
ASPA	47.04	258	eP	20	19.00	-2.5
	0.9s	46.60nm			5.4mb	
Z	20s	4.50um			5.4msz	
		ePcS	25	44.80		
		eS	27	01.00		
WB2	47.30	263	iPc	20	19.70	-3.9X
	0.5s	8.90nm			5.0mb	
		ePP	21	52.30		
WRA	47.31	263	P	20	27.40	3.7X
	1.1s	3.60nm			4.3mb X	
GUA	53.04	308	e(P)	21	06.70	-0.6

GUMO	0.8s	59.70nm			5.6mb	
	53.10	308 eP	21	05.10	-2.7	
	1.5s	143.80nm			5.8mb	
Z	27s	0.75um			4.6mszX	
		eS	28	04.20		
WARB	53.17	253 eP	21	05.00	-3.3X	
SPA	68.02	180 iPc	22	47.30	-1.7	
	1.1s	80.36nm			5.7mb	
Z	20s	1.35um			5.2msz	
		i	47	23.50		
MAT	73.26	322 (P)	23	18.00	-2.8	
	0.9s	18.49nm			5.0mb	
Z	20s	0.71um			4.9msz	
		eS	32	53.00		
SMY	75.14	353 P	23	40.00	8.8X	
Z	19s	3.57um			5.7msz	
ISA	78.40	44 P	24	00.00	10.0X	
Z	19s	1.91um			5.4msz	
CMB	78.69	41 P	24	00.00	8.5X	
Z	19s	1.96um			5.5msz	
WDC	79.08	38 P	24	00.00	6.5X	
Z	20s	3.15um			5.6msz	
BONR	79.92	42 (P)	23	59.72	1.3	
TPNV	80.61	44 P	24	10.00	8.0X	
Z	19s	2.34um			5.5msz	
KVN	80.72	41 (P)	24	03.84	1.3	
SSE	80.98	309 Pc	24	02.00	-1.8	
Z	20s	0.90um			5.1msz	
E	16s	0.60um				
		SKS	34	08.00		
TUC	81.69	50 eP	24	06.81	-0.8	
	1.8s	51.63nm			5.2mb	
Z	18s	3.60um			5.8msz	
ARUT	82.91	45 eP	24	15.07	1.1	
SHW	82.99	34 eP	24	15.39	1.3	
GZH	83.08	298 iPc	24	16.00	1.2	
Z	20s	0.80um			5.1msz	
NJ2	83.18	308 eP	24	15.00	-0.2	
Z	18s	0.59um			5.0msz	
KGM	83.20	275 ePd	24	16.80	1.1	
VGB	83.30	35 eP	24	16.06	0.5	
MDJ	83.54	324 Pc	24	18.10	1.4	
	1.5s	93.00nm			5.6mb	
Z	20s	1.85um			5.5msz	
RMW	84.06	33 eP	24	18.86	-0.6	
MSU	84.14	44 eP	24	21.11	0.8	
SLKM	84.72	12 eP	24	21.29	-1.1	
DL2	84.93	315 iPc	24	24.00	0.2	
	1.0s	44.00nm			5.6mb	
Z	20s	0.62um			5.0msz	
		S	34	49.00		
CRP	85.08	11 eP	24	22.25	-2.1	
SNY	85.34	319 iPc	24	26.00	0.2	
Z	18s	1.54um			5.4msz	
CN2	85.38	321 Pc	24	26.50	0.5	
	1.2s	71.00nm			5.7mb	
Z	18s	0.89um			5.2msz	
		eSKS	34	40.00		
		eS	34	56.00		
SRU	85.55	45 eP	24	27.51	0.3	
SIT	85.56	20 P	24	40.00	13.5X	
Z	19s	1.20um			5.3msz	
HVU	85.61	42 (P)	24	27.40	0.0	
WHN	85.77	305 Pc	24	29.00	0.8	
Z	20s	1.74um			5.4msz	
E	18s	1.67um				
		S	34	58.00		
PMR	85.93	12 eP	24	26.77	-1.6	
	1.4s	32.40nm				

LCCM	88.44	39 eP	24 42.10	1.0	IRK	101.81	322 ePdiff25	38.00	-3.9X	GEC2	152.47	348 PKP	31 44.70	6.8X	
BJI	89.11	314 eP	24 44.50	0.4		4.0s	0.21nm		3.1mb X		0.8s	3.14nm			
	Z 17s	1.17um		5.4MszX	Z 20s	0.70um			5.2Msz	GEC2	152.47	348 PKP	31 48.80	10.9X	
FBA	89.21	11 eP	24 42.77	-1.3			e	36 25.00			0.7s	2.56nm			
	1.6s	48.49nm		5.6mb			e	38 11.00		WLF	152.49	359 PKPc	31 45.00	7.3X	
GOL	89.26	46 P	25 00.00	14.7X			e	39 08.00		FLN	153.03	8 ePKP	31 43.90	5.4X	
	Z 19s	1.80um		5.5Msz	RSNY	112.35	50 PKP	30 40.00	15.1X		Z 20s	1.13um		5.7Msz	
IMA	89.36	8 eP	24 44.34	-0.6			1.95um		5.7Msz	LPF	153.66	9 ePKP	31 46.90	7.5X	
GLD	89.39	46 P	25 00.00	14.2X	HRV	114.17	52 PKP	30 40.00	11.5X		1.5s	75.75nm			
	Z 20s	2.01um		5.5Msz		Z 18s	2.71um		5.9Msz	CDF	153.70	357 ePKP	31 47.10	7.5X	
GYA	90.00	299 iPc	24 50.00	1.2	KSH	118.21	304 PKP	30 36.50	0.0	BSF	154.30	357 ePKP	31 49.60	9.1X	
	1.4s	52.00nm		5.6mb		Z 20s	1.24um		5.5Msz		1.4s	29.20nm			
	Z 40s	1.02um		5.0MszX			sPKP	30 48.00		SSF	155.07	3 ePKP	31 52.80	11.4X	
		PP	28 20.00				SKS	37 40.00		LBF	155.17	2 ePKP	31 53.20	11.7X	
		sS	36 00.00		KAF	137.47	345 ePKP	31 13.10	0.7	BCAO	158.17	218 iPKPc	31 46.10	-0.3	
TIY	90.55	311 Pc	24 52.00	1.0		0.7s	2.90nm				1.6s	39.00nm			
TIY	90.55	311 Pc	24 52.60	1.6	NUR	139.27	345 ePKP	31 16.30	0.6			ic	32 20.00		
	Z 18s	1.58um		5.5Msz		1.2s	47.60nm				S.D. = 1.4	on 88 of 134 obs.			
	N 18s	1.14um			OBN	139.55	332 (PKP)	31 12.00	-4.4X						
		pP	25 05.00	40km		1.8s	72.00nm				? FEB 20, 1993 08h 28m 29.47 ± 0.91s				
LOE	90.57	288 eP	24 53.00	1.6		Z 20s	1.10um		5.6Msz		20.290 S ± 23.0km	173.206 W ± 15.6km			
NST	91.32	286 eP	24 59.00	4.2X		N 20s	0.90um				DEPTH = 33.0km (normal)				
XAN	91.45	306 Pc	24 56.10	0.9		E 20s	0.50um				4.7mb (4 obs.)				
	1.2s	49.00nm		5.8mb			e	31 21.00			TONGA ISLANDS		(173)		
	Z 20s	0.85um		5.2Msz			e	31 39.00			DZM	19.06	261 iPd	32 52.30	0.4
	N 14s	0.69um					ePP	34 22.00			RMO	35.36	253 eP	35 25.00	0.8
		pP	25 01.20	16kmX			(SKS)	38 20.00			CTA	37.98	263 iP	35 47.00	0.7
SES	91.46	35 eP	24 54.00	-0.9			eSKKS	41 04.00			WB2	49.07	261 eP	37 14.20	-1.6
WMOK	91.62	53 P	25 10.00	14.1X			ePPS	46 24.00				0.5s	7.20nm		5.0mb
	Z 20s	2.13um		5.6Msz	NB2	140.87	355 PKP	31 15.20	-3.5X			i	37 23.70		
MEO	91.78	53 iPc	24 57.30	0.6			1.30nm			WRA	49.08	261 P	37 15.20	-0.7	
RSSD	92.29	43 eP	24 58.79	-0.3	AP0	141.11	353 ePKP	31 10.50	-8.5X		0.6s	3.50nm		4.6mb	
	2.1s	54.54nm		5.6mb		0.4s	0.80nm			SPA	69.83	180 iPd	39 38.80	0.1	
	Z 19s	0.59um		5.1Msz	SVST	147.78	310 ePKP	31 35.10	4.0X		1.1s	13.69nm		4.9mb	
HHC	92.59	313 P	25 01.80	1.4	CTK	148.85	313 ePKP	31 36.80	4.0X	FBA	87.14	11 eP	41 13.30	0.4	
	1.3s	47.00nm		5.8mb	KART	148.97	315 iPKP	31 40.60	7.5X	YKA	94.49	23 eP	41 47.00	-0.2	
	Z 20s	0.87um		5.2Msz	KAS	149.22	315 iPKPc	31 37.60	4.3X		0.9s	1.20nm		4.3mb	
	N 16s	0.43um			OJC	149.67	341 ePKP	31 32.90	-0.7	KSP	148.60	348 ePKP	48 15.70	5.0X	
		pP	25 11.00	29kmX			e	31 38.10		CLL	148.66	352 ePKP	48 15.00	4.3X	
KMI	92.70	296 Pc	25 03.00	1.6	PPE	149.81	328 ePKP	31 41.00	7.1X	BRG	148.96	351 e(PKP)	48 16.40	5.2X	
	2.0s	190.00nm		6.2mb	KSP	150.03	346 ePKP	31 33.00	-1.1	PRU	149.73	350 ePKP	48 19.00	6.6X	
	Z 20s	1.10um		5.3Msz		1.3s	82.00nm			GRF	150.45	354 ePKP	48 21.10	7.6X	
		eSKS	35 24.50				i	31 39.00			0.9s	5.00nm			
BTO	93.53	312 P	25 17.00	47km	WTS	150.14	358 ePKP	31 38.00	3.8X	KHC	150.72	351 PKP	48 21.70	7.7X	
	N 15s	0.37um		1.3		1.1s	55.20nm				1.1s	6.30nm			
	E 12s	0.28um			CLL	150.22	350 iPKP	31 39.20	4.9X	GEC2	150.97	351 PKP	48 21.80	7.3X	
		sP	25 15.50			1.5s	77.00nm				1.2s	5.38nm			
CHTO	93.56	289 ePc	25 06.80	1.7	CFR	150.26	326 ePKP	31 36.00	1.4	FLN	151.00	10 ePKP	48 20.80	6.5X	
	1.5s	68.13nm		5.9mb	SPC	150.44	340 ePKP	31 35.30	0.3		0.4s	3.30nm			
CD2	94.14	302 eP	25 09.00	1.3	BRG	150.48	349 iPKP	31 36.00	1.3	LDF	151.22	10 ePKP	48 21.40	6.7X	
	Z 22s	0.88um		5.2Msz		1.6s	20.00nm				0.8s	10.50nm			
		SKS	35 43.00		VRI	150.49	329 ePKP	31 40.00	5.0X	GRR	151.30	11 ePKP	48 21.10	6.3X	
YAK	94.70	337 eP	25 09.00	-0.4	BBTK	150.64	313 ePKP	31 35.00	-0.5		0.6s	5.25nm			
	1.8s	35.00nm		5.5mb	BHL	150.74	300 PKP	31 34.00	-1.8	LPF	151.61	11 ePKP	48 22.40	7.1X	
	Z 18s	1.10um		5.4Msz	MOX	151.07	351 ePKP	31 41.90	6.2X		0.6s	9.40nm			
	N 16s	0.40um				2.0s	134.00nm			CDF	151.94	359 ePKP	48 23.70	7.8X	
	E 18s	0.80um				Z 19s	1.00um		5.6Msz		0.5s	1.80nm			
		e	28 50.00		MLR	151.15	329 ePKP	31 42.00	5.9X	HAU	152.35	1 ePKP	48 24.40	8.0X	
MIAR	95.45	55 P	25 11.38	-2.2	PRU	151.21	347 PKPc	31 41.50	5.6X		0.6s	3.80nm			
	Z 20s	2.01um		5.6Msz		2.5s	180.80nm			BSF	152.52	0 ePKP	48 24.60	7.8X	
LZH	96.09	306 Pc	25 17.80	1.1		Z 20s	0.70um		5.5Msz		0.6s	1.55nm			
	2.0s	67.00nm		5.8mb	UCC	151.36	1 PKP+	31 42.00	6.0X		S.D. = 1.0	on 8 of 22 obs.			
	Z 17s	0.99um		5.4MszX	VRAC	151.38	344 ePKP	31 37.90	1.8		% FEB 20, 1993 08h 33m 20.01 ± 0.81s				
	E 15s	0.60um				3.2s	1264.30nm				39.100 N ± 6.7km	27.609 E ± 8.4km			
YKA	96.76	24 eP	25 17.00	-1.8	ENN	151.39	359 ePKP	31 42.00	5.9X		DEPTH = 10.0km (geophysicist)				
	0.7s	1.20nm		4.5mb X		0.9s	20.90nm			TURKEY			(366)		
CNCB	98.63	112 (P)	25 31.00	2.0	SNF	151.64	1 PKP	31 42.60	6.1X		MD 2.8 (ISK).				
LPB	98.65	112 (P)	25 30.00	1.1	EYL	151.97	317 ePKP	31 38.80	1.3						
	Z 19s	0.69um		5.2Msz	GRF	152.06	352 ePKP	31 34.20	-3.0						
		SKS	36 08.00			Z 20s	1.20um		5.7Msz						
		LR	57 55.00				e	31 43.80		IZM	0.75	201 iPg	33 34.70	-0.1	
ZOBO	98.73	111 eP	25 30.00	0.4	KHC	152.22	348 ePKP	31 37.50	0.0			eSg	33 45.00		
	Z 18s	1.15um		5.4Msz		1.4s	25.00nm			DST	0.94	57 iPg	33 38.00	0.1	
		SKS	36 14.00			Z 18s	1.30um		5.8Msz			eSg	33 53.00		
		LR	58 00.00			N 18s	0.70um			EZN	1.23	307 ePn	33 43.00	0.1	
FVM	99.09	53 P	25 40.00	10.1X		E 18s	0.50um			EDC	1.26	9 ePn	33 43.00	-0.4	
	Z 18s	4.59um		6.0Msz			e	31 44.60		BNT	1.28	11 ePn	33 43.80	0.1	
SLM	99.46	52 P	25 40.00	8.4X			e	31 47.00		KCT	1.28	26 ePn	33 44.00	0.2	
	Z 19s	2.05um		5.6Msz			e	32 06.90			S.D. = 0.3	on 6 of 6 obs.			
GTA	100.27	308 ePdiff25	35.50	-0.1			e	32 15.60			FEB 20, 1993 08h 53m 21.82 ± 0.67s				
	2.0s	32.00nm		5.5mb	SRO	152.26	341 ePKP	31 35.60	-1.9		41.168 N ± 6.6km	28.722 E ± 4.0km			
	Z 18s	1.43um		5.5Msz	ZST	152.27	343 ePKP	31 36.90	-0.6		DEPTH = 10.0km (geophysicist)				
	E 14s	0.42um			GEC2	152.47	348 PKP	31 36.90	-1.0		TURKEY		(366)		
		SKS	36 15.00			1.6s	3.79nm				MD 2.8 (ISK).				

20d 08h

CTT 0.22 265 iPg 53 27.00 0.4
 ISK 0.27 112 iPg 53 27.80 0.2
 0.8s 12.69nm 4.2mb
 YLV 0.78 140 ePg 53 37.20 0.2
 HRT 0.80 115 iPg 53 37.00 -0.3
 KCT 0.96 197 iPg 53 40.10 0.0
 DMK 0.98 312 iPn 53 40.10 -0.2
 0.8s 2.11nm 4.1mb
 BNT 1.01 217 ePn 53 41.80 0.8
 EDC 1.05 219 ePn 53 41.00 -0.6
 EYL 1.24 118 ePn 53 45.30 0.3
 DST 1.56 183 ePn 53 49.00 -0.7

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

& FEB 20, 1993 08h 54m 54.87s
 61.990 N 151.175 W
 DEPTH = 91.1km
 SOUTHERN ALASKA (2)
 <AEIC>. Felt (III) at Skwentno.

CRP 0.86 213 eP 55 12.31 -1.3
 0.8s 6.00nm 4.2mb
 CP2 0.89 215 eP 55 13.09 -0.8
 PMR 1.05 111 ePd 55 13.72 -1.8
 0.8s 6.00nm 4.2mb
 SLKM 1.56 162 eP 55 20.69 -1.2
 RSO 1.71 207 eP 55 23.07 -1.0
 TTA 2.44 295 iPc 55 31.83 -1.8
 KLU 2.55 99 eP 55 32.86 -2.3
 IMA 4.24 346 eP 55 55.87 -2.6
 8 obs. associated

* FEB 20, 1993 09h 04m 49.20 ± 0.85s
 54.044 N ± 33.9km 163.304 W ± 10.8km
 DEPTH = 33.0km (normal)
 4.4mb (8 obs.)
 UNIMAK ISLAND REGION (10)
 Felt (III) at False Pass.

SDN 2.08 50 ePc 05 22.32 -0.1
 0.8s 3.67nm 4.2mb
 KDC 7.12 54 eP 06 29.29 -4.3X
 SVW 8.19 27 eP 06 49.56 0.9
 SLKM 9.59 42 eP 07 05.83 -2.1
 PMR 10.67 39 (P) 07 22.46 -0.3
 KLU 11.88 44 eP 07 35.02 -4.1X
 IMA 12.96 18 eP 07 55.31 1.7
 0.7s 2.71nm 4.4mb
 BALM 13.21 50 eP 07 53.22 -3.7X
 YKA 26.37 52 eP 10 24.90 1.2
 0.4s 1.60nm 4.0mb
 FCC 37.03 54 eP 12 00.50 3.3X
 ARUT 37.44 95 eP 12 01.18 0.1
 SRU 38.29 91 eP 12 08.08 -0.1
 RSSD 38.98 80 eP 12 13.05 -1.0
 0.8s 3.67nm 4.2mb

ULM 40.14 67 eP 12 25.50 2.3
 DAG 47.53 10 eP 13 21.10 -1.3
 0.7s 4.79nm 4.6mb
 KAF 63.94 355 iP 15 19.90 -0.7
 0.3s 2.30nm 4.8mb
 HFS 66.15 2 eP 15 32.80 -2.0
 0.4s 3.50nm 4.8mb
 KHC 77.17 2 eP 16 41.00 0.2
 1.4s 7.00nm 4.5mb
 GEC2 77.46 2 P 16 43.20 0.8
 1.2s 2.06nm 4.0mb
 GUN 79.01 303 P 16 52.60 0.9
 KKN 79.41 303 P 16 52.60 -1.1
 GKN 79.55 304 P 16 55.80 1.4
 BUL 144.95 340 iPKPc 24 23.80 -0.7
 0.8s 7.09nm 4.5mb

S.D. = 1.3 on 19 of 23 obs.

FEB 20, 1993 09h 16m 17.84 ± 0.57s
 47.092 N ± 10.4km 153.883 E ± 9.0km
 DEPTH = 15.1km (2 depth phases)
 4.9mb (34 obs.)

KURIL ISLANDS (221)
 KUSJ 7.62 242 eP 18 09.20 -1.6
 0.8s 3.67nm 4.2mb
 ASAJ 8.42 253 eP 18 25.50 3.4X
 HOOJ 8.89 242 eP 18 27.70 -0.8
 0.8s 3.67nm 4.2mb
 MRRJ 10.23 248 eP 18 45.40 -1.6

MAT 15.71 233 eP 19 58.00 -2.0
 0.8s 12.69nm 4.2mb
 YAK 20.30 326 eP 20 55.00 -0.4
 0.8s 31.00nm 4.7mb
 SNY 22.18 267 eP 21 14.90 0.2
 TIY 31.69 268 eP 22 43.00 0.2
 IMA 33.22 36 eP 22 54.09 -1.8
 0.8s 2.11nm 4.1mb
 FBA 35.57 39 eP 23 14.61 -1.3
 0.8s 4.41nm 4.4mb
 XAN 36.07 265 P 23 20.50 -0.1
 0.9s 18.00nm 5.0mb

KLU 36.53 44 eP 23 24.00 -0.2
 LZH 38.40 272 P 23 41.50 1.2
 1.0s 42.00nm 5.1mb
 15s 0.34um 4.3mszX

GTA 39.44 279 eP 23 49.80 0.9
 1.0s 6.00nm 4.2mb
 CD2 41.43 265 eP 24 06.40 1.1
 1.0s 64.00nm 5.3mb
 GYA 42.30 258 P 24 13.40 0.9
 1.0s 15.00nm 4.7mb
 YKA 50.33 37 eP 25 13.80 -1.6
 0.9s 1.60nm 4.0mb
 RES 50.34 19 eP 25 16.00 0.6
 LSA 50.78 273 P 25 21.40 1.6
 0.8s 13.00nm 4.9mb

CHTO 52.71 257 eP 25 34.90 0.9
 GUN 55.50 275 P 25 54.80 0.0
 KKN 55.98 276 P 25 58.40 0.3
 0.8s 48.00nm 5.6mb
 DMN 56.21 276 P 26 00.40 0.6
 0.8s 70.00nm 5.7mb
 GKN 56.28 276 P 26 00.60 0.4
 FCC 60.69 34 eP 26 32.00 1.8
 KAF 63.35 335 eP 26 46.20 -1.9
 0.9s 17.50nm 5.2mb

BW06 64.11 54 (P) 26 56.79 3.1X
 1.0s 2.62nm 4.4mb
 NUR 65.12 335 eP 26 57.80 -1.8
 0.6s 8.60nm 5.1mb
 RSSD 66.20 50 (P) 27 08.81 1.7
 0.8s 2.72nm 4.5mb
 NB2 68.07 341 P 27 16.90 -1.5
 0.8s 18.40nm 5.3mb
 HFS 68.32 340 eP 27 17.50 -2.4
 0.5s 8.70nm 5.2mb

GBA 70.95 270 P 27 37.00 0.4
 ASPA 72.70 199 P 27 47.59 0.8
 KSP 75.83 334 iP 28 04.10 -0.5
 SPC 76.02 331 eP 28 04.90 -1.0
 VRI 76.47 325 eP 28 11.00 2.7
 MLR 77.09 325 iPd 28 12.50 0.6
 PRU 77.11 334 eP 28 11.60 -0.2
 0.9s 8.20nm 4.8mb

ISR 77.15 325 eP 28 16.30 15km
 MOX 77.35 336 eP 28 13.30 0.2
 1.2s 17.00nm 5.0mb
 ZST 77.91 332 e(P) 28 16.20 0.0
 KHC 78.16 335 eP 28 17.50 -0.1
 0.9s 6.00nm 4.7mb

GRF 78.32 336 iPc 28 18.80 0.3
 0.9s 19.00nm 5.2mb
 GEC2 78.38 334 Pd 28 18.60 -0.3
 0.7s 3.40nm 4.5mb

KBA 80.07 334 iPd 28 28.70 0.5
 0.9s 15.00nm 5.0mb
 WTTA 80.41 335 iPc 28 30.20 0.2
 0.7s 15.30nm 5.1mb

CDF 80.54 338 eP 28 30.30 -0.3
 0.9s 7.85nm 4.7mb
 HAU 81.15 339 eP 28 33.50 -0.2
 BSF 81.20 338 eP 28 33.60 -0.5
 FLN 81.96 343 eP 28 37.50 -0.4
 GRR 82.39 343 eP 28 40.20 0.0
 LOR 82.44 340 eP 28 40.20 -0.3
 0.7s 4.65nm 4.7mb

LBF 82.68 340 eP 28 41.30 -0.4
 0.6s 2.45nm 4.5mb
 SSF 82.72 340 eP 28 42.50 0.6
 0.8s 6.45nm 4.8mb
 LPF 82.77 343 eP 28 42.20 0.1

AVF 83.01 340 eP 28 43.50 0.1
 1.0s 12.20nm 5.0mb
 SMF 83.03 340 eP 28 43.70 0.2
 1.2s 30.65nm 5.3mb
 BGF 83.34 340 eP 28 45.60 0.5
 LPL 83.36 337 eP 28 46.10 0.6
 LPG 83.37 337 eP 28 46.40 0.7
 0.8s 7.50nm 4.9mb
 MAF 83.73 340 eP 28 47.60 0.5
 0.9s 10.80nm 5.1mb
 TCF 83.74 341 eP 28 47.40 0.2
 LSF 83.93 341 eP 28 48.30 0.2
 MFF 83.96 342 eP 28 48.30 0.1
 CAF 85.07 340 eP 28 54.40 0.5

S.D. = 1.0 on 63 of 65 obs.

? FEB 20, 1993 09h 39m 08.60 ± 4.75s
 40.920 N ± 20.2km 24.173 E ± 33.0km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.0 (THE).

SRS 0.48 294 ePg 39 17.52 -0.9
 0.8s 6.00nm 4.2mb
 OUR 0.60 194 ePg 39 20.64 -0.1
 0.8s 6.00nm 4.2mb
 SOH 0.63 261 ePg 39 21.48 0.1
 0.8s 6.00nm 4.2mb
 THE 0.96 253 ePg 39 26.52 -0.3
 KNT 0.99 284 ePg 39 28.37 0.9
 0.8s 6.00nm 4.2mb
 GRG 1.34 272 ePb 39 33.52 0.2

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

* FEB 20, 1993 09h 47m 23.80 ± 1.09s
 26.684 S ± 8.3km 26.727 E ± 13.8km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 mbLg 3.7 (BUL).

PRY 0.71 110 eP 47 38.50 0.5
 0.8s 6.00nm 4.2mb
 KSR 0.83 11 iPd 47 45.90 5.5X
 0.8s 6.00nm 4.2mb
 SEK 1.82 154 iPd 47 56.50 0.4
 0.8s 6.00nm 4.2mb
 BLF 2.46 191 iPd 48 05.40 0.0
 0.8s 6.00nm 4.2mb
 BFT 3.14 72 eP 48 18.50 3.4X
 0.8s 6.00nm 4.2mb
 FRS 3.30 202 iPd 48 16.60 -0.5
 0.8s 6.00nm 4.2mb
 BUL 6.74 15 iPd 49 08.50 2.5
 0.8s 6.00nm 4.2mb
 CIR 7.18 39 iPd 49 10.00 -2.1
 0.8s 6.00nm 4.2mb

S.D. = 1.7 on 7 of 10 obs.

* FEB 20, 1993 09h 50m 47.92 ± 0.63s
 40.660 N ± 5.2km 23.007 E ± 5.0km
 DEPTH = 5.0km (geophysicist)
 GREECE (364)
 ML 1.5 (THE).

THE 0.04 229 ePg 50 49.07 -0.2
 0.8s 6.00nm 4.2mb
 SOH 0.31 58 ePg 50 54.20 0.0
 0.8s 6.00nm 4.2mb
 KNT 0.51 351 ePg 50 58.26 0.2
 0.8s 6.00nm 4.2mb
 GRG 0.55 303 ePg 50 58.80 -0.1
 0.8s 6.00nm 4.2mb
 SRS 0.64 44 ePg 51 00.68 0.0
 0.8s 6.00nm 4.2mb
 OUR 0.81 113 ePg 51 03.36 -0.8
 0.8s 6.00nm 4.2mb
 PAIG 0.89 145 ePg 51 06.36 0.8
 0.8s 6.00nm 4.2mb

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

% FEB 20, 1993 09h 59m 11.78±0.88s
39.030 N ± 7.3km 27.714 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.72 209 iPg 59 26.20 0.2
iSg 59 36.70
DST 0.91 51 ePn 59 28.90 -0.4
KCT 1.31 22 ePn 59 36.00 -0.1
EDC 1.32 5 ePn 59 36.50 0.4
BNT 1.33 7 ePn 59 36.70 0.3
EZN 1.34 307 ePn 59 36.00 -0.4
S.D. = 0.4 on 6 of 6 obs.

% FEB 20, 1993 10h 11m 29.79±0.60s
40.785 N ± 5.5km 23.258 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.7 (THE).

SOH 0.08 63 ePgc 11 32.60 0.3
eSg 11 34.20
THE 0.27 236 ePg 11 34.88 -0.6
eSg 11 39.36
SRS 0.42 37 ePg 11 37.50 -0.8
eSg 11 43.28
KNT 0.46 324 ePg 11 39.76 0.5
eSg 11 46.68
GRG 0.67 285 ePg 11 43.36 0.2
eSg 11 53.12
OUR 0.71 129 ePg 11 44.28 0.5
eSg 11 52.04
PAIG 0.92 159 ePg 11 47.24 0.0
eSg 11 59.16
S.D. = 0.6 on 7 of 7 obs.

FEB 20, 1993 10h 21m 43.04±0.31s
49.155 N ± 2.5km 6.865 E ± 4.0km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
mbLg 3.4 (UCC). ML 3.3 (STR).
3.2 (VIE). 2.9 (BNS).

RUP 0.56 13 ePg 21 53.72 -0.8
LANF 0.64 105 Pg 21 55.42 -0.5
WLF 0.69 318 iPd 21 56.53 -0.2
iS 22 06.00
SRBF 0.69 110 Pg 21 57.03 0.3
HOFF 0.75 106 Pg 21 57.89 0.1
Sg 22 07.50
CDF 0.79 160 Pg 21 57.29 -1.2
Sg 22 08.35
WLS 0.81 156 Pg 21 57.98 -0.8
Sg 22 08.18
ABH 0.85 31 ePg 21 58.65 -0.9
ECH 0.96 168 Pg 22 00.43 -0.9
BGG 1.10 16 iPc 22 03.44 -0.2
0.8s 167.00nm
iPd 22 04.31
iSg 22 18.20

VITF 1.10 212 Pg 22 03.08 -0.7
Sg 22 18.04
LIBD 1.12 154 Pg 22 04.52 0.5
MOF 1.32 172 Pg 22 07.67 0.2
Sg 22 25.79
BSF 1.32 182 Pg 22 07.50 -0.1
KOE 1.39 23 iPnc 22 08.18 -0.2
0.6s 195.00nm
iPg 22 09.34
eSg 22 26.90

STB 1.44 359 iPnc 22 08.56 -0.6
0.9s 105.00nm
iPg 22 10.05
eSg 22 27.94
TNS 1.48 43 ePnc 22 10.90 1.1
e 22 20.20
iSn 22 30.10

FEL 1.49 149 ePg 22 08.77 -1.2
KLL 1.54 347 iPd 22 09.60 -0.9
iS 22 29.70
MEM 1.56 339 iPc 22 10.31 -0.5
iS 22 29.82
ENN 1.73 340 ePc 22 15.20 2.0
0.8s 44.00nm
i 22 17.10
eS 22 38.00

DOU 1.75 303 iP 22 13.50 -0.1
i 22 15.80
iS 22 35.60
SLE 1.76 141 iPc 22 14.70 0.9
LOMF 1.81 181 Pg 22 16.77 2.3
BNS 1.82 6 iPd 22 16.30 1.7
0.8s 130.00nm
iS 22 38.50
ZLA 1.96 148 eP 22 20.60 3.9X
SNF 2.15 310 iP 22 19.40 0.0
LLS 2.70 147 ePc 22 28.20 0.8
WTS 2.84 359 eP 22 38.00 8.7X
0.7s 8.20nm
eS 23 15.00
GRF 2.89 78 e(Pn) 22 36.80 6.8X
e 22 38.50
e 22 40.30

EMS 3.09 179 ePd 22 32.00 -0.9
DIX 3.10 173 Pc 22 32.90 -0.2
VDL 3.19 146 iPd 22 35.20 0.8
OSS 3.31 137 ePd 22 37.00 0.9
MOX 3.42 62 (Pg) 22 50.90 13.5X
iSg 23 31.70
HOF 3.45 68 eP 22 49.90 12.0X
KHC 4.41 88 Pn 22 50.50 -1.0
Pg 23 10.60
Sn 23 41.20
eSg 24 03.50

GEC2 4.51 91 Pn 22 52.20 -0.8
Pg 23 13.90
Sn 23 42.10
Sg 24 06.10
KBA 4.81 113 iPnc 22 58.40 1.0
i 23 14.00
S.D. = 0.9 on 34 of 39 obs.

* FEB 20, 1993 11h 39m 28.21±0.71s
47.351 N ± 13.5km 153.883 E ± 10.1km
DEPTH = 33.0km (normal)
4.8mb (29 obs.) 4.6Msz (2 obs.)
KURIL ISLANDS (221)

YAK 20.09 326 eP 44 00.00 -1.4
1.3s 36.00nm 4.5mb
Z 14s 1.20um 4.4MszX
N 14s 0.50um
E 14s 1.00um

e 45 16.00
e(S) 48 05.00
CN2 20.17 270 eP 43 58.00 -4.4X
SNY 22.19 267 eP 44 22.60 -0.3
HMC 30.78 274 eP 45 42.80 0.0
Z 18s 1.21um 4.6Msz
N 13s 0.35um
E 13s 1.41um

TIY 31.70 268 eP 45 51.60 0.8
Z 24s 1.35um 4.5MszX
E 20s 1.50um
FBA 35.36 39 eP 46 21.52 -0.7
0.8s 4.00nm 4.4mb
XAN 36.09 265 P 46 28.00 -0.7
1.0s 14.00nm 4.8mb
Z 16s 1.18um 4.8MszX
N 14s 0.83um
E 14s 0.69um

LZH 38.40 272 iPd 46 49.00 0.8
1.2s 36.00nm 5.1mb
GTA 39.40 279 eP 46 56.50 0.0
2.0s 13.00nm 4.3mb
Z 18s 0.86um 4.6Msz
N 14s 0.42um

CD2 41.45 265 iPd 47 13.50 0.1
1.0s 37.00nm 5.1mb
GYA 42.36 258 P 47 20.20 -0.7
1.0s 12.00nm 4.6mb
WMQ 45.20 291 P 47 47.00 3.3X
Z 16s 1.14um 4.9MszX
N 12s 0.49um

KMI 45.87 260 Pd 47 53.50 4.2X
1.5s 70.00nm 5.4mb
Z 14s 0.70um 4.8MszX
YKA 50.13 37 eP 48 21.00 -0.8
0.9s 1.20nm 3.9mb
LSA 50.77 273 iPc 48 28.20 0.6
0.8s 8.00nm 4.7mb
CHTO 52.77 257 eP 48 41.80 -0.5
e 49 50.50

BGMT 61.01 54 eP 49 40.70 -0.1
KAF 63.12 335 eP 49 53.70 -0.6
0.3s 1.40nm 4.6mb
NUR 64.89 335 eP 50 03.30 -2.6
1.4s 50.80nm 5.4mb
UPP 67.35 338 iP 50 20.40 -1.2
NB2 67.83 341 P 50 24.00 -0.7
0.8s 14.30nm 5.1mb
HFS 68.08 340 eP 50 24.80 -1.4
0.5s 6.40nm 5.0mb
GBA 70.95 270 P 50 43.00 -1.4
KSP 75.60 334 iPd 51 11.80 0.7
MLR 76.87 325 iPc 51 19.50 1.0
PRU 76.88 334 eP 51 19.50 1.3
MOX 77.11 336 eP 51 20.30 0.7
1.9s 30.00nm 5.0mb
e 51 40.90

KHC 77.92 335 eP 51 24.60 0.5
1.0s 5.40nm 4.5mb
e 51 28.50
e 52 33.00
e 52 40.50

GRF 78.08 336 eP 51 25.60 0.7
0.9s 12.00nm 4.9mb
GEC2 78.14 334 P 51 25.30 -0.1
0.7s 2.09nm 4.3mb
e 51 29.30
e 52 33.90
e 52 38.70
e 52 44.60
e 52 49.70

DOU 79.37 340 P 51 34.40 2.5
KBA 79.84 334 iPd 51 35.70 1.0
0.9s 23.40nm 5.2mb
i 52 45.20
i 52 49.80

WTTA 80.17 335 iPc 51 37.20 0.7
1.0s 20.80nm 5.1mb
i 52 45.60
i 52 51.50
i 52 53.10

CDF 80.30 338 eP 51 36.10 -1.0
0.8s 5.50nm 4.6mb
HAU 80.91 339 eP 51 39.40 -0.8
BSF 80.96 338 eP 51 40.20 -0.4
LOR 82.20 340 eP 51 47.20 0.3
1.0s 7.80nm 4.7mb

LBF 82.44 340 eP 51 48.80 0.6
1.1s 8.05nm 4.7mb
SSF 82.47 340 eP 51 48.90 0.6
0.9s 5.10nm 4.6mb
AVF 82.76 340 eP 51 49.60 -0.2
0.9s 5.90nm 4.7mb

SMF 82.79 340 eP 51 50.60 0.6
0.8s 9.80nm 4.9mb
LPL 83.12 337 eP 51 53.10 1.1
0.9s 6.90nm 4.8mb
LPG 83.13 337 eP 51 53.30 1.1
MAF 83.48 340 eP 51 53.90 0.3
0.9s 10.15nm 5.0mb

TCF 83.50 341 eP 51 53.90 0.2
LSF 83.69 341 eP 51 54.90 0.3
0.9s 10.15nm 5.0mb
AIA 152.90 145 e(PK) 59 14.00 -0.5
S.D. = 0.9 on 44 of 47 obs.

? FEB 20, 1993 11h 40m 03.92±1.53s
42.916 N ± 6.3km 145.744 E ± 14.7km
DEPTH = 63.8 ± 9.5 km
HOKKAIDO, JAPAN REGION (224)

KUSJ 0.78 284 P 40 19.60 0.1
S 40 26.50
HOOJ 1.89 254 iP+ 40 35.40 0.9
eS 40 54.00
ASAJ 2.56 299 iPd 40 43.60 -0.2
eS 41 08.30

MRRJ 3.48 263 eP 40 56.00 -0.8
eS 41 29.30
AOMJ 4.66 241 P 41 12.90 -0.4
S 41 59.90
OFUJ 4.92 220 P 41 17.60 0.6
S 42 08.60

YAMJ 6.43 224 P 41 38.90 0.8
NIIJ 7.67 225 P 41 55.40 0.1
KAKJ 7.96 215 P 41 58.40 -0.9
S 43 20.10

20d 11h

MAT 8.61 225 eP 42 08.00 -0.3
 0.8s 13.43nm 4.9mb X
 Z 20s 0.71um 5.6mszX
 CHJJ 8.61 219 P 42 08.40 0.0
 43 39.80
 eS
 MTMJ 8.79 227 P 42 11.10 0.2
 IIDJ 9.59 222 eP 42 21.30 -0.5
 44 02.20
 eS
 TSRJ 10.56 229 eP 42 35.00 0.1
 GUN 50.04 273 P 48 54.20 -0.2
 KKN 50.54 273 P 48 59.20 1.1
 DMN 50.77 273 P 49 00.80 0.9
 GKN 50.90 274 P 48 59.40 -1.3
 FCC 67.26 29 ePd 50 53.20 0.0
 S.D. = 0.7 on 19 of 19 obs.

* FEB 20, 1993 11h 40m 33.03±0.84s
 47.078 N ±15.7km 154.053 E ±12.1km
 DEPTH = 17.3km (5 depth phases)
 5.0mb (32 obs.) 4.4msz (4 obs.)
 KURIL ISLANDS (221)

KUSJ 7.72 242 eP 42 25.10 -2.1
 HOOJ 8.98 242 eP 42 44.00 -0.8
 44 23.70
 eS
 MRRJ 10.34 248 eP 43 05.70 2.3
 MDJ 17.20 271 eP 44 40.50 6.6X
 Z 16s 2.12um 4.6msz
 WKYJ 18.94 234 P 45 05.60 10.1X
 YONJ 19.47 240 P 45 08.40 6.6X
 TKSJ 19.98 236 P 45 12.40 5.1X
 CN2 20.29 271 eP 45 09.00 -1.4
 1.0s 12.00nm 4.2mb
 Z 16s 0.89um 4.2mszX
 N 14s 0.63um
 E 14s 0.77um

SHNJ 21.60 241 eP 45 33.60 9.7X
 SNY 22.30 268 eP 45 31.20 0.5
 Z 17s 2.01um 4.6mszX
 KUMJ 22.89 239 eP 45 45.00 8.3X
 DL2 24.94 263 eP 46 03.00 6.5X
 1.2s 86.00nm 5.3mb
 Z 15s 0.41um 4.1mszX
 eS 50 26.00

BJI 28.12 269 eP 46 30.50 4.7X
 1.4s 24.00nm 4.8mb
 Z 18s 1.47um 4.6msz
 N 15s 0.68um
 SSE 29.82 249 eP 46 52.00 10.9X
 Z 20s 0.50um 4.1msz
 eS 51 56.00

SSE 29.82 249 eP 46 42.00 0.9
 Z 20s 0.50um 4.1msz
 TIY 31.80 268 eP 46 59.00 1.1
 BTO 32.08 275 eP 47 07.00 5.9X
 N 13s 0.53um
 E 12s 0.28um

PMR 34.92 44 (P) 47 30.66 5.4X
 pP 47 42.50 44kmX
 FBA 35.50 39 eP 47 30.18 -0.1
 e 47 35.42 18km
 XAN 36.18 265 P 47 35.50 -0.9
 1.0s 11.00nm 4.7mb

KLU 36.46 44 eP 47 37.59 -0.9
 BALM 38.23 45 eP 47 52.41 -1.0
 LZH 38.52 272 Pd 48 03.50 7.3X
 1.5s 70.00nm 5.2mb
 Z 14s 0.70um 4.6mszX

LZH 38.52 272 eP 47 56.50 0.3
 1.4s 37.00nm 4.9mb
 Z 17s 0.89um 4.7mszX
 E 12s 0.38um

CD2 41.55 266 iPd 48 21.60 0.5
 1.0s 110.00nm 5.5mb
 Z 14s 0.72um 4.7mszX

GYA 42.41 258 P 48 28.20 -0.1
 WMO 45.41 291 eP 48 51.00 -1.3
 Z 18s 1.31um 4.9msz
 YKA 50.28 37 eP 49 29.40 -0.5
 0.7s 3.00nm 4.4mb

RES 50.32 19 eP 49 31.50 1.5
 1.0s 2.00nm 4.0mb
 LSA 50.90 274 iPd 49 36.80 1.2
 1.2s 17.00nm 4.9mb

KSH 55.15 293 eP 50 05.00 -1.8

1.0s 20.00nm 5.1mb
 Z 16s 1.77um 5.2mszX
 N 12s 0.99um
 E 12s 1.20um

KAF 63.41 335 eP 51 02.20 -1.1
 NUR 65.18 335 iP 51 14.10 -0.8
 0.5s 4.30nm 4.9mb
 OBN 65.40 326 eP 51 20.00 3.7X
 e 51 34.00 50kmX

HYB 67.63 272 eP 51 35.50 4.4X
 UPP 67.65 338 iP 51 29.40 -1.1
 i 51 34.70 17km
 HFS 68.37 340 eP 51 33.20 -1.9
 0.4s 5.70nm 5.0mb

GBA 71.07 270 P 51 52.00 -0.2
 ASPA 72.73 199 eP 52 07.40 5.6X
 0.8s 7.40nm 4.8mb
 KSP 75.89 334 eP 52 20.00 0.2
 1.0s 25.00nm 5.2mb

SPC 76.08 331 eP 52 21.20 0.0
 CLL 76.43 336 i(P) 52 22.80 0.0
 1.1s 26.00nm 5.2mb
 i 52 29.20 21km

BRG 76.55 335 iP 52 23.80 0.3
 1.0s 20.00nm 5.1mb
 i 52 29.50 18km
 CMP 77.70 326 ePd 52 33.00 3.0X
 SRO 77.92 331 eP 52 32.60 1.5

ZST 77.97 332 eP 52 32.30 0.9
 e 57 50.70
 GRF 78.38 336 eP 52 34.10 0.4
 1.0s 14.00nm 5.0mb

DOU 79.67 341 P 52 42.90 2.3
 CDF 80.59 338 eP 52 45.60 -0.1
 0.8s 8.60nm 4.8mb
 HAU 81.20 339 eP 52 48.60 -0.3
 0.8s 5.65nm 4.7mb

BSF 81.25 338 eP 52 48.90 -0.3
 FLN 82.01 343 eP 52 52.20 -0.8
 GRR 82.44 343 eP 52 55.40 0.2
 LOR 82.49 340 eP 52 55.40 -0.2
 0.7s 7.60nm 4.9mb

LBF 82.73 340 eP 52 57.10 0.2
 0.7s 3.75nm 4.6mb
 SSF 82.77 340 eP 52 57.10 0.1
 0.9s 7.85nm 4.8mb

LPF 82.82 343 eP 52 57.50 0.3
 1.0s 12.80nm 5.0mb
 AVF 83.06 340 eP 52 58.80 0.3
 1.0s 15.40nm 5.1mb

SMF 83.08 340 eP 52 58.90 0.2
 1.0s 28.80nm 5.4mb
 BGF 83.40 340 eP 53 00.30 0.1
 0.6s 4.95nm 4.9mb

LPG 83.43 338 eP 53 01.60 0.8
 0.8s 11.30nm 5.1mb
 MAF 83.78 341 eP 53 02.80 0.6
 0.9s 17.70nm 5.3mb

TCF 83.79 341 eP 53 02.60 0.3
 1.0s 10.60nm 5.0mb
 LSF 83.98 341 eP 53 03.40 0.2
 MFF 84.00 342 eP 53 03.50 0.2

0.9s 7.35nm 4.9mb
 RJF 84.88 341 eP 53 08.10 0.3
 CAF 85.12 340 eP 53 09.20 0.2
 0.6s 3.95nm 4.8mb

LFF 85.40 341 eP 53 10.20 -0.1
 S.D. = 0.9 on 52 of 68 obs.

FEB 20, 1993 11h 48m 50.59±0.64s
 44.387 N ±5.9km 7.313 E ±7.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (GEN).

STV 0.14 177 P 48 54.17 0.2
 S 48 56.10
 ENR 0.18 154 P 48 54.59 -0.1
 S 48 57.10

PZZ 0.19 308 P 48 55.04 0.1
 S 48 58.16
 ROB 0.41 103 P 48 59.57 0.6
 S 49 05.70

BHB 0.46 356 P 48 59.75 -0.1
 S 49 06.01
 IMI 0.63 139 P 49 03.05 -0.3

FIN 0.67 105 P 49 11.47
 S 49 03.51 -0.4
 S 49 12.34
 S.D. = 0.4 on 7 of 7 obs.

* FEB 20, 1993 12h 36m 30.04±0.97s
 46.947 N ±16.4km 154.215 E ±14.1km
 DEPTH = 15.7km (2 depth phases)
 4.9mb (23 obs.) 4.2msz (1 obs.)
 EAST OF KURIL ISLANDS (222)

KUSJ 7.75 244 eP 38 23.00 -1.9
 eS 39 46.20
 ASAJ 8.60 255 eP 38 38.80 2.1
 HOOJ 9.02 244 eP 38 42.10 -0.4
 eS 40 21.70

MAT 15.81 235 (P) 40 11.00 -2.4
 1.0s 7.00nm 3.8mb X
 CN2 20.40 272 eP 41 08.00 -0.8
 YAK 20.55 326 eP 41 08.00 -2.1
 Z 12s 0.30um 3.9mszX
 E 14s 0.20um

HHC 31.03 274 eP 42 49.60 0.5
 TIY 31.91 269 Pd 42 58.00 1.2
 Z 20s 0.50um 4.2msz
 IMA 33.21 36 eP 43 07.59 -0.3
 0.9s 3.33nm 4.3mb

FBA 35.54 38 eP 43 27.70 -0.1
 0.8s 3.48nm 4.3mb
 XAN 36.28 266 P 43 34.20 -0.3
 1.0s 13.00nm 4.7mb

LZH 38.64 272 Pd 43 55.00 0.6
 1.2s 40.00nm 5.0mb
 GTA 39.69 279 eP 44 03.00 0.0
 CD2 41.65 266 iPd 44 20.00 0.9
 1.0s 46.00nm 5.2mb

GYA 42.50 258 P 44 27.00 0.8
 0.8s 9.40nm 4.6mb
 YKA 50.31 37 eP 45 26.70 -0.7
 0.9s 0.90nm 3.7mb X

LSA 51.02 274 iPd 45 35.00 1.3
 0.8s 8.00nm 4.7mb
 CHTO 52.90 257 eP 45 48.60 1.1
 GUN 55.74 276 P 46 08.00 -0.6
 0.8s 27.00nm 5.3mb

KKN 56.22 276 P 46 11.80 -0.1
 DMN 56.45 276 P 46 13.80 0.1
 GKN 56.52 277 P 46 13.00 -1.0
 NDI 61.10 282 eP 46 46.00 0.4

NUR 65.35 335 eP 47 12.00 -1.2
 APO 68.12 340 eP 47 28.40 -2.4
 0.6s 2.40nm 4.5mb
 NB2 68.28 342 P 47 30.20 -1.6
 0.9s 14.70nm 5.2mb

GBA 71.18 270 P 47 50.00 -0.1
 KSP 76.06 334 eP 48 18.30 0.3
 CLL 76.59 336 iPd 48 20.90 -0.1
 1.0s 21.00nm 5.2mb

MLR 77.34 326 eP 48 25.50 0.1
 PRU 77.34 335 eP 48 24.50 -0.7
 MOX 77.57 337 eP 48 27.40 0.9
 1.9s 29.00nm 5.0mb

KHC 78.39 335 eP 48 31.00 0.0
 1.0s 6.80nm 4.7mb
 e 49 14.50 178kmX
 GRF 78.55 336 eP 48 31.90 0.1
 0.9s 12.00nm 4.9mb

GEC2 78.61 335 P 48 31.60 -0.7
 0.8s 1.85nm 4.2mb
 e 48 36.40 15km

KBA 80.30 334 i(P) 48 43.10 1.5
 0.8s 10.30nm 4.9mb
 WTTA 80.63 335 i(P) 48 45.00 1.7
 0.7s 10.80nm 5.0mb

CDF 80.76 338 eP 48 43.40 -0.5
 1.3s 13.00nm 4.8mb
 BSF 81.42 338 eP 48 47.70 0.3
 SSF 82.93 340 eP 48 55.00 -0.1

0.9s 5.40nm 4.7mb
 AVF 83.22 340 eP 48 56.50 -0.1
 1.1s 10.00nm 4.9mb
 SMF 83.24 340 eP 48 56.70 0.0
 1.4s 36.15nm 5.4mb

LPL 83.58 338 eP 49 01.20 2.4
 1.0s 9.40nm 4.9mb
 LPG 83.60 338 eP 49 00.70 1.8

MAF 83.94 341 eP 49 00.60 0.3
1.1s 16.10nm 5.2mb
S.D. = 1.1 on 45 of 45 obs.

? FEB 20, 1993 12h 38m 33.63±5.47s
30.209 S ±51.2km 67.978 W ±20.0km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 1.19 201 iPd 38 53.70 -0.4
S 39 05.00
CFA 1.41 189 ePd 38 57.00 -0.3
S 39 13.10
RTCB 1.46 209 eP 38 58.50 0.5
S 39 10.00
MRA 2.93 139 e(P) 39 19.30 0.4
TCA 3.12 112 iP 39 21.60 -0.2
(S) 40 08.50
S.D. = 0.6 on 5 of 5 obs.

FEB 20, 1993 13h 08m 10.15±0.66s
42.830 N ±5.8km 101.461 W ±7.2km
DEPTH = 5.0km (geophysicist)
3.1mb (1 obs.)
NEBRASKA (463)
mbLg 3.5 (GS). Felt (IV) at
Merriman.

RSSD 2.28 305 ePd 08 50.37 1.2
eS 09 13.34
GLD 4.18 224 (Pn) 09 16.40 0.2
ePg 09 32.36
GOL 4.30 225 ePn 09 19.16 1.2
ePg 09 34.07
eS 10 26.95
BW06 5.96 272 eP 09 40.47 -0.9
ePg 09 59.62
eS 11 10.77
MEMT 7.37 295 ePn 09 59.50 -1.8X
DAU 7.73 255 ePn 10 06.38 0.1
SRU 7.80 245 ePn 10 06.58 -0.6
eS 12 08.90
BGMT 7.99 291 ePn 10 08.90 -1.1
LCCM 8.05 295 ePn 10 10.70 0.0
HRY 8.34 301 ePn 10 12.20 -2.5X
MEO 8.34 163 iPc 10 20.30 5.7X
WMOK 8.35 165 (Pn) 10 14.27 -0.4
ePg 10 54.38
eS 12 43.34
ULM 8.36 25 eP 10 14.50 -0.3
ALQ 8.78 208 (Pn) 10 18.91 -2.0X
ePg 11 01.88
eS 12 51.14
FVM 9.71 116 (Pn) 10 28.83 -4.6X
SES 10.03 322 P 10 56.00 18.1X
0.6s 4.00nm
MIAR 10.31 141 (P) 10 45.57 3.8X
eLg 13 50.05
FCC 16.60 14 eP 12 05.00 0.1
YKA 21.17 343 eP 12 58.70 0.5
0.6s 0.60nm 3.1mb
S.D. = 0.8 on 12 of 19 obs.

? FEB 20, 1993 13h 18m 29.22±1.57s
37.091 S ±14.8km 178.145 E ±14.9km
DEPTH = 133.6 ±11.8 km
4.7mb (1 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ 0.52 166 eP 18 48.10 -0.9
eS 19 00.40
PUZ 0.98 175 eP 18 53.50 0.9
eS 19 06.90
URZ 1.43 215 P 18 56.20 -0.8
eS 19 10.80
NOZ 1.53 183 eP 18 58.90 0.7
TAZ 1.73 228 eP 19 00.50 0.0
KUZ 1.97 279 P 19 03.80 0.3
eS 19 24.40
WLZ 2.17 248 Pc 19 05.50 -0.4
eS 19 27.30
NGZ 2.89 223 P 19 16.00 0.7
CNZ 2.94 223 P 19 16.80 0.9
MNG 4.09 210 eP 19 29.60 -1.4
WB2 41.70 282 eP 26 06.30 0.0
0.4s 7.20nm 4.7mb
i 26 16.20

WRA 41.71 282 P 26 17.50 11.1X
0.5s 3.20nm
S.D. = 1.0 on 11 of 12 obs.

? FEB 20, 1993 14h 15m 50.08±0.75s
7.036 N ±14.2km 126.361 E ±39.4km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

WB2 27.94 164 eP 21 38.50 -1.1
0.5s 2.50nm 4.2mb
ASPA 31.39 167 eP 22 11.00 0.6
0.5s 4.80nm 4.6mb
BJI 34.11 346 eP 22 50.00 16.2X
1.5s 22.00nm
sP 22 59.50
MUN 39.99 193 eP 23 23.50 0.1
STK 41.34 160 eP 23 35.10 0.6
0.5s 3.10nm 4.3mb
KAF 88.52 332 eP 28 41.40 1.0
0.5s 1.50nm 4.6mb
NUR 89.65 331 eP 28 44.70 -1.1
1.0s 14.90nm 5.2mb
YKA 96.65 24 eP 29 18.00 0.0
0.3s 0.10nm 3.8mb
S.D. = 1.0 on 7 of 8 obs.

FEB 20, 1993 14h 31m 03.96±0.52s
41.010 N ±5.4km 33.348 E ±4.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.9 (ISK).

KAS 0.48 41 iPg 31 13.50 -0.2
MRFT 0.51 171 eP 31 13.90 -0.5
eS 31 20.90
KART 0.74 77 eP 31 18.10 -0.5
eS 31 28.40
BZK 1.07 27 iPg 31 24.20 0.1
eSg 31 39.20
CTK 1.17 105 eP 31 25.50 -0.3
BBTK 1.25 201 iP 31 26.80 -0.5
eS 31 43.90
KVT 2.04 87 ePn 31 43.20 4.4X
GPA 2.42 254 ePn 31 45.20 0.9
EYL 2.46 261 ePn 31 47.70 2.8X
AKKT 2.79 94 eP 31 55.20 5.6X
SVST 3.01 113 eP 31 54.30 1.6
YLV 3.05 263 ePn 31 53.00 -0.2
ITU 3.28 273 ePn 32 06.00 9.6X
iSg 32 48.00
DMK 4.28 283 ePn 32 10.30 -0.4
MLR 7.02 312 eP 33 01.00 11.6X
S.D. = 0.8 on 10 of 15 obs.

? FEB 20, 1993 14h 49m 17.23±6.92s
15.058 N ±37.8km 59.661 W ±41.1km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

CRM 1.25 256 iPc 49 40.44 0.0
S 49 56.20
MVM 1.29 247 iPc 49 41.21 0.0
BIM 1.47 249 iPc 49 43.74 0.0
FDF 1.48 258 iPc 49 43.88 0.0
S 50 01.30
SLW 1.61 230 eP 49 45.81 0.0
eS 50 03.09
SLB 1.81 228 eP 49 48.74 0.0
eS 50 08.15
SVV 2.29 221 eP 49 55.87 0.1
SVB 2.35 221 eP 49 56.40 -0.1
eS 50 22.49
S.D. = 0.1 on 8 of 8 obs.

& FEB 20, 1993 15h 07m 02.24s
38.104 N 119.081 W
DEPTH = 12.7km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM). ML 3.1
(BRK).

MEMM 0.45 166 iPd 07 11.42 -0.1
S 07 17.23
MRCM 0.63 133 iPc 07 14.28 -0.5

BONR 0.63 103 ePc 07 14.72 -0.2
MTUM 0.85 151 eP 07 18.27 -0.3
CMB 1.03 267 iPc 07 21.61 0.1
eS 07 34.97
FRI 1.22 204 iPd 07 24.93 0.3
eS 07 40.44
KVN 1.22 39 eP 07 25.25 0.4
S 07 41.97
TNP 1.47 90 eP 07 28.54 -0.1
ARN 2.08 250 ePn 07 39.88 2.5
LLA 2.10 226 iPc 07 39.94 2.4
eS 08 07.76
MHC 2.17 250 ePd 07 41.44 2.8
eS 08 09.24
ORV 2.38 308 eP 07 44.44 2.8
PHAM 2.50 205 eP 07 44.98 1.7
13 obs. associated

? FEB 20, 1993 15h 26m 00.33±3.55s
33.055 S ±17.6km 179.102 W ±24.3km
DEPTH = 76.5 ±26.1 km
5.1mb (6 obs.)
SOUTH OF KERMADEC ISLANDS (179)

PUZ 5.45 203 eP 27 20.40 -0.4
S 28 26.50
KUZ 5.63 228 eP 27 26.60 3.4X
NOZ 6.02 202 eP 27 29.00 0.4
URZ 6.04 210 eP 27 28.60 -0.3
eS 28 41.60
WLZ 6.46 221 P 27 38.50 3.7X
PAHZ 6.58 207 eP 27 38.40 2.0
MOH 6.78 206 eP 27 40.30 1.1
WHH 6.82 210 eP 27 40.30 0.4
NGZ 7.46 214 eP 27 48.40 -0.3
WAHZ 7.57 208 eP 27 45.70 -4.5X
BSZ 8.27 214 eP 28 00.10 0.4
MNG 8.71 208 P 28 03.70 -2.0
eS 29 42.70
CAW 9.29 208 eP 28 09.50 -4.1X
DIW 9.53 214 eP 28 15.30 -1.7
MRW 9.54 209 eP 28 12.60 -4.5X
eS 30 02.00
THZ 10.76 214 eP 28 30.80 -2.9X
eS 30 31.00
KHZ 11.01 210 P 28 33.40 -3.5X
S 30 35.40
LTZ 11.85 213 eP 28 44.00 -4.2X
eS 30 53.80
MQZ 12.44 209 eP 28 50.50 -5.4X
eS 31 06.40
MSZ 15.36 217 eP 29 33.00 -0.9
DZM 16.83 307 iPd 29 52.50 0.0
RMO 28.58 275 eP 31 53.70 2.5
0.7s 19.00nm 4.8mb
BFD 31.50 252 eP 32 20.20 3.3X
CTA 33.41 284 iPc 32 34.80 1.1
0.9s 14.71nm 4.9mb
WB2 43.33 276 iPc 33 55.00 -1.5
0.3s 59.50nm 5.9mb
WRA 43.34 276 P 33 56.20 -0.4
0.7s 12.40nm 4.8mb
FORT 44.52 258 eP 34 05.80 -0.2
SPA 57.12 180 iPc 35 42.90 1.6
0.6s 48.78nm 5.8mb
NVL 76.18 184 eP 37 44.00 2.8X
0.8s 16.00nm 5.0mb
YKA 108.23 26 ePKP 44 22.90 2.6X
0.9s 0.40nm
KAF 146.70 338 iPKP 45 30.00 -2.2
0.7s 11.60nm
OBN 146.74 322 ePKP 45 32.00 -0.5
e 45 45.50
e 45 52.00
BCAO 147.10 214 ePKPc 45 34.10 -0.3
0.6s 20.00nm
id 45 36.10
ic 45 38.20
NUR 148.44 338 ePKP 45 36.20 1.2
0.3s 6.00nm
UPP 150.99 343 iPKP 45 42.20 3.3X
NB2 151.21 350 PKP 45 42.80 3.5X
0.8s 7.80nm
S.D. = 1.4 on 22 of 36 obs.

* FEB 20, 1993 15h 37m 39.51±0.99s
19.265 S ±8.5km 69.464 W ±11.0km

20d 15h

DEPTH = 122.9 ± 13.4 km
4.5mb (1 obs.)
NORTHERN CHILE (123)

CNCB	2.82	30	iPc	38	25.90	1.2
			iS	39	01.00	
LPB	3.01	26	eP	38	27.00	-0.2
	1.0s	120.00nm				
			iS	39	05.00	
ZOBO	3.22	23	iP	38	30.20	0.1
	0.7s	37.85nm				
			iS	39	09.50	
			LR	39	55.00	
ARE	3.39	325	iPc	38	31.60	-0.5
			iS	39	09.00	
CCH	3.67	60	P	38	35.50	-0.4
YJA	4.70	129	ePc	38	50.00	0.1
HJA	5.46	137	eP	38	59.90	0.2
SIV	8.64	69	iPc	39	42.50	-0.6
NNA	10.14	314	eP	40	08.00	4.8X
			eS	42	11.20	
YKA	88.92	341	eP	50	21.00	0.2
	0.7s	3.20nm			4.5mb	

S.D. = 0.7 on 9 of 10 obs.

* FEB 20, 1993 16h 12m 54.16 ± 1.09s
6.931 N ± 11.1km 73.138 W ± 18.0km
DEPTH = 172.3 ± 11.0 km
3.7mb (1 obs.)

NORTHERN COLOMBIA (99)

BOG	2.47	202	iPd	13	37.00	0.1
			eS	14	09.00	
SDV	3.15	52	iPnd	13	45.00	0.0
			iSn	14	23.30	
TOV	4.36	49	iPnc	14	00.30	-0.1
			iSn	14	49.10	
ZOBO	23.60	168	P	17	50.00	-1.3
LPB	23.84	168	eP	17	55.00	1.6
CNCB	24.13	168	Pc	17	55.00	-1.4
SIV	25.72	152	P	18	11.50	1.1
BAO	33.51	132	iPc	19	19.50	-0.1
YKA	63.15	340	eP	23	05.60	0.1
	0.7s	0.80nm			3.7mb	

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

? FEB 20, 1993 16h 13m 29.54 ± 0.95s
40.993 N ± 10.7km 28.798 E ± 7.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

ISK	0.21	70	iPg	13	33.40	-0.7
			iSg	13	35.90	
CTT	0.32	299	iPg	13	36.40	0.2
			eSg	13	43.40	
HRT	0.68	104	ePg	13	43.90	0.8
KCT	0.82	204	ePn	13	45.00	-0.4

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

? FEB 20, 1993 16h 22m 05.79 ± 1.24s
54.779 N ± 20.6km 160.952 E ± 24.9km
DEPTH = 33.0km (normal)

NEAR EAST COAST OF KAMCHATKA (218)

MAT	24.01	230	eP	27	18.00	-0.2
YKA	41.59	44	eP	29	51.10	-0.4
	0.6s	0.20nm			3.0mb X	
KAF	58.13	337	iP	31	57.20	-0.7
	0.2s	1.20nm			4.6mb	
NUR	59.93	337	eP	32	09.80	-0.6
	0.4s	1.00nm			4.3mb	
NB2	62.06	344	P	32	24.00	-1.0
	0.5s	0.70nm			4.0mb	
LOR	76.50	344	eP	33	53.70	0.0
	0.6s	2.05nm			4.3mb	
SSF	76.76	344	eP	33	55.20	0.1
AVF	77.05	344	eP	33	56.90	0.2
LPL	77.71	342	eP	34	01.90	1.2
	0.6s	3.25nm			4.5mb	
LPG	77.73	342	eP	34	02.20	1.4
	0.7s	3.40nm			4.5mb	

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

% FEB 20, 1993 16h 28m 39.48 ± 0.86s
38.930 N ± 7.3km 29.695 E ± 8.0km

DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

ALT	0.35	69	iPg	28	45.60	-0.9
			iSg	28	50.50	
KHL	0.62	193	ePg	28	52.20	0.3
			eSg	29	00.70	
DST	1.07	309	iPn	28	58.00	-2.1
GPA	1.44	19	ePn	29	07.00	0.7
YLV	1.65	351	iPn	29	10.30	1.0
EYL	1.67	12	ePn	29	09.40	-0.2
KCT	1.67	322	ePn	29	10.40	0.8
BNT	1.98	317	ePn	29	14.30	0.3

S.D. = 1.2 on 8 of 8 obs.

FEB 20, 1993 17h 33m 31.93 ± 0.33s
32.380 N ± 5.6km 90.110 E ± 4.6km
DEPTH = 27.6km (2 depth phases)
4.6mb (27 obs.) 4.2Msz (2 obs.)

XIZANG (306)

LSA	2.82	161	Pn	34	21.00	4.5X
GUN	5.77	221	P	34	58.30	0.1
KKN	6.20	224	P	35	03.80	-0.4
DMN	6.44	224	P	35	08.00	0.4
GKN	6.44	229	P	35	06.80	-0.7
GTA	10.54	46	Pd	36	03.50	-0.9
	1.5s	63.00nm			5.7mb X	
Z	13s	2.36um			5.2Msz	
E	10s	1.54um				

WMQ

	11.58	351	eP	36	18.00	-0.5
	1.5s	18.00nm			5.1mb	
Z	14s	1.56um			4.8MszX	
N	10s	1.56um				

CD2

	11.72	94	Pd	36	22.80	2.4
Z	10s	2.47um				
LZH	11.95	68	eP	36	40.00	16.4X
	0.5s	20.00nm				
Z	10s	1.30um				

LZH

	11.95	68	eP	36	27.00	3.4X
	1.2s	18.00nm			5.2mb	
Z	12s	2.42um			5.6MszX	
N	12s	3.30um				

KMI

	13.22	120	eP	36	40.00	-0.6
	0.5s	20.00nm			5.4mb	
Z	10s	1.30um			3.9Msz	
		sP	36	52.00		

KSH

	13.44	306	eP	36	45.00	1.6
	1.0s	20.00nm			5.0mb	
Z	10s	1.50um			4.1MszX	
GYA	15.58	108	P	37	09.20	-2.2
	1.0s	31.00nm			4.5mb	
Z	12s	1.01um			4.6Msz	

CHTO

	15.67	147	eP	37	14.70	2.2
XAN	15.83	79	P	37	12.80	-1.8
	1.0s	14.00nm			4.1mb	
Z	10s	1.66um			4.5MszX	
N	10s	0.91um				
		pP	37	20.00		
		sP	37	26.00		

BTO

	17.96	57	eP	37	40.00	-1.3
N	12s	0.51um				
E	14s	0.68um				
HY8	18.19	218	eP	37	43.00	-1.3
	1.1s	25.00nm			4.3mb	
NST	18.96	149	eP	37	56.00	2.3
TIY	19.02	68	eP	37	52.70	-1.6
Z	12s	2.53um				
N	12s	2.50um				

HHC

	19.15	58	P	37	56.00	0.1
	1.2s	22.00nm			4.3mb	
QUE	19.91	270	eP	38	04.40	-0.1
WHN	20.75	89	eP	38	13.00	0.0
Z	12s	1.20um			4.5MszX	
N	14s	1.92um				
E	14s	1.62um				

GBA

	21.99	215	P	38	29.00	3.4X
BJI	22.32	63	eP	38	30.00	1.2
	1.2s	20.00nm			4.5mb	
Z	18s	0.59um			4.1Msz	
N	13s	2.38um				

IRK

	22.40	23	eP	38	29.80	0.3
	1.6s	16.00nm			4.2mb	
Z	16s	0.51um			4.0MszX	
N	15s	0.37um				
E	16s	0.34um				
		e	38	42.00		
		e	38	52.70		
		LR	47	05.00		
TIA	22.61	73	eP	38	32.00	0.3
Z	18s	1.26um			4.4Msz	
N	10s	0.89um				
E	13s	1.15um				
NJ2	24.29	83	eP	38	50.00	2.0
Z	14s	0.59um			4.2MszX	
MAIO	25.53	287	eP	39	01.00	1.1
	1.0s	12.50nm			4.5mb	
CN2	29.84	57	eP	39	39.00	0.0
	1.0s	5.80nm			4.3mb	
Z	16s	0.88um			4.5MszX	
N	13s	1.08um				
E	13s	0.27um				

ELL

	49.06	293	eP	42	19.50	0.7
KAF	49.76	326	iP	42	36.30	12.7X
	1.0s	9.30nm				
MLR	50.34	305	eP	42	29.00	0.5
NUR	50.43	324	eP	42	36.00	7.3X
NB2	56.98	325	P	43	16.00	-1.1
	0.8s	2.50nm			4.3mb	

GEC2

	57.90	311	P	43	22.60	-1.1
	0.6s	1.20nm			4.1mb	
		e	43	26.50		
KHC	57.91	311	eP	43	25.00	1.3
CDF	62.11	312	eP	43	57.10	4.4X
BSF	62.60	311	eP	44	00.30	4.4X
LPG	63.40	309	eP	44	06.40	4.9X
	0.7s	4.95nm			4.7mb	

LPL

	63.41	309	eP	44	06.30	4.8X
	0.6s	4.35nm			4.8mb	
LOR	64.66	311	eP	44	13.40	4.0X
LBF	64.69	311	eP	44	13.60	4.0X
SMF	64.90	311	eP	44	15.10	4.2X
	0.7s	3.40nm			4.6mb	

SSF

	64.96	311	eP	44	15.60	4.3X
	0.7s	4.30nm			4.7mb	
AVF	65.16	311	eP	44	17.00	4.5X
AVY	65.17	225	eP	44	10.80	-2.4
VTY	65.41	225	eP	44	13.20	-1.4
TCF	66.08	311	eP	44	23.40	4.9X
	0.6s	4.25nm			4.7mb	

WRA

	67.07	135	P	44	25.80	0.7
	0.4s	1.10nm			4.3mb	
WB2	67.07	135	eP	44	23.30	-1.8
	0.9s	3.80nm			4.5mb	
ASPA	69.68	137	eP	44	44.60	3.4X
	0.8s	5.10nm			4.7mb	

IMA

	70.48	23	eP	44	46.00	0.3
	0.9s	4.17nm			4.5mb	
8CAO	72.09	264	iPd	44	56.80	0.7
	0.4s	8.00nm			5.1mb	

FBA

	73.13	22	eP	45	01.10	-0.2
	0.8s	7.48nm			4.8mb	
PMR	74.86	25	eP	45	11.69	0.3
	1.0s	10.00nm			4.8mb	

KLU

	76.07	24	eP	45	19.34	0.9
BALM	77.61	23	eP	45	27.77	0.7
YKA	83.39	11	eP	45	56.70	-0.8
	0.7s	2.30nm			4.4mb	

* FEB 20, 1993 20h 32m 19.64±0.49s
52.754 S ±11.9km 73.422 E ±11.9km
DEPTH = 10.0km (geophysicist)
5.1mb (14 obs.)

KERGUELEN ISLANDS REGION (433)

NVL	32.32	213	eP	38	44.00	-6.4X
	1.2s	25.00nm			5.0mb	
SPA	37.43	180	iPc	39	34.90	0.5
	1.2s	90.14nm			5.4mb	
WRA	56.83	79	P	42	06.10	-0.4
	0.8s	5.70nm			4.7mb	
WB2	56.83	79	eP	42	05.00	-1.6
	0.9s	9.60nm			4.8mb	
ARMA	59.51	101	eP	42	25.30	0.0
	1.1s	18.00nm			5.1mb	
BRS	62.40	100	iPd	42	44.50	-0.4
	1.0s	3.00nm			4.4mb	
CTA	63.91	89	iPc	42	54.50	-0.4
GBA	66.17	4	P	43	09.00	-0.3
HYB	70.02	5	eP	43	33.50	0.2
NST	71.95	27	eP	43	48.00	3.0X
BCAO	73.28	302	iPc	43	45.00	-8.0X
	1.0s	15.00nm			5.0mb	
CHTO	74.63	25	eP	44	00.50	-0.1
	1.1s	14.43nm			4.9mb	
DMN	80.67	10	P	44	34.00	-0.2
KKN	80.87	11	P	44	34.00	-0.3
GKN	81.01	10	P	44	35.60	-0.2
GUN	81.05	11	P	44	36.20	-0.1
NDI	81.16	3	eP	44	35.00	-1.3
KMI	81.65	27	Pd	44	40.50	1.2
	2.0s	70.00nm			5.4mb	
QUE	82.78	354	eP	44	47.30	2.3
LSA	83.55	15	iPc	44	49.60	0.3
	1.2s	35.00nm			5.4mb	
KIC	87.91	283	P	45	09.52	-1.1
	1.1s	26.00nm			5.4mb	
LIC	87.97	283	P	45	09.76	-1.2
	0.9s	16.00nm			5.3mb	
TIC	88.30	283	P	45	11.44	-1.1
	1.1s	25.00nm			5.5mb	
MAIO	89.51	349	eP	45	17.00	-0.9
KSH	91.86	2	eP	45	29.50	0.9
WMO	96.98	10	eP	45	52.80	0.8
	1.0s	4.40nm			5.0mb	
BRW	151.31	31	(PKP)	52	08.17	1.2
PV10	165.52	172	ePKP	52	27.09	2.2
YKA	169.34	21	ePKP	52	21.60	-4.9X
	0.3s	0.20nm				

S.D. = 1.0 on 25 of 29 obs.

* FEB 20, 1993 21h 40m 07.88±0.72s
42.383 N ±7.4km 19.160 E ±5.6km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (3B3)

ML 1.6 (TTG).

TTG	0.09	58	iPg	40	11.44	1.0
			iSg	40	14.00	
BDV	0.27	248	iPg	40	14.00	0.5
			iSg	40	18.88	
ULC	0.42	171	iPg	40	16.44	-0.1
			iSg	40	23.31	
HCY	0.49	278	iPg	40	17.41	-0.5
			iSg	40	25.50	
PVY	0.64	70	iPg	40	19.95	-0.8
			iSg	40	29.76	
BRY	0.69	319	iPg	40	21.56	-0.1
			iSg	40	31.81	

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

* FEB 20, 1993 21h 45m 55.94±1.05s
42.159 N ±3.9km 125.717 W ±12.3km
DEPTH = 10.0km (geophysicist)

OFF COAST OF OREGON (30)

ORV	4.12	128	eP	47	00.16	-0.1
VBEM	4.17	45	P	47	00.74	-0.4
TDH	4.23	41	P	47	01.88	-0.1
NLO	4.25	22	P	47	02.93	0.7
VIPM	4.40	56	P	47	03.88	-0.6
VLL	4.41	40	P	47	05.28	0.8
CROR	4.45	49	P	47	06.40	1.4
RVW	4.53	27	P	47	06.71	0.7
LVP	4.58	30	P	47	06.78	-0.1
MTMW	4.62	32	P	47	06.91	-0.5

BMW	4.67	22	(P)	47	08.09	-0.1
CDFW	4.76	32	P	47	08.95	-0.5
REMW	4.77	31	P	47	09.96	0.2
YEL	4.78	31	P	47	09.67	-0.2
GULW	4.80	37	P	47	10.44	0.4
SOSW	4.82	31	P	47	10.38	0.0
CZM	4.86	27	P	47	10.75	0.0
VGB	4.90	45	P	47	11.25	-0.2
ASR	4.97	35	P	47	12.36	-0.1
KOSW	4.99	29	P	47	12.78	0.1
LMW	5.13	27	P	47	15.37	0.6
CPW	5.16	20	P	47	14.83	-0.2
JEGM	5.27	151	eP	47	16.76	0.1
GLK	5.30	32	P	47	16.77	-0.3
LON	5.37	30	P	47	17.76	-0.4
REMR	5.42	29	P	47	18.69	-0.2
WPW	5.43	32	P	47	18.47	-0.5
GHW	5.47	26	P	47	19.79	0.4
RCS	5.51	30	P	47	19.90	-0.4
FMW	5.58	30	P	47	21.06	-0.1
GSM	5.77	28	P	47	23.83	0.1
RMW	5.99	26	P	47	27.26	0.5
TBM	6.20	34	P	47	29.82	0.1
HTW	6.30	25	P	47	31.16	0.0
JCW	6.60	23	P	47	34.94	-0.5
RPW	6.95	24	P	47	39.88	-0.4

S.D. = 0.5 on 36 of 36 obs.

* FEB 20, 1993 22h 28m 03.22±0.55s
36.736 N ±9.2km 71.356 E ±7.2km
DEPTH = 33.0km (normal)
4.3mb (6 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

QUE	7.50	211	eP	29	53.30	0.1
			eS	31	14.80	
MAIO	9.56	271	iPc	30	21.00	-0.7
			eS	32	02.00	
GKN	14.19	124	P	31	24.40	0.3
	0.4s	7.00nm			4.7mb	
KKN	14.76	123	P	31	31.40	-0.2
	0.6s	14.00nm			4.5mb	
DMN	14.76	124	P	31	31.80	0.1
GUN	15.09	122	P	31	35.60	-0.4
	0.4s	6.00nm			4.2mb	
GBA	23.67	165	P	33	13.00	0.4
NUR	37.80	324	eP	35	19.00	1.2
	0.3s	1.60nm			4.4mb	
NB2	44.37	323	P	36	12.30	0.4
	0.5s	2.40nm			4.3mb	
YKA	81.00	3	eP	40	14.30	-1.2
	0.6s	1.10nm			4.0mb	
WB2	81.88	122	eP	40	38.30	17.5X
	0.7s	2.30nm				

S.D. = 0.8 on 10 of 11 obs.

* FEB 20, 1993 22h 29m 09.52±2.28s
39.587 N ±29.3km 25.283 E ±7.0km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

ML 2.9 (THE).

EZN	0.84	73	iPg	29	23.50	-2.2
			iSg	29	34.50	
OUR	1.25	307	ePb	29	32.98	0.3
			eSb	29	49.98	
PAIG	1.28	286	ePb	29	32.86	-0.4
			eSb	29	49.30	
ALN	1.43	24	ePbc	29	35.54	0.0
			eSb	29	54.46	
SOH	1.92	310	ePb	29	42.58	-0.1
SRS	2.00	320	ePn	29	42.78	-1.0
			eSn	30	10.50	
EDC	2.12	68	ePn	29	48.00	2.5
BNT	2.17	68	ePn	29	51.10	4.9X
KNT	2.41	312	ePn	29	49.90	0.3
			eSn	30	18.30	
GRG	2.59	303	ePn	29	52.78	0.5

S.D. = 1.4 on 9 of 10 obs.

* FEB 20, 1993 22h 39m 07.13±1.10s
47.994 N ±21.8km 147.331 E ±19.9km
DEPTH = 423.8 ±20.3 km
3.8mb (6 obs.)

NORTHWEST OF KURIL ISLANDS (220)

ASAJ	5.07	222	eP	40	33.60	2.1
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KUSJ	5.23	202	eP	40	31.30	-1.9
			eS	41	36.70	
HOOJ	6.30	208	eP	40	43.60	-0.8
			eS	41	57.40	
OFUJ	9.81	207	eP	41	24.40	0.5
			eS	43	12.30	
MAT	13.28	214	iPd	42	02.20	0.0
IMA	35.16	37	ePc	45	25.90	1.7
	0.8s	3.45nm			3.8mb	
GUN	51.02	270	P	47	30.40	0.1
KKN	51.50	270	P	47	34.00	0.3
DMN	51.74	270	P	47	36.00	0.5
GKN	51.80	271	P	47	36.10	0.3
YKA	52.24	36	eP	47	38.00	-0.4
	0.6s	0.40nm			2.9mb	
KAF	60.59	332	iP	48	35.40	-1.0
	0.3s	1.50nm			4.0mb	
NUR	62.33	332	eP	48	46.90	-1.0
	0.4s	2.90nm			4.2mb	
NB2	65.70	338	P	49	08.80	-0.6
	0.5s	1.40nm			3.9mb	
GEC2	75.52	330	P	50	07.80	0.2
	0.6s	0.78nm			3.6mb	

S.D. = 1.1 on 15 of 15 obs.

* FEB 20, 1993 23h 18m 55.28±1.04s
22.866 S ±23.7km 174.179 W ±16.1km
DEPTH = 33.0km (normal)
5.0mb (17 obs.)

TONGA ISLANDS REGION (174)

BKM	17.28	284	iP	22	56.70	1.0
DZM	17.93	269	iPc	23	04.40	0.5
BRS	30.20	255	iP	25	04.00	-1.1
ARMA	31.39	249	eP	25	16.10	0.5
	0.8s	12.00nm			4.8mb	
RMQ	33.80	256	iPd	25	36.00	-0.5
	0.9s	15.00nm			4.9mb	
CMS	36.44	248				

20d 23h

YKA 97.20 24 eP 32 24.70 -0.5
0.8s 0.70nm 4.2mb
OJC 150.58 342 ePKP 38 45.40 5.9X
KSP 150.90 346 ePKP 38 46.00 6.1X
BRG 151.33 349 iPKP 38 48.60 8.1X
0.8s 27.00nm
SPC 151.36 340 ePKP 38 49.40 8.5X
VRI 151.45 329 ePKP 38 49.00 8.1X
MOX 151.90 352 ePKP 38 50.50 9.1X
1.3s 15.00nm
PRU 152.08 348 PKPc 38 50.30 8.6X
e 39 25.80
MLR 152.11 329 ePKP 38 50.00 7.9X
DOU 152.81 2 PKPd 38 52.30 9.6X
KHC 153.08 349 ePKP 38 52.60 9.4X
e 39 03.50
e 39 40.00
ZST 153.17 343 ePKP 39 02.90 19.6X
SRO 153.17 341 ePKP 39 03.40 20.1X
e 52 33.80
WLF 153.25 360 PKP 38 53.10 -7.3X
GEC2 153.33 348 PKP 38 53.10 9.5X
0.8s 2.04nm
GEC2 153.33 348 PKP 38 57.10 13.5X
0.8s 2.13nm
S.D. = 1.3 on 31 of 50 obs.

? FEB 20, 1993 23h 32m 17.68±5.51s
36.936 N ±55.6km 71.112 E ±19.7km
DEPTH = 33.0km (normol)
AFGHANISTAN-TAJIKISTAN BORD REG. (717)

QUE 7.57 208 eP 34 08.70 0.0
eS 35 21.10
NDI 9.70 146 eP 34 38.00 0.0
eS 36 09.00
GKN 14.47 124 P 35 42.20 0.1
0.4s 10.00nm 4.7mb
KKN 15.04 123 P 35 49.20 -0.4
0.4s 11.00nm 4.5mb
DMN 15.04 124 P 35 49.60 -0.1
0.4s 9.00nm 4.4mb
GUN 15.36 122 P 35 54.40 0.4
S.D. = 0.3 on 6 of 6 obs.

FEB 20, 1993 23h 51m 31.21±0.39s
46.189 N ±3.3km 14.008 E ±3.9km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.7 (LJU), 3.0 (TRI), ML 3.1 (VIE).

VOY 0.18 207 iPg 51 35.80 0.6
eSg 51 39.50
LJU 0.39 111 iPg 51 39.20 -0.1
eSg 51 45.30
RBL 0.40 310 Pd 51 38.00 -1.4
eSg 51 43.90
TRI 0.51 200 ePg 51 41.00 -0.5
eSg 51 48.50
CEY 0.54 147 iPg 51 41.50 -0.6
eSg 51 51.00
FVI 0.94 296 P 51 48.20 -0.9
eSg 52 01.80
KBA 1.00 333 iPg 51 49.00 -1.3
iSg 52 03.70
VBY 1.11 128 iPg 51 52.50 0.5
iSg 52 07.50
VVI 1.12 260 P 51 53.00 0.7
eSg 52 09.90
PTJ 1.39 101 ePn 51 57.60 0.9
iSn 52 18.30
CTI 1.65 266 P 52 00.20 -0.2
eSg 52 21.40
BHG 1.72 334 iP 52 02.20 0.9
SCE 1.80 299 iPg 52 04.10 1.4
WTTA 1.95 304 iPnc 52 05.90 1.0
iPg 52 07.00
iSg 52 32.70
WATA 2.03 305 iPg 52 07.90 1.9
iSg 52 33.80
OGA 2.17 289 ePn 52 09.70 1.6
SOTA 2.19 299 iPnc 52 09.20 1.0
iPg 52 10.30
iSg 52 38.90
MOTA 2.31 301 iPnc 52 11.60 1.6
iSg 52 43.20

SAL 2.50 258 P 52 13.40 0.9
eSn 52 42.70
VKA 2.61 36 e(Pg) 52 20.00 5.9X
iSg 52 53.40
GEC2 2.67 356 Pn 52 13.90 -1.2
Pg 52 23.20
Sg 52 54.20
FUR 2.72 318 iPg 52 21.50 5.8X
SFI 2.73 215 P 52 15.70 -0.2
ARV 2.79 196 P 52 16.60 -0.2
PGD 2.82 216 P 52 16.90 -0.5
ZST 2.91 45 e(Pn) 52 18.90 0.5
i 52 27.20
e 52 51.90
i 53 03.30
CRE 2.95 210 P 52 19.70 0.7
KHC 2.96 355 Pn 52 18.20 -0.9
Pg 52 25.80
e 52 47.00
Sg 53 03.00
MDI 3.02 264 P 52 19.30 -0.6
WET 3.06 346 iPnc 52 27.00 6.6X
BDI 3.22 230 P 52 21.50 -1.3
eSn 53 00.00
ASS 3.26 198 P 52 24.40 0.9
PII 3.49 226 P 52 25.00 -1.6
VAI 3.66 267 P 52 28.00 -1.1
PRU 3.82 5 Pg 52 41.60 10.3X
e 53 03.50
Sg 53 27.80
e 53 48.00
GRF 3.97 333 e(Pn) 52 34.00 0.5
e(Pg) 52 45.10
e(Sg) 53 37.40
CKI 4.41 248 P 52 38.90 -0.8
BRG 4.69 360 iPg 52 57.70 14.0X
iSg 53 56.00
MOX 4.74 341 ePn 52 42.00 -2.4
eSn 53 35.70
eSg 54 00.80
S.D. = 1.1 on 34 of 39 obs.

FEB 21, 1993 00h 46m 20.00±0.74s
45.789 N ±7.8km 15.211 E ±5.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 2.8 (LJU), 2.5 (TRI).

VBY 0.29 174 iPg 46 26.30 0.3
iSg 46 32.50
i(Rg) 46 33.50
PTJ 0.53 78 ePg 46 30.30 -0.5
iSg 46 37.50
LJU 0.54 298 ePg 46 29.50 -1.4
eSg 46 36.40
CEY 0.55 265 ePg 46 30.60 -0.6
eSg 46 40.00
VOY 0.95 285 ePg 46 37.80 -0.4
eSg 46 50.80
TRI 1.02 266 ePg 46 39.30 0.1
eSg 46 52.90
RBL 1.32 300 P 46 44.70 0.3
eSg 47 02.40
KBA 1.82 316 iPg 46 53.00 1.2
iSg 47 17.30
FVI 1.87 296 P 46 53.30 1.0
eSg 47 17.90
S.D. = 0.9 on 9 of 9 obs.

* FEB 21, 1993 01h 35m 25.37±0.72s
44.398 N ±15.4km 147.169 E ±9.7km
DEPTH = 33.0km (normol)
4.7mb (23 obs.)

KURIL ISLANDS (221)
HHC 26.31 275 P 41 02.70 2.9
1.0s 11.00nm 4.4mb
TIY 26.89 268 eP 41 09.30 4.3X
BTO 27.50 275 eP 41 12.20 1.6
LZH 33.77 271 eP 42 07.00 0.8
1.5s 41.00nm 5.1mb
IMA 38.14 35 eP 42 43.29 0.4
0.8s 6.44nm 4.5mb
PMS 39.99 42 eP 42 59.40 1.2
0.4s 4.60nm 4.6mb
FBA 40.57 36 eP 43 03.94 1.1
0.8s 4.23nm 4.2mb

KLU 41.70 42 eP 43 13.14 0.8
WMO 41.87 291 eP 43 14.00 0.1
GUN 50.99 273 P 44 26.40 -0.1
KKN 51.49 273 P 44 30.40 0.3
DMN 51.72 273 P 44 31.80 -0.1
GKN 51.83 274 P 44 32.40 -0.2
YKA 55.26 34 eP 44 56.40 -0.8
0.6s 1.70nm 4.3mb
KAF 63.74 333 eP 45 53.10 -2.5
1.0s 14.60nm 5.0mb
WRA 65.09 193 P 46 03.50 -1.3
0.7s 0.80nm 3.9mb
FCC 65.46 30 eP 46 09.00 2.3
NUR 65.47 333 eP 46 04.40 -2.4
0.3s 3.00nm 4.9mb
GBA 66.15 266 P 46 10.00 -1.8
BGMT 66.51 49 ePd 46 13.80 -0.3
e 46 35.90
NB2 69.00 339 P 46 27.70 -1.5
0.4s 1.30nm 4.3mb
HFS 69.10 337 eP 46 27.30 -2.4
0.4s 4.20nm 4.8mb
RSSD 71.50 46 eP 46 43.84 -1.0
0.6s 1.91nm 4.3mb
PRU 77.34 331 eP 47 18.40 0.4
KHC 78.40 331 eP 47 24.00 0.1
GEC2 78.60 331 P 47 24.80 -0.3
0.5s 2.03nm 4.4mb
GRF 78.72 333 eP 47 25.10 -0.5
1.0s 9.00nm 4.7mb
CDF 81.10 334 eP 47 38.10 -0.4
FLN 82.99 339 eP 47 47.70 -0.5
0.4s 2.60nm 4.7mb
LOR 83.16 336 eP 47 48.60 -0.6
LBF 83.38 336 eP 47 49.70 -0.6
GRR 83.43 339 eP 47 50.40 -0.1
0.4s 3.40nm 4.8mb
SSF 83.45 336 eP 47 51.10 0.5
SMF 83.73 336 eP 47 51.70 -0.4
0.8s 7.95nm 4.9mb
AVF 83.74 336 eP 47 52.60 0.5
0.5s 3.20nm 4.7mb
LPF 83.81 339 eP 47 53.50 1.1
LPL 83.84 333 eP 47 52.90 0.0
0.6s 3.45nm 4.7mb
LPG 83.86 333 eP 47 53.10 0.0
0.7s 4.20nm 4.7mb
MAF 84.49 336 eP 47 56.20 0.3
TCF 84.53 336 eP 47 56.90 0.8
LSF 84.76 337 eP 47 57.30 0.1
MFF 84.89 338 eP 47 58.10 0.2
0.5s 2.85nm 4.7mb
FRF 85.61 332 eP 48 02.10 0.6
RFJ 85.63 336 eP 48 01.80 0.2
CAF 85.81 336 eP 48 03.10 0.5
0.7s 3.75nm 4.7mb
LMR 85.86 332 eP 48 02.30 -0.4
LFF 86.18 337 eP 48 04.90 0.6
0.4s 4.45nm 5.0mb
LPO 86.29 336 eP 48 05.40 0.5
S.D. = 1.1 on 47 of 48 obs.

? FEB 21, 1993 02h 33m 02.32±0.99s
45.640 N ±9.1km 27.504 E ±8.3km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)
BRD 0.34 249 iPc 33 10.00 0.6
PPE 0.58 8 eP 33 14.50 0.4
VRI 0.59 293 iPc 33 13.50 -0.8
CFR 0.65 135 iPc 33 15.00 -0.2
ISR 0.84 234 eP 33 26.50 7.9X
MLR 1.11 263 eP 33 26.00 2.8X
S.D. = 1.1 on 4 of 6 obs.

% FEB 21, 1993 02h 55m 52.65±0.78s
42.554 N ±5.6km 13.274 E ±10.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (3B1)

AQU 0.22 155 P 55 57.30 -0.2
eSg 56 01.90
ASS 0.69 319 P 56 05.90 -0.4
eSg 56 16.40
RMP 0.86 210 P 56 09.30 0.2
RDP 0.90 208 P 56 09.90 0.0
SDI 0.94 154 P 56 10.60 0.0

ARV 0.97 346 eSg 56 25.80
P 56 11.50 0.3
eSn 56 26.50
S.D. = 0.3 on 6 of 6 obs.

& FEB 21, 1993 03h 33m 08.34s
62.853 N 150.025 W
DEPTH = 82.5km
2.6mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

HUR 0.22 55 iPc 33 20.44 1.5
eS 33 29.10
TRF 0.61 349 ePd 33 23.80 0.1
eS 33 35.28
RND 0.77 43 ePd 33 24.86 -0.4
eS 33 37.27
MCK 1.01 29 iPd 33 27.75 -0.2
eS 33 42.89
SKT 1.12 219 iPd 33 29.05 -0.3
eS 33 44.90
GHO 1.20 154 iPc 33 30.26 -0.1
S 33 48.36
PWA 1.21 177 P 33 30.30 -0.1
SML 1.31 142 iPc 33 31.47 -0.3
eS 33 50.34
PLRM 1.33 161 iPc 33 32.05 0.1
PMR 1.33 161 ePd 33 31.39 -0.5
eS 33 48.43
SUA 1.43 194 ePc 33 33.46 0.0
SCM 1.62 128 ePc 33 35.47 -0.4
eS 33 56.85
PMS 1.63 172 P 33 36.20 0.3
NEA 1.78 13 ePd 33 36.95 -0.9
eS 33 57.50
CRP 1.88 213 eP 33 38.31 -1.1
eS 34 02.14
CPAM 1.89 213 eP 33 39.32 -0.1
S 34 03.04
CP2 1.91 214 eP 33 39.37 -0.4
CKN 1.93 213 eP 33 40.23 0.3
SPU 1.93 211 ePd 33 39.71 -0.3
BGL 1.95 216 eP 33 40.43 0.2
CKT 1.95 213 eP 33 40.19 -0.1
CKL 1.99 214 ePd 33 40.65 -0.2
THY 2.02 72 eP 33 41.31 0.1
PTE 2.05 166 eP 33 42.31 0.8
CCB 2.05 28 iPd 33 40.52 -1.0
S 34 06.33
HDA 2.08 40 ePd 33 40.95 -0.9
PAX 2.09 85 ePd 33 41.80 -0.4
SDG 2.09 97 ePd 33 41.99 -0.1
MDM 2.26 20 ePd 33 43.38 -1.0
FBA 2.28 25 iPd 33 43.32 -1.3
TZL 2.29 109 ePc 33 44.96 0.2
SLKM 2.36 182 eP 33 46.45 0.7
KLU 2.36 124 eP 33 44.62 -1.2
MPA 2.39 172 eP 33 46.98 0.8
GLM 2.44 27 ePd 33 45.86 -1.0
VLZ 2.45 133 eP 33 45.45 -1.6
RDT 2.55 207 eP 33 49.66 1.2
DFR 2.60 210 eP 33 48.72 -0.4
NCT 2.68 212 eP 33 50.62 0.3
RDN 2.69 210 eP 33 50.28 -0.1
REF 2.69 209 eP 33 50.72 0.2
RDW 2.72 210 eP 33 50.23 -0.7
RS2 2.73 210 eP 33 51.80 0.7
RSO 2.73 210 eP 33 51.48 0.4
RS1 2.73 210 eP 33 51.84 0.8
TTA 2.74 274 P 33 50.70 -0.4
SEW 2.77 174 eP 33 51.77 0.4
DOT 2.81 71 ePd 33 51.29 -0.7
HIN 2.98 144 ePc 33 52.62 -1.8
CVA 3.08 137 eP 33 55.04 -0.6
ILIM 3.12 208 eP 33 57.73 1.5
INE 3.16 209 eP 33 57.62 0.7
INW 3.17 209 eP 33 58.01 1.0
SVW 3.17 239 iPd 33 56.02 -0.9
TMW 3.23 78 eP 33 58.09 0.3
GLB 3.24 113 eP 33 56.69 -1.3
CNPM 3.39 190 ePc 33 59.94 -0.1
RAGM 3.56 132 P 34 06.00 3.7
RAGM 3.56 132 eP 34 00.80 -1.5
IMA 3.60 336 eP 34 01.08 -1.9
PDB 3.67 215 eP 34 03.31 -0.6
AUH 3.87 207 eP 34 06.79 0.0

CROM 3.89 120 eP 34 05.43 -1.6
KAIM 3.99 135 eP 34 08.35 0.1
TGL 4.01 118 eP 34 06.44 -2.3
BALM 4.06 113 eP 34 07.20 -2.2
FYU 4.26 27 eP 34 10.90 -1.2
CDD 4.31 206 eP 34 12.95 0.0
CTGM 4.52 111 eP 34 14.42 -1.6
YAH 4.68 119 eP 34 14.43 -3.7
YKA 16.14 75 eP 36 51.50 0.3
0.6s 0.30nm 2.6mb
71 obs. associated

* FEB 21, 1993 04h 41m 25.18±0.59s
9.670 N ±10.3km 126.457 E ±12.6km
DEPTH = 33.0km (normol)
4.6mb (8 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

IPM 25.73 260 ePd 46 55.30 0.7
0.6s 19.70nm 4.9mb
WB2 30.44 165 eP 47 35.60 -1.5
0.7s 2.80nm 4.2mb
SHL 36.40 300 iPd 48 28.50 -0.4
MEEK 36.88 192 eP 48 33.00 0.3
GUN 42.23 301 P 49 17.60 0.1
MUN 42.56 193 iPc 49 20.50 0.9
KKN 42.70 301 P 49 21.20 0.0
DMN 42.80 300 P 49 22.20 0.1
GKN 43.31 301 P 49 25.80 -0.3
GBA 48.11 280 P 50 05.00 0.8
IMA 77.11 24 eP 53 18.39 1.5
0.8s 3.10nm 4.4mb
FBA 79.51 26 (P) 53 30.70 0.8
1.0s 3.50nm 4.3mb
KAF 86.24 332 iP 54 03.60 -0.9
0.5s 2.20nm 4.6mb
NUR 87.41 331 eP 54 09.60 -0.6
0.5s 2.60nm 4.7mb
HFS 92.66 332 eP 54 32.50 -2.3
0.4s 1.20nm 4.6mb
YKA 94.23 24 eP 54 42.70 0.7
0.8s 2.00nm 4.6mb
S.D. = 1.1 on 16 of 16 obs.

* FEB 21, 1993 05h 44m 08.46±1.70s
21.285 S ±14.0km 68.929 W ±17.7km
DEPTH = 159.8 ± 17.6 km

CHILE-BOLIVIA BORDER REGION (124)

YJA 3.31 106 ePc 45 00.20 -0.9
HJA 3.79 121 ePd 45 07.60 0.8
CNCB 4.54 12 P 45 18.00 0.7
i 45 40.00
S 46 47.00
LPB 4.79 10 eP 45 20.00 -0.5
i 45 45.20
ZOBO 5.03 9 P 45 23.80 0.0
ARE 5.38 333 eP 45 28.00 -0.1
eS 46 28.00
SIV 9.12 56 iP 46 18.00 0.2
BAO 20.63 78 (P) 48 37.00 -0.1
GBA 147.07 98 PKP 03 51.00 18.7X
S.D. = 0.7 on 8 of 9 obs.

FEB 21, 1993 06h 23m 52.15±0.66s
31.128 S ± 8.0km 67.840 W ± 5.4km
DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.58 249 iPc 24 03.50 -0.3
S 24 15.00
CFA 0.59 215 ePc 24 03.10 -1.0
S 24 11.40
RTCB 0.90 246 ePc 24 09.50 0.1
S 24 21.20
RTCV 0.94 219 ePd 24 09.50 -0.7
S 24 22.50
RTPR 1.41 55 ePc 24 16.50 -1.3
RTBS 1.48 248 ePd 24 19.90 1.1
S 24 40.10
RTRS 1.69 304 ePd 24 22.40 0.6
S 24 46.50
MDZ 1.95 206 e(P) 24 28.40 2.7X
MRA 2.22 126 ePc 24 30.70 1.2
S 25 00.70
TCA 2.79 95 eP 24 38.00 0.2
(S) 25 08.00

RFA 3.67 188 ePc 24 50.30 0.1
S 25 46.40
S.D. = 0.9 on 10 of 11 obs.

% FEB 21, 1993 06h 28m 03.63±0.83s
39.106 N ± 8.3km 29.367 E ± 9.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

ALT 0.58 95 ePc 28 14.30 -1.2
eSg 28 20.80
DST 0.76 311 iPc 28 17.10 -1.4
KHL 0.79 171 iPc 28 19.70 0.6
KCT 1.38 326 iPn 28 29.00 0.1
YLV 1.46 0 iPn 28 30.20 0.1
EYL 1.58 22 ePn 28 33.00 1.2
EDC 1.70 317 ePn 28 34.00 0.6
S.D. = 1.2 on 7 of 7 obs.

* FEB 21, 1993 06h 32m 31.60±2.20s
10.110 N ±16.1km 93.100 E ±10.4km
DEPTH = 77.6 ± 20.7 km
4.8mb (5 obs.)

ANDAMAN ISLANDS, INDIA (703)

NNT 6.96 69 eP 34 12.20 -0.7
KHT 7.10 49 iPc 34 16.00 1.1
BDT 9.12 38 eP 34 43.00 0.3
0.9s 42.40nm 5.3mb
SHL 15.42 356 iPc 36 03.00 -3.2X
GBA 15.72 284 P 36 10.00 0.2
S 38 52.00
DMN 18.97 338 P 36 49.60 -0.3
GUN 18.97 340 P 36 50.20 0.2
KKN 19.07 338 P 36 49.00 -2.0
GKN 19.50 337 P 36 51.80 -3.7X
WB2 50.41 126 eP 41 22.80 -0.6
0.2s 5.10nm 5.2mb
GEC2 75.49 318 P 44 09.50 0.2
0.5s 1.17nm 4.0mb
LPG 80.32 315 eP 44 36.90 0.8
0.8s 5.25nm 4.5mb
LPL 80.34 315 eP 44 37.00 0.9
0.6s 5.50nm 4.7mb
S.D. = 1.1 on 11 of 13 obs.

? FEB 21, 1993 06h 38m 49.73±2.76s
14.780 N ±23.9km 60.793 W ±28.3km
DEPTH = 33.0km (normol)

WINDWARD ISLANDS (95)

ML 2.0 (FDF).

CRM 0.12 258 eP 38 55.69 0.0
S 39 01.70
MYM 0.24 204 iPd 38 56.79 0.0
S 39 03.70
FDF 0.35 262 eP 38 58.14 0.0
S 39 05.70
BIM 0.37 226 eP 38 58.58 0.0
S 39 06.30
S.D. = 0.1 on 4 of 4 obs.

FEB 21, 1993 07h 13m 20.12±0.12s
6.726 S ± 2.5km 127.636 E ± 3.9km
DEPTH = 368.3km (8 depth phases)
5.3mb (77 obs.)

BANDA SEA (280)

Mw 5.7 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Do to Used: GDSN

L.P.B.: 30S, 44C

Centroid Location:

Origin Time 07:13:26.2 0.3

Lot 6.29S 0.03 Lon 127.84E 0.04

Dep 365.2 1.6 Half-duration 5.1

Moment Tensor: Scale 10**17 Nm

Mrr= 0.40 0.09 Mtt=-0.78 0.12

Mff= 0.38 0.17 Mrt=-2.80 0.11

Mrf= 1.98 0.09 Mtf= 0.39 0.12

Principal Axes:

T Val= 3.33 Plg=49 Azm=223

N 0.36 7 125

P -3.69 40 29

Best Double Couple: Mo=3.5*10**17

NP1: Strike= 70 Dip= 8 Slip= 34

NP2: 306 85 97

				eS	27	47.00	
				eScS	30	37.00	
LZH	48.09	334	iPc		21	26.50	0.4
	1.6s	330.00nm					5.4mb
Z	22s	0.71um		pP	22	41.00	4.6Msz
				PcP	22	48.00	366km
				sP	23	20.00	
				ScP	26	07.00	
				S	27	54.50	
SNY	48.46	356	iPd		21	27.80	-0.8
	1.0s	160.00nm					5.3mb
Z	18s	0.71um					4.7Msz
				sP	23	21.00	
				iS	27	56.00	
AOMJ	48.49	13	P		21	29.80	1.0
HHC	49.59	344	Pd		21	37.00	-0.4
	1.2s	89.00nm					5.0mb
Z	20s	0.62um					4.6Msz
				pP	22	51.00	360km
				S	28	15.00	
VLA	49.76	4	iP		21	40.00	1.6
	1.0s	606.00nm					5.9mb
				eS	23	36.00	
BTO	49.80	342	eP		21	38.00	-1.0
	N 11s	0.13um					
	E 11s	0.25um					
				S	28	14.00	
CN2	50.33	358	Pd		21	41.80	-0.9
	1.0s	25.00nm					4.5mb
Z	20s	0.86um					4.8Msz
				eS	28	24.00	
LSA	50.40	318	iPd		21	44.60	0.5
	0.8s	57.00nm					5.0mb
MRRJ	50.43	13	iPd		21	43.20	-0.3
HOOJ	50.92	15	P		21	47.50	0.4
SAP	51.09	13	eP		21	48.00	-0.3
MDJ	51.13	2	iPd		21	48.70	0.1
	1.4s	420.00nm					5.6mb
				sP	23	40.00	
				S	28	36.00	
				sS	30	44.00	
MSZ	51.53	144	eP		21	52.30	0.8
KUSJ	51.96	16	iPd		21	54.30	-0.4
DSZ	52.39	139	eP		21	57.80	-0.3
ASAJ	52.39	14	iPd		21	57.70	-0.2
MMCZ	52.43	144	eP		21	57.80	-0.6
QRZ	52.43	137	eP		21	58.70	0.4
	0.7s	146.00nm					5.4mb
TLC	52.50	144	eP		21	57.90	-1.0
MHZ	52.55	144	eP		21	57.90	-1.4
LRCZ	52.59	144	eP		21	58.80	-0.8
CMCZ	52.59	144	eP		21	58.70	-0.9
GTA	52.63	333	iPd		21	59.50	-0.4
	0.8s	140.00nm					5.3mb
				PcP	23	04.50	
				pP	23	16.50	371km
				sP	23	57.80	
				PP	24	04.00	
				ScP	26	26.00	
				PcS	27	02.50	
				eS	28	55.00	
				ScS	31	08.00	
GUN	53.02	312	P		22	02.60	-0.7
THZ	53.12	138	eP		22	03.70	0.3
LTZ	53.20	140	eP		22	02.40	-1.5
TUZ	53.25	144	eP		22	03.40	-0.8
WLZ	53.31	133	eP		22	05.40	0.6
KKK	53.39	312	P		22	05.00	-0.8
DMN	53.42	312	P		22	05.40	-0.7
GBA	53.77	292	Pc		22	07.00	-1.4
KHZ	53.84	139	eP		22	07.80	-0.7
	0.8s	178.00nm					5.4mb
GKN	53.99	312	P		22	09.40	-0.6
HYB							

ZAK	60.67	342	iPd	22	55.50	0.0	1.4s	33.28nm	5.0mb	ELC	134.75	42	ePKP	31	58.65	1.2		
	1.9s	145.00nm			5.2mb					LMN	139.56	13	ePKP	32	10.50	4.4X		
		eS	30	38.00						TCA	140.39	163	e(PKP)	32	02.00	-6.2X		
		e	32	07.00						SGS	142.91	41	ePKP	32	10.09	-2.3		
WMO	61.91	328	P	23	03.50	-0.4	1.1s	10.77nm	4.7mb	HBF	143.16	41	ePKP	32	10.42	-2.4		
	1.0s	84.00nm			5.2mb		91.75	18 eP	25 48.20	0.9	SLA	146.22	158	ePKPc	32	19.30	0.9	
		PcP	23	40.50			91.94	29 ePd	25 47.39	-1.0	NNA	149.37	127	ePKP	32	24.00	0.5	
		pP	24	19.00	345kmx		92.39	29 eP	25 50.40	-0.1		0.1s	455.56nm					
		sP	25	02.00			1.1s	48.40nm	5.4mb	BMA	149.68	195	ePKP	32	28.00	4.3X		
		PP	25	32.00			92.65	28 iPc	25 50.49	-1.1			e	32	37.00			
		ScP	27	09.00			0.6s	16.20nm	5.2mb	ARE	150.18	141	ePKP	32	32.00	7.0X		
		S	30	55.50			93.74	25 ePc	25 55.53	-1.0	CNCB	151.98	147	PKPc	32	30.00	2.0	
		ScS	32	15.00			0.5s	1.60nm	4.4mb			i	32	36.80				
IRK	62.05	344	iPd	23	05.00	0.3	94.16	29 ePd	25 58.30	-0.4	LPB	152.14	146	PKPd	32	29.00	1.0	
	1.5s	110.00nm			5.2mb		95.84	29 eP	26 06.19	-0.2			i	32	35.90			
		e	23	36.10	128kmx		96.06	325 eP	26 07.00	-0.2			i	32	47.20			
SKR	62.23	20	eP	23	05.50	-0.4	1.1s	35.00nm	5.5mb	ZOBO	152.32	146	PKP	32	29.40	0.9		
	0.6s	100.00nm			5.5mb		96.11	249 iPd	26 08.50	0.0	Z	22s	0.08um	LR	17	30.00	4.5msz	
MOY	62.51	342	iPd	23	08.00	0.4	0.9s	4.62nm	4.7mb				iPKPd	32	38.80	6.2X		
	1.4s	156.00nm			5.4mb		99.95	340 eP	26 21.00	-3.6X	SIV	155.84	159	i	33	07.00		
UER	64.80	338	iPc	23	21.80	-0.5	101.21	332 ePd	26 28.60	-1.7			iPKPc	32	35.80	1.2		
	1.4s	80.00nm			5.2mb		0.5s	1.60nm	4.8mb		BAO	157.37	191					
		eS	31	32.80			102.21	330 eP	26 30.20	-4.6X		S.D. = 0.9	on 192 of 207 obs.					
PET	65.07	20	eP	23	25.00	1.0	1.1s	11.40nm	5.4mb									
	0.6s	480.00nm			6.4mb X		HFS	107.60	331 ePKP	31 03.00	-1.9							
		e	24	51.00	396kmx		0.5s	1.00nm										
		e	31	36.00			SLL	107.68	332 eP	26 57.90	-1.2							
BOD	65.28	352	iPd	23	24.90	-0.4	0.4s	1.10nm	5.4mb									
	1.3s	140.00nm			5.5mb		YKA	108.53	26 eP	27 03.20	0.4							
KSH	66.21	318	P	23	33.40	1.7	0.6s	0.50nm	4.9mb		YJA	0.76	51	iPd	26	39.90	-1.0	
	0.8s	60.00nm			5.4mb		YKA	108.53	26 ePKP	31 02.20	-4.3X	HJA	0.87	130	iPd	26	41.00	1.0
PRZ	66.33	322	iPc	23	34.00	1.5	0.5s	2.90nm			ANT	4.07	254	iP	27	09.00	-0.2	
	1.0s	80.00nm			5.4mb		BCAO	109.45	272 ePKPd	31 09.50	-0.3	ZOBO	6.61	343	P	27	41.00	0.4
		eS	31	53.00				0.9s	7.00nm		SIV	8.17	37	iPc	28	03.00	3.5X	
YAK	68.56	1	iPd-	23	45.10	-0.3	VBY	110.40	316 ePKP	31 12.00	1.4	BAO	18.50	71	eP	30	01.90	-0.1
	1.1s	550.00nm			6.2mb		GEC2	110.70	320 PKP	31 11.00	-0.2			e	30	02.90		
		i	24	07.00	84kmx		0.6s	2.78nm					S.D. = 1.5	on 5 of 6 obs.				
		e	26	29.00				e	32 58.90									
		iS	32	17.00			GRF	112.05	321 ePKP	31 13.60	0.0							
		i	33	05.00			SES	114.83	37 ePKP	31 18.00	-1.0	& FEB 21, 1993	07h 36m 45.67s					
QUE	68.73	306	eP	23	47.80	0.4	BSF	115.41	320 ePKP	31 19.70	-0.6	60.120 N	151.661 W					
FRU	68.86	321	eP	23	48.20	0.4	0.6s	5.75nm				DEPTH = 53.7km						
	2.0s	40.00nm			4.8mb		HAU	115.63	320 ePKP	31 20.30	-0.3	KENAI PENINSULA, ALASKA					(14)	
		e	24	15.80	110kmx		0.5s	3.45nm				<AEIC>. ML 2.8 (AEIC).						
		e	25	10.00			LCCM	115.81	42 ePKP	31 21.60	0.4	BRLK	0.53	132	eP	36	57.43	-0.2
		e	32	22.00			LPG	116.19	318 ePKP	31 22.00	-0.1			eS	37	06.01		
MGD	69.10	12	ePd	23	49.00	0.2	0.6s	3.70nm			RDT	0.59	321	eP	36	57.63	-0.7	
	0.9s	270.00nm			5.9mb		LPL	116.19	318 ePKP	31 21.90	-0.1	CNPM	0.63	160	iPd	36	58.31	-0.6
Z	16s	0.60um			4.9mszX		0.8s	7.95nm					eS	37	08.28			
E	14s	0.50um					DUG	116.74	48 ePKPc	31 24.15	1.0	RS1	0.64	302	iPd	36	58.61	-0.6
		e	24	13.00	93kmx		LOR	117.47	320 ePKP	31 24.40	0.3	RSO	0.64	303	iPd	36	58.56	-0.6
		ePPP	28	10.00			LBF	117.50	320 ePKP	31 24.00	-0.2			eS	37	08.73		
		eS	32	24.00			0.6s	2.80nm			RS2	0.65	303	iPd	36	58.64	-0.6	
ELT	69.21	335	iPd	23	49.40	-0.2	MSU	117.64	50 iPKPd	31 26.30	1.3	ILIM	0.65	267	iPd	36	58.36	-0.8
		e	24	17.00	110kmx		SMF	117.71	320 ePKP	31 24.10	-0.5			eS	37	08.72		
		e	25	13.00			SSF	117.77	320 ePKP	31 24.70	0.0	XLV	0.67	183	eP	36	58.65	-0.6
		e	28	20.00			0.4s	1.30nm			RDN	0.68	306	iPd	36	58.72	-0.8	
		iS	32	22.00			EMUT	118.33	48 iPKP	31 26.82	0.5			eS	37	09.22		
SMY	71.11	28	eP	24	02.50	1.5	BW06	118.36	45 ePKPd	31 26.14	-0.1	RDW	0.68	303	iPd	36	58.90	-0.7
MAW	74.35	201	P	24	21.00	1.5	BGF	118.38	320 ePKP	31 26.00	0.2	DFR	0.70	313	iPd	36	58.94	-0.8
ADK	75.18	32	ePd	24	24.45	0.1	0.6s	12.00nm			INE	0.70	266	iPd	36	59.04	-0.9	
	0.6s	17.55nm			5.0mb		MAF	118.68	320 ePKP	31 26.40	-0.1			S	37	09.94		
TIK	78.20	0	iPd	24	39.50	-1.0	0.7s	2.20nm			INW	0.74	267	iPd	36	59.55	-0.8	
	1.0s	135.00nm			5.7mb		SRU	118.73	49 ePKP	31 27.23	0.2			eS	37	10.99		
		e	27	46.00			TCF	118.89	320 ePKP	31 27.00	0.1	NCT	0.77	306	iPd	37	00.03	-0.7
		iS	34	00.00			0.6s	3.80nm					eS	37	11.65			
AVY	78.33	252	iPd	24	43.80	1.2	FCC	119.05	23 ePKP	31 29.00	2.3	SLKM	0.82	61	iPc	37	00.16	-1.1
VTY	78.50	252	iPd	24	44.80	1.3	LSF	119.34	320 ePKP	31 27.40	-0.3	SPU	1.08	350	iPd	37	04.14	-0.7
NRI	80.66	347	iPd-	24	53.60	0.0	0.6s	2.80nm					eS	37	18.89			
	1.0s	132.00nm			5.7mb		CAF	119.49	318 ePKP	31 28.50	0.4	SEW	1.11	90	eP	37	04.75	-0.4
		i	26	18.00	368km		0.6s	2.70nm			CKT	1.12	346	iPd	37	04.63	-0.7	
		e	28	10.00			LPO	120.16	318 ePKP	31 29.80	0.5			eS	37	19.83		
SVE	83.32	329	ePd	25	07.00	-0.4	0.6s	2.80nm			CKL	1.13	343	iPd	37	04.89	-0.7	
	2.0s	160.00nm			5.5mb		LPF	120.19	323 ePKP	31 29.40	0.2	CKN	1.14	347	iPd	37	05.21	-0.4
		e	26	33.00	374km		0.6s	8.05nm										

21d 07h

PTE	1.50	59	ePc	37	09.96	-0.7
PMS	1.53	42	P	37	11.10	0.0
CDD	1.56	221	iPc	37	11.00	-0.5
MCNL	1.65	237	ePc	37	11.50	-1.2
			eS	37	32.19	
PWA	1.77	29	P	37	14.80	0.5
SKT	1.87	2	ePc	37	15.64	-0.1
PLRM	1.93	39	eP	37	17.14	0.6
GHO	2.13	38	eP	37	18.82	-0.7
SML	2.35	42	eP	37	21.81	-0.7
HIN	2.59	82	eP	37	24.31	-1.6
SCM	2.72	49	eP	37	27.11	-0.8
VLZ	2.82	67	eP	37	26.82	-2.3
KLU	3.13	61	iPc	37	31.60	-2.2

44 obs. associated

FEB 21, 1993 08h 23m 05.18± 0.69s
 30.805 S ± 4.5km 71.850 W ± 8.1km
 DEPTH = 6.7 ± 3.0 km
 4.0mb (1 obs.)
 NEAR COAST OF CENTRAL CHILE (135)
 MD 4.6 (SAN).

JACH	2.16	151	iP	23	41.75	-0.4
			iS	24	09.22	
RTRS	2.16	74	iPc	23	41.20	-0.8
IHA	2.22	175	ePn	23	42.70	-0.3
			iPn	23	47.80	
			iSg	24	10.70	
RTBS	2.22	113	ePc	23	43.20	0.2
ROCH	2.27	162	iP	23	43.66	-0.3
			iS	24	13.38	
PEL	2.53	157	iP	23	47.38	-0.1
			iS	24	19.50	
LCCH	2.67	175	iPd	23	48.48	-0.9
			iS	24	21.20	
RTCB	2.70	105	iPd	23	50.00	0.0
SAN	2.83	159	eP	23	51.50	-0.2
FCH	2.84	153	eP	23	52.77	0.6
TACH	2.94	165	iP	23	53.03	-0.2
			iS	24	28.71	
RTCV	3.02	111	ePc	23	55.20	0.8
PCH	3.03	158	iP	23	54.64	0.1
LNK	3.16	173	eP	23	55.29	-1.0
CFA	3.20	105	e(P)	23	56.30	-0.6
			S	24	38.00	
CHCH	3.28	162	iP	23	57.89	-0.2
MDZ	3.29	130	iP	23	59.10	0.9
			i(S)	24	37.30	
CACH	3.47	163	iP	24	01.57	0.8
RTPR	4.63	85	ePd	24	16.20	-1.0
RFA	4.87	145	ePd	24	19.20	-1.6
			S	25	36.00	
MRA	5.48	109	e(P)	24	26.30	-2.9X
TCA	6.25	97	iP	24	35.50	-4.7X
			(S)	24	45.00	
ANT	7.19	11	eP	24	51.00	-2.2X
CNCB	14.37	15	eP	26	32.00	0.3
LPB	14.62	14	eP	26	34.00	-0.8
ZOBO	14.85	14	P	26	37.00	-1.0
	0.8s	3.76nm			4.0mb	
SIV	17.74	36	iP	27	17.50	3.1X
BAO	26.54	61	eP	28	41.00	-4.7X
LIC	73.63	72	P	34	43.40	1.9
KIC	73.94	72	P	34	45.40	2.0
GBA	146.97	114	PKP	42	49.00	0.3

S.D. = 0.9 on 26 of 31 obs.

& FEB 21, 1993 08h 36m 56.00s
 36.597 N 121.198 W
 DEPTH = 8.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

LLA	0.21	84	iPc	37	00.13	-0.2
			eS	37	02.74	
SAO	0.26	310	ePc	37	01.13	-0.3
			eS	37	05.22	
PRS	0.30	208	iPd	37	02.06	-0.1
			eS	37	06.36	
PRI	0.63	136	iPc	37	08.19	-0.4
			eS	37	23.30	
COE	0.76	330	eP	37	11.35	0.3
GCC	0.77	304	eP	37	10.41	-0.8
			eS	37	23.10	
ARN	0.80	340	eP	37	11.63	-0.1

MHC	0.82	335	ePd	37	12.44	0.2
			eS	37	23.94	
PHAM	1.00	139	eP	37	13.39	-1.7
STAN	1.12	316	ePc	37	17.08	-0.1
			eS	37	35.52	
FRI	1.26	71	iPc	37	18.01	-1.5
			eS	37	34.28	
PCC	1.31	314	ePd	37	14.42	-5.9
			eS	37	29.34	
BKS	1.52	327	eP	37	23.65	0.1
CMB	1.57	24	ePd	37	23.26	-1.1
			eS	37	43.71	
HMR	1.63	343	(P)	37	25.57	0.6
BCH	1.67	147	eP	37	23.99	-1.8
			S	37	47.56	
NTYM	2.13	327	(P)	37	32.03	-0.3

17 obs. associated

FEB 21, 1993 08h 39m 25.35± 0.43s
 20.221 S ± 6.9km 133.730 E ± 4.9km
 DEPTH = 5.0km (geophysicist)
 4.6mb (8 obs.)
 NORTHERN TERRITORY, AUSTRALIA (591)
 Felt at Tennant Creek.

WB2	0.65	65	iPc	39	37.80	-0.5
	0.9s	595.00nm				
			eS	39	45.20	
ASPA	3.43	177	iPc	40	29.80	9.2X
			ePg	40	40.70	
			eS	41	07.80	
MTN	7.74	341	iPd	41	15.70	-5.8X
			eS	42	38.00	
FORT	11.69	205	eP	42	19.00	3.2X
CTA	11.77	92	iP	42	14.50	-2.5X
			e(S)	44	18.00	
STK	13.59	150	eP	42	41.60	0.4
			eS	44	55.80	
RMO	15.14	117	eP	43	01.40	-0.3
	0.3s	10.00nm			4.7mb	
			eS	45	43.60	
MEEK	15.27	242	eP	43	03.00	-0.4
			eS	45	46.00	
ADE	15.33	164	e(P)	43	05.50	1.3
COOL	15.53	224	eP	43	07.00	0.2
			eS	45	55.00	
CMS	15.62	138	iPc	43	07.00	-0.9
	0.3s	6.00nm			4.3mb	
			eS	45	57.40	
KLB	18.27	229	eP	43	40.20	-1.1
MRWA	18.41	237	eP	43	44.00	0.8
			eS	47	00.00	
BAL	18.51	233	eP	43	43.00	-1.3
	0.4s	17.00nm			4.6mb	
			eS	47	02.00	
BFD	18.56	157	iPc	43	49.30	4.4X
	0.2s	9.00nm			4.6mb	
			eS	47	06.00	
BRS	18.82	116	iPc	43	50.00	1.8
	0.6s	5.00nm			3.9mb	
ARMA	19.08	126	eP	43	53.30	1.9
	0.7s	9.00nm			4.1mb	
			eS	47	20.20	
MUN	19.58	230	eP	43	57.90	0.6
			eS	47	30.00	
TOO	20.09	152	iPd	44	06.50	3.8X
	0.5s	24.00nm			4.8mb	
			eS	47	42.00	
RKG	20.56	223	eP	44	10.70	3.0X
WLZ	40.22	125	eP	47	09.60	4.9X
BSZ	40.23	128	P	47	22.50	17.8X
CNZ	40.53	127	P	47	16.30	9.0X
NGZ	40.56	127	P	47	16.10	8.5X
WHH	41.16	126	P	47	12.70	0.3
WAHZ	41.26	128	P	47	19.40	6.2X
TTH	41.57	127	P	47	18.80	3.1X
PAHZ	41.57	126	P	47	13.90	-1.9
MOH	41.71	127	P	47	16.30	-0.5
NOZ	42.27	126	P	47	16.70	-4.7X
MAHZ	42.28	126	P	47	19.50	-2.0
LZH	62.74	333	eP	49	57.50	3.5X
	1.4s	21.00nm			5.2mb	
GUN	66.56	314	P	50	19.60	0.3
PKI	66.66	314	P	50	20.60	0.7
KKN	66.89	314	P	50	21.20	0.0
DMN	66.89	314	P	50	22.20	0.9
GKN	67.46	314	P	50	25.00	0.2

YKA	117.73	29	ePKP	58	13.10	-0.7
	0.5s	0.30nm				
GEC2	124.64	316	PKP	58	27.80	0.2
	0.5s	0.73nm				
			e	58	29.60	

S.D. = 1.1 on 24 of 39 obs.

? FEB 21, 1993 08h 46m 36.00± 4.93s
 37.788 S ± 35.9km 176.262 E ± 25.5km
 DEPTH = 251.0 ± 42.7 km
 NORTH ISLAND, NEW ZEALAND (159)

URZ	0.82	125	Pc	47	10.30	-0.1
			S	47	34.80	
PUZ	1.60	101	P	47	15.60	0.1
			S	47	43.80	
MNG	2.89	192	Pc	47	28.20	0.5
			S	48	05.80	
KIW	3.25	198	P	47	31.70	0.1
MTW	3.42	190	P	47	33.30	-0.2
CAW	3.44	195	P	47	34.00	0.2
DIW	3.52	210	P	47	34.60	-0.1
BLW	3.63	189	eP	47	35.90	0.0
MRW	3.65	199	P	47	36.10	0.0
			S	48	20.80	
WEL	3.68	198	eP	47	36.40	-0.1
MOW	3.71	192	P	47	36.70	-0.2
TCW	3.75	204	P	47	37.30	0.0
KHZ	5.07	203	P	47	53.30	0.1

S.D. = 0.2 on 13 of 13 obs.

& FEB 21, 1993 08h 57m 12.44s
 34.168 N 116.429 W
 DEPTH = 7.5km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.1 (PAS).

PEC	0.67	246	iPd	57	24.65	-1.2
			S	57	33.31	
PLM	0.89	204	iPd	57	28.86	-1.0
			S	57	40.73	
SSK	1.05	273	eP	57	31.67	-0.9
GSC	1.17	345	eP	57	33.77	-0.9
			S	57	49.66	
GLA	1.74	129	ePn	57	40.74	-2.5
			ePg	57	44.44	
TPNV	2.78	3	ePn	57	57.24	-1.0
MTUM	3.62	332	(Pn)	58	11.38	1.1
MSU	5.53	37	(Pg)	58	49.77	12.4

8 obs. associated

? FEB 21, 1993 09h 30m 19.59± 3.00s
 50.469 N ± 31.5km 6.799 E ± 20.1km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)

ABH	0.76	140	ePn	30	34.57	0.1
RUP	0.79	168	ePn	30	34.78	-0.2
DOU	1.46	256	iPd	30	46.30	0.3
			iS	31	04.80	
SNF	1.61	273	iP	30	47.80	-0.2

S.D. = 0.4 on 4 of 4 obs.

FEB 21, 1993 09h 37m 54.65± 0.64s
 58.300 N ± 9.2km 120.617 E ± 8.0km
 DEPTH = 33.0km (normal)
 4.3mb (7 obs.)
 SOUTHEASTERN SIBERIA, RUSSIA (656)

BOD	3.45	265	iPc	38	47.60	0.3
			eS	39	31.50	
YAK	5.87	47	eP	39	22.00	0.4
			i	40	27.00	
CIT	7.48	215	eP	39	45.00	0.8
ZAK	12.82	239	eP	40	57.00	-0.1
	0.6s	4.00nm			4.7mb	
MOY	13.04	248	eP	41	08.00	8.0X
TIK	13.81	11	eP	41	08.00	-2.1
			eS	43	37.00</	

SSE 27.21 179 eP 43 30.00 -7.0X
1.2s 25.00nm 4.7mb
NUR 44.70 316 eP 46 06.00 0.4
KIV 48.15 289 P 46 41.60 8.3X
HFS 48.83 320 eP 46 37.80 -0.3
0.4s 1.20nm 4.3mb
NB2 48.97 323 P 46 39.80 0.6
0.5s 0.60nm 3.9mb
YKA 52.24 29 eP 47 03.80 -0.3
0.8s 1.00nm 3.8mb
WRA 78.78 167 P 49 53.80 -1.4
0.6s 4.30nm 4.6mb
S.D. = 1.1 on 14 of 17 obs.

? FEB 21, 1993 09h 41m 21.94 ± 1.03s
39.074 N ± 9.2km 27.545 E ± 10.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

IZM 0.71 198 iPg 41 36.20 0.2
iSg 41 47.20
DST 0.99 57 iPn 41 40.00 -0.8
EZN 1.21 309 ePn 41 44.00 -0.4
KCT 1.33 28 iPn 41 47.50 1.0
S.D. = 1.4 on 4 of 4 obs.

% FEB 21, 1993 09h 55m 37.01 ± 0.86s
39.062 N ± 7.8km 27.669 E ± 8.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.9 (ISK).

IZM 0.74 206 iPg 55 51.70 0.2
iSg 55 54.70
DST 0.92 54 iPn 55 54.00 -0.6
EZN 1.29 307 iPn 56 00.50 -0.4
EDC 1.29 7 ePn 56 01.00 0.1
KCT 1.30 24 iPn 56 02.00 0.9
YLV 1.99 41 ePn 56 11.00 -0.2
S.D. = 0.7 on 6 of 6 obs.

* FEB 21, 1993 10h 18m 58.41 ± 1.24s
29.159 S ± 11.0km 67.586 W ± 16.7km
DEPTH = 129.5 ± 41.4 km

LA RIOJA PROVINCE, ARGENTINA (138)

RTPR 1.47 141 iPd 19 26.50 0.0
eS 19 46.90
CFA 2.50 193 e(P) 19 39.00 -0.2
S 20 09.00
RTBS 2.97 212 iPc 19 45.50 0.3
eS 20 21.00
MRA 3.62 154 e(P) 19 54.00 0.1
S 20 28.00
MDZ 3.87 196 i(P) 19 57.10 -0.2
SLA 4.79 23 ePc 20 09.80 0.0
S.D. = 0.3 on 6 of 6 obs.

? FEB 21, 1993 10h 20m 04.14 ± 1.84s
32.098 S ± 18.4km 179.724 E ± 19.3km
DEPTH = 435.9 ± 18.0 km
4.2mb (1 obs.)

SOUTH OF KERMADEC ISLANDS (179)

PUZ 6.08 191 P 21 38.80 -0.9
S 22 56.80
URZ 6.51 198 eP 21 43.80 -0.4
S 23 06.00
NOZ 6.65 191 P 21 46.60 0.9
PAHZ 7.09 197 eP 21 51.50 1.0
WHH 7.26 200 P 21 53.20 0.7
MOH 7.33 196 P 21 54.00 0.9
WAHZ 8.06 199 eP 22 01.90 0.6
MNG 9.16 201 P 22 11.90 -1.8
S 23 58.30
KIW 9.57 203 P 22 17.30 -0.9
MTW 9.66 199 P 22 18.50 -0.7
DIW 9.86 207 P 22 19.80 -1.7
MRW 9.97 202 eP 22 22.50 -0.2
THZ 11.08 208 P 22 35.70 0.5
S 24 42.30
KHZ 11.41 204 P 22 38.90 0.2
S 24 48.50
DSZ 11.52 211 P 22 40.30 0.3
LTZ 12.19 207 P 22 47.60 0.4
MQZ 12.86 204 P 22 55.40 1.1

S 25 18.00
BRS 23.84 274 iPc 24 44.00 1.5
CTA 32.22 284 iP 25 55.50 -0.6
WB2 42.25 275 eP 27 18.00 -0.9
0.4s 4.70nm 4.2mb
OBN 145.38 323 ePKP 38 52.00 0.1
0.8s 26.00nm
KAF 145.45 338 iPKP 38 50.30 -1.5
0.3s 3.80nm
NUR 147.18 337 iPKP 38 56.00 1.4
0.3s 6.10nm
BCAO 147.31 217 iPKPc 39 01.90 5.6X
0.5s 18.00nm
NB2 150.08 349 PKP 39 03.30 4.1X
0.6s 2.90nm
HFS 150.46 346 ePKP 39 03.10 3.4X
0.4s 2.10nm
S.D. = 1.1 on 23 of 26 obs.

FEB 21, 1993 11h 22m 45.12 ± 0.49s
36.652 N ± 3.1km 8.716 W ± 5.1km
DEPTH = 33.0km (normal)
WEST OF GIBRALTAR (384)
MD 3.6 (RBA). mbLg 3.5 (MDD).

EVAL 1.83 59 iPnc 23 15.62 0.9
eSn 23 35.20
CNIL 2.16 97 iP 23 20.80 1.3
PLAT 2.44 102 iP 23 24.40 0.8
ALJ 2.50 89 iP 23 25.00 0.5
TSY 2.57 119 iP 23 25.50 0.2
iS 23 51.50
LIJA 2.66 84 iP 23 27.20 0.5
CPS 2.68 108 iP 23 24.00 -2.9X
iS 23 49.00
EPRU 2.81 83 iPnd 23 29.30 0.5
eSn 23 59.80
EHOR 3.00 66 iPnd 23 31.59 0.1
eSn 24 03.80
MAL 3.46 87 ePn 23 39.00 1.0
iSg 24 15.80
AVE 3.51 162 iPn 23 39.00 0.3
iSn 24 16.00
ELUO 3.67 74 iPnd 23 40.74 -0.3
eSn 24 21.00
EPLA 3.99 31 iPnc 23 45.79 0.3
eSn 24 29.20
EGUA 4.14 86 ePn 23 47.15 -0.5
eSn 24 33.80
ECOG 4.17 80 ePn 23 48.65 0.5
eSn 24 33.60
EBAN 4.21 67 iPnd 23 48.15 -0.4
IFR 4.29 136 iPn 23 49.50 -0.5
iSn 24 33.50
PAB 4.50 49 ePg 23 53.00 0.2
iSn 24 41.00
iSg 25 13.50
JHA 4.94 187 iP 23 59.50 0.5
iS 25 51.50
EHUE 5.02 75 iPnc 23 59.00 -1.3
eSn 24 52.20
ENIJ 5.23 85 ePn 24 02.24 -0.9
eSn 24 59.00
EVIA 5.31 66 iPnc 24 02.98 -1.4
eSn 24 59.80
GUD 5.35 40 iPnc 24 04.56 -0.3
eSn 25 02.00
OUK 5.48 172 iP 24 05.50 -1.0
iS 27 03.50
EZAM 5.49 0 iPnd 24 07.80 1.1
eSn 25 07.00
TIO 5.84 168 iPn 25 10.00 58.2X
iSn 25 11.00
ERUA 5.86 11 iPnd 24 12.02 0.1
eSn 25 16.40
STS 6.23 1 ePn 24 17.23 0.1
eSn 25 25.10
ETOR 6.66 49 iPnd 24 22.37 -1.0
EMON 6.86 8 ePn 24 25.95 0.0
eSn 25 40.20
ECRI 7.64 37 ePn 24 35.77 -1.1
eSn 25 57.50
ANTZ 8.21 187 iPn 24 44.50 -0.4
eSn 26 10.00
BTH 9.19 43 iPn 24 59.20 0.8
i 26 34.50
eSn 26 40.50

EPF 9.43 45 Pn 25 01.10 -0.7
Sn 26 32.60
LFF 10.94 38 Pn 25 19.50 -2.9X
LPO 10.99 40 Pn 25 21.40 -1.6X
Sn 27 08.70
RJF 11.59 39 Pn 25 28.60 -2.6X
Sn 27 24.50
CAF 11.61 41 Pn 25 29.40 -2.2X
Sn 27 23.10
MFF 11.82 30 Pn 25 32.00 -2.3X
Sn 27 33.00
LSF 12.28 35 Pn 25 37.70 -2.8X
TCF 12.63 37 Pn 25 42.60 -2.6X
S.D. = 0.7 on 32 of 41 obs.

FEB 21, 1993 11h 38m 13.35 ± 0.69s
36.672 N ± 4.0km 8.780 W ± 6.9km
DEPTH = 33.0km (normal)
WEST OF GIBRALTAR (384)
mbLg 3.8 (MDD). MD 3.7 (RBA).

EVAL 1.86 60 iPnc 38 44.42 0.9
eSn 39 03.60
CNIL 2.22 97 iP 38 50.00 1.5
PLAT 2.50 102 iP 38 53.00 0.4
ALJ 2.55 89 iP 38 54.00 0.6
TSY 2.62 119 iP 38 54.20 0.0
iS 40 18.00
LIJA 2.71 84 iP 38 56.00 0.3
CPS 2.74 108 iP 38 53.00 -2.9X
iS 40 17.00
EPRU 2.86 83 iPnc 38 58.17 0.4
eSn 39 27.90
EHOR 3.04 67 iPnc 39 00.43 0.1
eSn 39 32.00
MAL 3.51 88 iPn 39 08.00 1.1
iSg 39 44.50
AVE 3.55 161 iPn 39 08.00 0.5
iSn 39 46.00
ELUO 3.72 75 ePn 39 09.63 -0.2
eSn 39 47.50
EPLA 4.00 31 iPnc 39 14.60 0.8
eSn 39 57.90
EGUA 4.19 86 ePn 39 16.70 0.1
eSn 39 59.30
ECOG 4.22 80 iPnc 39 17.87 0.8
eSn 39 59.90
EBAN 4.25 68 ePn 39 16.91 -0.5
eSn 39 59.50
IFR 4.34 135 iPn 39 18.00 -0.9
iSn 40 04.00
PAB 4.52 49 iPg 39 21.50 0.1
iSn 40 09.50
iSg 40 41.00
JHA 4.96 187 iP 39 28.00 0.6
iS 42 20.00
EHUE 5.07 75 ePn 39 27.77 -1.3
eSn 40 21.10
ENIJ 5.28 85 ePn 39 31.30 -0.7
eSn 40 26.60
EVIA 5.35 67 ePn 39 31.82 -1.3
eSn 40 26.70
GUD 5.37 41 ePn 39 33.25 -0.1
eSn 40 30.40
ERUA 5.85 12 ePn 39 41.02 1.0
eSn 40 44.90
TIO 5.87 167 iPn 39 39.50 -0.9
iSn 40 40.50
ETOR 6.69 50 ePn 39 51.25 -0.7
eSn 41 00.60
ECHE 6.81 62 ePn 39 52.54 -1.1
eSn 41 03.30
ECRI 7.65 37 ePn 40 04.71 -0.6
eSn 41 26.50
ANTZ 8.22 187 iPn 40 13.00 -0.3
iSn 41 40.00
BTH 9.21 43 iPn 40 25.00 -1.9X
iSn 42 05.00
EPF 9.46 45 Pn 40 29.80 -0.6
Sn 42 06.20
LFF 10.96 38 Pn 40 48.50 -2.3X
Sn 42 41.00
LPO 11.01 40 Pn 40 50.50 -1.0X
Sn 42 40.20
RJF 11.61 39 Pn 40 57.20 -2.4X
Sn 42 53.20
CAF 11.63 42 Pn 40 58.00 -2.0X

21d 11h

Sn 42 55.80
 MFF 11.83 30 Pn 41 01.20 -1.4X
 LSF 12.29 36 Pn 41 06.60 -2.3X
 TCF 12.64 37 Pn 41 11.40 -2.2X
 BGF 13.15 38 Pn 41 19.00 -1.2X
 Sn 43 33.30
 LDF 13.50 25 Pn 41 24.60 -0.2X
 SMF 13.71 39 Pn 41 26.60 -1.0X
 S.D. = 0.8 on 29 of 41 obs.

? FEB 21, 1993 12h 01m 45.82±1.02s
 44.395 N ± 6.9km 7.342 E ± 14.6km
 DEPTH = 5.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.6 (GEN).

STV 0.15 185 P 01 49.01 0.0
 S 01 51.02
 ENR 0.18 162 P 01 49.55 0.0
 S 01 52.07
 PZZ 0.20 303 P 01 50.06 0.0
 S 01 52.90
 BHB 0.45 353 P 01 54.84 0.0
 S 02 01.82
 S.D. = 0.0 on 4 of 4 obs.

* FEB 21, 1993 12h 10m 52.05s
 60.131 N 153.299 W
 DEPTH = 129.8km
 SOUTHERN ALASKA (2)
 <AEIC>.

INW 0.10 127 iPc 11 09.26 0.8
 INE 0.14 121 ePc 11 09.29 0.7
 S 11 23.51
 ILIM 0.18 107 iPc 11 09.21 0.7
 S 11 23.10
 RS1 0.43 39 iPc 11 10.39 -0.8
 RDW 0.43 34 iPc 11 10.38 -0.8
 S 11 24.73
 RS2 0.43 39 iPc 11 10.40 -0.8
 RSO 0.43 39 iPc 11 10.39 -0.8
 RDN 0.47 35 ePc 11 10.59 -0.7
 NCT 0.47 23 iPc 11 10.51 -0.8
 S 11 24.92
 OPT 0.48 176 iPc 11 10.66 -0.6
 DFR 0.55 33 iPc 11 10.76 -1.0
 PDB 0.57 233 iPc 11 10.85 -0.9
 S 11 25.67
 RDT 0.63 45 eP 11 11.39 -0.9
 AUL 0.75 185 eP 11 12.67 -0.4
 AUH 0.77 185 eP 11 12.83 -0.5
 MCNL 1.09 209 ePd 11 15.01 -1.0
 CKL 1.17 23 iPc 11 16.27 -0.8
 CKT 1.20 26 iPc 11 16.39 -0.9
 CNPM 1.21 119 ePc 11 16.13 -1.2
 S 11 34.71
 SPU 1.22 30 iPc 11 16.48 -1.0
 S 11 36.06
 BGL 1.22 21 iPc 11 17.00 -0.6
 KKN 1.23 26 ePc 11 16.88 -0.7
 CP2 1.25 24 iPc 11 17.39 -0.6
 CPAM 1.26 26 iPc 11 17.28 -0.7
 BRLL 1.27 106 eP 11 17.73 -0.2
 S 11 35.55
 CRP 1.27 26 ePc 11 17.47 -0.7
 SVW 1.51 312 P 11 19.60 -1.0
 SLKM 1.58 75 ePd 11 19.81 -1.6
 SUA 1.83 42 ePd 11 23.37 -1.2
 SEW 1.93 89 eP 11 23.72 -1.8
 MPA 1.99 78 ePd 11 24.57 -1.8
 SKT 2.05 24 ePd 11 25.80 -1.2
 PMS 2.15 57 P 11 26.50 -1.9
 PTE 2.24 69 ePd 11 26.84 -2.6
 GHO 2.70 50 eP 11 32.54 -2.8
 SML 2.95 53 ePd 11 35.57 -3.1
 HIN 3.40 83 eP 11 42.12 -2.4
 VLZ 3.58 71 eP 11 44.05 -2.8
 GLB 4.83 70 P 12 01.70 -2.2
 CROM 5.07 78 P 12 05.10 -2.1
 TGL 5.22 79 P 12 06.80 -2.4
 BALM 5.48 76 ePd 12 10.37 -2.3
 YAH 5.76 83 P 12 14.80 -1.9
 CTGM 5.96 77 ePd 12 17.33 -2.0
 44 obs. associated

? FEB 21, 1993 12h 11m 31.50±6.40s

30.821 S ± 39.3km 72.026 W ± 39.9km
 DEPTH = 23.2 ± 5.9 km
 OFF COAST OF CENTRAL CHILE (134)
 MD 4.2 (SAN).

JACH 2.22 147 iP 12 07.60 -0.1
 iS 12 30.84
 ROCH 2.31 158 iPd 12 09.11 0.0
 iS 12 32.26
 PEL 2.58 154 eP 12 12.75 0.0
 iS 12 39.67
 LCCH 2.67 172 iPd 12 14.32 0.3
 iS 12 42.21
 RTCB 2.84 104 iPc 12 17.50 1.0
 FCH 2.90 150 eP 12 17.80 0.3
 iS 12 48.74
 TACH 2.97 162 iP 12 18.31 0.1
 iS 12 49.46
 PCH 3.07 156 iP 12 19.57 -0.2
 RTLL 3.09 100 iPd 12 20.50 0.5
 LNV 3.17 171 iP 12 20.41 -0.6
 iS 12 53.29
 CHCH 3.31 160 iP 12 23.12 0.0
 iS 12 57.55
 MDZ 3.40 128 iP 12 25.50 1.2
 iS 12 46.70
 CACH 3.50 160 eP 12 26.71 0.8
 eS 13 04.09
 RFA 4.95 144 ePc 12 45.20 -1.2
 MRA 5.62 108 ePc 12 53.70 -2.0
 S.D. = 0.9 on 15 of 15 obs.

FEB 21, 1993 12h 13m 00.48±0.33s
 45.413 N ± 4.9km 5.088 E ± 3.2km
 DEPTH = 9.3 ± 2.8 km
 FRANCE (538)
 ML 3.5 (LDG), 2.9 (STR).

SSB 0.41 251 Pg 13 09.57 0.8
 Sg 13 15.47
 GRN 0.49 110 Pg 13 09.95 -0.5
 Sg 13 16.16
 COLF 0.99 277 Pg 13 20.16 0.9
 Sg 13 33.43
 RSL 1.11 75 Pg 13 20.11 -1.5
 Sg 13 34.18
 LPL 1.16 84 Pg 13 22.30 -0.1
 Sg 13 35.00
 PLDF 1.17 299 Pg 13 23.50 1.1
 Sg 13 38.98
 LPG 1.17 85 Pg 13 22.60 -0.1
 Sg 13 35.50
 RRL 1.30 112 P 13 25.15 0.4
 S 13 41.36
 LBL 1.31 263 Pg 13 26.50 1.6
 Sg 13 42.97
 EMS 1.45 62 iPd 13 27.40 0.4
 LSD 1.46 88 P 13 27.58 0.4
 S 13 45.76
 PYM 1.50 284 Pg 13 29.40 1.8
 Sg 13 48.58
 SMF 1.51 325 Pn 13 26.60 -1.0
 Pg 13 29.10
 Sg 13 48.60
 AGD 1.51 296 Pg 13 29.39 1.7
 Sg 13 48.25
 SURF 1.54 127 Pg 13 29.40 1.1
 RSP 1.55 99 P 13 29.59 1.2
 S 13 49.10
 BHB 1.64 110 P 13 30.05 0.5
 S 13 49.79
 PZZ 1.69 122 P 13 31.47 1.0
 LBF 1.75 334 Pn 13 29.80 -1.4
 Pg 13 33.70
 Sg 13 50.20
 Sg 13 55.60
 DIX 1.76 67 ePd 13 33.20 1.7X
 CDR 1.80 164 e(Pn) 13 30.70 -1.2
 e(Sn) 13 49.90
 e 13 51.10
 AVF 1.83 319 Pn 13 31.20 -1.1
 Pg 13 35.30
 Sg 13 57.40
 BGF 1.94 307 Pn 13 32.90 -1.0
 Pg 13 36.90
 Sg 14 01.40
 MAF 1.94 296 Pg 13 36.60 2.7X

Sg 14 01.70
 STV 1.97 126 P 13 34.62 0.1
 SSF 1.98 327 Pn 13 33.10 -1.4
 Pg 13 38.00
 Sg 14 02.70
 ENR 2.04 125 P 13 35.17 -0.3
 LOR 2.04 336 Pn 13 33.80 -1.6
 Pg 13 38.20
 Sg 14 03.80
 ORX 2.05 83 P 13 37.60 2.1
 LRG 2.16 155 Pn 13 35.70 -1.4
 Pg 13 41.10
 Sg 14 01.00
 Sg 14 08.30
 FRF 2.16 148 Pn 13 35.50 -1.6
 Pg 13 40.70
 Sg 14 01.20
 Sg 14 08.40
 CAF 2.19 258 Pn 13 36.70 -0.9
 Pg 13 42.70
 Sg 14 09.70
 TCF 2.19 295 Pn 13 37.20 -0.4
 Pg 13 41.00
 Sg 14 02.30
 Sg 14 10.10
 SBF 2.28 132 Pn 13 37.40 -1.5
 Pg 13 42.90
 Sg 14 05.00
 LMR 2.31 153 Pn 13 37.20 -2.1
 Pg 13 43.00
 Sg 14 04.60
 Sg 14 12.20
 IMI 2.50 126 P 13 41.90 -0.1
 HYF 2.51 318 Pg 13 48.30 6.2X
 Sg 14 19.80
 RJF 2.52 269 Pg 13 49.00 6.8X
 Sg 14 20.00
 FIN 2.53 117 P 13 41.90 -0.4
 PCP 2.60 108 P 13 43.18 -0.3
 LSF 2.63 290 Pg 13 50.70 7.0X
 Sg 14 23.50
 BSF 2.69 25 Pn 13 41.40 -3.4X
 Pg 13 49.80
 Sg 14 23.40
 HAU 2.73 18 Pn 13 42.20 -3.1X
 Pg 13 49.90
 Sg 14 24.70
 LPO 2.86 257 Pg 13 54.40 7.3X
 Sg 14 32.60
 LLS 3.08 60 ePd 13 48.60 -1.8
 LFF 3.11 263 Pg 13 57.80 7.2X
 Sg 14 39.70
 FEL 3.18 38 ePn 13 58.82 7.1X
 SLE 3.32 44 eP 14 02.10 8.4X
 CDF 3.35 26 Pn 13 50.00 -4.2X
 Pg 14 01.60
 Sg 14 45.00
 MFF 3.84 290 Pn 13 59.80 -1.1
 Pg 14 12.20
 Sg 15 00.70
 EPF 4.16 237 Pn 14 03.50 -2.1
 Pg 14 17.70
 Sg 15 12.00
 BTH 4.44 241 ePg 14 25.00 15.5X
 i 14 27.20
 Sg 15 23.50
 i 15 24.80
 i 15 43.00
 DOU 4.70 356 iP 15 03.30 50.2X
 LDF 4.78 314 Pg 14 30.10 15.8X
 Sg 15 27.10
 S.D. = 1.2 on 39 of 54 obs.

* FEB 21, 1993 12h 35m 34.91±1.66s
 36.671 N ± 7.5km 8.693 W ± 17.2km
 DEPTH = 10.0km (geophysicist)
 WEST OF GIBRALTAR (384)
 MD 2.9 (RBA), mbLg 2.9 (MDD).

EVAL 1.80 59 ePn 36 07.00 0.8
 eSn 36 26.50
 EPRU 2.79 83 ePn 36 20.90 0.4
 eSn 36 51.60
 EHOR 2.98 66 ePn 36 23.40 0.3
 eSn 36 55.00
 AVE 3.53 162 iPn 36 32.00 1.2
 iSn 37 07.00

ELUO	3.65	75	ePn	37 09.50	-0.2	ELUO	4.35	111	ePn	36 54.80	1.6	CDF	1.37	178	Pg	35 15.90	1.9	
			eSn	36 32.50					eSn	37 45.00					Sg	35 34.90		
EPLA	3.96	30	ePn	37 12.70		EMON	4.50	20	ePn	36 55.00	-0.3	DOU	1.71	282	iPc	35 20.60	1.8	
			eSn	36 37.60	0.6				eSn	37 47.00					iS	35 39.70		
EGUA	4.12	86	ePn	37 21.00		ECOG	4.97	111	ePn	37 01.40	-0.7	HAU	1.86	198	Pn	35 22.40	1.4	
			eSn	36 40.20	0.9				eSn	37 59.00					Pg	35 25.00		
EBAN	4.18	68	ePn	37 25.00		EGUA	5.17	115	ePn	37 05.40	0.6				Sg	35 48.00		
			eSn	36 39.70	-0.5				eSn	38 03.00		BSF	1.96	188	Pn	35 23.70	1.1	
IFR	4.30	136	ePn	37 24.50		EVIA	5.40	94	ePn	37 06.80	-1.4				Pg	35 27.50		
			iPn	36 41.50	-0.5				eSn	38 08.80					Sg	35 51.90		
EVIA	5.29	66	iSn	37 24.00		ETOR	5.86	72	ePn	37 14.00	-0.5	FEL	1.98	164	ePg	35 27.88	5.1X	
			ePn	36 54.40	-1.6	S.D. = 1.0	on	14 of 15 obs.				SNF	2.01	293	iP	35 25.40	2.2	
			eSn	37 50.00								LOR	3.35	223	Pn	35 41.10	-1.2	
GUD	5.32	40	ePn	36 56.00	-0.5	% FEB 21, 1993 13h 46m 56.41±1.00s									Sn	36 19.10		
			eSn	37 54.00		39.017 N ± 8.7km 27.628 E ± 10.6km									Sg	36 34.20		
TIO	5.85	168	iPn	37 03.00	-0.9	DEPTH = 10.0km (geophysicist)						LBF	3.52	219	Pn	35 43.20	-1.5	
			iSn	38 02.50		TURKEY (366)									Sn	36 23.00		
S.D. = 0.9	on	12 of 12 obs.			MD 2.8 (ISK).										Sg	36 38.90		
% FEB 21, 1993 13h 12m 34.67±0.62s					IZM	0.68	205	iPg	47 09.80	-0.2		SSF	3.66	224	Pn	35 45.20	-1.5	
15.397 N ± 7.9km 61.073 W ± 27.6km								iSg	47 20.80						Pg	35 58.40		
DEPTH = 90.0km (geophysicist)					DST	0.97	53	iPn	47 14.80	-0.1					Sg	36 45.00		
LEEWARD ISLANDS (92)					EZN	1.29	309	ePn	47 20.60	0.3	SMF	3.85	217	Pn	35 48.20	-1.2		
MGG	0.57	336	eP	12 51.30	1.1	EDC	1.34	8	ePn	47 20.00	-1.1				Pg	36 01.70		
			S	13 02.30		KCT	1.35	24	iPn	47 22.40	1.1				Sn	36 32.90		
CRM	0.66	167	iPd	12 50.87	-0.1	S.D. = 1.1	on	5 of 5 obs.				BGF	4.34	224	Pn	35 54.40	-1.9	
FDF	0.66	187	iPd	12 51.34	0.2	% FEB 21, 1993 13h 47m 24.35±1.05s									Sg	37 07.40		
			S	13 04.90		18.392 N ± 14.4km 67.377 W ± 7.6km						GEC2	4.36	100	Pn	35 56.90	0.2	
DOG	0.82	320	eP	12 51.90	-0.8	DEPTH = 13.4 ± 6.5 km									Sn	36 45.40		
MYM	0.85	168	iPd	12 52.82	-0.2	MONA PASSAGE (89)									Sg	37 10.30		
			S	13 07.80		IDE	0.10	267	iP	47 27.50	0.0						S.D. = 1.5 on 16 of 17 obs.	
SFG	0.86	352	eP	12 53.20	0.2	MGP	0.47	144	iP	47 34.00	0.1	& FEB 21, 1993 16h 07m 54.20s						
BIM	0.87	180	eP	12 53.34	0.1	APR	0.62	84	iP	47 36.50	0.1	45.655 N 113.592 W						
			S	13 09.10		PORP	0.78	115	iP	47 39.00	-0.2	DEPTH = 30.9km						
DEG	0.91	1	eP	12 53.26	-0.4	SJG	1.20	103	iP	47 46.90	0.5	MONTANA (456)						
			S	13 08.64					S	48 03.30		<BUT>. ML 3.2 (BUT).						
S.D. = 0.7	on	8 of 8 obs.			CPD	1.43	104	iP	47 49.60	-0.4	HBMT	0.70	78	eP	08 07.40	-0.7		
? FEB 21, 1993 13h 24m 40.13±0.90s								S	48 09.60		BUT	0.80	63	eP	08 09.60	0.2		
39.634 N ± 8.1km 21.858 E ± 8.3km					LPR	1.43	93	iP	47 49.90	-0.1				iS	08 20.50			
DEPTH = 10.0km (geophysicist)					S.D. = 0.4	on	7 of 7 obs.				LRM	0.82	78	eP	08 09.60	-0.1		
GREECE (364)					% FEB 21, 1993 13h 56m 04.91±1.54s						MCMT	0.98	147	ePd	08 11.60	-0.5		
LIT	0.67	46	ePg	24 53.74	0.2	49.934 N ± 15.3km 7.085 E ± 7.3km					BGMT	1.17	111	ePd	08 15.30	0.6		
			eSg	25 04.18		DEPTH = 10.0km (geophysicist)					HRV	1.62	49	ePnc	08 20.80	-0.3		
AGG	0.71	149	ePg	24 54.06	-0.1	GERMANY (543)					DPW	3.87	307	e(P)	08 49.97	-3.1		
			eSg	25 04.78		ML 2.7 (LDG).									7 obs. associated			
IGT	1.18	266	ePb	25 02.38	0.2	RUP	0.23	184	ePg	56 10.13	0.2	? FEB 21, 1993 16h 37m 49.97±13.17s						
			eSb	25 20.90		ABH	0.30	100	ePg	56 11.03	-0.2	35.288 S ± 114. km 71.303 W ± 34.8km						
FNA	1.21	342	ePb	25 02.38	-0.3	WLF	0.66	246	iPc	56 18.86	0.8	DEPTH = 110.0km (geophysicist)						
			eSb	25 18.82					iS	56 30.21		CENTRAL CHILE (136)						
S.D. = 0.4	on	4 of 4 obs.			CDF	1.53	175	Pg	56 33.20	0.8	CHCH	1.45	22	iP	38 16.46	-0.2		
? FEB 21, 1993 13h 30m 28.71±0.89s					DOU	1.61	277	Pg	56 52.10		TACH	1.66	11	iP	38 19.04	-0.1		
37.694 N ± 10.8km 28.395 E ± 6.9km								iS	56 56.30	4.3X				iS	38 41.29			
DEPTH = 10.0km (geophysicist)					SNF	1.89	289	iP	57 03.80	26.3X	PCH	1.79	22	iP	38 20.48	-0.3		
TURKEY (366)					HAU	1.99	194	Pn	56 38.50	-0.5	LCCH	1.82	353	iP	38 21.30	0.2		
CIN	0.26	249	iPg	30 34.00	-0.3				Pg	56 42.20					iS	38 45.31		
			iSg	30 42.00		BSF	2.11	185	Pg	57 07.30		FCH	2.13	23	iP	38 26.25	0.8	
KHL	1.09	54	ePn	30 49.00	-0.3				Sg	57 07.30		PEL	2.20	14	eP	38 25.87	-0.2	
IZM	1.14	308	iPn	30 50.30	0.3				Pg	56 44.60	3.7X				iS	38 54.86		
ELL	1.53	128	ePn	30 56.50	0.2	SSF	3.73	221	Pn	57 09.90		ROCH	2.32	6	eP	38 28.07	0.2	
S.D. = 0.5	on	4 of 4 obs.							Sg	57 02.50	-1.3				iS	38 58.22		
% FEB 21, 1993 13h 35m 45.49±2.00s					SMF	3.94	215	Pg	58 01.10	12.1X	JACH	2.67	13	iP	38 32.02	-0.3		
39.207 N ± 9.6km 9.391 W ± 19.2km									Sg	58 10.20					iS	39 05.43		
DEPTH = 10.0km (geophysicist)					GEC2	4.46	102	Pn	57 14.30	0.2							S.D. = 0.4 on 8 of 8 obs.	
PORTUGAL (376)									Sg	58 04.40		% FEB 21, 1993 17h 00m 12.06±1.09s						
mbLg 3.1 (MDD).					S.D. = 0.9	on	7 of 11 obs.					53.367 N ± 16.1km 107.872 E ± 21.3km						
EVAL	2.63	127	ePn	36 28.70	-0.1	FEB 21, 1993 14h 34m 48.83±0.64s						DEPTH = 10.0km (geophysicist)						
			eSn	37 00.40		49.776 N ± 7.2km 7.195 E ± 6.6km						4.0mb (2 obs.)						
EPLA	2.70	70	ePn	36 31.00	1.3	GERMANY (543)						LAKE BAYKAL REGION, RUSSIA (327)						
			eSn	37 04.00		ML 2.9 (LDG), 2.5 (BNS).						IRK	2.42	245	ePd	00 52.10	-0.2	
EZAM	2.99	10	ePn	36 34.80	1.1	RUP	0.11	230	ePg	34 52.89	1.1				ePg	00 55.00		
EHOR	3.53	112	ePn	36 40.70	-0.8				e	01 03.10					e	01 16.10		
			eSn	37 23.00		ABH	0.25	65	ePg	34 53.80	-0.4				e	01 19.10		
ERUA	3.61	27	ePn	36 42.00	-0.6	WLF	0.69	261	iPc	35 01.63	-0.7				eSg	01 26.00		
STS	3.73	10	ePn	36 43.70	-0.6				iS	35 12.80					LR	01 46.00		
			eSn	37 28.00		TNS	0.93	61	iPnd	35 06.30	-0.2	YAK	14.47	45	eP	04 21.00	42.4X	
PAB	3.92	83	ePg	37 27.00	39.9X				iSn	35 18.80								
			iSg	37 47.00		BNS	1.19	359	iPg	35 09.90	-1.1							
EPRU	3.97	123	ePn	36 47.50	-0.3				iSg	35 23.60								
GUD	4.27	69	ePn	36 52.50	0.3													
			eSn	37 42.00														

21d 17h

KKN 30.52 222 P 06 27.80 0.1
 GKN 30.59 223 P 06 28.40 0.1
 DMN 30.75 222 P 06 29.80 0.0
 HFS 47.84 318 eP 08 51.50 0.2
 0.5s 0.80nm 4.1mb
 YKA 59.75 21 eP 10 18.60 -0.2
 0.8s 1.00nm 4.0mb
 S.D. = 0.3 on 6 of 7 obs.

* FEB 21, 1993 17h 25m 03.81±0.91s
 12.713 N ±13.3km 89.284 W ±12.9km
 DEPTH = 33.0km (normal)
 4.4mb (9 obs.)
 OFF COAST OF CENTRAL AMERICA (76)

SCX 5.15 321 (P) 27 01.50 40.9X
 PPM 10.98 306 eP 27 44.00 1.7
 MIAR 22.08 351 eP 29 54.84 -2.9X
 0.7s 35.23nm 4.9mb
 PRM 22.19 15 eP 29 59.55 0.8
 JSC 22.68 17 ePd 30 04.11 0.5
 OLY 22.78 355 eP 30 05.16 0.6
 LHS 23.00 18 iPd 30 07.41 0.7
 MEO 23.54 341 iPd 30 10.50 -1.5
 WMOK 23.56 340 ePd 30 10.77 -1.5
 0.7s 11.37nm 4.5mb
 FVM 25.19 358 eP 30 25.73 -2.2
 0.7s 19.92nm 4.8mb
 ACO 25.47 341 iPc 30 30.20 -0.4
 ALQ 27.05 328 eP 30 48.50 3.1X
 0.9s 3.78nm 4.0mb
 TUC 27.73 318 eP 30 54.03 2.5X
 0.9s 6.92nm 4.3mb
 GOL 30.40 335 eP 31 14.61 -1.0
 1.0s 4.31nm 4.2mb
 ARUT 32.98 323 iP 31 38.21 0.1
 RSSD 33.77 341 eP 31 43.84 -1.0
 0.7s 3.90nm 4.4mb
 RSNY 34.15 19 eP 31 51.57 3.7X
 EEO 34.90 12 eP 31 55.00 0.7
 BONR 36.05 319 eP 32 05.49 0.9
 BGMT 37.76 333 eP 32 19.80 1.0
 ULM 37.82 353 eP 32 19.50 0.6
 LMN 39.00 27 eP 32 30.00 1.1
 SIV 39.90 135 P 32 36.60 -0.1
 JAQ 42.38 12 eP 32 53.50 -3.0X
 FCC 46.10 357 eP 33 27.50 1.1
 YKA 52.90 346 eP 34 15.00 -3.6X
 0.8s 3.50nm 4.4mb
 RES 62.04 358 eP 35 21.00 -1.9
 APO 85.42 29 eP 37 35.90 -3.2X
 0.4s 0.50nm 4.1mb
 WB2 137.61 254 ePKP 44 32.70 5.5X
 0.6s 2.40nm
 CHTO 147.64 345 ePKP 44 44.00 -0.6
 HY8 147.74 22 ePKP 44 45.00 0.2
 GBA 150.73 27 PKP 44 53.00 3.6X
 S.D. = 1.2 on 22 of 32 obs.

% FEB 21, 1993 18h 03m 48.14±2.05s
 38.760 N ±15.5km 24.309 E ±11.1km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.0 (THE).

PAIG 1.26 337 ePb 04 10.82 -0.8
 eSb 04 31.38
 AGG 1.57 280 ePb 04 15.50 -0.6
 eSb 04 39.46
 LIT 1.94 314 ePn 04 21.82 0.3
 eSn 04 49.54
 THE 2.14 331 ePn 04 24.14 -0.2
 SOH 2.19 341 ePn 04 24.78 -0.3
 eSn 04 55.70
 SRS 2.42 347 ePn 04 28.74 0.4
 eSn 05 00.42
 ALN 2.52 32 ePn 04 29.58 -0.1
 eSn 05 03.78
 KNT 2.63 336 ePn 04 32.02 0.6
 eSn 05 07.10
 GRG 2.64 327 ePn 04 31.78 0.3
 eSn 05 04.66
 IGT 3.19 285 ePn 04 39.62 0.4
 S.D. = 0.5 on 10 of 10 obs.

% FEB 21, 1993 18h 16m 05.80±0.71s
 40.695 N ±5.4km 22.754 E ±5.9km

DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.8 (THE).

THE 0.17 111 ePgc 16 09.20 -0.5
 eSg 16 11.40
 GRG 0.37 314 ePg 16 13.56 0.1
 eSg 16 19.12
 SOH 0.47 74 ePg 16 14.96 -0.5
 eSg 16 21.36
 KNT 0.48 13 ePg 16 15.55 0.0
 eSg 16 22.40
 LIT 0.63 199 ePg 16 18.00 -0.4
 eSg 16 27.70
 SRS 0.76 56 ePg 16 21.04 0.3
 eSg 16 30.04
 PAIG 1.04 137 ePg 16 26.44 1.0
 eSg 16 41.32
 S.D. = 0.6 on 7 of 7 obs.

? FEB 21, 1993 18h 21m 58.13±5.97s
 14.776 N ±28.9km 60.715 W ±50.6km
 DEPTH = 33.0km (normal)
 WINDWARD ISLANDS (95)
 ML 2.6 (FDF).

CRM 0.20 264 iPd 22 04.75 0.1
 S 22 13.00
 MVM 0.28 219 eP 22 05.59 -0.1
 S 22 14.80
 FDF 0.42 264 iPd 22 07.57 -0.1
 S 22 18.10
 BIM 0.43 233 iPc 22 07.84 0.1
 S 22 18.50
 S.D. = 0.2 on 4 of 4 obs.

? FEB 21, 1993 18h 48m 13.86±2.93s
 34.594 N ±33.0km 25.417 E ±29.7km
 DEPTH = 106.3 ±37.7 km
 3.6mb (3 obs.)

CRETE (370)
 ZNT 8.37 104 eP 50 13.80 -0.3
 eS 51 41.30
 HRI 8.68 96 eP 50 18.50 0.2
 SAGI 8.95 117 eP 50 22.30 0.4
 eS 51 54.70
 MBH 9.35 118 eP 50 27.10 -0.3
 GEC2 16.68 332 Pn 52 02.40 0.0
 0.9s 1.89nm 3.3mb
 HFS 26.67 347 eP 53 44.40 0.1
 0.3s 1.00nm 3.8mb
 NB2 28.00 345 P 53 56.20 -0.1
 0.4s 0.60nm 3.6mb
 S.D. = 0.4 on 7 of 7 obs.

FEB 21, 1993 18h 58m 17.55±0.15s
 2.447 N ±2.8km 128.339 E ±4.1km
 DEPTH = 159.8km (7 depth phases)
 5.2mb (63 obs.)
 HALMAHERA, INDONESIA (267)

MNI 3.64 254 eP 59 12.00 -2.0
 eS 59 53.30
 DAV 5.37 329 eP 59 35.50 -1.3
 iS 00 39.90
 KKM 12.61 287 ePd 01 11.20 -1.4
 MTN 15.44 170 eP 01 48.00 -0.3
 BAG 15.84 332 eP 01 53.00 -0.3
 eS 04 52.00
 KHKI 16.63 230 ePc 02 03.60 0.8
 e 04 45.50
 WB2 23.02 165 iPd 03 09.80 0.3
 0.4s 15.30nm 4.8mb
 e 03 21.30 45kmX
 ePcP 06 55.70
 HKC 24.06 326 eP 03 20.70 1.2
 OIZ 24.48 314 P 03 23.80 0.3
 KGM 25.00 270 eP 03 32.00 3.6X
 GZH 25.14 326 Pc 03 30.00 0.5
 ASPA 26.52 169 iPc 03 41.70 -0.5
 0.4s 39.10nm 5.4mb
 iPcP 07 03.00
 iS 08 02.50
 IPM 27.34 275 ePc 03 49.10 -0.6

CTA 28.47 143 iP 04 00.00 0.2
 KUMJ 30.02 4 P 04 12.30 -1.1
 NNT 30.06 291 eP 04 04.80 -9.1X
 WEEK 30.40 197 eP 04 15.00 -1.8
 0.3s 9.00nm 5.0mb
 NJ2 30.77 344 Pc 04 20.00 0.0
 WHN 30.92 336 ePc 04 22.00 0.7
 1.0s 44.00nm 5.1mb
 GYA 31.67 321 iPc 04 28.60 0.6
 1.0s 35.00nm 5.1mb
 PcP 07 16.00
 KHT 31.80 294 iPd 04 30.10 0.9
 TKSJ 31.82 9 P 04 28.60 -0.5
 WKYJ 32.33 11 P 04 33.00 -0.6
 FORT 33.04 180 iPd 04 39.10 -0.6
 CHTO 33.06 302 iPc 04 40.40 0.3
 0.8s 31.11nm 5.1mb
 eSg 15 04.78
 KMI 33.42 315 Pc 04 44.50 1.1
 1.3s 120.00nm 5.4mb
 MRWA 33.63 200 eP 04 43.60 -1.3
 TSRJ 33.68 11 P 04 44.50 -0.7
 COOL 33.85 191 eP 04 45.00 -1.7
 BAL 34.69 198 eP 04 52.80 -1.1
 CHJJ 34.86 15 P 04 53.00 -2.3
 RMQ 34.88 147 iPc 04 55.00 -0.6
 0.7s 12.00nm 4.7mb
 MTMJ 35.08 13 P 04 55.80 -1.4
 MAT 35.13 14 iPc 04 55.50 -2.1
 0.6s 45.33nm 5.4mb
 TIA 35.16 344 eP 04 57.00 -0.8
 KL8 35.31 196 eP 04 58.10 -1.0
 KAKJ 35.33 17 P 04 56.20 -3.0X
 NIJJ 35.99 15 P 05 03.00 -1.7
 MUN 36.12 198 eP 05 05.20 -0.7
 XAN 36.28 332 Pc 05 07.20 -0.1
 0.9s 54.00nm 5.3mb
 STK 36.39 161 iPc 05 08.50 0.4
 0.3s 98.70nm 6.0mb
 e 07 29.40
 CD2 36.62 323 iPc 05 10.40 0.2
 1.0s 51.00nm 5.2mb
 DL2 36.80 351 eP 05 11.70 0.2
 0.8s 65.00nm 5.4mb
 YAMJ 37.14 15 P 05 14.50 0.1
 CMS 37.62 155 iPc 05 18.30 -0.2
 0.6s 5.00nm 4.4mb
 BRS 37.87 143 iPd 05 20.00 -0.7
 0.9s 18.00nm 4.8mb
 OFUJ 38.43 17 P 05 25.50 0.3
 BJI 39.01 345 eP 05 30.00 0.0
 1.0s 59.00nm 5.3mb
 pP 06 05.00 160km
 PcP 07 38.00
 SNY 39.44 354 iPc 05 33.10 -0.3
 0.9s 45.00nm 5.2mb
 ARMA 39.52 148 iPc 05 30.10 -4.4X
 0.5s 55.00nm 5.5mb
 LZH 40.42 329 iPc 05 43.50 1.7
 1.5s 190.00nm 5.5mb
 pP 06 12.50 128kmX
 PcP 07 43.50
 HHC 41.12 341 Pc 05 47.70 0.2
 1.2s 85.00nm 5.2mb
 CN2 41.26 357 P 05 47.60 -0.7
 0.8s 7.70nm 4.4mb
 BTO 41.44 339 eP 05 49.80 -0.2
 SHL 41.93 307 iPc 05 55.40 1.1
 eS 12 03.50
 MDJ 42.01 1 eP 05 54.60 0.1
 1.3s 54.00nm 5.0mb
 TOO 42.88 160 iPc 06 03.10 1.4
 0.4s 38.00nm 5.4mb
 KUSJ 43.03 18 iP+ 06 03.00 0.2
 ASAJ 43.39 15 iP+ 06 06.00 0.3
 LSA 44.49 311 iPc 06 17.00 1.7
 0.8s 28.00nm 4.9mb
 S 12 42.00
 GTA 45.02 328 iPc 06 19.50 0.5
 1.4s 68.00nm 5.0mb
 pP 06 55.00 159km
 YSS 46.12 14 ePc 06 26.00 -1.3
 0.8s 20.00nm 4.8mb
 e 08 00.00 497kmX
 GUN 47.77 306 Pc 06 41.80 0.7
 PKI 48.02 306 Pc 06 43.00 0.1
 KKN 48.21 306 Pc 06 44.60 0.3

DMN	48.28	305	Pc	06 45.20	0.4	SLKM	83.66	29	iPc	10 29.51	0.3	FEL	0.39	86	ePg	29 13.74	-0.5
TAU	48.29	161	eP	06 45.00	0.7	ERE	83.72	310	eP	10 31.00	1.0	ECH	0.41	333	Pg	29 14.41	0.0
GKN	48.82	306	Pc	06 49.40	0.5	PMS	84.06	29	eP	10 32.40	1.2				Sg	29 20.36	
CIT	50.90	348	eP	07 05.00	0.8		0.7s		56.00nm		5.5mb	BSF	0.43	267	Pg	29 14.60	-0.3
HYB	51.06	290	iPc	07 06.00	0.1	PMR	84.30	28	iPd	10 32.74	0.5				Sg	29 20.50	
	0.9s	120.80nm			5.6mb		0.9s		58.48nm		5.4mb	WLS	0.56	355	Pg	29 17.12	-0.5
GBA	51.50	285	Pc	07 09.00	-0.2	Z	19s		0.25um		4.6Msz	CDF	0.57	350	Pg	29 17.70	0.0
ZAK	52.26	340	iPc	07 13.80	-0.5	PYA	84.91	314	iPc	10 36.00	0.2				Sg	29 25.10	
	0.7s	19.00nm			4.9mb	KIV	85.18	314	iPc	10 37.60	0.3	HAU	0.74	282	Pg	29 21.00	0.3
		e		08 23.80	332kmX	FBA	85.19	25	eP	10 36.03	-0.7				Sg	29 31.20	
IRK	53.54	342	ePc	07 22.20	-1.6		0.6s		2.15nm		4.1mb X	VITF	1.04	291	Pg	29 25.99	0.3
	1.5s	32.00nm			4.9mb	KLU	85.82	29	eP	10 40.71	0.7				Sg	29 39.75	
MOY	54.15	339	ePc	07 28.50	0.3	BALM	87.54	29	ePd	10 48.99	0.6	LOR	2.49	258	Pg	29 52.80	5.5X
	1.2s	64.00nm			5.3mb	OBN	89.01	325	iPd	10 55.00	-0.3				Sg	30 23.90	
WMO	54.69	325	P	07 32.00	-0.4		0.9s		34.00nm		5.4mb	LBF	2.50	251	Pg	29 53.50	6.0X
	1.0s	71.00nm			5.4mb				e	11 37.00	167km				Sg	30 24.50	
		pP		08 10.00	165km	HR1	90.85	303	eP	11 05.10	0.6	SSF	2.78	255	Pg	29 57.30	5.8X
		PcP		08 34.00		JVI	91.26	302	eP	11 06.80	0.5				Sg	30 32.20	
NDI	55.16	304	iPc	07 34.50	-1.4	KEV	91.64	340	eP	11 06.00	-1.2				S.D. = 0.4 on 11 of 14 obs.		
BOD	56.37	351	iPc	07 42.10	-2.0	RMN	91.97	300	eP	11 10.10	0.4				FEB 21, 1993 19h 36m 03.50± 0.38s		
	1.0s	44.00nm			5.3mb	SDF	92.33	338	iP	11 09.30	-1.2				43.074 N ± 5.8km 0.603 W ± 2.7km		
MSZ	58.68	148	P	08 00.90	0.5	KAF	93.47	333	iP	11 14.70	-1.1				DEPTH = 10.0km (geophysicist)		
	0.4s	15.00nm			5.2mb		0.4s		4.20nm		5.0mb				PYRENEES (378)		
QRZ	58.93	142	P	08 02.30	0.1		0.5s		2.60nm		4.8mb				ML 2.3 (LDG).		
	0.6s	18.00nm			5.1mb	NUR	94.60	331	iP	11 21.50	0.5	ESCF	0.02	79	Pg	36 05.17	-0.3
DSZ	59.03	143	P	08 02.70	-0.3	DAG	98.74	353	iPd	11 38.80	-0.7				Sg	36 06.05	
YAK	59.43	1	iPc	08 04.20	-1.0		0.7s		10.27nm		5.4mb	ATE	0.07	279	Pg	36 05.66	-0.3
	0.8s	277.00nm			6.2mb X	RES	98.77	11	ePd	11 41.50	1.8				Sg	36 07.12	
Z	19s	0.50um			4.7Msz		0.8s		6.00nm		5.2mb	OGE	0.13	45	Pg	36 06.75	0.0
E	19s	0.50um				SLL	99.93	333	eP	11 43.60	-1.7	ISSF	0.15	252	Pg	36 07.18	0.1
		eS		16 00.00			0.6s		27.10nm		5.9mb				Sg	36 09.67	
BWZ	59.66	147	P	08 07.00	0.0	YKA	99.99	25	eP	11 45.20	-0.2	LHE	0.16	185	Pg	36 07.23	-0.1
THZ	59.71	143	P	08 06.90	-0.7		0.6s		1.90nm		4.8mb				Sg	36 09.57	
	0.6s	16.00nm			5.1mb	NB2	100.64	334	Pdiff	11 47.20	-1.2	MADF	0.17	294	Pg	36 07.51	0.1
LTZ	59.93	144	P	08 09.10	0.0		0.9s		8.30nm		5.3mb				Sg	36 10.28	
	0.5s	14.00nm			5.1mb	GEC2	104.08	322	Pdiff	12 04.20	0.2	JAU	0.18	102	Pg	36 07.64	0.1
MGD	60.05	13	iPc	08 09.00	-0.5		0.8s		1.01nm		4.8mb				Sg	36 10.50	
	0.7s	110.00nm			5.9mb	BCAO	109.53	276	ePKPd	16 33.10	1.4	BTH	0.29	80	iPg	36 09.70	0.0
		e		08 45.00	152km		0.6s		6.00nm						i	36 10.30	
KSH	60.05	315	P	08 10.00	-0.1	LPG	109.75	320	ePKP	16 31.70	0.1				iSg	36 14.30	
	0.8s	70.00nm			5.6mb	LPL	109.75	320	ePKP	16 31.70	0.2	BOH	0.30	276	Pg	36 09.62	-0.2
ODZ	60.40	147	eP	08 11.30	-0.8		0.5s		1.45nm						Sg	36 14.18	
MOZ	60.71	144	P	08 14.10	-0.1	FCC	110.37	22	ePKP	16 35.00	3.1X	ELYF	0.30	289	Pg	36 10.06	0.3
	0.5s	14.00nm			5.1mb	SSF	111.05	323	ePKP	16 33.70	0.1	EPF	0.69	93	Pg	36 17.40	0.2
ELT	61.34	333	iPc	08 17.20	-1.2		0.6s		3.45nm						Sg	36 26.90	
	1.0s	52.00nm			5.4mb	BGF	111.69	323	ePKP	16 35.20	0.4	LPO	2.06	38	Pg	36 42.50	3.9X
FRU	62.38	318	(P)	08 25.80	0.3		0.5s		3.80nm						Sg	37 08.80	
		e		09 03.50	159km	TCF	112.21	323	ePKP	16 36.70	0.8	LFF	2.10	27	Pg	36 44.10	5.0X
SMY	62.77	29	P	08 40.00	12.2X	FLN	112.50	326	ePKP	16 30.90	-5.4X				Sg	37 09.40	
	Z	21s		1.63um	5.2Msz		0.3s		1.80nm						S.D. = 0.2 on 11 of 13 obs.		
QUE	64.19	302	eP	08 39.30	1.5	MFF	113.45	324	ePKP	16 38.30	0.1				* FEB 21, 1993 20h 31m 05.94± 0.87s		
ADK	67.13	33	eP	08 52.91	-2.9X		0.6s		6.20nm						38.309 N ± 13.2km 29.070 W ± 11.9km		
TIK	69.09	0	iPc	09 06.00	-1.5		0.6s		6.20nm						DEPTH = 10.0km (geophysicist)		
	1.0s	72.00nm			5.4mb	RSSD	114.20	39	ePKP	16 39.63	-0.5				4.5mb (3 obs.)		
		e		09 25.00	71kmX	ULM	115.29	30	ePKP	16 45.50	3.8X				AZORES ISLANDS (405)		
MAIO	71.56	307	iPc	09 24.00	0.6	GOL	115.42	44	ePKP	16 43.68	1.1				Felt (IV) at Praia do Norte and		
	1.0s	22.50nm			4.9mb	ALQ	116.68	49	ePKP	16 46.29	1.2				Feteiro; (III) at Castelo		
		e		10 02.00	156km	JAO	120.46	16	ePKP	16 50.50	-0.9				Branco, Flamengas, Salao, Cedras		
NRI	71.97	346	iPc	09 23.20	-1.8	WMOK	122.40	46	iPKPc	16 56.27	0.6				and Horta on Faial. Felt (III)		
	1.1s	37.00nm			5.0mb	EEO	125.48	23	ePKP	17 04.50	3.2X				at Madelena, Candelario, Sao		
		e		09 41.00	66kmX	FVM	126.13	38	iPKPd	17 03.21	0.3				Moteus, Sao Coetano, Bondeiros,		
ASH	72.77	309	eP	09 30.00	-0.3	LMN	130.52	12	ePKP	17 15.00	4.1X				Santo Luzia, Santo Antonio, Sao		
HON	73.90	69	P	09 40.00	2.9X	KIC	132.34	281	PKP	17 16.56	1.2				Roque do Pico, Prainho and Santo		
	Z	20s		0.36um	4.7Msz	TIC	132.57	281	PKP	17 16.86	1.1				Amaro on Pico. Felt (II) at		
ILT	74.51	18	eP	09 40.00	0.2	LIC	132.65	281	PKP	17 17.14	1.2				Rosas, Santa Antao, Velas and		
	1.3s	22.00nm			4.7mb	PEL	144.64	152	iPKP	17 37.70	0.4				Calheta on Sao Jorge.		
ARU	76.84	328	iPc	09 53.20	0.1		0.9s		268.91nm								
	0.8s	100.00nm			5.6mb	MDZ	145.70	154	i(PKP)	17 23.70	-15.4X	CALA	0.40	47	iPd	31 14.40	0.3
		i		09 57.20	13kmX	RTCV	146.70	153	e(PKP)	17 42.00	1.3				eS	31 19.30	
SDN	77.34	34	eP	09 56.80	0.9	RTCB	146.90	153	iPKPc	17 44.50	3.4X	HOR	0.41	58	iPd	31 15.50	1.2
	0.6s	137.90nm			5.9mb	RTLL	147.18	153	iPKPd	17 44.70	3.2X				iS	31 21.20	
SVW	81.13	28	eP	10 17.64	1.4	RTRS	147.67	150	ePKPd	17 44.50	2.3	PICO	0.54	69	iPd	31 11.00	-5.9X
	0.9s	24.40nm			4.9mb	TCA</											

21d 20h

AVF 25.20 60 eP 36 32.70 -0.3
 SSF 25.34 59 eP 36 33.40 -1.0
 SMF 25.52 60 eP 36 36.00 0.0
 LOR 25.61 59 eP 36 35.80 -1.1
 LBF 25.65 60 eP 36 36.70 -0.6
 CDF 28.05 57 eP 36 58.60 -0.7
 ZOBO 65.51 222 P 41 53.20 0.8

Z 24s 0.08um 3.8MszX
 LR 03 00.00
 S.D. = 0.8 on 15 of 16 obs.

FEB 21, 1993 20h 56m 44.10 ± 0.34s
 28.999 N ± 7.8km 52.114 E ± 4.6km
 DEPTH = 33.0km (normal)
 4.6mb (13 obs.)

SOUTHERN IRAN (353)
 MD 4.4 (RYD).

DHR 3.21 214 eP 57 48.50 15.2X
 RYD 6.51 230 eP 58 21.50 1.4
 MJMA 6.83 244 eP 58 24.00 -0.5
 KER 6.83 323 eP 58 53.00 28.3X
 OASM 8.15 251 eP 58 42.00 -1.1
 AFIF 9.37 241 eP 59 02.00 2.1
 MAIO 9.57 39 eP 59 05.00 2.2
 QUE 12.97 81 eP 59 50.30 1.4
 KMTA 13.71 220 eP 59 56.67 -2.1
 DHJN 13.78 217 eP 59 57.33 -2.4X
 AYN 14.11 273 eP 00 02.00 -1.8
 KSH 22.26 56 eP 01 40.00 0.2

Z 12s 1.25um 4.6MszX
 S 01 52.00

VRI 26.10 317 eP 02 36.00 19.4X
 MLR 26.38 316 eP 02 23.00 3.7X
 CVO 26.41 317 eP 02 25.50 6.1X
 HYB 26.83 110 eP 02 26.50 3.0X
 GBA 28.04 118 P 02 37.00 2.6
 GKN 28.55 84 P 02 38.20 -1.0
 DMN 29.03 85 P 02 42.60 -1.1
 KKN 29.15 84 P 02 43.60 -1.1
 PKI 29.30 85 P 02 45.00 -1.2
 GUN 29.65 84 P 02 48.00 -1.3
 WMO 31.95 53 eP 03 09.00 -0.1
 VBY 33.30 310 e(P) 03 15.90 -4.8X
 GEC2 35.36 315 P 03 38.30 -0.3

0.5s 0.46nm 3.6mb
 KHC 35.54 315 eP 03 40.00 0.0
 e 04 11.50
 e 04 29.00

NUR 36.51 337 iP 03 47.50 -0.4
 0.6s 3.50nm 4.4mb

KAF 37.21 340 iP 03 53.40 -0.4
 0.4s 2.40nm 4.4mb

LPG 39.13 308 eP 04 11.10 0.6
 LPL 39.14 308 eP 04 11.20 0.7

BCAO 40.12 239 ePd 04 21.10 2.4
 0.5s 3.00nm 4.3mb

GTA 40.39 62 eP 04 21.40 0.6
 1.2s 26.00nm 4.9mb

HFS 40.44 331 eP 04 20.30 -0.4
 0.4s 5.10nm 4.6mb

SMF 41.30 309 eP 04 28.20 0.2
 0.8s 6.45nm 4.4mb

NB2 41.96 332 P 04 32.80 -0.5
 0.8s 2.50nm 4.0mb

CHTO 43.75 93 eP 04 48.00 -0.4
 LZH 43.75 67 eP 04 49.00 0.6

KMI 44.98 82 eP 04 57.00 -1.5
 BTO 48.16 60 eP 05 23.60 0.4

XAN 48.17 69 P 05 22.00 -1.3
 HHC 49.31 60 eP 05 32.60 0.5

TIY 50.37 63 eP 05 40.20 0.0
 TIA 54.34 64 eP 06 09.60 -0.2

LIC 58.37 259 P 06 38.80 0.0
 Z 19s 0.08um 3.8MszX

YKA 88.21 354 eP 09 33.40 0.6

0.8s 1.80nm 4.4mb
 S.D. = 1.2 on 37 of 45 obs.

% FEB 21, 1993 21h 58m 51.50 ± 1.58s
 18.521 N ± 18.7km 67.191 W ± 8.4km
 DEPTH = 33.0km (normal)

MONA PASSAGE (89)

IDE 0.30 244 iP 58 59.40 0.1
 APR 0.44 99 iP 59 04.20 2.9X

S 59 26.20
 MGP 0.52 169 iP 59 02.00 -0.4

PORP 0.70 131 iP 59 05.80 0.8
 SJG 1.07 112 iP 59 10.40 0.2

LPR 1.27 99 iP 59 13.00 -0.1
 CPD 1.30 111 iP 59 13.00 -0.5

S.D. = 0.6 on 6 of 7 obs.

FEB 21, 1993 22h 47m 16.15 ± 0.63s
 53.925 N ± 12.8km 163.724 W ± 7.2km

DEPTH = 33.0km (normal)
 4.9mb (28 obs.)

UNIMAK ISLAND REGION (10)
 ML 4.5 (PMR).

SDN 2.35 52 eP 47 52.60 -0.6
 ADK 8.10 261 eP 49 14.50 0.2

SVW 8.41 28 eP 49 18.80 0.1
 TTA 9.89 21 eP 49 39.40 0.4

PMS 10.55 40 eP 49 43.80 -4.2X
 0.4s 10.60nm 5.4mb X

FBA 13.61 30 eP 50 25.10 -3.9X
 YKA 26.63 52 eP 52 52.00 -1.1

0.6s 4.20nm 4.2mb
 FCC 37.30 54 eP 54 27.50 1.1

ULM 40.41 67 eP 54 53.00 0.6
 MAT 43.12 271 eP 55 14.00 -0.8

0.8s 17.91nm 4.9mb
 CN2 45.83 288 P 55 36.40 0.0

1.0s 17.00nm 4.9mb
 DAG 47.69 10 iPd 55 50.10 -0.6

1.1s 16.46nm 5.0mb
 JAO 48.59 52 eP 55 54.00 -4.0X

HHC 55.48 294 eP 56 49.80 -0.1
 1.2s 24.00nm 5.1mb

BTO 56.49 294 eP 56 57.30 0.1
 NJ2 57.64 281 eP 57 04.00 -1.2

SDF 58.74 355 iP 57 11.60 -0.9
 XAN 61.84 290 P 57 33.50 -0.7

pP 57 39.50 20kmX
 sP 57 49.00

GTA 62.72 300 P 57 39.50 -0.6
 1.5s 21.00nm 5.0mb

Z 16s 0.57um 4.8MszX
 pP 57 48.50 29kmX

LZH 63.09 295 eP 57 42.50 -0.1
 1.5s 43.00nm 5.4mb

KAF 64.04 355 iP 57 46.90 -1.3
 0.5s 4.70nm 4.8mb

WMO 65.17 311 P 57 56.00 0.1
 1.0s 8.40nm 4.8mb

pP 58 00.00 13kmX
 NB2 65.31 3 P 57 56.10 -0.4

1.0s 9.60nm 4.9mb
 NUR 65.72 355 iP 57 58.00 -1.0

0.5s 5.90nm 4.9mb
 HFS 66.27 1 eP 58 01.10 -1.5

0.3s 7.00nm 5.2mb
 CD2 67.06 291 iPd 58 08.70 0.6

GYA 68.84 286 P 58 19.40 0.0
 1.0s 21.00nm 5.2mb

EKA 69.94 12 P 58 26.00 0.5
 1.0s 13.20nm 5.0mb

OBN 70.06 348 iPd 58 25.80 -0.4
 0.8s 18.00nm 5.2mb

LSA 74.74 299 iPc 58 55.80 0.9
 1.4s 19.00nm 4.9mb

MOX 75.73 3 eP 58 59.90 0.3
 1.3s 18.00nm 4.9mb

GRF 76.67 3 iPc 59 05.60 0.7
 1.1s 18.00nm 5.0mb

SPC 77.21 357 eP 59 09.90 1.8
 KHC 77.29 2 P 59 09.00 0.6

1.0s 5.40nm 4.5mb
 e 59 34.00

GEC2 77.58 2 eP 59 09.80 -0.3
 0.7s 2.93nm 4.4mb

CDF 77.75 6 eP 59 14.50
 HAU 78.10 7 eP 59 12.80 -0.1

0.6s 3.45nm 4.6mb
 ZST 78.25 359 eP 59 13.90 0.3

BSF 78.30 7 eP 59 13.90 -0.2
 0.8s 4.55nm 4.5mb

LOR 78.63 9 eP 59 15.60 -0.2
 0.9s 7.70nm 4.7mb

SSF 78.81 9 eP 59 16.80 0.1
 1.2s 23.20nm 5.1mb

GUN 78.87 302 P 59 18.60 0.7
 LBF 78.93 9 eP 59 17.20 -0.2

AVF 79.06 9 eP 59 17.90 -0.2
 0.9s 7.35nm 4.7mb

WTTA 79.11 3 iPc 59 19.10 0.5
 0.6s 6.70nm 4.8mb

SMF 79.25 9 eP 59 19.00 -0.2
 0.9s 6.70nm 4.6mb

KKN 79.27 303 P 59 20.40 0.6
 KBA 79.34 2 iPc 59 20.80 0.9

0.8s 16.10nm 5.1mb
 PKI 79.38 302 P 59 20.80 0.2

GKN 79.41 303 P 59 21.20 0.7
 DMN 79.50 303 P 59 21.80 0.6

MAIO 82.70 326 eP 59 38.00 0.4
 SKO 84.38 356 iP 59 47.20 1.3

VAY 84.97 355 eP 59 49.80 0.9
 HYB 91.31 302 eP 00 19.50 -0.2

BUL 144.98 340 ePKP 06 49.40 -2.1
 1.0s 9.00nm

SEK 153.10 337 ePKP 07 11.00 7.1X
 0.6s 10.00nm

S.D. = 0.8 on 53 of 57 obs.

& FEB 21, 1993 23h 32m 12.57s
 56.445 N 155.510 W

DEPTH = 119.5km
 ALASKA PENINSULA (12)

<AEIC>

MCNL 2.82 12 eP 32 54.52 -2.6
 S 33 29.43

AUH 3.13 20 eP 33 00.35 -0.9
 PDB 3.42 11 eP 33 03.17 -2.0

S 33 41.63
 CNPM 3.84 35 eP 33 07.35 -3.4

INW 3.84 18 eP 33 09.40 -1.6
 INE 3.85 19 eP 33 09.41 -1.7

ILIM 3.89 19 eP 33 09.73 -1.8
 RS1 4.28 19 eP 33 15.42 -1.5

RS2 4.28 19 eP 33 15.43 -1.6
 RSO 4.28 19 eP 33 15.56 -1.4

RDW 4.29 18 eP 33 15.57 -1.5
 NCT 4.34 17 eP 33 16.28 -1.5

DFR 4.41 18 eP 33 16.87 -1.8
 SLKM 4.93 32 eP 33 21.63 -4.0

CKL 5.04 18 eP 33 25.40 -1.9
 CKT 5.07 18 eP 33 25.48 -2.1

SPU 5.08 19 eP 33 25.35 -2.3
 BGL 5.10 17 eP 33 26.24 -1.7

CP2 5.12 18 eP 33 25.56 -2.9
 CPAM 5.13 19 eP 33 26.93 -1.5

VLZ 6.69 42 eP 33 45.26 -4.4
 KLU 7.08 40 eP 33 50.91 -4.2

22 obs. associated

FEB 21, 1993 23h 36m 15.97 ± 0.27s
 18.027 S ± 6.5km 174.308 W ± 8.2km

DEPTH = 88.4km (4 depth phases)
 5.0mb (22 obs.)

TONGA ISLANDS (173)

BKM 16.62 269 iPd 40 14.20 9.3X
 DZM 18.52 254 iPc 40 30.10 1.7

KUZ 20.62 203 eP 40 50.50 0.3
 PUZ 21.01 197 eP 40 54.90 0.7

URZ 21.51 199 eP 40 58.70 -0.4
 0.3s 56.00nm 5.4mb

NOZ 21.58 196 eP 41 02.20 2.4
 WLZ 21.66 202 P 41 02.30 1.7

0.7s 89.00nm 5.2mb
 MNG 24.17 199 eP 41 23.50 -1.7

0.4s 45.00nm 5.3mb
 ORZ 25.39 204 P 41 36.70 0.1

0.4s 86.00nm 5.6mb
 THZ 26.07 202 eP 41 42.60 -0.3

		1.0s	30.00nm			5.0mb
ASPA		54.21	82 eP	48	50.00	-0.6
		1.0s	9.60nm			4.8mb
WB2		57.33	80 iPc	48	59.60	-13.5X
		0.5s	5.20nm			
GBA		66.66	5 P	50	15.00	-0.4
BCAO		73.17	302 iPd	50	55.00	-0.3
		0.8s	18.00nm			5.2mb
			id	51	04.80	
CHTO		75.22	26 eP	51	07.50	0.5
PKI		81.19	11 P	51	39.80	-0.2
DMN		81.19	11 P	51	40.20	0.3
KKN		81.39	11 P	51	41.20	0.3
GKN		81.53	11 P	51	41.00	-0.5
GUN		81.58	12 P	51	42.20	0.2
LIC		87.66	284 P	52	16.10	3.6X
TIC		87.99	284 P	52	16.80	2.7X
		S.D. = 0.9 on 12 of 15 obs.				
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	FEB 22, 1993	00h 08m 55.05± 0.19s				
	47.191 N ± 4.1km	154.125 E ± 2.7km				
	DEPTH = 32.8km	(16 depth phases)				
	5.4mb (126 obs.)	5.4MsZ (26 obs.)				
	KURIL ISLANDS					(221)
	Mw 5.7 (HRV).					
	CENTROID, MOMENT TENSOR					(HRV)
	Data Used: GDSN					
	L.P.B.: 38S, 90C					
	Centroid Location:					
	Origin Time					00:09: 2.5 0.3
	Lat 47.34N 0.03 Lon 154.38E 0.04					
	Dep 16.0 BDY Half-duration 1.8					
	Moment Tensor:					Scale 10**17 Nm
	Mrr=-3.32 0.07					Mtt=-0.71 0.10
	Mff=-2.61 0.08					Mrt= 0.16 0.24
	Mrr= 1.73 0.28					Mtf=-1.70 0.08
	Principal Axes:					
	T Val= 3.81					Plg=73 Azm=256
	N					0.15 11 26
	P					-3.96 12 118
	Best Double Couple:Mo=3.9*10**17					
	NP1:Strike=222 Dip=34 Slip= 110					
	NP2: 19 58 77					
<hr/>						
SKR		3.71	20 ePn	09	49.50	-2.0
	Z	14s	48.00um			
	N	12s	41.60um			
	E	12s	63.40um			
			eS	10	30.00	
KUR		4.76	248 iPnc	10	06.00	-0.3
	Z	14s	18.90um			
	N	14s	76.90um			
	E	14s	45.90um			
PET		6.52	25 ePn-	10	28.00	-3.0X
	Z	16s	23.00um			
YSS		7.79	273 ePnc+	10	50.00	1.1
	Z	16s	56.80um			
	N	16s	7.60um			
	E	16s	37.50um			
OKH		9.57	316 ePn	11	15.00	1.6
SAP		9.94	250 eP	11	18.00	-0.6
MGD		13.08	353 ePn-	12	00.00	-0.9
	Z	16s	24.00um			
	N	16s	19.00um			
	E	18s	6.40um			
			eS	14	32.00	
SMY		13.99	59 eP	12	08.26	-4.6X
MAT		15.90	234 (P)	12	33.00	-4.9X
		0.9s	45.38nm			4.6mb
	Z	20				

		1.0s		58.00nm			4.9mb
	Z	16s		16.50um			5.5MszX
	N	16s		5.28um			
	E	16s		11.20um			
SNY		22.35	267	Pc	13	49.80	-1.5
		0.8s		130.00nm			5.4mb
	Z	16s		23.40um			5.7MszX
	N	15s		5.54um			
	E	15s		13.40um			
				pP	13	58.00	29km
ILT		24.97	24	iPc+	14	15.80	-0.7
		1.0s		130.00nm			5.5mb
	Z	16s		6.90um			5.3MszX
	N	14s		3.70um			
	E	16s		3.60um			
				iPPP	15	00.00	
				iS	18	40.00	
DL2		25.01	263	iPc	14	17.50	0.3
		1.0s		180.00nm			5.6mb
	Z	18s		3.08um			4.9Msz
	N	15s		6.89um			
	E	16s		4.41um			
				S	18	40.00	
BOD		26.15	309	iPc	14	25.60	-2.1
CIT		26.45	296	eP	14	29.00	-1.6
	Z	15s		21.66um			5.8MszX
	E	16s		28.15um			
TIK		27.23	343	eP	14	35.00	-2.4
		1.5s		48.00nm			4.9mb
	Z	17s		12.00um			5.5MszX
				ePPP	15	22.00	
BJI		28.17	269	eP	14	46.00	-0.3
		1.5s		57.00nm			5.0mb
	Z	16s		14.00um			5.6MszX
	E	17s		9.58um			
				eS	19	28.00	
TIA		29.47	262	Pc	14	57.20	-0.7
		0.8s		49.00nm			5.3mb
	Z	15s		7.25um			5.4MszX
	N	14s		2.52um			
	E	15s		6.05um			
				S	19	50.50	
SSE		29.90	249	Pc	15	02.00	0.1
		1.0s		63.00nm			5.4mb
	Z	20s		4.10um			5.1Msz
	N	14s		3.20um			
	E	15s		3.10um			
				pP	15	11.00	31km
				sS	20	15.00	
NJ2		30.79	253	Pc	15	09.00	-0.6
		1.0s		20.00nm			4.9mb
	Z	16s		4.66um			5.2MszX
	N	15s		1.39um			
	E	15s		3.28um			
				pP	15	16.50	26km
				sP	15	23.00	
HHC		30.95	274	Pd	15	10.60	-0.6
		1.2s		110.00nm			5.5mb
	Z	18s		10.30um			5.5Msz
	N	17s		9.39um			
	E	16s		2.93um			
TTA		31.63	42	ePc	15	16.38	-0.5
		0.9s		30.37nm			5.2mb
				i	15	32.38	66kmX
SVW		31.67	45	eP	15	17.39	0.2
		1.3s		80.11nm			5.4mb
				e	15	28.47	41km
TIY		31.86	268	iPc	15	19.50	0.4
		1.0s		80.00nm			5.6mb
	Z	16s		13.60um			5.7MszX
	N	16s		4.63um			
	E	15s		5.32um			
IRK		32.07	298	eP	15	19.00	-1.8
		2.0s		58.00nm			5.1mb
	Z	16s		19.62um			5.9MszX
				e	15	26.00	24km
BTO		32.12	275	eP	15	21.00	-0.4

22d 00h

			e	16 50.00	452kmX			pP	17 20.00	30km	WDC	57.71	63 P	18 50.00	5.3X
			eSS	22 45.00				PP	19 00.00		Z	19s	1.23um		5.0msz
BRW	33.26	26	eP	15 30.63	-0.2	OIZ	45.66	247 eP	17 15.60	1.3	SES	58.32	49 eP	18 48.00	-0.9
CP2	33.31	45	(P)	15 31.75	0.0	N 15s		2.17um			SDF	59.11	339 iP	18 52.70	-1.4
KDC	33.34	52	eP	15 30.27	-1.4	E 15s		2.40um			SNG	60.45	246 eP	19 04.50	0.7
	0.9s		21.11nm		5.0mb	KMI	46.00	260 Pc	17 17.00	-0.3			eS	27 30.00	
CRP	33.35	45	eP	15 31.51	-0.5		1.2s	120.00nm		5.7mb	FCC	60.51	34 ePc	19 06.00	2.2
MOY	34.21	298	eP	15 38.10	-1.1	Z 16s		3.90um		5.4mszX	BGMT	60.97	54 eP	19 07.30	-0.1
SLKM	34.32	46	eP	15 39.11	-1.1	N 15s		3.60um			NDI	60.99	282 iPc	19 06.60	-0.9
GUMO	34.39	196	eP	15 45.30	4.2X	E 15s		2.70um				0.6s	220.00nm		6.5mb X
GUA	34.42	196	eP	15 45.10	3.6X				pP	17 31.00	JNW	61.42	354 eP	19 09.50	-0.3
WHN	34.71	256	iPc	15 43.00	-0.8				PP	19 10.00	MEMM	61.71	64 eP	19 17.38	5.2X
	1.0s		180.00nm		6.0mb				eS	23 52.00	GDH	62.09	11 eP	19 07.00	-7.3X
Z 19s			5.50um		5.3msz			ScS	27 09.00			e	27 45.00		
N 20s			5.77um			YKA	50.16	37 eP	17 48.60	-0.2	TNP	62.50	63 eP	19 17.12	-0.6
E 17s			4.89um				0.7s	8.60nm		4.9mb		1.3s	30.45nm		5.3mb
			eS	21 08.00		RES	50.20	19 ePc	17 50.40	1.4	KAF	63.33	335 iP	19 20.50	-2.1
PMR	34.80	44	eP	15 41.62	-2.6		1.0s	12.00nm		4.9mb		0.5s	14.80nm		5.4mb
	0.8s		40.21nm		5.4mb	LSA	50.94	273 P	17 56.80	1.0	DUG	63.75	59 eP	19 25.99	0.1
Z 20s			4.79um		5.2msz		0.8s	140.00nm		6.0mb	TPNV	63.81	63 (P)	19 27.59	1.2
			e	15 54.99	52kmX	N 18s		3.57um				1.0s	18.07nm		5.1mb
FBA	35.39	39	ePc	15 49.05	-0.2			sP	18 11.00		BW06	63.92	55 eP	19 25.20	-1.9
	0.9s		60.15nm		5.5mb	PRZ	51.94	294 eP	18 02.00	-0.9		1.0s	15.57nm		5.1mb
OZH	35.85	244	Pc	15 53.00	-0.5		1.0s	40.00nm		5.3mb	MOS	64.47	326 eP	19 30.00	-0.1
Z 23s			2.64um		4.9mszX	Z 16s		11.10um		6.0mszX		2.5s	290.00nm		5.9mb
XAN	36.24	265	Pc	15 56.50	-0.4	N 16s		7.30um			DAU	64.51	57 eP	19 30.32	-0.8
	0.9s		140.00nm		5.9mb	E 16s		7.90um			ARUT	64.96	61 (P)	19 31.05	-2.8X
Z 15s			11.20um		5.8mszX	TLG	52.14	296 eP	18 04.00	-0.3	NUR	65.10	335 iP	19 33.00	-1.1
N 15s			10.60um				1.0s	35.00nm		5.3mb		0.5s	27.00nm		5.6mb
E 15s			5.21um			Z 14s		7.80um		5.9mszX		Z 19s	5.00um		5.7msz
			pP	16 02.00	19kmX	N 14s		4.70um				LR	52 20.00		
KLU	36.34	44	eP	15 56.90	-0.5			ePPP	21 07.00		MSU	65.23	60 eP	19 34.05	-1.6
			i	16 12.81	63kmX			eS	25 28.00		PEC	65.25	66 (P)	19 34.55	-1.0
BALM	38.11	45	ePd	16 12.22	-0.1			eSS	27 50.00			1.0s	20.34nm		5.2mb
			e	16 23.86	42km	KBS	52.18	351 eP	18 04.50	0.5	OBN	65.33	326 ePd	19 34.00	-1.7
NRI	38.55	329	iPd	16 12.00	-3.7X	CHTO	52.89	257 ePc	18 10.20	0.1		1.0s	24.00nm		5.2mb
	1.0s		52.00nm		5.3mb		0.9s	53.92nm		5.5mb			e	20 06.00	131kmX
			e	16 24.00	44kmX			eS	25 34.00				eS	28 31.00	
			(PPP)	18 31.00		SHL	53.07	269 iPc	18 11.20	-0.4	ULM	65.73	41 eP	19 40.50	2.1
LZH	38.57	272	iPc	16 16.80	0.3			iS	25 58.00		PLM	65.79	67 eP	19 39.64	0.4
	1.6s		400.00nm		6.0mb	SVE	53.99	317 ePc	18 16.00	-1.6	SRU	65.80	58 eP	19 38.76	-0.4
Z 17s			9.07um		5.7mszX		1.0s	80.00nm		5.7mb			e	19 52.24	47kmX
N 14s			4.36um			Z 17s		6.00um		5.7mszX	RSSD	66.01	50 eP	19 39.55	-1.0
E 16s			6.07um			N 17s		3.00um				0.6s	13.09nm		5.2mb
			pP	16 30.00	50kmX	E 17s		3.00um			Z 20s		1.47um		5.2msz
			sP	16 33.00		FRU	54.07	297 iPc	18 17.80	-0.7	QUE	66.73	290 eP	19 45.60	0.3
			PP	17 50.00			1.2s	30.00nm		5.2mb	ASH	66.82	301 eP	19 45.50	0.0
			eS	22 10.00		Z 18s		10.00um		5.9msz	KAT	67.18	303 iP-	19 51.00	3.3X
GTA	39.58	279	eP	16 25.00	0.1	N 16s		8.50um				Z 15s	3.80um		5.7mszX
	1.0s		38.00nm		5.1mb	E 18s		9.50um				N 15s	7.20um		
Z 16s			6.58um		5.6mszX			e	19 26.30	320kmX		E 15s	5.00um		
N 14s			4.17um					e	26 00.00				e	20 18.00	108kmX
			pP	16 34.20	31km	RMW	54.20	56 (P)	18 23.98	4.6X			ePPP	23 49.00	
			sP	16 38.50		NST	54.37	253 eP	18 24.50	3.6X			eS	28 37.00	
			PP	18 05.00		ARU	55.15	318 ePc	18 23.80	-2.4	MAIO	67.26	299 eP	19 48.00	-0.4
GZH	40.47	248	Pd	16 34.00	1.8		1.0s	150.00nm		6.0mb			eS	28 12.00	
	1.0s		38.00nm		5.1mb	Z 16s		8.30um		5.9mszX	GLA	67.26	66 eP	19 48.18	-0.3
Z 16s			3.80um		5.3mszX	N 16s		5.00um			AKU	67.30	357 eP	19 46.90	-1.1
N 12s			1.01um			E 16s		4.00um				1.0s	32.00nm		5.4mb
E 15s			3.45um					e	18 32.00	27km	CTA	67.34	188 eP	19 48.00	-0.8
HKC	40.52	246	eP	16 36.00	3.4X			e	18 38.00				eS	28 39.00	
			S	21 39.00				e	19 27.50				e	36 15.00	
BAG	41.33	233	ePc+	16 38.50	-1.0	KSH	55.16	293 P	18 26.00	-0.6	UPP	67.56	338 iPc	19 48.80	-1.0
			eS	22 30.00			0.9s	60.00nm		5.6mb			i	19 57.40	28km
CD2	41.61	265	iPc	16 41.50	0.0	Z 16s		12.40um		6.1mszX	HYB	67.68	272 ePc	19 50.00	-1.2
	1.0s		430.00nm		6.1mb	N 14s		7.50um				0.8s	44.60nm		5.6mb
Z 16s			8.86um		5.7mszX	E 14s		6.20um			NB2	68.03	342 P	19 52.30	-0.5
N 16s			7.16um					pP	18 36.00	33km		0.8s	89.20nm		5.9mb
ELT	42.35	304	iPc	16 45.60	-1.6			sP	18 40.00		HFS	68.28	340 eP	19 53.10	-1.2
	1.3s		77.00nm		5.3mb			ScS	28 10.00			0.6s	96.30nm		6.1mb
Z 15s			26.00um		6.2mszX	GUN	55.65	275 P	18 30.20	-0.4	Z 17s		2.78um		5.6mszX
N 16s			8.70um			DPW	55.99	54 eP	18 33.21	0.8		LR	47 42.00		
E 15s			20.70um					i	18 44.92	40km	NAO	68.31	342 P	19 52.79	-1.7
GYA	42.49	258	iPc	16 48.60	-0.2	KKN	56.13	276 P	18 33.80	-0.1	GDJ	68.32	55 eP	19 54.94	-0.3
	1.0s		110.00nm		5.5mb	PKI	56.19	275 P	18 34.20	-0.2		1.1s	14.01nm		5.0mb
Z 20s			3.75um		5.3msz	DAG	56.23	358 iPd	18 32.20	-1.5	GLD	68.37	55 eP	19 55.66	0.2
N 18s			4.21um				1.0s	32.00nm		5.3mb		1.3s	26.32nm		5.2mb
E 18s			2.34um			NEW	56.36	53 eP	18 36.29	1.2	Z 21s		3.82um		5.6msz
			PP	18 30.00			1.0s	12.50nm		4.9mb	WB2	69.16	200 eP	19 58.10	-2.0
			S	23 10.00		Z 19s		2.79um		5.4msz		0.8s	8.90nm		4.9mb
SIT	42.56	50	P	17 00.00	11.1X			e	18 47.66	39km	WRA	69.16	200 P	20 03.00	2.9X
			2.56um		5.1msz	DMN	56.37	276 P	18 35.40	-0.3		1.5s	4.80nm		4.3mb X
WMO	45.41	291	P	17 11.00	-1.2	GKN	56.43	276 P	18 36.20	0.2	MAK	69.30	311 eP	19 59.00	-1.8
	1.0s		21.00nm		5.0mb	NNT	56.90	251 iPd	18 38.80	-0.4		Z 16s	14.00um		6.3mszX
Z 16s			14.50um		6.0mszX	APA	57.24	337 iPd	18 38.80	-2.2		N 16s	13.30um		
N 15s			10.40um					eS	26 33.00			E 16s	9.00um		

22d 00h

		e	20 22.00	89kmX	WMOK	75.54	54 eP	20 37.05	-0.9			e	33 52.00		
		e	22 32.00			0.9s	12.58nm		4.9mb	ENN	78.65	340 eP	20 55.00	0.2	
		(S)	29 08.00		Z	21s	1.42um		5.2msz		0.9s	53.00nm		5.5mb	
MNK	69.57	330 eP	19 58.00	-4.2X	EEO	75.61	35 eP	20 39.50	1.4	UZD	78.82	331 eP	20 55.80	0.0	
	1.0s	224.00nm		6.2mb	MEO	75.61	54 iPc	20 36.80	-1.5	BBTK	78.85	318 eP	20 56.80	0.5	
		ePPP	24 12.00		EAU	75.62	347 eP	20 38.60	0.6	KMR	78.94	334 iP-	20 58.20	1.7	
BAK	69.88	308 iPd	20 09.00	4.6X	PTT	75.73	326 eP	20 35.00	-3.7X	RSNY	79.10	33 P	21 10.00	12.6X	
	Z	16s	3.70um	5.7mszX	KER	75.78	305 ePc	20 39.60	0.2		Z	19s	1.01um	5.2msz	
	N	16s	19.40um		UZH	75.79	329 iPc	20 38.50	-0.5	PVL	79.24	325 iPd	20 58.00	-0.2	
	E	16s	13.40um			1.1s	42.00nm		5.4mb	JMB	79.37	323 eP	20 59.00	0.1	
		iS	29 30.00				i	20 45.30	22kmX	DMK	79.42	322 iP	20 59.60	0.4	
GRO	69.95	313 eP	20 04.00	-0.8	KSP	75.81	334 iPc	20 38.90	-0.3	EYL	79.43	320 eP	21 00.00	0.6	
	Z	16s	6.50um	6.0mszX		1.0s	62.00nm		5.6mb	DOU	79.58	341 P	21 00.40	0.5	
	N	16s	19.00um		PPE	75.85	325 eP	20 39.50	0.1	BHG	79.61	335 iPd	21 01.20	1.0	
	E	17s	10.50um		SPC	76.01	331 eP	20 41.30	0.8		1.2s	48.00nm		5.4mb	
		i	20 22.00	67kmX	EKA	76.07	347 P	20 41.00	0.5	WLF	79.62	339 P	21 02.00	1.9	
		eS	29 00.00			0.5s	12.10nm		5.2mb	FUR	79.67	336 eP	21 01.00	0.5	
POO	70.10	276 iPc	20 09.20	3.1X	SHI	76.08	299 iPc	20 40.00	-1.3	LANF	79.85	338 P	21 02.17	0.8	
TUC	70.26	64 eP	20 05.60	-1.4	AKKT	76.13	316 eP	20 58.70	17.4X	KBA	80.05	334 iPc	21 03.00	0.3	
	1.2s	15.36nm		4.9mb	BMR	76.18	328 ePd	20 49.00	7.8X		1.0s	76.50nm		5.7mb	
SHE	70.38	309 iPc	20 08.00	0.6	KVT	76.35	317 iP	20 43.00	0.6			i	21 15.60	42km	
	0.8s	40.00nm		5.5mb	BRG	76.47	335 iP	20 43.20	0.3	DIM	80.14	324 iPc	21 03.00	-0.1	
	Z	16s	10.00um	6.2mszX			e	30 52.00		PGB	80.27	325 iPd	21 03.00	-0.8	
	N	16s	15.00um		VRI	76.48	325 eP	20 43.50	0.5	PTJ	80.29	332 eP	21 03.50	-0.4	
	E	16s	15.00um		CFR	76.48	324 eP	20 43.00	0.0	WATA	80.34	335 iPc	21 04.60	0.4	
		iS	29 22.00		CVO	76.73	325 eP	20 45.00	0.5	ZAG	80.36	332 iPc	21 05.00	0.9	
PYA	70.75	315 iPc	20 09.00	-0.7	SVST	76.95	315 eP	20 46.90	1.0	WTTA	80.39	335 iPc	21 05.10	0.6	
	Z	16s	9.00um	6.1mszX	VRAC	77.08	333 eP	20 46.70	0.5		1.0s	93.00nm		5.7mb	
	N	16s	2.50um			1.1s	147.70nm		5.9mb	PLD	80.43	324 eP	21 04.00	-0.6	
	E	16s	9.00um		SLM	77.08	46 P	21 00.00	13.6X	MOTA	80.46	335 iPc	21 05.20	0.3	
		e	29 42.00			Z	19s	1.51um	5.3msz		1.0s	70.60nm		5.6mb	
JAO	70.86	29 eP	20 09.00	-1.2	PRU	77.09	335 Pc	20 46.50	0.2	KCT	80.47	321 iP	21 05.80	0.9	
KIV	70.98	315 eP	20 10.90	-0.3		1.0s	33.10nm		5.3mb	WLS	80.49	338 P	21 04.91	0.0	
	1.2s	100.00nm		5.8mb		Z	17s	4.10um	5.8mszX	CDF	80.51	338 P	21 05.16	0.1	
		e	20 26.00	54kmX		N	17s	2.80um		KDZ	80.53	324 iPc	21 06.00	0.8	
		eS	22 44.10			E	14s	1.50um		SOTA	80.55	335 iPc	21 05.80	0.5	
		i	29 44.40						23 26.80		1.0s	60.20nm		5.5mb	
ALO	71.02	59 P	20 11.76	0.0	MLR	77.10	325 iPd	20 47.50	0.9	RBL	80.56	334 Pc	21 04.60	-0.7	
	0.9s	5.01nm		4.6mb	ISR	77.16	325 eP	20 48.70	1.9	VTS	80.60	326 iPc	21 05.00	-0.7	
GBA	71.12	270 Pc	20 12.00	-0.3	KAS	77.17	318 iPc	20 48.20	1.2	LJU	80.62	333 e(P)	21 06.00	0.5	
MTA	71.60	312 iP	20 14.60	-0.2	CTK	77.22	317 eP	20 48.50	1.1	FVI	80.66	334 P	21 06.00	0.3	
	0.8s	140.00nm		6.0mb	PSZ	77.22	330 ePc	20 47.40	0.2	LI8D	80.67	338 P	21 06.01	0.3	
	Z	17s	1.50um	5.3mszX	ARMA	77.28	182 eP	20 49.20	1.6	ECH	80.72	338 P	21 06.19	0.1	
	N	17s	2.00um		WTS	77.30	340 eP	20 47.50	0.1	RZN	80.78	324 iPc	21 06.00	-0.7	
	E	17s	2.50um			0.8s	36.40nm		5.5mb	SLE	80.79	337 ePc	21 06.60	0.1	
		i	20 23.60	29km	MOX	77.32	337 iPc	20 47.80	0.2	FEL	80.82	338 P	21 06.70	0.0	
		e	29 54.00			1.1s	51.00nm		5.5mb	VOY	80.83	333 e(P)	21 04.00	-2.8X	
TEH	72.37	304 eP	20 21.00	1.3		Z	22s	2.30um	5.5msz	VBY	80.87	332 eP	21 06.10	-0.8	
GRS	72.42	309 iPc	20 19.80	-0.1	FVM	77.49	47 eP	20 49.45	0.7	RDO	80.90	323 iPc	21 07.50	0.4	
	1.0s	40.00nm		5.4mb		0.8s	11.94nm		5.0mb	ALN	80.90	323 eP	21 07.16	0.1	
	Z	15s	1.51um	5.4mszX	HOF	77.55	336 eP	20 49.00	0.1	OGA	80.92	335 eP	21 08.30	0.9	
	N	15s	1.51um			1.0s	45.00nm		5.5mb		1.0s	71.00nm		5.6mb	
	E	15s	3.29um		CMP	77.63	326 iPd	20 52.00	2.6X	CEY	80.92	333 eP	21 07.50	0.3	
		eS	29 44.00		MTUR	77.66	326 eP	20 51.00	1.4	VITF	81.01	339 P	21 07.80	0.2	
BSD	72.43	337 iP	20 19.00	-0.5	PSN	77.71	323 eP	20 50.00	0.2	MOF	81.06	338 P	21 07.63	-0.3	
	0.8s	80.00nm		5.8mb	SRO	77.84	331 iP	20 51.40	1.0	ZLA	81.08	337 ePc	21 08.40	0.4	
COP	72.56	338 iPc+	20 19.80	-0.5	BUD	77.89	331 iP	20 51.10	0.4	HAU	81.12	339 eP	21 08.40	0.2	
	0.8s	125.37nm		6.0mb	ZST	77.90	332 eP	20 50.90	0.2		1.3s	49.10nm		5.3mb	
	Z	19s	2.08um	5.4msz	VKA	78.08	333 eP	20 52.00	0.2		Z	23s	2.80um	5.6mszX	
MUD	72.64	340 eP	20 20.20	-0.5	KHC	78.14	335 Pc	20 52.60	0.5	TRI	81.16	333 e(P)	21 07.50	-0.8	
	0.7s	26.00nm		5.3mb		1.0s	28.50nm		5.3mb			e(PP)	24 24.00		
SOC	72.69	316 iPc	20 21.00	-0.2		Z	16s	5.00um	5.9mszX			e(PPP)	26 24.00		
	0.8s	70.00nm		5.7mb		N	15s	3.00um				e(S)	31 40.00		
		e	20 46.00	97kmX		E	15s	1.00um				e(SS)	37 00.00		
		eS	29 34.00						20 59.00	20kmX	BSF	81.17	338 P	21 08.48	-0.1
		e	30 04.00						21 41.00		LMN	81.24	26 eP	21 12.50	3.7X
		eSS	34 20.00						22 06.50		MMB	81.25	325 iPc	21 09.00	0.0
ANN	72.81	318 eP	20 14.00	-7.9X					30 56.00		KKB	81.27	325 iPc	21 09.00	0.0
ASPA	72.85	199 eP	20 22.00	-0.3	BNS	78.17	339 ePc	20 52.40	0.2	BBS	81.33	338 P	21 09.64	0.4	
	1.0s	22.80nm		5.1mb		Z	17s	5.20um	5.9mszX	OSS	81.33	336 ePc	21 10.10	0.6	
	Z	22s	0.90um	5.0msz	GRF	78.30	336 iPc	20 53.60	0.6	PLE	81.39	328 iPc	21 10.17	0.4	
ERE	72.87	311 iP+	20 23.80	1.3		1.1s	64.00nm		5.6mb	LLS	81.48	337 iPd	21 11.10	0.8	
	0.9s	23.00nm		5.2mb		Z	21s	2.20um	5.5msz	CTI	81.49	335 Pd	21 09.90	-0.3	
RMO	73.49	185 eP	20 26.00	0.0	WET	78.33	335 iPc	20 53.90	0.7	KHL	81.55	319 iP	21 10.30	-0.4	
ACO	73.90	53 iPc	20 31.90	3.5X		1.0s	71.00nm		5.6mb	IVA	81.60	328 iPc	21 11.02	0.2	
LVV	74.18	329 iP	20 32.00	2.2	GEC2	78.36	335 Pc	20 53.30	-0.1	LOMF	81.61	338 P	21 11.20	0.4	
	Z	18s	4.90um	5.8msz		0.8s	11.59nm		4.9mb	VDL	81.70	336 iPd	21 12.50	1.0	
	N	17s	4.00um		GZR	78.38	327 ePc	20 54.00	0.5	SRS	81.71	325 eP	21 11.97	0.6	
KPL	74.49	349 eP	20 31.70	0.3	MIAR	78.51	51 eP	20 53.81	-0.6	PVY	81.82	328 iPc	21 11.61	-0.4	
ELO	75.06	347 eP	20 34.20	-0.6		0.8s	10.32nm		4.9mb	FLN	81.91	343 eP	21 12.40	0.1	
	1.2s	33.00nm		5.2mb		Z	20s	1.76um	5.4msz		0.8s	15.60nm		5.1mb	
OJC	75.27	332 eP	20 35.90	-0.2	SOP	78.52	332 eP	20 55.00	0.8</						

LDF	82.01	343	eP	21	12.90	0.2			1.1s	64.45nm	5.7mb			1.4s	43.00nm	5.1mb				
SDH	82.06	325	eP	21	12.80	-0.4	LPO	85.46	341	eP	21	30.50	0.1	TIY	31.80	268	eP	33	16.40	0.3
BRY	82.06	329	iPc	21	12.42	-0.9			1.4s	47.05nm	5.5mb		BTO	32.06	275	eP	33	18.20	-0.3	
PRK	82.19	322	eP	21	14.00	0.2	VLI	85.73	323	eP	21	29.50	-2.4X	ZAK	33.08	295	eP	33	25.70	-1.3
BHL	82.21	312	P	21	13.00	-1.2	MBH	85.90	310	eP	21	33.40	0.5		1.4s	16.00nm			4.7mb	
			SKS	31	38.00		AYN	86.03	309	iPd	21	34.33	0.9	IMA	33.10	36	eP	33	27.20	0.0
TMA	82.22	336	ePd	21	14.60	0.5	EPF	87.22	341	eP	21	39.20	0.1		1.0s	8.75nm			4.6mb	
TTG	82.22	328	iPc	21	13.42	-0.5	ZOBO	133.52	63	PKP	28	10.20	-0.4	FBA	35.44	39	eP	33	47.80	0.6
MDI	82.29	336	P	21	14.60	0.4		Z	23s	0.51um		5.2MszX			0.8s	10.69nm			4.8mb	
GRG	82.31	325	eP	21	14.48	0.0	LPB	133.73	63	ePKP	28	11.00	0.3	XAN	36.18	265	P	33	54.00	0.1
GRR	82.35	343	eP	21	15.00	0.5				LR	13	00.00			1.0s	26.00nm			5.1mb	
LOR	1.0s	40.20nm			5.4mb			Z	20s	0.71um		5.4Msz		BALM	38.17	45	eP	34	12.00	1.6
	1.2s	41.05nm			5.4mb		CNCB	134.02	63	iPKPd	28	12.00	1.4	LZH	38.51	272	eP	34	14.50	0.9
VAI	82.47	336	P	21	15.40	0.3				i	28	18.00			1.5s	86.00nm			5.3mb	
BDV	82.50	328	iPc	21	13.71	-1.7	SIV	137.41	55	ePKP	28	05.00	-12.2X	Z	15s	1.26um			4.9Msz	
CSV	82.51	315	eP	21	15.70	0.1				e	28	22.00		N	13s	1.44um				
MMK	82.51	337	ePd	21	17.10	1.3	RTRS	142.52	79	e(PKP)	28	21.80	-4.2X	GTA	39.53	279	eP	34	22.20	0.2
NAV	82.59	41	(P)	21	13.00	-3.0X	CER	143.39	276	ePKP	28	34.00	6.5X		1.5s	21.00nm			4.7mb	
ULC	82.63	328	iPc	21	15.02	-1.1	BAO	143.57	38	ePKP	28	24.20	-4.1X	CD2	41.55	265	eP	34	39.00	0.5
DIX	82.63	337	ePc	21	17.50	1.1				e	28	30.80			1.0s	88.00nm			5.4mb	
LBF	82.64	340	eP	21	16.30	0.1				e	28	43.90		ELT	42.32	304	eP	34	43.00	-1.5
	1.3s	45.85nm			5.4mb				e	28	58.00			1.2s	37.00nm				5.0mb	
SSF	82.68	340	eP	21	16.70	0.4	RTCV	144.19	80	ePKPd	28	26.40	-2.5X	GYA	42.42	258	iPd	34	46.00	0.1
	1.1s	27.35nm			5.2mb		MDZ	144.59	82	e(PKP)	28	27.50	-2.1		1.2s	30.00nm			4.9mb	
PAIG	82.69	324	eP	21	14.92	-1.5	RFA	145.95	84	ePKPc	28	31.60	-0.2	WMQ	45.37	291	P	35	08.50	-0.9
LPF	82.72	343	eP	21	17.10	0.6	TCA	146.49	76	ePKP	28	32.10	-0.7		1.0s	8.40nm			4.6mb	
	1.1s	37.60nm			5.4mb		CDCB	149.05	36	ePKP	28	40.40	3.2X	KMI	45.94	260	Pc	35	14.00	-0.3
EMS	82.77	338	ePd	21	18.10	1.1	NVL	150.32	204	ePKP	28	44.00	6.5X		1.6s	50.00nm			5.2mb	
FNA	82.86	326	eP	21	16.40	-1.0				e	28	58.00		YKA	50.21	37	eP	35	21.50	25kmX
AVF	82.97	340	eP	21	18.40	0.6				e	29	16.00			0.8s	1.60nm			4.1mb	
	0.9s	34.70nm			5.5mb				e	29	41.00		LSA	50.88	273	Pc	35	54.20	1.3	
SMF	82.99	340	eP	21	18.60	0.7	BMA	151.48	37	ePKP	28	47.20	6.5X		1.4s	61.00nm			5.4mb	
	0.9s	59.30nm			5.7mb			S.D. = 0.9	on 309 of 351 obs.				CHTO	52.83	257	eP	36	08.00	0.8	
LIT	83.01	325	eP	21	16.72	-1.4								1.2s	1909.72nm			6.9mb X		
PPCY	83.05	315	eP	21	18.60	0.3							SVE	53.97	317	ePd	36	14.00	-1.0	
MMR	83.05	312	iPc	21	19.50	0.9	? FEB 22, 1993	00h 24m 45.96± 2.33s					FRU	54.03	297	eP	36	15.00	-0.7	
CVL	83.07	39	(P)	21	17.90	-0.5		47.333 N ±47.9km	154.142 E ±30.2km					e			37	15.00		
BOB	83.29	335	P	21	20.61	1.0		DEPTH = 33.0km (normol)					ARU	55.13	318	ePd	36	22.00	-1.6	
	0.7s	23.30nm			5.4mb			4.5mb (3 obs.)						1.0s	50.00nm			5.5mb		
BGF	83.31	340	eP	21	20.00	0.5	KURIL ISLANDS					(221)			e		36	27.00		
	1.2s	30.65nm			5.3mb								GUN	55.60	275	P	36	28.00	0.2	
LPL	83.33	338	eP	21	21.10	1.1	YKA	50.04	37	eP	33	38.80	0.0	KKN	56.08	276	P	36	31.40	0.3
	1.0s	42.80nm			5.5mb			0.7s	0.60nm		3.7mb		PKI	56.13	275	P	36	31.60	0.0	
LPG	83.35	338	eP	21	21.30	1.2	GUN	55.65	275	P	34	21.40	-0.1	DMN	56.31	276	P	36	33.20	0.4
	1.1s	53.50nm			5.6mb		KKN	56.13	276	P	34	24.80	0.0	GKN	56.38	276	P	36	33.60	0.4
SFI	83.36	334	Pc	21	21.70	1.9	PKI	56.19	275	P	34	25.00	-0.3	FCC	60.56	34	eP	37	15.00	13.3X
PGD	83.44	334	P	21	22.29	1.8	DMN	56.37	276	P	34	26.80	0.3	NDI	60.94	282	iPc	37	04.00	-0.6
	1.0s	126.60nm			6.0mb		GKN	56.43	276	P	34	27.00	0.1	BGMT	61.03	54	eP	37	04.20	-1.2
MME	83.45	334	P	21	22.35	1.7	NB2	67.90	342	P	35	43.10	0.2			e	37	17.20		
	1.0s	116.60nm			6.0mb			0.8s	5.60nm		4.7mb		KAF	63.33	335	iP	37	18.10	-2.0	
CRE	83.59	333	P	21	21.80	0.6	HFS	68.15	340	eP	35	44.20	-0.2		0.5s	3.60nm			4.7mb	
BDI	83.60	334	P	21	22.60	1.4		0.4s	2.10nm		4.6mb		NUR	65.10	335	eP	37	28.90	-2.8	
FIR	83.66	334	eP	21	23.00	1.7		S.D. = 0.2	on 8 of 8 obs.					0.5s	8.30nm			5.1mb		
MAF	83.69	341	eP	21	22.50	1.0							RSSD	66.07	50	eP	37	37.00	-1.4	
	0.8s	36.65nm			5.6mb			FEB 22, 1993	00h 26m 52.61± 0.52s					1.0s	6.51nm			4.7mb		
TCF	83.70	341	eP	21	22.30	0.7		47.167 N ± 8.7km	154.041 E ± 7.5km				MAIO	67.22	299	eP	37	46.00	0.3	
	0.9s	21.95nm			5.3mb			DEPTH = 33.0km (normol)				HYB	67.62	272	eP	37	48.50	0.1		
ASS	83.88	333	P	21	24.00	1.4		4.9mb (42 obs.)				NB2	68.04	342	P	37	50.80	0.4		
LSF	83.89	341	eP	21	23.20	0.7	KURIL ISLANDS					(221)			0.5s	5.30nm			4.9mb	
	1.0s	36.20nm			5.5mb							HFS	68.29	340	eP	37	50.80	-1.1		
MFF	83.91	342	eP	21	23.20	0.6	SKR	3.76	20	ePn	27	48.50	-1.1		0.5s	11.50nm			5.2mb	
	0.7s	12.25nm			5.2mb				eS	28	40.10		KIV	70.96	315	eP	38	09.10	0.5	
AGG	84.00	324	eP	21	17.40	-5.7X	KUR	4.70	248	ePn	28	04.50	1.5		1.6s	52.00nm			5.3mb	
DSI	84.20	311	iPc	21	25.00	0.7	PET	6.56	25	ePn	28	26.00	-3.2X	GBA	71.06	270	P	38	10.00	0.5
AQU	84.29	332	P	21	26.10	1.5	YSS	7.73	273	ePn	28	51.00	5.4X	GRS	72.39	309	iPc	38	17.00	-0.3
ATH	84.34	323	eP	21	30.00	5.2X		Z	15s	6.70um					1.6s	50.00nm			5.3mb	
IGT	84.34	326	eP	21	23.96	-0.9			(S)	30	15.00		ASPA	72.81	199	eP	38	18.90	-0.7	
DUI	84.56	331	P	21	27.30	1.3	KUSJ	7.75	242	eP	28	43.70	-2.2		0.6s	8.60nm			4.9mb	
SBF	84.68	336	eP	21	26.80	0.2			eS	30	04.30		ERE	72.84	311	iP+	38	21.00	1.1	
	1.2s	96.10nm			5.9mb		ASAJ	8.55	253	eP	28	57.30	0.3		1.2s	12.00nm			4.8mb	
RJF	84.79	341	eP	21	27.20	0.1	HOJ	9.02	242	eP	29	01.60	-1.8	KSP	75.81	334	eP	38	35.80	-0.9
	1.1s	25.90nm			5.3mb				eS	30	38.20		SPC	76.00	331	eP	38	38.90	0.9	
Z	22s	2.30um			5.5Msz		MRRJ	10.36	247	eP	29	18.60	-3.3X	EKA	76.08	347	P	38	39.00	0.9
LHS	84.93	43	(P)	21	29.18	1.3	OFUJ	12.11	233	eP	29	41.00	-4.7X		1.7s	32.60nm			5.1mb	
CAF	85.03	340	eP	21	28.90	0.6			eS	31	46.40		CLL	76.34	336	iPc	38	40.10	0.4	
	1.0s	21.60nm			5.3mb		MGD	13.10	353	ePn	29	58.00	-0.7		1.3s	42.00nm			5.3mb	
FRF	85.17	337	eP	21	29.50	0.5	MAT	15.84	234	(P)	30	33.00	-1.6	VRI	76.47	325	eP	38	42.00	1.5
CDR	85.30	338	ePc	21	30.50	0.9		1.3s	61.54nm		4.6mb		CVO	76.72	325	eP	38	42.00	0.1	
ORI	85.30	329	P	21	30.70	1.0	MDJ	17.19	270	eP	30	53.00	1.3	MLR	77.09	325	eP	38	45.20	1.1
LFF	85.31	341	eP	21	29.70	0.1		1.5s	65.00nm		4.5mb		PRU	77.09	335	P	38	44.60	0.8	
	0.9s	28.65nm			5.5mb		ILT	25.01	24	iPc	32	13.00	-1.5	MOX	77.32	337	ePc	38	46.80	1.7
LRG	85																			

22d 00h

GRF 78.30 336 iPc 38 50.80 0.3
1.2s 21.00nm 5.0mb
GEC2 78.36 335 P 38 50.70 -0.3
0.6s 1.34nm 4.2mb
KBA 80.05 334 iPc 39 01.30 1.0
0.8s 20.60nm 5.2mb
WTTA 80.38 335 iPc 39 02.30 0.2
1.2s 40.60nm 5.3mb
CDF 80.51 338 eP 39 03.00 0.4
1.2s 17.55nm 4.9mb
BSF 81.17 338 eP 39 06.20 0.1
0.6s 3.50nm 4.5mb
LOR 82.41 340 eP 39 12.80 0.4
0.6s 3.05nm 4.5mb
HRI 82.64 312 eP 39 14.80 0.8
SSF 82.68 340 eP 39 15.20 1.4
0.8s 4.85nm 4.6mb
AVF 82.97 340 eP 39 16.00 0.7
0.8s 8.20nm 4.9mb
SMF 83.00 340 eP 39 16.10 0.6
BGF 83.31 340 eP 39 18.40 1.3
LPL 83.33 338 eP 39 17.50 0.0
0.8s 6.45nm 4.8mb
LPG 83.35 338 eP 39 17.70 0.0
0.9s 9.00nm 4.9mb
MAF 83.69 341 eP 39 19.70 0.6
DSI 84.17 311 eP 39 22.40 0.7
MBH 85.87 310 eP 39 30.60 0.3
BAO 143.63 38 (PKP) 46 22.00 -4.0X
BMA 151.53 37 (PKP) 46 45.00 6.6X
S.D. = 1.0 on 78 of 85 obs.

? FEB 22, 1993 01h 01m 46.55±5.86s
32.437 S ±35.7km 71.892 W ±28.6km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.8 (SAN).

ROCH 0.91 126 iP 02 03.99 -0.2
iS 02 16.32
LCCH 1.07 165 iP 02 06.87 0.2
iS 02 20.04
JACH 1.12 103 iPd 02 07.55 -0.1
iS 02 21.42
PEL 1.24 125 iP 02 09.23 -0.3
iS 02 24.11
TACH 1.45 147 iP 02 13.01 0.1
iS 02 30.78
LNV 1.57 165 iP 02 13.62 -0.8
iS 02 34.24
FCH 1.61 124 iP 02 15.66 0.2
iS 02 36.07
PCH 1.65 136 iP 02 16.15 0.3
CHCH 1.82 145 iP 02 18.75 0.6
iS 02 41.63
S.D. = 0.5 on 9 of 9 obs.

? FEB 22, 1993 01h 36m 14.62±5.01s
23.401 S ±29.7km 178.999 W ±31.4km
DEPTH = 357.1 ±40.4 km
3.8mb (4 obs.)

SOUTH OF FIJI ISLANDS (171)

BKM 13.24 293 iPd 39 11.50 -0.7
DZM 13.50 273 iPc 39 16.50 1.2
CMS 32.13 248 eP 42 11.00 -0.9
CTA 32.40 269 iPc 42 15.50 1.3
i 42 53.00
STK 35.76 248 eP 42 41.80 -0.7
0.4s 3.40nm 4.0mb
ASPA 43.03 260 iPc 43 42.10 0.0
0.6s 23.70nm 4.6mb
WB2 43.35 265 iPd 43 44.00 -0.6
0.9s 3.80nm 3.6mb
iPcP 47 25.10
WRA 43.36 265 P 43 44.80 0.1
0.7s 2.90nm 3.6mb
CHTO 90.36 290 eP 48 37.50 0.1
BUL 129.03 214 ePKP 54 43.30 0.6
0.7s 3.42nm
APO 141.81 350 ePKP 54 51.40 -13.7X
0.3s 0.60nm
KSP 150.14 340 iPKP 55 18.30 -0.7
e 55 52.60
e 58 25.20
CLL 150.63 345 iPKP 55 19.00 -0.7

0.9s 16.00nm
PRU 151.42 342 ePKP 55 21.00 0.1
e 55 26.60
KHC 152.47 342 ePKP 55 23.50 1.0
e 55 29.00
GEC2 152.69 342 PKP 55 22.70 -0.2
0.5s 0.41nm
BCAO 154.66 225 iPKPd 55 27.00 0.5
0.7s 6.00nm
id 55 47.20
S.D. = 0.8 on 16 of 17 obs.

FEB 22, 1993 01h 46m 43.88±0.58s
47.542 N ±9.7km 153.660 E ±8.6km
DEPTH = 33.0km (normal)
4.7mb (26 obs.)

KURIL ISLANDS (221)

SKR 3.51 26 ePn 47 37.50 0.0
eS 48 19.80
KUR 4.63 242 iPn 47 52.50 -0.7
eS 48 50.00
PET 6.34 28 ePn 48 01.00 -16.4X
YSS 7.46 270 ePn 48 37.00 3.9X
KUSJ 7.71 238 eP 48 28.40 -8.2X
eS 49 53.90
ASAJ 8.42 250 eP 48 45.50 -1.0
HOIJ 8.98 239 eP 48 46.60 -7.6X
eS 50 22.50
MGD 12.69 353 ePn 49 45.00 0.4
MAT 15.86 232 eP 50 27.00 0.8
0.9s 15.13nm 4.1mb
ILT 24.78 25 iPd 52 02.70 -0.8
0.8s 14.00nm 4.6mb
BOD 25.69 308 eP 52 11.60 -0.6
1.1s 8.00nm 4.2mb
TIY 31.55 267 eP 53 06.10 0.8
IMA 32.95 37 eP 53 16.50 -0.7
1.0s 2.00nm 4.0mb
F8A 35.31 39 eP 53 37.10 -0.3
0.9s 5.00nm 4.4mb
XAN 35.96 264 P 53 42.50 -0.8
0.6s 15.00nm 5.1mb
sP 53 57.00
LZH 38.24 271 eP 54 03.00 0.4
1.4s 34.00nm 5.0mb
CD2 41.32 265 P 54 27.70 -0.3
1.0s 40.00nm 5.1mb
RES 49.97 19 eP 55 37.00 1.0
YKA 50.07 37 eP 55 34.60 -2.4
0.8s 0.80nm 3.8mb
LSA 50.61 273 Pc 55 43.00 0.9
0.8s 9.00nm 4.8mb
CHTO 52.67 257 eP 55 56.50 -0.7
ARU 54.68 317 eP 56 10.00 -1.6
GUN 55.30 275 P 56 16.80 -0.1
KKN 55.79 275 P 56 20.40 0.2
PKI 55.84 275 P 56 20.60 -0.2
DMN 56.02 275 P 56 22.20 0.2
GKN 56.08 276 P 56 22.20 -0.1
KAF 62.88 335 eP 57 08.00 -0.4
NUR 64.65 335 eP 57 19.40 -0.6
0.4s 2.40nm 4.6mb
RSSD 66.03 50 eP 57 30.41 1.0
0.6s 1.46nm 4.3mb
NB2 67.60 341 P 57 38.40 -0.5
0.8s 9.60nm 4.9mb
SLL 67.63 340 eP 57 38.00 -1.1
0.4s 1.80nm 4.5mb
KIV 70.51 314 (P) 57 57.30 0.1
1.4s 12.00nm 4.8mb
CLL 75.90 336 i(P) 58 28.10 -0.3
1.0s 20.00nm 5.1mb
PRU 76.64 334 Pd 58 33.60 1.0
MOX 76.88 336 eP 58 35.40 1.5
e 58 43.20
e 58 53.00
KHC 77.69 334 eP 58 38.60 0.1
1.0s 3.50nm 4.3mb
KBA 79.60 334 iPc 58 49.50 0.4
0.9s 13.60nm 4.9mb
i 58 55.30
WTTA 79.93 335 iPc 58 51.30 0.4
0.9s 12.20nm 4.9mb
CDF 80.06 338 eP 58 51.70 0.2
0.8s 3.75nm 4.4mb
BSF 80.72 338 eP 58 56.10 1.1

0.6s 3.05nm 4.5mb
LOR 81.96 340 eP 59 02.10 0.7
1.0s 7.60nm 4.7mb
SSF 82.24 340 eP 59 03.70 0.9
0.7s 3.75nm 4.5mb
AVF 82.53 340 eP 59 04.60 0.3
0.9s 7.20nm 4.7mb
SMF 82.55 340 eP 59 04.90 0.4
0.9s 9.00nm 4.8mb
LPL 82.89 337 eP 59 06.60 0.1
LPG 82.90 337 eP 59 06.90 0.3
0.9s 8.20nm 4.8mb
MAF 83.25 340 eP 59 08.10 0.0
S.D. = 0.8 on 44 of 48 obs.

? FEB 22, 1993 02h 07m 55.02±5.50s
41.654 N ±33.4km 23.719 E ±21.7km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
ML 2.7 (THE).

SRS 0.54 190 ePgc 08 06.08 0.0
eSg 08 14.80
KNT 0.79 232 ePg 08 10.16 -0.2
eSg 08 21.32
SOH 0.88 198 ePg 08 11.76 -0.1
eSg 08 24.26
THE 1.17 209 ePb 08 16.96 0.1
eSb 08 33.76
GRG 1.21 235 ePb 08 17.80 0.2
eSb 08 35.52
PAIG 1.73 181 ePb 08 25.24 0.0
S.D. = 0.2 on 6 of 6 obs.

* FEB 22, 1993 02h 08m 54.55±1.74s
50.473 N ±16.2km 98.435 E ±15.9km
DEPTH = 74.2 ±18.4 km
4.3mb (3 obs.)

RUSSIA-MONGOLIA BORDER REGION (333)

IRK 4.10 62 iPgd 09 56.10 0.0
1.1s 188.00nm
e 10 07.00
e 10 28.20
eSg 10 50.00
LR 11 08.00
LZH 14.90 163 eP 12 22.50 0.0
1.5s 30.00nm 4.3mb
GUN 24.47 208 P 14 08.40 0.2
KKN 24.77 209 P 14 10.80 0.0
GKN 24.77 210 P 14 10.60 -0.2
PKI 24.93 208 P 14 12.40 -0.1
DMN 24.99 209 P 14 13.00 0.0
WRA 76.93 146 P 20 40.80 0.5
0.7s 1.50nm 4.0mb
WB2 76.94 145 eP 20 39.80 -0.5
0.8s 4.70nm 4.5mb
S.D. = 0.4 on 9 of 9 obs.

FEB 22, 1993 02h 10m 09.56±1.01s
44.541 N ±4.9km 113.995 W ±10.8km
DEPTH = 5.0km (geophysicist)
EASTERN IDAHO (457)
ML 3.3 (GS), 3.4 (BUT).

MCMT 0.87 70 iPc 10 26.70 -0.2
LTMT 1.35 90 ePc 10 34.90 -0.2
BGMT 1.55 63 ePn 10 38.10 0.0
HBMT 1.59 38 iPnc 10 39.20 0.5
TPMT 1.67 83 ePnc 10 40.40 0.5
LRM 1.68 40 ePn 10 40.20 0.2
BUT 1.79 34 ePn 10 41.70 0.3
iPg 10 44.80
eSn 11 07.80
eSg 11 10.60
LCCM 1.98 48 ePn 10 44.00 -0.3
MEMT 2.39 63 ePn 10 50.00 -0.3
HRY 2.65 34 ePn 10 53.20 -0.6
HVU 2.90 162 eP 10 56.14 -1.3
S 11 33.77
BW06 3.67 117 eP 11 08.95 0.5
NEW 4.31 331 (P) 11 41.38 24.2X
S 12 27.29
DPW 4.43 320 (P) 11 33.26 14.2X
S 12 29.25
DUG 4.43 168 eP 11 20.33 1.2
Sg 12 25.76

22d 02h

MSU 6.18 167 (P) 11 43.59 -0.3
 SES 6.19 18 P 11 42.00 -1.8X
 S.D. = 0.6 on 14 of 17 obs.

4.4s 2.00nm 4.3mb X

* FEB 22, 1993 03h 56m 09.07±0.91s
 21.537 S ± 8.4km 68.266 W ± 10.8km
 DEPTH = 170.4 ± 17.6 km

CHILE-BOLIVIA BORDER REGION (124)

YJA 2.64 104 ePd 56 53.00 -0.9
 ANT 2.93 222 eP 56 57.00 0.1

HJA 3.13 123 ePc 57 00.00 0.6
 CNCB 4.71 3 eP 57 20.00 -0.3

(S) 58 18.00
 LPB 4.98 2 eP 57 23.00 -0.8
 ZOBO 5.22 1 eP 57 28.00 0.9

SIV 8.77 52 P 58 14.40 0.8
 e 59 33.00

BAO 20.09 76 (P) 00 31.00 -0.4
 S.D. = 0.9 on 8 of 8 obs.

FEB 22, 1993 04h 24m 20.69±0.17s
 42.558 N ± 3.4km 43.862 E ± 2.3km

DEPTH = 10.0km (geophysicist)
 5.0mb (53 obs.) 4.6Msz (1 obs.)

NORTHWESTERN CAUCASUS (362)

Felt (III) at Pyatigorsk, Russia.

MTA 1.11 141 iPgdc- 24 39.60 -1.8
 i 24 54.00

GRO 1.55 59 iPgdc+ 24 52.50 4.1X
 i 25 17.00

PYA 1.59 339 iPnd- 24 52.00 3.1X
 iS 25 13.00

KIV 1.64 329 iPnd 24 53.30 3.5X
 e 25 15.90

ERE 2.42 168 iPn- 25 01.40 0.4
 iS 25 36.60

MAK 2.67 79 iPnd- 25 10.00 5.5X
 i 25 18.50

SOC 3.21 290 iPnc 25 12.50 0.4
 e 25 17.50

e 25 24.00
 iS 26 04.00

GRS 3.58 148 iPnd 25 18.40 0.8
 e 26 12.00

SHE 4.06 117 iPnc+ 25 26.00 1.8
 i 25 34.00

i 25 40.00
 i 26 12.00

i 26 24.00
 i 26 38.00

TAB 4.87 156 eP 25 44.00 8.2X
 ANN 5.29 298 iPnd 25 42.00 0.3

i 25 52.50
 e 26 05.00

eS 26 44.00
 AKKT 5.43 253 eP 25 42.60 -1.2

SVST 5.92 244 eP 26 03.30 12.7X
 KVT 6.02 258 iPn 25 50.90 -1.1

CTK 7.02 258 eP 26 07.70 1.5
 BZK 7.34 269 iPn 26 11.50 1.1

KAS 7.62 264 iPd 26 13.30 -1.1
 BBTk 8.80 256 eP 26 33.00 2.1

KAT 9.98 106 iP 26 58.00 11.0X
 eS 28 39.00

BHL 10.78 219 P 27 02.00 3.8X
 S 30 04.00

HRI 11.27 217 eP 27 07.30 2.4X
 ASH 11.99 108 eP 27 12.00 -2.5

1.0s 210.00nm 6.4mb X
 HMDT 12.22 215 eP 27 19.70 2.0

VR1 12.73 291 eP 27 25.00 0.5
 ISR 12.77 288 eP 27 28.00 3.0X

CVO 13.11 290 eP 27 28.00 -1.5
 MLR 13.22 289 eP 27 30.00 -1.2

OBN 13.42 342 iPc 27 32.20 -1.3
 1.0s 49.00nm 5.5mb

Z 12s 2.40um 5.9MszX
 N 12s 2.40um
 iS 29 59.00

MOS 13.80 345 eS 30 06.00
 Z 13s 1.80um 27 38.00 -0.5

MTUR 13.82 288 eP 27 55.50 16.6X
 CMP 13.84 288 ePc 27 48.00 8.9X

SHI 14.65 149 eP 27 50.00 0.0
 MBH 14.67 212 eP 27 50.40 0.3

BMR 15.25 297 ePd 28 13.00 15.5X
 LVV 15.51 305 eP 28 04.00 3.1X

Z 16s 2.00um
 E 14s 2.00um

MNK 15.66 322 eP 28 03.00 0.2
 Z 12s 2.20um

UZH 16.24 299 ePd 28 07.00 -3.3X
 1.0s 29.00nm 4.4mb

BZS 16.26 288 eP 28 12.00 1.4
 ARU 16.79 29 eP 28 14.50 -2.6

1.7s 250.00nm 5.1mb
 Z 16s 2.00um 5.0Msz

E 16s 2.00um
 PSZ 17.68 296 eP 28 27.80 -0.7

SPC 17.69 300 eP 28 27.40 -1.4
 SVE 17.85 31 iPc 28 28.00 -2.4

1.8s 400.00nm 5.2mb
 BUD 18.20 294 eP 28 29.00 -5.9X

OJC 18.23 303 eP 28 34.10 -1.1
 1.1s 123.00nm 5.0mb

i 28 40.40
 i 28 47.70

UZD 18.43 291 eP 28 39.00 1.3
 SRO 18.72 295 eP 28 46.40 5.2X

ZST 19.57 296 eP 28 51.30 -0.3
 VRAC 20.06 299 eP 29 01.10 4.4X

2.1s 226.30nm 5.1mb
 HVAR 20.07 281 iPd 28 55.80 -1.1

PTJ 20.23 289 eP 28 57.90 -0.7
 KSP 20.55 303 eP 29 01.70 -0.1

1.0s 47.00nm 4.8mb
 i 29 06.50

i 33 54.00
 e 35 23.00

VBV 20.73 288 eP 29 03.60 -0.1
 LUJ 21.22 290 e(P) 29 09.00 0.3

NUR 21.44 334 iP 29 10.60 -0.1
 0.6s 41.80nm 5.0mb

PRU 21.49 300 eP 29 12.20 0.8
 e 29 15.10

e 33 18.00
 VOY 21.67 290 e(P) 29 16.00 2.6X

TRI 21.77 289 e(P) 29 13.60 -0.6
 e 33 20.00

RBL 21.88 291 P 29 18.20 2.7X
 GEC2 21.89 297 Pd 29 16.30 0.7

0.9s 7.70nm 4.1mb
 e 29 21.40

KHC 22.00 298 eP 29 17.40 0.8
 1.1s 20.50nm 4.5mb

e 29 22.50
 e 29 32.00

BRG 22.01 303 iP 29 16.20 -0.4
 i 29 20.60

KBA 22.04 292 iPc 29 17.90 0.8
 1.0s 30.60nm 4.7mb

i 29 30.60
 i 29 40.10

KAF 22.19 338 iP 29 18.30 0.0
 0.8s 72.20nm 5.2mb

QUE 22.24 116 eP 29 20.00 0.8
 eS 33 28.00

AQU 22.42 280 P 29 23.60 2.8X
 WTTA 23.20 293 iPc 29 28.80 0.2

0.9s 50.90nm 5.1mb
 i 29 35.50

WATA 23.24 293 iPc 29 29.20 0.2
 CRE 23.26 284 P 29 32.00 2.9X

MOX 23.44 301 eP 29 34.30 3.6X
 FUR 23.46 295 eP 29 33.80 2.9X

SQTA 23.50 293 iPc 29 31.60 0.2
 1.0s 49.50nm 5.0mb

i 29 37.90

MOTA 23.57 293 iPc 29 32.20 0.1
 1.0s 34.90nm 4.9mb

GRF 23.58 299 iPc 29 30.10 -2.0
 1.2s 35.00nm 4.8mb

Z 18s 0.40um 3.9MszX

e 29 37.10
 UPP 23.62 326 iP 29 33.90 1.6

OGA 23.63 292 iPd 29 34.30 1.5
 FIR 23.73 284 eP 29 36.00 2.5X

MME 24.07 285 P 29 40.70 3.5X
 BDI 24.16 285 P 29 40.10 2.3

OSS 24.24 291 iPc 29 39.70 1.0
 KSH 24.36 86 P 29 42.00 2.2

1.0s 60.00nm 5.2mb
 Z 12s 1.88um 4.8MszX

N 12s 1.49um
 E 12s 1.63um

pP 29 49.00 25kmX
 sP 29 52.00

ScS 40 38.00
 MDI 24.60 289 P 29 42.80 0.9

VDL 24.71 291 iPd 29 44.40 1.1
 LLS 25.02 292 iPd 29 46.30 0.1

TMA 25.15 290 iPd 29 47.80 0.3
 VAI 25.24 290 P 29 47.80 -0.3

SLE 25.33 294 ePd 29 49.00 0.1
 ZLA 25.41 293 ePc 29 50.20 0.5

HFS 25.43 324 eP 29 49.90 0.2
 0.6s 23.00nm 5.1mb

APA 25.69 351 iPd 29 52.90 0.8
 i 30 37.00

MMK 25.79 290 ePd 29 53.20 -0.3
 MUD 26.14 314 iPc 29 57.70 1.4

0.8s 27.00nm 5.0mb
 iPP 30 13.60 68kmX

DIX 26.17 290 iPc 29 58.10 1.0
 BSF 26.47 294 eP 29 59.60 -0.1

EMS 26.50 290 ePd 30 00.60 0.5
 WTS 26.59 304 eP 30 03.50 2.9X

1.0s 37.20nm 5.0mb
 SDF 26.65 345 iP 30 01.80 0.8

LPG 26.69 289 eP 30 01.90 0.0
 0.9s 18.65nm 4.8mb

LPL 26.70 289 eP 30 01.70 -0.3
 0.6s 9.30nm 4.7mb

HAU 26.76 295 eP 30 01.70 -0.5
 WIT 26.77 305 eP 30 05.00 2.8X

NB2 26.94 325 P 30 02.90 -0.9
 0.9s 25.70nm 4.9mb

LBF 28.44 293 eP 30 16.60 -0.9
 0.9s 7.70nm 4.5mb

LOR 28.49 293 eP 30 16.80 -1.1
 SMF 28.57 292 eP 30 18.00 -0.6

1.1s 15.65nm 4.7mb
 KEV 28.61 348 eP 30 19.00 0.3

SSF 28.75 293 eP 30 19.60 -0.6
 1.1s 11.00nm 4.6mb

AVF 28.89 292 eP 30 20.90 -0.5
 0.9s 16.05nm 4.8mb

TCF 29.73 292 eP 30 27.60 -1.5
 ELT 29.95 54 eP 30 30.40 -0.5

2.0s 59.00nm 5.1mb
 Z 12s 0.90um 4.6MszX

WMO 31.71 73 P 30 47.00 0.4
 1.0s 21.00nm 5.0mb

Z 14s 0.99um 4.6MszX
 N 10s 0.70um

EKA 32.77 309 P 30 56.00 0.3
 1.3s 37.30nm 5.2mb

NRI 35.16 25 ePc 31 17.00 0.9
 1.4s 52.00nm 5.2mb

e 32 36.00
 GKN 35.96 100 P 31 23.40 -0.1

DMN 36.52 101 P 31 29.00 0.6
 KKN 36.54 100 P 31 28.60 0.0

PKI 36.76 100 P 31 30.20 -0.3
 GUN 36.91 99 P 31 32.00 0.2

KBS 38.52 351 iPd 31 48.00 3.7X
 MOY 39.01 56 eP 31 48.80 0.1

LSA 39.81 93 P 31 57.00 0.8
 ZAK 40.69 58 eP 32 02.00 -0.5

1.0s 12.00nm 4.6mb
 AKU 40.79 326 iP 32 06.00 2.8X

1.0s 32.00nm 5.0mb
 GBA 40.88 125 P 32 04.00 -0.5

GTA 41.71 75 eP 32 11.00 -0.3
 2.0s 27.00nm 4.6mb

Z 11s 0.37um 4.5MszX
 E 10s 0.22um

pP 32 16.00 17kmX
 BAO 44.14 218 iPc 32 28.00 -3.2X

0.8s 21.00nm 5.0mb

BOD	45.37	45 eP	32 41.00	32 39.20	-1.4	UYO	115.81	55 iPKPc	46 17.80	17.2X	IS	04 04.14				
	1.0s	20.00nm			5.0mb	ZOBO	137.84	122 PKP	46 35.00	-8.9X	IP	03 41.70	-0.2			
LZH	46.01	77 eP	32 47.00	0.9				LR	56 20.00		IS	04 06.55				
	1.4s	53.00nm			5.3mb	SIV	143.78	127 PKP	47 04.00	10.3X	IP	03 46.09	0.4			
Z	15s	0.53um			4.6MszX	BAO	153.29	143 ePKP	47 23.90	15.2X	IS	04 14.73				
E	10s	0.28um					S.D. = 1.4	on	6 of 11 obs.		IP	03 46.68	-0.6			
											IP	03 48.58	0.2			
											IS	04 19.80				
BTO	48.38	69 eP	32 57.00	33kmX		? FEB 22, 1993	04h	40m	26.78±1.95s		CHCH	2.91 148 eP	03 50.59	-0.3		
CD2	48.47	83 eP	33 06.00	1.0			42.735 N ± 9.6km		13.647 E ± 21.6km		IS	04 24.14				
TIK	48.74	25 iP	33 07.00	0.2			DEPTH = 10.0km	(geophysicist)			RTRS	2.95 64 ePd	03 50.50	-0.8		
	2.0s	53.00nm			5.2mb		CENTRAL ITALY		(381)		S	04 23.00				
											RTCS	3.19 91 eP	03 55.50	0.6		
HHC	49.33	68 P	33 12.40	0.5		AQU	0.42 205 P		40 35.90	0.5	MDZ	3.42 115 e(P)	04 06.10	8.0X		
	1.2s	20.00nm			5.0mb	ASS	0.80 295 P		40 41.70	-0.6	RTCV	3.43 97 e(P)	03 58.00	-0.2		
XAN	50.64	77 P	33 22.50	0.5					40 50.80		RTLL	3.48 89 eP	04 00.00	1.1		
	1.0s	11.00nm			4.8mb	ARV	0.92 326 P		40 44.90	0.5	TCA	6.79 91 e(P)	04 46.00	0.2		
KMI	50.90	90 eP	33 24.00	-0.3					40 59.90			S.D. = 0.7	on 12 of 13 obs.			
	1.5s	40.00nm			5.1mb	SDI	1.04 173 P		40 46.00	-0.4						
TIY	51.35	71 eP	33 26.30	-1.1					40 59.40							
Z	20s	0.62um			4.6Msz		S.D. = 1.0	on	4 of 4 obs.							
CHTO	51.93	99 eP	33 31.40	-0.5		? FEB 22, 1993	04h	42m	06.41±1.77s			FEB 22, 1993	05h	12m	19.68±0.60s	
KHT	54.30	103 eP	33 49.20	-0.2			47.182 N ± 37.2km		154.014 E ± 21.0km				37.215 N ± 6.1km		137.245 E ± 5.2km	
TIC	55.94	245 P	33 59.00	-2.3			DEPTH = 33.0km	(normol)					DEPTH = 45.0 ± 7.5 km			
KIC	55.96	244 P	33 59.00	-2.5			4.5mb (10 obs.)						4.7mb (10 obs.)		4.1Msz (1 obs.)	
LIC	56.25	244 P	34 01.00	-2.6			KURIL ISLANDS		(221)				NEAR WEST COAST OF HONSHU, JAPAN(226)			
NNT	56.59	105 eP	34 07.20	1.2									Felt (III JMA) at Wajima; (II			
AVY	61.27	176 eP	34 38.00	-0.6									JMA) at Fushiki and Kanazawa; (I			
VTY	61.42	176 iPd	34 39.00	-0.5									JMA) at Fukui and Toyama.			
BUL	63.95	196 eP	34 53.90	-2.5												
	0.8s	3.73nm			4.6mb	IMA	33.10 36 eP		48 41.20	0.2	MTMJ	0.77 144 P	12 33.90	-0.5		
ILT	65.30	16 iPc	35 04.00	-0.4					4.0mb				S	12 45.10		
	1.1s	30.00nm			5.4mb	FBA	35.44 39 eP		49 00.80	-0.2	MAT	1.02 131 iPd	12 37.70	-0.1		
BRW	65.49	7 eP	35 05.69	0.1					4.3mb				eS	12 52.00		
IMA	70.86	7 eP	35 39.27	0.0		LZH	38.49 272 eP		49 27.50	0.3	NIIJ	1.40 88 P	12 42.50	-0.6		
	1.1s	10.55nm			4.9mb		1.2s	23.00nm		4.9mb			S	12 59.60		
JAQ	70.96	327 ePd	35 39.80	-0.2		YKA	50.21 37 eP		51 00.20	-0.4	IIDJ	1.81 163 P	12 50.20	1.2		
FBA	72.49	5 eP	35 48.88	0.0			0.9s	0.70nm		3.7mb			S	13 13.40		
	1.0s	12.52nm			5.0mb	GUN	55.58 275 P		51 40.40	-1.0	CHJJ	1.83 129 P	12 50.50	1.3		
FCC	73.19	339 ePd	35 56.70	3.7X		KKN	56.06 276 P		51 45.20	0.5			S	13 15.90		
TTA	73.66	9 eP	35 56.28	0.4		PKI	56.11 275 P		51 45.00	-0.3	TSRJ	1.96 212 P	12 51.60	0.6		
	1.4s	10.95nm			4.7mb	DMN	56.29 276 P		51 46.40	-0.1			S	13 17.90		
YKA	73.88	350 eP	35 56.00	-1.0		GKN	56.36 276 P		51 46.80	0.0	YAMJ	2.41 66 eP	13 00.20	2.7X		
	0.7s	6.90nm			4.8mb	NUR	65.08 335 eP		52 36.00	-9.3X	KAKJ	2.56 112 P	12 57.30	-2.3		
SVW	75.48	10 eP	36 06.79	0.5		APD	67.85 340 eP		53 01.60	-1.4	WKYJ	3.28 205 P	13 09.90	0.0		
	1.2s	24.40nm			5.1mb		0.5s	2.90nm		4.7mb	YONJ	3.67 238 P	13 15.30	0.0		
KLU	76.00	5 ePc	36 09.78	0.5		NB2	68.02 341 P		53 03.40	-0.7	OFUJ	3.95 61 P	13 19.10	-0.3		
RSO	76.44	8 eP	36 11.60	-0.4			0.8s	8.80nm		4.9mb	AOMJ	4.14 35 eP	13 22.60	0.6		
BALM	76.64	3 eP	36 13.10	0.2		KSP	75.79 334 ePc		53 51.00	0.6	TKSJ	4.14 220 P	13 22.60	0.5		
SLKM	76.65	7 eP	36 12.85	0.0		KHC	78.12 335 eP		54 04.00	0.6	BJI	16.70 286 eP	16 18.00	6.1X		
EEO	77.78	324 eP	36 23.50	4.1X					54 14.00			1.5s	46.00nm		4.4mb	
ULM	81.10	335 eP	36 41.50	4.3X		GEC2	78.34 334 P		54 04.70	0.1	Z	12s	0.48um		5.7MszX	
SES	84.86	344 ePc	36 57.00	0.4			0.6s	1.17nm		4.0mb	TIY	19.69 279 eP	16 48.60	0.5		
	1.0s	40.00nm			5.6mb			e	24 36.20		Z	15s	1.42um			
NEW	88.02	347 ePd	37 13.29	1.2		SSF	82.66 340 eP		54 29.60	2.1X	E	17s	1.09um			
	1.0s	60.54nm			5.9mb		0.9s	4.90nm		4.6mb	HHC	20.25 288 P	16 58.00	4.0X		
DPW	88.57	348 eP	37 15.42	0.6		LPL	83.31 338 eP		54 31.70	0.5	LZH	26.75 278 eP	17 56.80	-0.3		
RSSD	89.04	337 eP	37 17.88	0.5		LPG	83.33 337 eP		54 31.30	-0.1		1.4s	24.00nm		4.6mb	
	1.5s	29.33nm			5.3mb	MAF	83.67 340 eP		54 34.20	1.4	GYA	27.99 256 Pd	18 07.60	-0.8		
BW06	91.75	341 ePc	37 29.75	-0.2			0.9s	6.70nm		4.8mb	Z	18s	0.50um		4.1Msz	
	1.3s	4.88nm			4.7mb		S.D. = 0.7	on 17 of 19 obs.			GUN	43.82 273 P	20 23.60	0.2		
DAU	94.40	341 eP	37 43.77	1.5		% FEB 22, 1993	04h	43m	50.21±0.77s		PKI	44.34 273 P	20 22.60	-5.1X		
SRU	95.45	340 eP	37 47.17	0.2			44.594 N ± 5.6km		7.111 E ± 11.4km		KKN	44.35 273 P	20 23.20	-4.4X		
MEO	95.71	330 iPc	37 47.90	-0.1			DEPTH = 10.0km	(geophysicist)			GKN	44.77 274 P	20 28.80	-2.1		
WMOK	95.82	330 eP	37 48.44	-0.1			NORTHERN ITALY		(545)		IMA	48.23 31 eP	20 58.50	0.9		
	1.2s	11.28nm			5.2mb		ML 1.6 (GEN).				FBA	50.73 32 eP	21 17.00	0.4		
MSU	96.42	341 iPc	37 52.98	1.5							WB2	56.91 183 iPc	22 02.10	-0.4		
	S.D. = 1.0	on 135 of 169 obs.										0.4s	7.00nm		5.0mb	
? FEB 22, 1993	04h	27m	25.91±7.57s			PZZ	0.09 185 P		43 52.90	0.0	WRA	56.92 183 P	22 03.00	0.4		
	5.858 S ± 48.2km	148.216 E ± 67.5km					S		43 54.55			0.6s	4.20nm		4.6mb	
	DEPTH = 86.1 ± 13.9 km					BHB	0.27 24 P		43 55.92	0.0	ASPA	60.64 184 eP	22 27.80	-0.5		
	4.6mb (2 obs.)						S		43 59.45			0.7s	7.30nm		4.9mb	
NEW BRITAIN REGION, P.N.G.	(192)					STV	0.38 156 P		43 58.21	0.1	YKA	65.30 29 eP	22 58.50	-0.2		
							S		44 03.57			0.9s	0.70nm		3.7mb	
FINC	0.83 205 eP	27 43.70	0.0			RRL	0.40 325 P		43 58.49	0.0	KAF	66.59 331 iP	23 06.30	-0.7		
YYYY	2.27 260 eP	28 02.80	0.5			ENR	0.43 149 P		43 58.90	-0.1		0.7s	6.40nm		4.8mb	
	eS	28 28.10					S		44 04.94		NUR	68.19 331 eP	23 16.30	-0.8		
							S.D. = 0.1	on	5 of 5 obs.			0.6s	5.60nm		4.8mb	
MDG	2.50 284 eP	28 05.00	-0.3								NB2	72.69 336 P	23 44.10	-0.3		
PMG	3.68 196 iPd	28 21.40	-0.2			* FEB 22, 1993	05h	03m	03.62±3.97s			0.9s	8.60nm		4.7mb	
	eS	29 02.00					31.484 S ± 15.5km		72.534 W ± 32.6km		BGMT	76.90 43 eP	24 10.80	1.7		
WWKK	5.09 296 eP	28 47.00	5.7X				DEPTH = 10.0km	(geophysicist)			KSP	78.15 326 eP	24 16.00	0.5		
WB2	19.43 223 iPd	31 46.90	-1.4				OFF COAST OF CENTRAL CHILE	(134)			KHC	80.60 326 eP	24 29.90	1.1		
	0.5s	16.40nm			4.6mb		MD 4.1 (SAN).					1.0s	5.40nm		4.5mb	
ASPA	22.44 216 iPd	32 20.00	1.4			JACH	2.03 126 iP		03 37.55	-0.9			S.D. = 1.0	on 29 of 34 obs.		
	0.4s	12.40nm			4.6mb		IS		04 00.00							
						LCCH	2.15 158 iP		03 40.51	0.6						

5.6mb (123 obs.)	5.2Msz (28 obs.)	E 14s	2.69um	SLKM	34.39	46 eP	44 08.14	-0.9
KURIL ISLANDS	(221)	S	47 07.00	WHN	34.65	256 iPd	44 11.00	-0.5
Mw 5.5 (HRV).		24 iPc+	42 44.80	-0.5	1.0s	67.00nm		5.5mb
CENTROID, MOMENT TENSOR	(HRV)	1.0s	180.00nm	5.7mb	Z 16s	3.79um		5.2MszX
Dato Used: GDSN		Z 16s	2.10um	4.7MszX	N 17s	2.94um		
L.P.B.: 38S, 74C		N 16s	1.20um		E 16s	3.67um		
Centroid Location:		E 16s	2.20um			eS	49 34.00	
Origin Time	06:37:28.5 0.3	e	43 30.00	236kmX	PMR	34.88	44 eP	44 12.99
Lot 47.16N 0.04 Lon 154.20E 0.04		iS	47 08.00		0.8s	19.66nm		5.1mb
Dep 27.1 1.9 Half-duration 1.5		309 eP	42 54.20	-1.7	Z 20s	2.35um		4.9Msz
Moment Tensor: Scale 10**17 Nm		1.1s	100.00nm	5.4mb	FBA	35.46	39 eP	44 17.38
Mrr=-1.86 0.05 Mtt=-0.28 0.07		26.44	296 eP	42 57.00	-1.6	0.8s	28.86nm	5.3mb
Mff=-1.58 0.06 Mrt= 0.25 0.14		Z 16s	12.62um	5.6MszX	QZH	35.78	244 eP	44 22.00
Mrf= 1.07 0.17 Mtf=-1.09 0.06		E 16s	15.53um		Z 16s	2.14um		5.0MszX
Principal Axes:		27.28	343 eP	43 02.00	-4.0X	S	50 00.00	
T Vol= 2.17 Plg=74 Azm=264		1.6s	104.00nm	5.2mb	XAN	36.19	265 P	44 23.70
N 0.29 9 26		Z 18s	7.50um	5.3Msz	1.0s	78.00nm		5.6mb
P -2.46 14 118		i	43 50.00	246kmX	Z 15s	6.18um		5.5MszX
Best Double Couple:Mo=2.3*10**17		53 52.00			N 15s	1.64um		
NP1:Strike=220 Dip=32 Slip= 107		43 15.50	1.5		E 15s	3.25um		
NP2: 21 59 80		1.2s	49.00nm	5.1mb	KLU	36.42	44 eP	44 25.41
		Z 17s	8.19um	5.4MszX	8ALM	38.19	45 eP	44 41.13
		E 16s	5.44um		LZH	38.52	272 iPd	44 45.00
			eS	47 56.00	1.2s	280.00nm		5.9mb
			47 25.10	-0.5	Z 16s	4.59um		5.4MszX
			68.00nm	5.2mb	N 15s	3.20um		
			1.90um	4.9MszX		pP	44 55.00	34km
			1.68um			sP	44 58.50	
			1.33um			PP	46 17.00	
			S	48 14.00		eS	50 38.00	
			43 31.70	2.2		sS	50 49.00	
			1.80um	4.7Msz	NR1	38.58	329 eP	44 40.00
			1.80um		0.9s	74.00nm		5.5mb
			1.30um			e	46 19.00	567kmX
			sS	48 40.00		e	46 56.00	
			43 37.00	-0.3		e	50 38.00	
			26.00nm	5.0mb	GTA	39.55	279 eP	44 52.50
			2.62um	5.0MszX	1.5s	70.00nm		5.2mb
			0.93um		Z 14s	5.22um		5.5MszX
			0.98um		N 13s	2.29um		
			sP	43 52.00		pP	45 00.50	27km
			43 38.00	-1.0		sP	45 05.00	
			89.00nm	5.5mb		PP	46 29.00	
			5.93um	5.3MszX	GZH	40.41	248 P	45 00.00
			1.79um		0.8s	34.00nm		5.1mb
			4.00um		Z 15s	2.36um		5.2MszX
			pP	43 46.00	28km	E 14s	1.66um	
			S	48 40.00		S	51 10.00	
			48 52.00		BAG	41.26	233 eP+	45 08.00
			43 44.71	-1.0	CD2	41.56	265 iPd	45 08.00
			14.54nm	4.9mb	1.0s	470.00nm		6.2mb
			e	43 58.60	55kmX	Z 16s	4.57um	5.4MszX
			45 eP	43 45.67	-0.4	42.35	304 iPd	45 14.20
			29.79nm	5.3mb	ELT	1.4s	114.00nm	5.4mt

RES	50.27	19	eP	46	19.00	1.2			e	48	09.00	20km			e	59	17.00				
	1.0s		14.00nm			4.9mb			e	48	35.00		EDU	74.93	347	eP	49	06.70	4.4X		
LSA	50.90	273	Pc	46	24.00	0.3		ULM	65.81	41	eP	48	10.00	2.9X	ELO	75.11	347	eP	49	02.60	-0.8
	1.0s		140.00nm			5.9mb		SRU	65.87	58	eP	48	07.08	-0.8		1.1s		31.00nm		5.2mb	
	Z	20s	4.25um			5.5MsZ		RSSD	66.08	50	eP	48	08.75	-0.5	EBH	75.29	347	eP	49	04.50	0.1
PRZ	51.92	294	eP	46	26.00	-5.0X			1.4s		60.32nm				1.2s		33.00nm		5.2mb		
	0.8s		60.00nm			5.6mb		Z	20s		0.71um				OJC	75.30	332	eP	49	04.50	0.0
TLG	52.13	296	eP	46	32.00	-0.4					e	48	21.74	45kmX		1.0s		284.00nm		6.3mb	
	1.9s		47.00nm			5.1mb		QUE	66.71	290	eP	48	12.70	-0.7			i		49	05.00	2kmX
	Z	14s	4.60um			5.7MsZ		ASH	66.82	301	eP	48	13.50	-0.2			i		49	06.40	
	N	14s	3.50um					KAT	67.17	303	iP	48	19.00	3.1X	EAB	75.47	348	eP	49	05.40	0.0
	E	15s	2.40um						Z	15s		2.30um			1.2s		29.00nm		5.2mb		
			iPPP	49	38.00			MAIO	67.25	299	eP	48	11.00	-5.6X	WMOK	75.61	54	eP	49	05.73	-0.9
KBS	52.23	351	eP	46	34.50	1.9		CTA	67.27	188	eP	48	15.00	-1.6		1.0s		9.50nm		4.8mb	
CHTO	52.84	257	ePc	46	38.00	0.1		GLA	67.33	66	eP	48	16.59	-0.5		Z	20s		0.77um		5.0MsZ
	0.9s		72.46nm			5.6mb		AKU	67.36	356	iP	48	18.20	1.5	EAU	75.67	347	eP	49	07.00	0.4
			eS	54	02.00				1.7s		353.85nm				MEO	75.69	54	iPc	49	06.90	-0.1
SHL	53.03	269	eP	46	40.00	0.5		UPP	67.60	338	iP	48	16.80	-1.5	EEO	75.69	35	eP	49	11.00	4.2X
SVE	54.00	317	iPc	46	44.00	-2.0		HYB	67.64	272	eP	48	17.80	-1.4	PTT	75.75	326	eP	49	01.00	-6.2X
	Z	14s	3.00um			5.5MsZ			0.8s		61.40nm				UZH	75.82	329	ePd	49	06.70	-0.7
	N	14s	1.50um					NB2	68.08	342	P	48	20.20	-1.2		1.0s		80.00nm		5.7mb	
	E	14s	2.50um					HFS	68.33	340	eP	48	21.50	-1.3			i		49	15.50	28km
			eS	54	19.00				0.8s		355.80nm				KSP	75.85	334	iPd	49	07.50	-0.1
NST	54.31	253	eP	46	52.00	3.4X		NAO	68.36	342	P	48	20.79	-2.2X		0.9s		131.00nm		6.0mb	
KSH	55.14	293	P	46	54.00	-0.7		GOL	68.40	55	eP	48	23.39	-0.6	PPE	75.87	325	ePd	49	08.00	0.2
	1.0s		290.00nm			6.3mb			0.9s		7.66nm				SPC	76.04	331	eP	49	09.00	0.4
	Z	18s	6.70um			5.8MsZ			Z	18s		0.91um			SHI	76.07	299	e			

MBH	85.90	310	eP	50	01.10	-0.1						
AYN	86.03	309	eP	50	01.00	-0.7						
BADA	86.84	310	eP	50	07.00	1.3						
EPF	87.26	341	eP	50	06.90	-0.7						
WAJH	87.87	307	eP	50	10.00	-0.7						
TIC	123.34	335	PKP	56	17.40	-1.3						
LIC	123.74	335	PKP	56	19.00	-0.5						
Z	22s		0.39um			5.0MsZ						
			e	57	51.50							
BUL	128.48	282	ePKP	56	27.80	-0.8						
			i	58	33.10							
ZOBO	133.59	63	PKPc	56	38.00	-1.1						
			LR	41	40.00							
LPB	133.80	63	PKP	56	40.00	0.8						
Z	20s		0.35um			5.1MsZ						
			LR	42	10.00							
CNCB	134.08	63	PKPc	56	40.40	0.5						
SIV	137.49	55	ePKP	56	38.00	-7.7X						
BAO	143.65	38	ePKP	56	53.50	-3.3X						
			e	57	01.40							
			e	58	02.50							
MDZ	144.64	82	i(PKP)	56	56.90	-1.1						
RFA	146.00	84	ePKPd	57	00.40	0.2						
TCA	146.55	76	iPKP	57	01.50	0.3						
CDCB	149.12	36	ePKP	57	09.10	3.5X						
NVL	150.25	204	ePKP	57	10.00	4.3X						
	1.8s		57.00nm									
			e	57	24.00							
BMA	151.55	37	ePKP	57	15.10	5.9X						
	S.D. = 1.0 on 292 of 342 obs.											
FEB 22, 1993 06h 49m 01.63± 0.38s												
47.177 N ± 6.7km 153.968 E ± 5.5km												
DEPTH = 33.0± km (normal)												
4.9mb (37 obs.) 5.1MsZ (2 obs.)												
KURIL ISLANDS						(221)						
SKR	3.76	21	ePn	49	59.00	0.3						
Z	12s		6.70um									
N	12s		4.20um									
E	14s		10.60um									
			iS	50	41.50							
KUR	4.66	248	iPnd	50	12.00	0.6						
			iS	51	07.50							
PET	6.57	26	ePn	50	40.00	1.6						
YSS	7.68	273	ePnc	50	56.00	2.1						
Z	17s		6.90um									
E	17s		5.00um									
KUSJ	7.71	241	eP	50	51.10	-3.2X						
			eS	52	14.10							
ASAJ	8.50	253	eP	51	06.40	1.0						
HOOJ	8.98	242	eP	51	11.40	-0.5						
			eS	52	46.90							
MGD	13.08	353	ePn	52	07.00	-0.5						
MAT	15.80	233	(P)	52	42.00	-1.2						
	1.3s		25.00nm			4.2mb						
ILT	25.02	24	iPc	54	23.00	-0.6						
	1.6s		42.00nm			4.8mb						
BOD	26.08	309	eP	54	32.50	-1.1						
	1.5s		27.00nm			4.6mb						
HHC	30.85	274	P	55	17.20	0.4						
	1.4s		25.00nm			4.8mb						
TIY	31.75	268	eP	55	23.40	-1.3						
Z	16s		2.73um			5.0MsZ						
E	15s		1.00um									
SVW	31.76	45	eP	55	23.50	-1.0						
ZAK	33.03	295	eP	55	34.00	-1.6						
	1.6s		22.00nm			4.8mb						
IMA	33.12	36	eP	55	36.00	-0.4						
FBA	35.46	39	eP	55	55.80	-0.6						
	0.8s		13.10nm			4.9mb						
XAN	36.13	265	P	56	02.40	-0.1						

N 15s	1.34um					LPL	83.31 337 eP	01 27.60	1.2	SMY	14.05 59 (P)	09 13.98	-5.6X	
E 15s	1.20um						0.7s	5.75nm	4.8mb		1.1s	278.66nm	5.9mb	
	S	03 13.00				LPG	83.32 337 eP	01 27.80	1.3	MAT	15.83 234 eP	09 38.00	-4.7X	
YKA	50.23 37 eP	57 55.20	-0.8				0.7s	9.50nm	5.0mb		1.5s	327.78nm	5.3mb	
	0.7s	1.50nm	4.1mb			MAF	83.66 340 eP	01 28.40	0.5	Z	20s	5.32um	4.2MsZ	
RES	50.24 19 eP	57 57.00	1.1				0.4s	4.80nm	5.0mb			eS	12 35.00	
LSA	50.83 273 Pc	58 03.00	1.4			TCF	83.68 341 eP	01 28.10	0.1	VLA	16.14 264 iPc	09 59.00	12.4X	
	1.4s	26.00nm	5.0mb			MFF	83.89 342 eP	01 28.90	-0.2	Z	14s	2.60um		
CHTO	52.79 257 ePc	58 16.20	0.4				S.D. = 0.9 on 76 of 82 obs.			N	14s	3.90um		
	1.3s	19.61nm	4.9mb							E	13s	1.80um		
SVE	53.92 317 ePc	58 22.10	-1.6				FEB 22, 1993 06h 59m 13.90±2.15s			MDJ	17.21 271 eP	09 59.40	-0.6	
ARU	55.09 318 ePc	58 30.50	-1.8				47.459 N ±43.1km 153.890 E ±26.0km				1.5s	230.00nm	5.1mb	
GUN	55.55 275 P	58 36.60	0.2				DEPTH = 33.0km (normol)			Z	16s	13.00um	5.6MsZ	
KKN	56.03 276 P	58 40.20	0.5				4.7mb (7 obs.)			N	16s	6.59um		
PKI	56.08 275 P	58 40.20	0.0				KURIL ISLANDS	(221)		E	13s	7.26um		
DMN	56.26 276 P	58 42.00	0.5								S	13 07.00		
GKN	56.33 276 P	58 42.40	0.6			FBA	35.28 39 eP	06 07.50	0.4	CN2	20.29 271 P	10 32.50	-3.5X	
BGMT	61.06 54 eP	59 13.90	-0.7				1.0s	6.00nm	4.5mb		1.0s	58.00nm	4.9mb	
						YKA	50.04 37 eP	08 05.80	-1.0	Z	16s	10.00um	5.3MsZ	
KAF	63.30 335 iP	59 27.70	-1.3				0.7s	0.40nm	3.6mb X	N	16s	4.84um		
	0.4s	4.40nm	4.9mb			GUN	55.47 275 P	08 47.80	-0.3	E	16s	6.70um		
BW06	64.02 54 eP	59 34.50	0.2			KKN	55.95 275 P	08 51.20	-0.2	YAK	20.34 326 iPc	10 33.20	-3.1X	
	1.0s	3.00nm	4.3mb			PKI	56.00 275 P	08 51.60	-0.4		0.8s	63.00nm	5.0mb	
NUR	65.07 335 iP	59 39.30	-1.2			DMN	56.18 275 P	08 53.20	0.0	Z	14s	8.30um	5.2MsZ	
	0.3s	4.00nm	5.0mb			GKN	56.25 276 P	08 53.60	0.1	N	14s	2.80um		
RSSD	66.10 50 eP	59 48.10	0.4			KAF	63.02 335 eP	09 37.90	-1.5	E	14s	7.00um		
QUE	66.64 290 eP	59 51.40	0.2				0.6s	2.80nm	4.6mb			e	11 03.00	
UPP	67.53 338 iP	59 54.40	-1.8			NUR	64.79 335 eP	09 46.70	-4.3X			iS	14 21.00	
NB2	68.01 341 P	59 58.70	-0.6				0.5s	3.60nm	4.7mb			e	14 41.00	
	0.9s	19.00nm	5.2mb			NB2	67.73 341 P	10 09.60	-0.2			eSS	14 54.00	
HFS	68.26 340 eP	59 59.50	-1.2				0.9s	9.20nm	4.9mb			i	22 02.00	
	0.4s	16.70nm	5.5mb			HFS	67.98 340 eP	10 10.60	-0.6	SNY	22.31 267 Pc	10 54.00	-2.2	
WB2	69.11 200 eP	00 04.90	-1.5				0.4s	7.10nm	5.1mb				5.3mb	
	0.7s	2.50nm	4.4mb			GEC2	78.05 334 P	11 10.70	0.1	Z	0.9s	110.00nm	5.5MsZ	
KIV	70.92 315 eP	00 16.50	-0.9				0.7s	1.44nm	4.1mb	N	14s	3.66um		
	1.6s	43.00nm	5.3mb							E	16s	9.40um		
GBA	71.01 270 P	00 22.00	3.8X								pP	11 04.00	37km	
ALO	71.12 59 eP	00 20.00	1.1			KBA	79.74 334 iPc	11 22.30	2.4		S	14 46.00		
GRS	72.34 309 eP	00 25.00	-1.1			WTTA	80.08 335 iPd	11 22.80	1.1	DL2	24.96 263 eP	11 22.00	0.0	
	1.5s	30.00nm	5.1mb				0.5s	4.90nm	4.8mb		1.0s	180.00nm	5.6mb	
ASPA	72.80 199 eP	00 28.60	0.0							Z	16s	2.06um	4.7MsZ	
	1.9s	7.30nm	4.4mb				S.D. = 1.0 on 13 of 14 obs.			N	13s	3.44um		
UZH	75.74 329 eP	00 45.00	-0.3							E	12s	2.35um		
KSP	75.78 334 iP	00 45.90	0.4				FEB 22, 1993 07h 06m 01.39±0.19s				S	15 40.00		
PPE	75.79 325 ePc	00 40.00	-5.7X				47.125 N ±4.3km 154.064 E ±2.7km			ILT	25.05 24 iPc	11 21.00	-1.5	
SPC	75.97 331 eP	00 47.40	0.5				DEPTH = 43.6km (28 depth phases)				1.2s	210.00nm	5.6mb	
CLL	76.31 336 iPd	00 48.70	0.2				5.7mb (124 obs.) 5.2MsZ (26 obs.)				i	11 32.00	42km	
	0.9s	41.00nm	5.4mb				KURIL ISLANDS	(221)			iS	15 44.00		
VR1	76.43 325 eP	00 49.50	0.2				Mw 5.6 (HRV).			BOD	26.16 309 iPc	11 31.50	-1.6	
VRAC	77.04 333 eP	00 53.10	0.6				CENTROID, MOMENT TENSOR (HRV)				1.3s	119.00nm	5.3mb	
	2.0s	242.40nm	5.9mb X				Data Used: GDSN			CIT	26.44 296 eP	11 34.50	-1.3	
MLR	77.05 325 eP	00 54.00	1.1				L.P.B.: 30S, 61C			Z	15s	13.96um	5.6MsZ	
PRU	77.06 334 eP	00 53.00	0.3				Centroid Location:			E	16s	17.96um		
MOX	77.29 337 eP	00 54.30	0.3				Origin Time	07:06: 4.2 0.4		TIK	27.28 343 eP	11 40.00	-3.2X	
MTUR	77.61 326 eP	00 45.50	-10.4X				Lot 47.24N 0.05 Lon 154.04E 0.05				1.6s	117.00nm	5.3mb	
KHC	78.11 335 eP	00 59.00	0.5				Dep 15.0 BDY Half-duration 1.6			Z	17s	2.70um	4.9MsZ	
	1.0s	7.00nm	4.6mb				Moment Tensor: Scale 10**17 Nm				i	11 46.00	21kmX	
		e	01 01.00				Mrr= 1.94 0.07 Mtt=-0.41 0.08				e	12 37.00		
GRF	78.27 336 iPc	01 00.00	0.6				Mff=-1.53 0.08 Mrt= 0.65 0.23				e	22 29.00		
	0.8s	16.00nm	5.1mb				Mrf= 2.26 0.27 Mtf=-1.14 0.08			BJI	28.13 269 eP	11 50.50	-0.6	
Z	19s	1.40um	5.3MsZ				Principal Axes:				1.5s	120.00nm	5.3mb	
GEC2	78.33 334 P	01 00.00	0.2				T Vol= 3.05 Plg=64 Azm=273			Z	16s	9.34um	5.5MsZ	
	0.6s	4.40nm	4.6mb				N 0.19 9 23			N	14s	3.68um		
KBA	80.02 334 iPd	01 10.10	1.0				P -3.25 24 117			TIA	29.41 262 Pc	12 02.40	-0.3	
	0.8s	17.90nm	5.1mb				Best Double Couple: Mo=3.2*10**17				1.7s	230.00nm	5.6mb	
		i	01 11.40				NP1: Strike=226 Dip=23 Slip= 115			N	14s	1.26um		
		i	01 24.60				NP2: 20 70 80			E	14s	1.96um		
		i	01 28.80								pP	12 11.00	30kmX	
WATA	80.31 335 iPc	01 11.20	0.6			SKR	3.79 20 ePn	06 56.90	-1.8		S	16 46.00		
WTTA	80.35 335 iPd	01 11.90	1.0				iS	07 39.80		SSE	29.84 249 Pc	12 06.50	-0.1	
	0.6s	13.30nm	5.1mb			KUR	4.70 249 iPnc	07 11.00	-0.6		1.5s	240.00nm	5.7mb	
		i	01 13.30			Z	14s	18.90um		Z	20s	1.80um	4.7MsZ	
CDF	80.48 338 eP	01 11.70	0.2			N	14s	60.80um		N	14s	1.80um		
SOTA	80.51 335 iPd	01 12.90	1.2			E	14s	39.20um		E	14s	1.10um		
		i	01 14.20			PET	6.59 25 ePn	07 34.00	-4.2X		S	17 04.00		
VBY	80.83 332 e(P)	01 08.80	-4.4X			Z	16s	14.00um			sS	17 18.00		
HAU	81.09 339 eP	01 14.80	0.2			YSS	7.75 273 iPnc+	07 55.20	0.8	NJ2	30.73 253 Pd	12 15.00	0.6	
	0.6s	2.70nm	4.4mb			Z	16s	37.60um			1.0s	33.00nm	5.0mb	
BSF	81.14 338 eP	01 16.00	1.0			N	16s	5.20um		Z	16s	2.63um	5.0MsZ	
	0.5s	3.00nm	4.6mb			E	16s	25.30um		HHC	30.92 274 Pc	12 15.00	-1.1	
GRR	82.33 343 eP	01 20.10	-0.9								1.2s	180.00nm	5.7mb	
LOR	82.38 340 eP	01 21.60	0.3			SAP	9.88 250 eP	08 20.00	-3.7X		Z	16s	6.64um	5.4MsZ
	0.7s	5.20nm	4.7mb			MGD	13.14 353 ePnd-	09 04.00	-3.5X	N	14s	2.35um		
LBF	82.62 340 eP	01 22.70	0.1			Z	15s	14.00um		E	13s	3.28um		
SMF	82.97 340 eP	01 24.50	0.1			N	15s	13.00um			S	17 17.00		
	0.7s	8.05nm	4.9mb			E	15s	3.00um		TTA	31.71 42 eP	12 23.00	0.2	
BGF	83.28 340 eP	01 25.80	-0.2				eS	11 36.00		SVW	31.75 45 eP	12 22.30	-0.8	

[illegible]

22d 07h

N 16s	7.50um					VRI	76.51	325	iPc	17	49.00	0.8	ZAG	80.40	332	iPd	18	10.70	1.3		
E 16s	7.00um					BRG	76.51	335	iP	17	48.20	0.1	WTTA	80.43	335	iPc	18	10.30	0.5		
SUE	69.35	345	eP	17	06.30	0.4	WIT	76.62	340	eP	17	51.00	2.3		1.0s	157.00nm			5.9mb		
MNK	69.60	329	iP	17	03.00	-4.5X	BRD	76.68	325	ePc	17	51.00	1.8				18	12.30	6kmX		
	1.0s	396.00nm				6.3mb	CVO	76.77	325	eP	17	50.00	0.3				20	07.80			
KONO	69.69	342	eP	17	07.80	-0.2	SVST	76.97	315	eP	17	52.50	1.5	MOTA	80.51	335	iPc	18	10.50	0.3	
DZM	69.77	168	iPd	17	10.50	1.5	KART	77.10	318	eP	17	53.40	1.5	WLS	80.53	338	P	18	10.28	0.1	
GRO	69.96	313	iPc	17	10.00	0.1	VRAC	77.12	333	iPc	17	51.80	0.3	CDF	80.55	338	P	18	10.20	-0.1	
	1.0s	160.00nm				6.0mb		1.7s	952.90nm			6.5mb	SQTA	80.59	335	iPc	18	11.00	0.4		
TUC	70.33	64	eP	17	11.70	-0.8	PRU	77.13	335	iPc	17	51.50	-0.1		1.2s	167.00nm			5.9mb		
	1.3s	23.94nm				5.0mb		1.6s	177.50nm			5.8mb					18	13.10	7kmX		
Z 18s	0.81um					5.0Msz	Z 17s	2.00um				5.5MszX					18	23.80			
	e					46km	N 17s	1.60um					RBL	80.60	334	P	18	10.30	-0.3		
PYA	70.76	315	iPd	17	15.00	0.1	E 14s	0.80um					FVI	80.70	334	P	18	09.20	-1.7		
	1.3s	150.00nm				5.8mb	KAS	77.19	318	iPc	17	53.30	1.1	LIBD	80.71	338	P	18	11.30	0.3	
	eS					27	ARMA	77.21	182	eP	17	55.00	2.8X	ECH	80.77	338	P	18	11.30	-0.1	
JAO	70.94	29	eP	17	15.00	-0.7	CTK	77.24	317	eP	17	53.80	1.3	SLE	80.84	337	ePc	18	11.70	0.0	
KIV	71.00	315	iPc	17	16.40	0.0	PSZ	77.26	330	iPc	17	52.60	0.2	FEL	80.86	338	P	18	11.98	0.0	
	1.5s	312.00nm				6.1mb	WTS	77.35	340	eP	17	52.50	-0.2	VBY	80.91	332	eP	18	12.00	-0.1	
Z 16s	4.20um					5.8MszX		0.8s	72.70nm			5.8mb	OGA	80.96	335	eP	18	13.30	0.6		
	e					39km	MOX	77.37	337	eP	17	53.10	0.2		1.0s	114.00nm			5.8mb		
	(S)					26		1.5s	198.00nm			5.9mb	VITF	81.06	339	P	18	13.09	0.2		
GBA	71.08	270	Pc	17	17.00	-0.1		Z 21s	1.60um			5.3Msz	MOF	81.11	338	P	18	13.17	-0.1		
ALO	71.09	59	eP	17	16.16	-1.1	FVM	77.56	47	eP	17	54.01	-0.2	ZLA	81.13	337	ePd	18	14.20	0.9	
	1.4s	23.89nm				5.0mb		1.7s	43.16nm			5.2mb	HAU	81.16	339	eP	18	13.40	-0.1		
	e					47km	Z 19s	1.43um				5.3Msz		1.1s	52.75nm			5.4mb			
MTA	71.61	312	iPc+	17	20.20	0.3		e				41km		Z 22s	1.73um			5.4Msz			
	0.8s	280.00nm				6.3mb	HOF	77.60	336	eP	17	54.20	0.0	TRI	81.20	333	ePc	18	14.60	1.0	
Z 16s	1.50um					5.4MszX		1.4s	234.00nm			6.0mb	BSF	81.21	338	P	18	13.42	-0.4		
N 16s	2.00um						TNR	77.63	327	eP	17	47.00	-7.5X	LMN	81.32	26	eP	18	17.50	3.2X	
E 16s	1.50um						CMP	77.67	326	iPd	17	56.00	1.3	BBS	81.37	338	P	18	14.96	0.4	
GRS	72.43	309	iPc	17	25.00	-0.1	SRO	77.88	331	eP	17	57.00	1.3	OSS	81.38	336	ePd	18	15.90	1.1	
	1.4s	160.00nm				5.8mb	ZST	77.94	332	eP	17	56.30	0.3	PLE	81.42	328	iPc	18	15.24	0.3	
Z 15s	0.86um					5.1MszX	VKA	78.12	333	eP	17	57.00	-0.1	CTI	81.53	335	P	18	15.10	-0.4	
N 14s	0.75um							2.8s	460.00nm			6.0mb	LLS	81.53	337	ePd	18	16.30	0.7		
E 14s	1.84um						KHC	78.18	335	iPc	17	57.70	0.3	IVA	81.64	328	iPc	18	16.05	0.0	
	eS					27		1.3s	108.50nm			5.7mb	LOMF	81.65	338	P	18	16.15	0.1		
COP	72.61	338	iPd	17	26.00	0.4	Z 16s	3.00um				5.7MszX	VDL	81.75	336	iPd	18	18.00	1.2		
	1.0s	212.00nm				6.1mb	N 16s	2.40um					SKO	81.84	326	iP	18	18.00	1.0		
Z 18s	1.03um					5.1Msz	E 16s	1.00um									18	31.00	44km		
MUD	72.69	340	iPd	17	26.50	0.4		e				18	13.50	56kmX	PVY	81.85	328	iPc	18	16.87	-0.4
	1.2s	183.00nm				5.9mb		e				18	58.00		FLN	81.97	343	eP	18	17.60	0.0
SOC	72.71	316	iPc+	17	26.50	0.1	BNS	78.22	339	iPc	17	57.70	0.2		1.5s	110.20nm			5.7mb		
	2.0s	300.00nm				5.9mb	GRF	78.34	336	iPc	17	58.90	0.6		Z 19s	1.45um			5.4Msz		
ASPA	72.77	199	eP	17	26.40	-0.6		1.3s	369.00nm			6.2mb	VAY	81.97	325	iP	18	18.40	0.7		
	1.2s	21.40nm				5.0mb	Z 19s	1.00um				5.2Msz		1.0s	118.00nm			5.9mb			
ANN	72.83	318	eP	17	26.00	-1.1		e				18	11.90	44km	NKY	82.01	328	iPc	18	17.69	-0.4
	1.4s	120.00nm				5.7mb	WET	78.37	335	iPc	17	59.00	0.5	LDF	82.06	343	eP	18	18.00	0.0	
ERE	72.88	311	iP+	17	28.60	1.0		1.7s	452.00nm			6.2mb	BRY	82.10	329	iPc	18	17.84	-0.7		
	1.1s	220.00nm				6.0mb	GEC2	78.40	335	P	17	58.40	-0.3	BHL	82.22	312	P	18	16.00	-3.3X	
ACO	73.97	53	iPd	17	45.50	11.6X		1.0s	28.20nm			5.2mb		S			28	00.00			
BRS	74.18	181	eP	17	34.00	-1.0	MIAR	78.58	51	eP	17	59.10	-0.7	TTG	82.25	328	iPc	18	18.62	-0.5	
LVV	74.21	329	iP	17	34.00	-1.0		1.2s	28.17nm			5.1mb	TMA	82.26	336	iPc	18	19.80	0.4		
	e					26kmX	Z 20s	0.99um				5.1Msz	MDI	82.33	336	P	18	19.40	-0.1		
BRNL	75.29	336	ePc	17	40.90	-0.3		e				18	12.04	44km	GRR	82.40	343	eP	18	20.20	0.4
OJC	75.30	332	eP	17	41.00	-0.3	TNS	78.58	338	ePd	18	00.50	0.8		1.2s	145.80nm			5.9mb		
	1.4s	265.00nm				6.0mb	ENN	78.70	340	eP	18	00.50	0.4	LOR	82.45	340	eP	18	20.30	0.1	
	i					2kmX		0.8s	56.50nm			5.6mb		1.1s	62.50nm			5.6mb			
	e					17	ELC	78.70	47	eP	18	00.22	-0.2	Z 21s	1.90um			5.4Msz			
	e					17		e				18	12.54	41km	VAI	82.51	336	Pd	18	20.80	0.4
	i					18	UZD	78.86	330	eP	18	02.00	0.9	HCY	82.51	328	iPc	18	19.82	-0.7	
BRN	75.34	336	eP	17	41.50	0.1	GAZ	78.86	313	iP	18	00.80	-0.5	CSS	82.52	315	eP	18	21.00	0.3	
WMOK	75.61	54	eP	17	42.76	-0.6	BBTK	78.87	318	eP	18	02.30	0.8	BDV	82.54	328	iPc	18	19.62	-1.0	
	1.2s	37.20nm				5.2mb	OLY	78.95	49	eP	18	01.24	-0.6	MMK	82.56	337	ePd	18	22.40	1.4	
Z 21s	0.95um					5.1Msz		e				18	13.73	42km	ULC	82.66	328	iPc	18	20.28	-1.1
	e					43km	KMR	78.98	334	iP+	18	02.10	0.3	NAV	82.67	41	(P)	18	21.34	-0.1	
MEO	75.69	54	iPc	17	43.40	-0.4	UCC	79.02	341	P	18	03.00	1.1	DIX	82.68	337	ePc	18	22.80	1.1	
EEO	75.69	35	eP	17	45.50	1.9	RSNY	79.18	33	P	18	10.00	7.1X	HRI	82.68	312	iPc	18	22.30	0.6	
PTT	75.76	326	eP	17	38.00	-6.0X		Z 20s	0.52um			4.9Msz	LBF	82.69	340	eP	18	21.50	0.1		
KER	75.79	305	ePc	17	44.80	0.3								1.4s	65.35nm			5.5mb			
UZH	75.82	329	iPc	17	43.30	-1.0	SNF	79.31	341	iPc	18	05.52	2.0	SSF	82.73	340	eP	18	12.19	-9.4X	
	1.4s	165.00nm				5.8mb	DMK	79.45	322	eP	18	04.70	0.3		1.0s	37.60nm			5.4mb		
	i					17	EYL	79.45	320	eP	18	03.00	-1.6	LPF	82.77	343	eP	18	22.20	0.4	
	i					17	DOU	79.63	341	P	18	06.30	1.1		1.2s	82.70nm			5.7mb		
KSP	75.85	334	iPc	17	43.80	-0.7	BHG	79.65	335	eP	18	06.00	0.6	EMS	82.81	338	ePc	18	23.00	0.7	
	1.2s	188.00nm				5.9mb	WLF	79.67	339	iPd	18	07.37	2.0	OHR	82.83	326	iP	18	20.20	-2.1	
PPE	75.88	325	eP	17	45.00	0.4	FUR	79.71	336	eP	18	06.20	0.4		1.0s	153.00nm			6.0mb		
SPC	76.05	331	iPc	17	46.80	1.0	HOFF	79.89	338	P	18	07.04	0.4	ORX	82.94	337	P	18	23.15	0.3	
SHI	76.08	299	eP	17	46.00	-0.3	LANF	79.89	338	P	18	06.88	0.2	ORO	82.95	337	P	18	23.20	0.3	
EKA	76.13	347	P	17	46.00	0.1	KBA	80.09	334	iPc	18	08.60	0.6								

10.313 N \pm 19.5km		61.543 W \pm 21.4km	
DEPTH = 33.0km (normol)			
TRINIDAD		(98)	
TPP	0.09 88 eP	11 46.14	0.0
	eS	11 52.86	
TRN	0.36 23 iP	11 48.91	0.0
	eS	11 56.60	
TCE	0.43 332 eP	11 49.99	0.0
	eS	11 58.12	
GRW	1.84 356 eP	12 10.37	0.1
S.D. = 0.1 on		4 of 4 obs.	
& FEB 22, 1993 08h 05m 19.55s			
37.650 N		118.900 W	
DEPTH = 7.0km			
CALIFORNIA-NEVADA BORDER REGION (40)			
<GM-P>. MD 2.9 (GM).			
MEMM	0.04 298 iPc	05 21.20	0.1
MRCM	0.31 86 ePc	05 25.93	-0.1
MTUM	0.40 138 iPd	05 27.35	-0.3
BONR	0.56 57 ePc	05 30.54	-0.4
CMB	1.24 289 eP	05 42.08	-0.8
	S	05 57.72	
TNP	1.40 72 ePc	05 46.01	0.3
KVN	1.53 24 eP	05 47.94	0.4
PKEM	1.86 212 (P)	05 52.91	0.8
ARN	2.12 263 eP	05 56.77	0.9
	S	06 25.43	
PHAM	2.17 214 eP	05 57.28	0.6
TPNV	2.23 108 ePn	05 57.71	0.1
COE	2.24 261 eP	05 58.08	0.4
BCH	2.64 202 ePn	06 01.05	-2.3
13 obs. associated			
? FEB 22, 1993 08h 25m 40.80 \pm 1.46s			
38.034 N \pm 16.2km		14.689 E \pm 10.0km	
DEPTH = 33.0km (normol)			
SICILY		(398)	
GIO	0.57 144 P	25 52.70	0.2
ATN	0.62 78 P	25 59.25	6.1x
	0.1s 8.50nm		
MCT	0.93 245 P	25 57.68	0.0
	2.8s 3491.90nm		
GMB	0.94 81 P	25 57.68	-0.1
	0.1s 56.50nm		
MEU	0.95 168 P	25 57.68	-0.2
	0.3s 8.50nm		
S.D. = 0.3 on 4 of 5 obs.			
& FEB 22, 1993 08h 39m 59.65s			
59.861 N		152.260 W	
DEPTH = 89.1km			
SOUTHERN ALASKA		(2)	
<AEIC>.			
ILIM	0.41 302 ePc	40 13.15	-0.8
	iS	40 23.81	
INE	0.45 297 ePc	40 13.41	-0.9
	eS	40 24.51	
INW	0.49 296 eP	40 13.89	-0.7
	eS	40 25.34	
XLV	0.49 146 eP	40 14.61	0.2
OPT	0.53 247 iPc	40 14.44	-0.4
	eS	40 25.79	
CNPM	0.62 122 iPd	40 14.72	-0.9
	eS	40 26.65	
RS1	0.65 338 ePd	40 15.39	-0.7
RSO	0.65 338 ePd	40 15.40	-0.7
	eS	40 28.25	
RS2	0.65 338 ePd	40 15.39	-0.7
	S	40 27.67	
RDW	0.68 336 ePd	40 15.57	-0.8
	S	40 28.06	
BRLK	0.70 97 eP	40 15.64	-0.7
	eS	40 27.71	
RDN	0.70 339 eP	40 15.78	-0.7
	S	40 28.18	
RDT	0.72 354 eP	40 15.86	-0.7
AUE	0.76 229 eP	40 16.43	-0.4
DFR	0.76 344 ePd	40 16.20	-0.9
	eS	40 29.07	
AUL	0.77 232 eP	40 16.85	-0.1
NCT	0.78 335 eP	40 16.32	-0.9
AUH	0.78 231 eP	40 16.85	-0.4

AUW	0.79	232	eP	40	16.79	-0.4
AUI	0.79	229	eP	40	16.89	-0.4
			eS	40	30.05	
PDB	0.98	267	iPc	40	18.32	-1.0
			iS	40	33.10	
CDD	1.17	218	iPd	40	20.69	-1.0
			eS	40	37.48	
SLKM	1.21	57	eP	40	20.42	-1.7
MCNL	1.26	238	ePd	40	21.40	-1.3
			eS	40	38.23	
SPU	1.33	4	iPd	40	22.83	-0.8
CKL	1.34	358	iPd	40	23.05	-0.8
CKT	1.34	1	iPd	40	22.97	-0.9
			eS	40	41.28	
CKN	1.37	2	ePd	40	23.51	-0.6
			S	40	42.61	
CPAM	1.40	2	iPd	40	23.92	-0.7
			S	40	42.84	
CP2	1.41	0	ePd	40	24.12	-0.7
			S	40	43.29	
BGL	1.41	357	iPd	40	23.95	-0.7
CRP	1.41	2	iPd	40	24.15	-0.6
			S	40	43.45	
SEW	1.43	79	eP	40	23.21	-1.7
MPA	1.58	65	ePc	40	25.49	-1.3
SUA	1.77	24	iPd	40	28.69	-0.8
			eS	40	50.84	
PTE	1.90	57	eP	40	29.75	-1.2
PMS	1.93	43	P	40	30.20	-1.2
SVW	2.08	308	P	40	32.00	-1.5
PWA	2.14	32	P	40	33.90	-0.4
SKT	2.16	9	iPd	40	33.23	-1.3
PLRM	2.32	40	eP	40	35.29	-1.4
GHO	2.52	39	eP	40	38.17	-1.3
SML	2.74	43	ePc	40	40.74	-1.7
HIN	2.93	77	ePc	40	42.66	-2.4
SCM	3.12	49	ePc	40	45.78	-2.0
HUR	3.37	21	eP	40	50.38	-0.8
KLU	3.52	60	ePc	40	50.78	-2.5
TRF	3.72	14	ePd	40	54.86	-1.3
RND	3.91	23	eP	40	57.06	-1.6
GLB	4.45	65	eP	41	03.80	-2.3
BALM	5.05	72	eP	41	12.57	-1.9
CCB	5.23	22	ePc	41	14.37	-2.5
52 obs. associated						

FEB 22, 1993	08h	49m	21.74±	0.31s		
47.366 N ± 6.5km		153.979 E ± 4.0km				
DEPTH = 37.0km	(17 depth phases)					
5.0mb (59 obs.)	4.4Msz (4 obs.)					
KURIL ISLANDS (221)						
SKR	3.59	22	ePn	50	17.10	0.8
Z	14s		5.10um			
N	14s		5.50um			
E	14s		8.70um			
			iS	50	57.60	
KUR	4.74	246	iPnd	50	31.50	-1.2
Z	14s		3.20um			
N	14s		10.20um			
E	14s		6.50um			
			eS	51	28.00	
PET	6.40	26	ePn	50	53.00	-3.0X
YSS	7.68	272	iPnc	51	17.10	3.1X
Z	16s		5.60um			
E	16s		3.50um			
KUSJ	7.81	240	eP	51	09.70	-6.0X
			eS	52	33.00	
ASAJ	8.57	252	eP	51	26.00	-0.2
HOQJ	9.08	241	eP	51	28.30	-4.9X
			eS	53	03.80	
MGD	12.89	353	ePn	52	25.00	0.0
Z	16s		2.40um			
N	16s		1.90um			
			eS	54	52.00	
MAT	15.92	233	(P)	53	00.00	-4.6X</

CN2	20.23	270	eS	57	43.00		KMI	45.94	260	eP	57	43.00	0.0	ZST	2.0s	62.00nm	5.3mb								
	1.0s	17.00nm		53	52.00	-4.3X		1.5s	50.00nm			5	2mb		77.70	332	eP	01	16.00	0.2					
	1.6s	1.77um				4.3mb			pP		57	49.00	20kmX			e		12	20.50						
N	16s	0.88um				4.5MsZ	YKA	50.08	37	eP	58	12.60	-1.9	KHC	77.94	335	Pc	01	18.10	0.9					
E	16s	1.34um						0.8s	2.40nm			4.3mb			1.0s	12.90nm			01	29.50	37km				
ILT	24.85	24	iPc	54	40.00	-1.7	LSA	50.83	273	iPc	58	22.20	1.0	GRF	78.10	336	ePc	01	19.00	0.9					
	1.0s	80.00nm				5.2mb		1.0s	32.00nm			5.3mb			1.0s	42.00nm				01	30.90	40km			
Z	16s	0.60um				4.2MsZ	CHTO	52.84	257	ePc	58	35.30	-0.6		Z	19s	0.20um				01	33.80			
N	14s	0.60um						1.1s	15.31nm			4.9mb				e(pP)					01	18.80	0.3		
E	16s	0.50um					SHL	52.98	269	iPc	58	36.50	-0.6	GEC2	78.16	334	Pd	01	18.80			01	30.30	4kmX	
BOD	25.97	309	eP	54	52.30	0.0	SVE	53.79	317	ePc	58	41.00	-1.4			0.9s	4.66nm					01	22.10	11kmX	
	1.4s	23.00nm				4.6mb	ARU	54.96	317	eP	58	50.00	-1.0				e						01	24.01	1.6
CIT	26.28	295	eP	54	55.00	-0.3		1.0s	80.00nm			5.7mb		OLY	78.84	49	(P)	01	28.90	1.0			01	30.30	
TIK	27.04	343	iPd	55	00.00	-1.9			e		59	11.00	84kmX	KBA	79.85	334	iPd	01	28.90				01	30.30	4kmX
	1.6s	31.00nm				4.7mb	GUN	55.54	275	P	58	55.60	-0.4		1.1s	44.90nm							01	38.80	
Z	15s	1.50um				4.7MsZ	DPW	55.97	54	eP	58	59.19	0.7				i						01	47.00	
							KKN	56.02	275	P	58	59.40	0.1				i						01	38.80	
BJI	28.08	269	eP	55	13.00	1.3	PKI	56.07	275	P	58	59.60	-0.2				i						01	47.00	
	2.0s	74.00nm				5.0mb	DMN	56.25	275	P	59	01.20	0.1	WATA	80.14	335	iPd	01	30.30	1.0			01	47.00	60kmX
Z	16s	1.58um				4.7MsZ	GKN	56.32	276	P	59	01.60	0.2				i						01	47.00	60kmX
E	14s	1.11um					SES	58.28	49	eP	59	14.00	-0.8	WTTA	80.18	335	iPc	01	30.30	0.6			01	41.10	35km
TIA	29.39	261	eP	55	23.40	-0.2			pP		59	24.00	33km		1.1s	43.60nm							01	41.10	35km
HHC	30.84	274	P	55	36.00	-0.5	FCC	60.42	34	eP	59	31.50	2.1				i						01	45.60	
	1.2s	36.00nm				5.0mb	BGMT	60.95	54	eP	59	33.20	-0.3				i						01	30.40	0.2
Z	15s	1.42um				4.7MsZ	KAF	63.13	335	iP	59	46.60	-0.9				i						01	45.60	
N	14s	0.40um						1.0s	23.10nm			5.3mb		CDF	80.31	338	eP	01	30.40	0.2			01	30.40	0.2
E	13s	0.86um					DUG	63.75	59	eP	59	52.93	0.8		1.1s	18.30nm							01	33.40	0.1
TTA	31.57	42	eP	55	40.78	-1.8	BW06	63.90	55	eP	59	52.33	-0.9	HAU	80.92	339	eP	01	33.40				01	33.40	0.1
	1.0s	12.65nm				4.7mb		1.0s	6.46nm			4.7mb			Z	22s	0.20um						01	33.50	-0.2
							NUR	64.90	335	eP	59	57.40	-1.7	BSF	80.97	338	eP	01	33.50	-0.2			01	33.50	-0.2
SVW	31.62	46	eP	55	44.25	1.2		0.9s	23.60nm			5.3mb			1.2s	17.55nm							01	38.10	1.1
	0.8s	13.13nm				4.8mb	ARUT	64.96	61	(P)	00	00.03	0.0	SKO	81.61	326	iP	01	38.10				01	38.10	1.1
TIY	31.76	268	eP	55	44.60	0.0	MSU	65.23	60	eP	00	01.82	0.0	FLN	81.72	343	eP	01	37.40	0.0			01	37.40	0.0
	Z	14s	0.48um			4.3MsZ	SRU	65.79	58	eP	00	03.24	-2.1		Z	18s	0.15um						01	38.30	0.7
E	16s	0.92um							e		00	15.64	42km	VAY	81.74	325	iP	01	38.30				01	38.30	0.7
BTO	32.00	274	eP	55	46.00	-0.7	RSSD	65.97	50	eP	00	04.99	-1.5	LOR	82.20	340	eP	01	40.20	0.2			01	40.20	0.2
	N	17s	1.03um						e		00	16.10	37km		1.2s	19.65nm							01	40.20	0.2
E	16s	0.53um					QUE	66.58	290	eP	00	05.30	-5.2X		Z	22s	0.20um						01	41.30	0.0
ZAK	32.96	294	eP	55	53.80	-0.9	MAIO	67.09	299	eP	00	09.00	-4.5X	LBF	82.44	340	eP	01	41.30	0.0			01	41.30	0.0
	1.6s	25.00nm				4.8mb	UPP	67.36	338	iP	00	14.40	-0.3	HRI	82.47	312	eP	01	42.30	0.5			01	42.30	0.5
							HYB	67.57	272	eP	00	16.00	-0.8	SSF	82.48	340	eP	01	41.80	0.4			01	41.80	0.4
IMA	32.96	36	eP	55	53.21	-1.6	NB2	67.83	341	P	00	17.40	-0.4		0.9s	9.50nm							01	41.80	0.4
	1.1s	9.43nm				4.6mb		0.9s	43.60nm			5.5mb		LPF	82.53	343	eP	01	42.20	0.6			01	42.20	0.6
RSO	33.02	47	(P)	55	55.49	0.1	HFS	68.08	340	eP	00	18.90	-0.4	OHR	82.59	326	eP	01	41.30	-0.9			01	41.30	-0.9
BRW	33.15	27	eP	55	55.35	-0.8		0.4s	6.00nm			5.0mb		AVF	82.77	340	eP	01	43.30	0.4			01	43.30	0.4
CP2	33.26	45	eP	55	58.79	1.3		Z	17s	275.00um		7.6MsZ			0.9s	13.60nm							01	43.50	0.4
							NAO	68.11	342	P	00	18.29	-1.2	SMF	82.79	340	eP	01	43.50				01	43.50	0.4
CRP	33.30	45	eP	55	58.49	0.7	WB2	69.29	200	eP	00	27.20	0.1		1.2s	41.95nm							01	43.50	0.4
								1.0s	4.80nm			4.5mb		LPL	83.13	337	eP	01	46.20	1.1			01	46.20	1.1
KDC	33.31	52	eP	55	56.58	-1.1	WRA	69.29	200	P	00	27.40	0.3		1.0s	19.40nm							01	46.40	1.1
	1.1s	17.90nm				4.9mb		0.4s	4.00nm			4.8mb		LPG	83.15	337	eP	01	46.40				01	46.40	1.1
MOY	34.04	297	eP	56	02.10	-2.0	KIV	70.79	315	ePc	00	36.20	-0.1		1.1s	23.70nm							01	47.40	0.7
SLKM	34.27	47	eP	56	05.91	-0.1		1.6s	67.00nm			5.4mb		MAF	83.49	340	eP	01	47.40				01	47.40	0.7
									e		00	49.40	46km		1.3s	41.90nm							01	47.30	0.5
FBA	35.31	39	eP	56	13.55	-1.3	GBA	71.02	270	P	00	37.00	-0.9	TCF	83.51	341	eP	01	47.30				01	47.30	0.5
	0.9s	25.35nm				5.1mb	GRS	72.23	309	i															

22d 09h

CVO 10.41 344 eP 56 23.00 7.1X
 GEC2 17.81 322 P 58 02.80 11.3X
 0.5s 0.63nm
 S.D. = 0.6 on 10 of 13 obs.

* FEB 22, 1993 10h 08m 22.72±1.39s
 9.404 N ±18.3km 94.105 E ±10.1km
 DEPTH = 33.0km (normol)
 NICOBAR ISLANDS, INDIA (704)

NNT 6.37 60 eP 09 54.00 -2.8
 SNG 6.81 108 eP 10 04.00 1.0
 KHT 6.92 39 eP 10 06.00 1.5
 GBA 16.86 286 P 12 17.00 -0.9
 PKI 19.85 337 P 12 54.20 -0.1
 GUN 19.97 338 P 12 56.00 0.4
 DMN 20.00 336 P 12 56.00 0.2
 KKN 20.09 337 P 12 56.80 0.1
 GKN 20.54 336 P 13 01.80 0.5
 S.D. = 1.4 on 9 of 9 obs.

FEB 22, 1993 10h 28m 06.97±0.62s
 40.485 N ± 6.0km 21.839 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.2 (THE).

FNA 0.46 310 ePg 28 15.83 -0.5
 LIT 0.63 127 ePg 28 18.05 -1.6
 GRG 0.64 42 ePg 28 19.46 -0.3
 THE 0.87 80 ePg 28 22.78 -0.9
 VAY 1.00 33 ePn 28 31.40 5.5X
 KNT 1.05 50 ePg 28 26.94 0.1
 SOH 1.20 73 ePbc 28 30.10 0.7
 SRS 1.47 64 ePb 28 34.14 0.6
 IGT 1.50 231 ePb 28 34.34 0.4
 AGG 1.51 165 ePb 28 34.54 0.5
 PAIG 1.52 111 ePb 28 34.14 0.0
 OUR 1.64 95 ePb 28 36.98 1.0
 S.D. = 0.9 on 11 of 12 obs.

FEB 22, 1993 11h 27m 11.77±0.66s
 47.067 N ±11.9km 153.983 E ± 9.1km
 DEPTH = 33.0km (normol)
 4.9mb (50 obs.) 4.5msz (5 obs.)
 KURIL ISLANDS (221)

SKR 3.86 20 ePn 28 10.00 -0.3
 Z 12s 3.10um
 N 12s 2.80um
 E 12s 3.10um
 KUR 4.63 249 iPnc 28 21.00 -0.1
 N 14s 6.80um
 E 14s 5.40um
 PET 6.67 25 ePn 28 46.00 -3.9
 Z 16s 2.00um
 KUSJ 7.67 242 eP 28 59.50 -4.4X
 E 16s 3.00um
 YSS 7.70 274 ePhd 29 06.10 1.8
 Z 16s 5.00um
 E 16s 3.00um
 ASAJ 8.48 254 eP 29 16.20 1.0X
 HOOJ 8.94 242 eP 29 19.60 -1.9
 E 16s 3.00um
 MRRJ 10.29 248 eP 29 37.20 -2.9
 OFUJ 12.02 233 eP 29 56.80 -6.8X
 E 16s 3.00um
 MGD 13.19 353 ePn 30 16.00 -3.1X
 Z 14s 1.40um
 N 16s 1.00um
 MAT 15.75 234 (P) 30 49.00 -3.6X
 Z 20s 0.71um
 E 16s 3.00um
 CN2 20.24 271 eP 31 42.00 -4.7X
 Z 16s 1.18um 4.3mszX
 YAK 20.36 326 eP 31 45.80 -2.0X
 1.8s 70.00nm 4.7mb

Z 14s 0.60um 4.1mszX
 N 16s 0.40um
 E 14s 0.80um
 SNY 22.25 268 Pc 32 07.20 0.2
 Z 17s 1.77um 4.6mszX
 25.12 24 iPd 32 33.60 -1.1
 1.7s 31.00nm 4.6mb
 BOD 26.16 309 eP 32 42.80 -1.6
 0.7s 13.00nm 4.6mb
 TIK 27.32 343 eP 32 52.00 -3.0
 1.4s 15.00nm 4.5mb
 BJI 28.08 269 eP 33 15.00 12.9X
 Z 16s 1.46um 4.7mszX
 N 13s 0.84um
 E 15s 0.67um
 HHC 30.87 274 P 33 27.00 -0.1
 1.4s 37.00nm 5.0mb
 Z 19s 0.86um 4.4msz
 E 15s 0.67um
 ZAK 33.08 295 eP 33 44.50 -1.7
 1.7s 12.00nm 4.5mb
 Z 15s 1.67um 4.9mszX
 E 15s 2.12um
 IMA 33.20 36 eP 33 47.00 -0.3
 FBA 35.54 39 eP 34 06.12 -1.1
 0.7s 7.77nm 4.7mb
 XAN 36.14 265 Pc 34 12.00 -0.7
 1.2s 21.00nm 4.9mb
 KLU 36.50 44 (P) 34 17.70 19kmX
 LZH 38.47 272 eP 34 33.00 0.6
 1.5s 40.00nm 5.0mb
 Z 15s 1.16um 4.8mszX
 E 15s 0.60um
 pP 34 45.00 44kmX
 GTA 39.51 279 eP 34 41.00 0.0
 1.0s 7.00nm 4.4mb
 Z 14s 0.93um 4.8mszX
 N 12s 0.31um
 CD2 41.50 266 iPc 34 57.60 0.3
 1.2s 65.00nm 5.2mb
 ELT 42.34 304 eP 35 02.30 -1.5
 1.2s 17.00nm 4.7mb
 Z 15s 2.20um 5.2mszX
 N 15s 0.80um
 E 15s 1.50um
 GYA 42.37 258 P 35 04.60 0.1
 0.8s 11.00nm 4.6mb
 WMO 45.37 291 eP 35 28.00 -0.6
 Z 16s 1.04um 4.9mszX
 YKA 50.31 37 eP 36 05.40 -1.3
 1.1s 1.80nm 4.0mb
 RES 50.35 19 eP 36 08.00 1.2
 LSA 50.85 273 iPc 36 12.60 0.8
 1.0s 16.00nm 4.9mb
 CHTO 52.77 257 eP 36 26.00 0.1
 SHL 52.97 269 iPc 36 27.50 -0.1
 KSH 55.11 293 eP 36 42.00 -1.0
 Z 18s 1.20um 5.0msz
 E 14s 1.00um
 GUN 55.57 275 P 36 45.50 -1.2
 KKN 56.05 276 P 36 49.80 -0.2
 PKI 56.10 275 P 36 50.20 -0.3
 DMN 56.29 276 P 36 51.80 0.0
 GKN 56.35 276 P 36 52.00 -0.1
 BGMT 61.12 54 eP 37 24.40 -0.8
 TNP 62.64 63 (P) 37 33.84 -1.5
 1.4s 9.74nm 4.7mb
 KAF 63.41 335 iP 37 37.90 -1.9
 0.4s 7.80nm 5.2mb
 NUR 65.17 335 iP 37 49.60 -1.7
 0.4s 7.60nm 5.1mb
 RSSD 66.16 50 eP 37 56.42 -1.8
 0.9s 4.01nm 4.5mb
 UPP 67.64 338 iP 38 05.60 -1.4
 NB2 68.12 341 P 38 09.00 -1.1
 0.6s 15.00nm 5.3mb
 HFS 68.37 340 eP 38 10.30 -1.2
 0.4s 39.60nm 5.9mb
 Z 16s 179.00um 7.4mszX
 LR 05 48.00
 NAO 68.40 342 P 38 09.80 -1.9
 KIV 71.00 315 eP 38 28.30 0.2
 1.1s 18.00nm 5.0mb
 Z 16s 0.40um 4.8mszX
 GBA 71.02 270 P 38 28.00 -0.4

GRS 72.42 309 eP 38 35.00 -1.7
 1.8s 40.00nm 5.1mb
 ASPA 72.70 199 eP 38 37.70 -0.5
 0.6s 4.40nm 4.6mb
 OJC 75.33 332 eP 38 52.80 -0.3
 KSP 75.88 334 iPd 38 56.30 0.0
 SPC 76.07 331 iP 38 57.90 0.3
 CLL 76.42 336 iP 38 58.60 -0.6
 0.8s 50.00nm 5.6mb
 VRI 76.53 325 eP 39 01.00 1.0
 MLR 77.15 325 iPc 39 04.00 0.4
 PRU 77.16 335 P 39 04.00 0.6
 MOX 77.40 337 eP 39 05.50 0.8
 ZST 77.96 332 eP 39 08.40 0.6
 e 09 16.90
 KHC 78.21 335 eP 39 09.00 -0.2
 GRF 78.37 336 ePc 39 10.50 0.4
 0.6s 28.00nm 5.5mb
 Z 19s 0.20um 4.5msz
 GEC2 78.43 334 P 39 09.80 -0.7
 0.5s 3.62nm 4.6mb
 KBA 80.12 334 iPd 39 20.20 0.4
 0.5s 9.80nm 5.1mb
 i 39 21.40
 WATA 80.41 335 iPd 39 40.40
 i 39 21.60 0.3
 WTTA 80.46 335 iPc 39 27.60
 0.5s 11.50nm 39 21.60 0.0
 i 39 22.90
 i 39 32.00
 CDF 80.59 338 eP 39 23.00 0.8
 0.6s 8.05nm 4.9mb
 FEL 80.89 338 eP 39 22.70 -1.1
 BSF 81.25 338 eP 39 27.00 1.3
 0.5s 2.40nm 4.5mb
 FLN 82.01 343 eP 39 31.10 1.7
 0.5s 4.00nm 4.7mb
 Z 18s 0.13um 4.3msz
 LDF 82.10 343 eP 39 31.40 1.5
 GRR 82.44 343 eP 39 33.70 2.0
 0.4s 3.05nm 4.7mb
 LOR 82.49 340 eP 39 33.20 1.2
 0.4s 6.55nm 5.0mb
 Z 21s 0.20um 4.5msz
 LBF 82.73 340 eP 39 34.40 1.1
 0.5s 4.30nm 4.8mb
 SSF 82.76 340 eP 39 34.70 1.3
 0.6s 5.60nm 4.8mb
 LPF 82.81 343 eP 39 35.70 2.1
 0.4s 2.40nm 4.6mb
 AVF 83.05 340 eP 39 36.50 1.6
 0.5s 9.75nm 5.2mb
 SMF 83.08 340 eP 39 36.50 1.4
 0.5s 7.75nm 5.1mb
 BGF 83.39 340 eP 39 38.70 2.0
 0.5s 11.60nm 5.3mb
 LPL 83.41 337 eP 39 39.10 2.0
 0.5s 7.30nm 5.1mb
 LPG 83.42 337 eP 39 39.20 2.0
 0.6s 9.20nm 5.1mb
 MAF 83.77 340 eP 39 40.80 2.2
 0.4s 14.40nm 5.5mb
 TCF 83.79 341 eP 39 40.50 1.8
 0.6s 5.05nm 4.8mb
 LSF 83.98 341 eP 39 41.40 1.7
 0.4s 3.80nm 4.9mb
 MFF 84.00 342 eP 39 41.80 2.1
 0.5s 5.85nm 5.0mb
 DSI 84.21 311 eP 39 41.70 0.7
 CAF 85.11 340 eP 39 47.90 2.5
 0.5s 4.10nm 4.9mb
 PRNI 85.38 311 eP 39 47.60 0.6
 LFF 85.40 341 eP 39 49.60 2.8X
 0.5s 6.85nm 5.1mb
 LPO 85.54 341 eP 39 50.40 2.9X
 0.5s 4.90nm 5.0mb
 MBH 85.90 310 eP 39 50.00 0.4
 EPF 87.30 341 eP 39 59.70 3.5X
 0.4s 2.75nm 4.9mb
 S.D. = 1.3 on 84 of 95 obs.

& FEB 22, 1993 11h 33m 48.70s
 61.508 N 149.863 W
 DEPTH = 35.2km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.5 (AEIC).

PWA	0.14	357	iPd	33	55.07	0.1
PMS	0.30	151	iPc	33	56.60	-0.1
PLRM	0.36	76	ePd	33	56.76	-0.6
			eS	34	03.79	
SUA	0.42	264	iPc	33	57.99	-0.4
			eS	34	06.07	
GHO	0.52	59	ePd	33	58.96	-0.7
			eS	34	07.53	
PTE	0.76	147	ePc	34	01.96	-1.0
SML	0.79	67	iPc	34	02.43	-1.0
SKT	0.92	302	iPd	34	04.41	-0.9
			iS	34	17.16	
SLKM	1.02	190	ePc	34	05.40	-1.3
MPA	1.05	166	eP	34	06.21	-0.9
SPU	1.11	254	iPc	34	07.20	-0.8
			iS	34	22.05	
CPAM	1.13	258	ePc	34	07.88	-0.4
			S	34	23.39	
CRP	1.13	259	eP	34	08.26	-0.2
			S	34	23.30	
CKN	1.15	257	eP	34	08.29	-0.3
			S	34	23.64	
CKT	1.17	256	ePc	34	08.28	-0.7
			S	34	23.33	
CP2	1.17	259	eP	34	08.76	-0.3
			S	34	24.46	
CKL	1.23	256	ePc	34	09.13	-0.8
			S	34	25.35	
BGL	1.24	260	ePc	34	09.40	-0.6
SCM	1.25	74	iPc	34	09.58	-0.6
			S	34	26.10	
SEW	1.42	172	eP	34	11.00	-1.6
HUR	1.48	4	eP	34	13.20	-0.2
			S	34	32.15	
RDT	1.55	234	eP	34	13.45	-1.0
DFR	1.65	237	ePc	34	14.91	-1.0
REF	1.72	235	eP	34	16.26	-0.7
			S	34	38.00	
VLZ	1.74	101	eP	34	16.25	-0.8
			S	34	38.06	
RSO	1.76	235	eP	34	16.78	-0.7
RS2	1.76	235	eP	34	16.68	-0.8
RS1	1.76	235	ePc	34	16.69	-0.8
			S	34	38.66	
RDW	1.77	236	eP	34	16.86	-0.8
			S	34	39.69	
NCT	1.77	239	ePc	34	16.81	-0.8
			S	34	39.12	
BRLK	1.82	197	eP	34	18.73	0.5
			S	34	41.93	
TRF	1.96	354	eP	34	19.82	-0.6
RND	1.96	13	eP	34	19.90	-0.4
HIN	1.98	123	iPc	34	18.95	-1.6
			eS	34	44.18	
ILIM	2.09	228	eP	34	22.39	0.3
CNPM	2.10	199	eP	34	22.43	0.2
TZL	2.18	74	eP	34	22.92	-0.4
CVA	2.22	114	eP	34	21.69	-2.2
SDG	2.28	61	eP	34	24.66	-0.1
PAX	2.53	53	eP	34	28.26	-0.1
PDB	2.74	233	eP	34	29.66	-1.7
RAGM	2.77	112	eP	34	32.39	0.6
GLB	2.91	89	eP	34	33.50	-0.2
GLM	3.67	17	eP	34	43.45	-1.0

44 obs. associated

? FEB 22, 1993 11h 46m 30.22±2.74s
6.657 N ±23.3km 73.460 W ±40.7km
DEPTH = 191.7 ±25.2 km
4.2mb (1 obs.)

NORTHERN COLOMBIA (99)

BOG	2.11	197	iPd	47	10.00	0.0
			eS	47	40.50	
UPA	6.45	291	eP	48	04.08	0.1
			eS	49	16.49	
ECO	6.73	294	ePd	48	07.51	-0.3
			eS	49	22.82	
ZOBO	23.40	167	P	51	23.70	-0.2
LPB	23.64	167	P	51	27.00	1.0
CNCB	23.94	167	P	51	28.20	-0.7
ULM	47.33	341	eP	54	47.50	1.2
BGMT	50.94	325	eP	55	14.90	0.6
YKA	63.30	340	eP	56	38.70	-1.8
			0.7s	2.70nm	4.2mb	
WB2	149.95	241	ePKP	05	59.70	4.8X
			0.3s	4.10nm		

S.D. = 1.1 on 9 of 10 obs.

* FEB 22, 1993 12h 05m 01.52±0.60s
53.001 S ±11.2km 22.324 E ±24.2km
DEPTH = 10.0km (geophysicist)
4.8mb (5 obs.)

SOUTH OF AFRICA (430)

NVL	18.45	191	eP	09	16.00	-2.5
			1.8s	99.00nm	4.7mb	
CER	19.75	352	iPc	09	23.00	
			1.2s	80.00nm	4.9mb	
FRS	23.34	7	eP	10	11.00	0.5
BLF	24.04	8	eP	10	16.00	-1.5
SEK	24.96	11	eP	10	29.50	3.0X
PRY	26.33	10	e(P)	10	37.50	-1.7
SPA	37.19	180	iPc	12	13.60	-0.6
			1.2s	77.46nm	5.3mb	
BCAO	57.31	356	iPc	14	51.00	-0.8
			0.7s	9.00nm	4.9mb	
					15 28.70	
SIV	73.44	265	(P)	16	31.00	-4.9X
CNCB	76.94	259	eP	16	57.00	0.5
LPB	77.23	260	(P)	16	58.00	0.1
ZOBO	77.44	260	eP	17	02.00	2.7X
			LR	31	30.00	
GBA	81.38	54	P	17	20.00	0.4
ASPA	83.44	121	P	17	32.00	1.5
WRA	86.73	119	P	17	50.50	3.6X
			0.6s	2.80nm	4.7mb	
RSSD	144.17	278	ePKP	24	37.76	-0.9
FCC	145.09	305	ePKP	24	42.50	3.1X
SRU	145.11	266	PKP	24	40.44	0.1
PEC	145.53	253	PKP	24	41.90	0.9
MSU	145.73	264	PKP	24	43.60	2.1
ARUT	146.02	261	PKP	24	45.23	3.3X
DAU	146.37	267	ePKP	24	46.95	4.4X
8W06	146.74	272	PKP	24	44.84	1.8
TPNV	147.13	258	ePKP	24	48.40	4.7X
BONR	149.01	257	ePKP	24	53.15	6.3X
BGMT	149.58	274	ePKP	24	53.60	6.2X
SES	151.37	284	ePKP	24	52.00	2.3X
YKA	155.59	310	ePKP	24	50.70	-4.4X
			1.0s	0.80nm		

S.D. = 1.4 on 15 of 28 obs.

? FEB 22, 1993 12h 38m 02.23±0.88s
47.271 N ±10.7km 11.269 E ±6.0km
DEPTH = 5.0km (geophysicist)

AUSTRIA (546)

ML 1.1 (VIE).

SOTA	0.07	219	iPgc	38	04.00	0.0
			iSg	38	05.60	
MOTA	0.13	303	iPgc	38	05.10	0.0
			i	38	07.90	
WATA	0.22	73	iPgc	38	06.80	0.1
			iSg	38	10.90	
WTTA	0.25	92	iPgc	38	07.30	-0.1
			iSg	38	11.80	

S.D. = 0.1 on 4 of 4 obs.

* FEB 22, 1993 13h 38m 46.64±0.93s
45.467 N ±9.2km 7.814 E ±10.2km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.4 (GEN).

ORX	0.20	35	P	38	51.25	0.1
			S	38	53.72	
LSD	0.46	269	P	38	55.74	-0.4
			S	39	01.23	
RSP	0.50	231	P	38	57.52	0.6
			S	39	04.62	
BHB	0.74	212	P	39	01.32	0.2
			S	39	12.03	
RRL	0.91	233	P	39	04.48	0.2
			S	39	17.11	
PZZ	1.09	208	P	39	06.40	-0.8
			S	39	20.68	

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

? FEB 22, 1993 14h 40m 16.45±2.46s
47.334 N ±52.5km 154.040 E ±31.6km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)

KURIL ISLANDS (221)

LZH	38.50	272	eP	47	37.50	0.1
			1.0s	22.00nm	4.9mb	
YKA	50.08	37	eP	49	09.60	0.0
			0.7s	0.40nm	3.6mb	
GUN	55.58	275	P	49	51.00	-0.5
KKN	56.06	276	P	49	54.80	0.0
PKI	56.12	275	P	49	55.20	-0.1
DMN	56.30	276	P	49	56.80	0.3
GKN	56.36	276	P	49	57.00	0.1
NB2	67.88	341	P	51	13.00	-0.2
			0.7s	3.30nm	4.5mb	
GEC2	78.21	334	P	52	14.30	0.3
			0.9s	1.17nm	3.9mb	

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

FEB 22, 1993 15h 23m 00.81±3.08s
33.483 S ±8.2km 71.000 W ±8.6km
DEPTH = 69.3 ±33.2 km

NEAR COAST OF CENTRAL CHILE (135)

TACH	0.18	163	eP	23	11.31	-0.2
			iS	23	18.90	
PCH	0.43	109	iP	23	13.25	0.1
			iS	23	22.50	
PEL	0.43	38	iP	23	13.20	0.1
			iS	23	22.25	
LCCH	0.48	271	iP	23	13.80	0.3
			iS	23	23.07	
ROCH	0.51	359	iPd	23	14.05	-0.1
			iS	23	23.63	
CHCH	0.53	147	eP	23	14.28	0.1
			iS	23	24.62	
LNv	0.58	216	iPd	23	14.30	-0.2
FCH	0.61	76	eP	23	15.36	0.1
			iS	23	26.21	
JACH	0.87	23	iP	23	17.86	-0.1
			iS	23	30.85	

S.D. = 0.2 on 9 of 9 obs.

* FEB 22, 1993 16h 04m 32.60±0.84s
53.664 N ±12.1km 167.092 W ±10.7km
DEPTH = 33.0km (normal)
3.8mb (3 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)
Felt (IV) at Akutan and (III) at Dutch Harbor.

SDN	4.20	64	eP	05	36.00	0.2
ADK	6.09	257	eP	06	02.27	-0.3
			(Lg)	07	30.60	
SVW	9.68	35	eP	06	53.80	1.1
TTA	10.95	28	eP	07	09.70	-0.3
CP2	11.02	40	eP	07	08.69	-2.4X
CRP	11.05	41	eP	07	10.62	-0.9
SLKM	11.43	46	eP	07	14.84	-1.7
PMS	12.08	44	eP	07	24.70	-0.6
KLU	13.75	47	eP	07	43.64	-3.7X
IMA	14.10	23	eP	07	53.10	1.2
FBA	14.88	33	eP	08	01.54	-0.5
			0.8s	3.07nm	3.7mb	
BALM	15.18	51	eP	08	02.83	-3.3X
YKA	28.35	51	eP	10	26.70	1.6
			0.5s	0.90nm	3.7mb	
SES	33.88	72	ePc	11	13.40	-0.6
BGMT	35.95	81	eP	11	31.10	-0.9
BONR	36.67	95	(P)	11	38.57	0.4
FCC	39.06	52	eP	12	00.50	3.0X
RSSD	41.26	77	eP	12	15.83	-0.3
			1.4s	14.11nm	4.5mb	
PV10	41.90	87	eP	12	21.33	-0.2
ULM	42.34	64	eP	12	27.50	2.9
JAO	50.32	50	eP	13	26.50	-1.1

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22d 16h

KKN 35.81 285 P 20 17.20 -0.4
 GKN 36.37 285 P 20 21.80 -0.4
 WRA 44.52 167 P 21 30.40 1.1
 0.8s 4.00nm 4.3mb
 WB2 44.53 167 eP 21 27.80 -1.5
 0.5s 2.40nm 4.3mb
 ASPA 48.07 169 eP 21 57.20 -0.1
 1.3s 4.60nm 4.3mb
 HFS 79.48 332 eP 25 19.70 -3.7X
 0.4s 0.60nm 3.9mb
 NB2 80.07 333 P 25 30.40 3.8X
 0.9s 1.50nm 4.0mb
 YKA 81.87 24 eP 25 38.00 2.1
 0.7s 0.70nm 3.8mb
 S.D. = 1.3 on 10 of 12 obs.

FEB 22, 1993 16h 58m 09.04±0.48s
 49.197 N ± 3.5km 6.965 E ± 6.5km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)
 ML 2.5 (STR).

RUP 0.51 7 ePg 58 19.73 0.4
 WLF 0.71 312 iPc 58 22.98 0.0
 1S 58 32.43
 ABH 0.78 29 ePg 58 24.22 -0.1
 CDF 0.81 165 Pg 58 24.24 -0.6
 1S 58 35.72
 WLS 0.83 162 Pg 58 24.84 -0.2
 1S 58 37.12
 ECH 0.99 172 Pg 58 28.24 0.4
 1S 58 41.93
 LIBD 1.13 158 Pg 58 31.45 1.3
 VITF 1.18 214 Pg 58 30.37 -0.6
 1S 58 46.15
 MOF 1.35 175 Pg 58 33.73 -0.2
 1S 58 53.17
 BSF 1.37 185 Pg 58 34.98 0.7
 1S 58 53.25
 TNS 1.41 43 ePnc 58 42.80 8.0X
 eSn 58 55.10
 FEL 1.49 152 Pn 58 35.66 -0.4
 Pg 58 37.41
 1S 58 57.68
 GEC2 4.45 92 Pn 59 17.60 -0.5
 Pg 59 33.90
 1S 00 34.20
 S.D. = 0.6 on 12 of 13 obs.

* FEB 22, 1993 17h 58m 45.04±3.55s
 41.541 N ± 27.0km 23.158 E ± 7.9km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 ML 2.6 (THE).

KNT 0.43 207 ePg 58 53.62 -0.1
 eSg 59 03.42
 VAY 0.49 244 iPg 58 54.20 -0.9
 iSg 59 03.70
 SRS 0.53 142 ePg 58 54.57 -1.3
 eSg 59 05.70
 SOH 0.73 168 ePg 58 59.37 -0.1
 eSg 59 13.78
 GRG 0.82 225 ePg 59 01.56 0.6
 eSg 59 15.34
 THE 0.92 189 ePg 59 02.58 0.0
 eSg 59 19.38
 OUR 1.36 152 ePb 59 10.34 0.4
 eSb 59 28.74
 LIT 1.53 200 ePb 59 12.46 0.1
 PAIG 1.66 166 ePb 59 15.62 1.3
 S.D. = 0.9 on 9 of 9 obs.

% FEB 22, 1993 18h 02m 58.72±2.01s
 39.349 N ± 14.2km 23.551 E ± 13.7km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
 ML 2.4 (THE).

PAIG 0.59 10 ePg 03 11.10 0.5
 eSg 03 20.18
 AGG 1.00 251 ePg 03 17.82 0.1
 eSg 03 33.14
 OUR 1.04 18 ePg 03 18.38 0.1
 eSg 03 32.90
 LIT 1.11 313 ePb 03 20.18 0.6
 eSb 03 36.86

THE 1.36 341 ePb 03 22.90 -0.7
 eSb 03 41.22
 SOH 1.48 354 ePb 03 25.26 -0.1
 eSb 03 45.26
 SRS 1.77 1 ePb 03 29.58 0.0
 eSb 03 49.70
 GRG 1.83 332 ePb 03 30.06 -0.4
 eSb 03 52.18
 KNT 1.88 345 ePb 03 31.14 0.0
 S.D. = 0.5 on 9 of 9 obs.

FEB 22, 1993 18h 08m 25.62±0.69s
 40.225 N ± 5.7km 21.215 E ± 6.2km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 2.8 (THE).

FNA 0.57 12 ePg 08 35.78 -1.5
 eSg 08 45.28
 OHR 0.94 340 iPg 08 43.40 -0.2
 0.8s 218.00nm
 iSg 08 57.90
 Lg 09 04.70
 IGT 0.97 225 ePg 08 43.76 -0.3
 eSg 08 56.30
 LIT 0.99 97 ePg 08 42.66 -1.7
 eSg 08 59.40
 GRG 1.16 51 ePb 08 46.98 -0.4
 eSb 09 05.88
 THE 1.40 72 ePb 08 50.64 -0.5
 eSb 09 11.48
 AGG 1.48 144 ePb 08 52.36 0.1
 eSb 09 10.76
 VAY 1.50 43 iPn 08 52.60 0.0
 KNT 1.59 53 ePb 08 53.96 0.1
 eSb 09 15.80
 SOH 1.74 69 ePb 08 56.28 0.2
 eSb 09 22.24
 SKO 1.75 5 iPn 08 57.90 1.7
 1.0s 90.00nm
 iSg 09 25.00
 Lg 09 32.00
 PAIG 1.91 98 ePb 08 59.60 1.0
 eSb 09 24.68
 SRS 2.02 63 ePn 09 00.56 0.5
 OUR 2.12 86 ePn 09 02.44 0.9
 S.D. = 1.0 on 14 of 14 obs.

? FEB 22, 1993 18h 36m 54.75±1.36s
 39.296 N ± 16.1km 1.202 W ± 15.7km
 DEPTH = 33.0km (normal)

SPAIN (377)

ECHE 0.35 32 eP 37 03.00 -0.2
 eS 37 09.20
 EVIA 1.21 237 eP 37 15.50 0.0
 eS 37 30.00
 ETOR 1.66 337 eP 37 22.00 0.0
 eS 37 41.80
 EROO 1.96 39 eP 37 26.50 0.1
 eS 37 50.60
 S.D. = 0.2 on 4 of 4 obs.

? FEB 22, 1993 18h 40m 22.73±7.29s
 34.244 S ± 54.4km 71.194 W ± 15.2km
 DEPTH = 59.0 ± 41.1 km

NEAR COAST OF CENTRAL CHILE (135)

LNV 0.34 328 iP+ 40 33.12 0.0
 iS 40 41.80
 CHCH 0.55 56 iP 40 35.33 0.1
 iS 40 46.01
 TACH 0.63 20 iP 40 36.09 -0.1
 iS 40 47.23
 LCCH 0.83 338 iP 40 38.55 -0.1
 iS 40 51.26
 PCH 0.84 42 iP 40 38.81 -0.1
 iS 40 52.48
 PEL 1.18 21 iP 40 43.45 0.1
 iS 41 00.44
 FCH 1.18 40 iP+ 40 43.62 -0.1
 iS 41 01.16
 ROCH 1.28 7 iP 40 44.97 0.1
 iS 41 02.75
 JACH 1.64 18 iP 40 49.69 0.0
 iS 41 11.23
 S.D. = 0.1 on 9 of 9 obs.

* FEB 22, 1993 19h 05m 22.03±1.48s
 51.295 N ± 14.4km 15.884 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.7 (VIE), 3.3 (GRF).

KSP 0.52 150 iPc 05 31.50 -1.1
 0.3s 87.00nm
 iS 05 41.40
 BRG 1.29 252 iPg 05 46.60 0.6
 iSg 06 06.10
 PRU 1.56 214 Pnd 05 50.70 0.8
 1.0s 97.60nm
 Pg 05 53.20
 e 05 56.00
 eSn 06 09.20
 Sg 06 15.50
 e 06 22.50
 VRAC 2.04 167 ePn 05 56.60 -0.2
 eSg 06 29.90
 KHC 2.62 215 ePn 06 05.00 -0.2
 Pg 06 14.00
 e 06 28.50
 Sn 06 39.50
 eSg 06 48.50
 e 06 53.70
 OJC 2.71 112 eP 06 07.10 0.7
 iS 06 44.20
 HOF 2.72 250 eP 06 05.50 -1.1
 MOX 2.77 258 ePn 06 07.00 -0.3
 ePg 06 14.80
 iSg 06 53.40
 GEC2 2.83 211 Pn 06 09.10 0.9
 Pg 06 14.70
 Sn 06 57.70
 Sg 07 01.10
 WET 2.89 223 ePn 06 09.50 0.5
 VKA 3.05 175 iPg 06 19.90 8.8X
 iSg 07 05.50
 ZST 3.20 165 e(P) 07 03.00 49.7X
 GRF 3.38 243 ePn 06 15.20 -0.7
 ePg 06 27.80
 eSg 07 13.10
 S.D. = 0.9 on 11 of 13 obs.

FEB 22, 1993 19h 13m 48.56±0.81s
 38.058 N ± 6.9km 22.178 E ± 7.7km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 2.9 (ATH), 2.8 (THE).

AGG 0.97 7 ePg 14 07.04 0.0
 eSg 14 21.60
 ATH 1.22 94 ePb 14 09.80 -1.4
 VLS 1.26 276 ePb 14 10.50 -1.5
 VLI 1.47 155 ePn 14 16.50 1.4
 LIT 2.05 7 ePn 14 23.40 -0.2
 eSn 14 53.96
 KZN 2.27 352 ePb 14 28.00 1.3
 THE 2.64 13 ePn 14 31.80 -0.1
 eSn 15 07.56
 OUR 2.67 31 ePn 14 32.29 -0.1
 FNA 2.79 347 ePn 14 35.16 1.0
 GRG 2.90 3 ePn 14 35.44 -0.2
 SOH 2.91 18 ePn 14 36.32 0.6
 eSn 15 11.32
 SRS 3.24 19 ePn 14 39.48 -1.0
 eSn 15 20.92
 S.D. = 1.1 on 12 of 12 obs.

FEB 22, 1993 19h 17m 21.32±0.41s
 16.230 N ± 5.6km 144.888 E ± 9.0km
 DEPTH = 33.0km (normal)

4.8mb (10 obs.) 4.3Msz (4 obs.)
 MARIANA ISLANDS REGION (215)

NMCC 1.34 143 eP 17 45.00 1.2
 eS 18 01.00
 PJG 2.63 180 eP 18 01.30 -1.0
 GUMO 2.63 180 eP 18 01.20 -1.1
 e(S) 18 49.20
 GUA 2.68 180 eP 18 02.10 -0.9
 e(S) 18 47.30
 DAV 20.96 247 eP 22 06.00 1.9
 MAT 21.08 345 (P) 22 08.00 2.8X
 1.1s 17.72nm 4.4mb

V LZ	5.14	31	eP	35	22.19	0.0
GHO	5.16	15	eP	35	22.71	0.0
SML	5.29	18	eP	35	25.08	0.6
KLU	5.55	30	iP	35	28.58	0.4
TGL	6.07	46	eP	35	35.10	-0.5
GLB	6.16	38	eP	35	35.22	-1.6
YAH	6.31	52	eP	35	39.67	0.6
BALM	6.43	45	eP	35	40.36	-0.3
S.D. = 0.7 on 33 of 34 obs.						

? FEB 22, 1993 22h 49m 51.56± 1.32s						
16.041 N ±15.3km 145.055 E ±19.9km						
DEPTH = 81.9 ± 17.9 km						
4.5mb (5 obs.)						
MARIANA ISLANDS (216)						
NMCC	1.09	144	eP	50	12.00	-0.1
			eS	50	26.00	
MAT	21.31	345	(P)	54	38.00	4.7X
	0.9s	11.76nm				4.2mb
WB2	37.27	197	eP	56	57.70	0.4
	0.9s	6.30nm				4.5mb
HHC	38.07	317	eP	57	05.00	1.0
BTO	38.97	316	eP	57	11.00	-0.5
LZB	41.67	307	eP	57	34.50	0.6
	1.4s	26.00nm				4.9mb
		pP	57	42.50	27kmX	
		sP	57	51.50		
GTA	45.72	310	eP	58	06.50	0.1
	1.5s	14.00nm				4.6mb
		pP	58	14.00	25kmX	
		sP	58	17.00		
GUN	55.67	293	P	59	22.60	0.3
PKI	56.10	293	P	59	25.00	-0.3
KKN	56.21	293	P	59	26.20	0.2
DMN	56.37	293	P	59	25.50	-1.7
GKN	56.77	293	P	59	18.40	-11.5X
HYB	63.40	282	eP	00	19.70	4.6X
YKA	80.61	28	eP	01	56.20	-0.1
	0.9s	0.60nm				3.5mb
ZOBO	148.14	95	PKPc	09	31.10	3.4X
LPB	148.19	96	ePKP	09	32.00	4.5X
CNCB	148.32	96	PKP	09	34.00	6.1X
S.D. = 0.8 on 11 of 17 obs.						

? FEB 22, 1993 22h 55m 45.17± 2.57s						
36.793 N ±48.4km 69.749 E ±15.6km						
DEPTH = 33.0km (normal)						
3.8mb (4 obs.)						
HINDU KUSH REGION, AFGHANISTAN (718)						
MAIO	8.27	270	ePn	57	46.00	0.2
			eSn	59	13.00	
WMQ	15.37	57	P	59	21.60	0.3
	1.5s	7.90nm				3.7mb
		pP	59	26.80		
HFS	42.22	322	eP	03	36.70	0.4
	0.4s	1.20nm				4.0mb
NB2	43.54	323	P	03	47.00	-0.2
	0.5s	1.00nm				3.8mb
YKA	80.99	2	eP	07	56.70	-0.7
	0.5s	0.40nm				3.7mb
S.D. = 0.7 on 5 of 5 obs.						

FEB 22, 1993 22h 57m 07.49± 0.70s						
38.162 N ± 5.8km 22.045 E ± 6.6km						
DEPTH = 10.0km (geophysicist)						
GREECE (364)						
ML 3.2 (ATH), 2.8 (THE).						
AGG	0.89	14	ePg	57	26.40	1.9
			eSg	57	38.04	
VLS	1.15	271	iPnd	57	29.00	0.0
ATH	1.33	98	iPnd	57	32.50	0.4
			eSn	57	49.50	
VLI	1.61	154	ePn	57	36.00	0.0
LIT	1.97	10	ePb	57	40.88	-0.3
			eSb	58	03.72	
KZN	2.15	354	iPnc	57	45.20	1.2
PAIG	2.17	35	ePn	57	43.28	-0.9
			eSn	58	08.88	
THE	2.57	16	ePn	57	50.12	0.3
			eSn	58	17.68	
FNA	2.67	349	ePn	57	50.84	-0.5
			eSn	58	21.12	
GRG	2.80	6	ePn	57		

22d 22h

SOH 2.84 20 ePn 57 53.08 -0.7
eSn 58 24.52
OHR 3.10 342 ePn 57 57.00 -0.4
VAY 3.18 7 ePn 57 58.50 0.0
SRS 3.18 22 ePn 57 57.48 -1.1
eSn 58 31.80
S.D. = 0.9 on 14 of 14 obs.

FEB 22, 1993 23h 34m 03.38±0.31s
16.295 N ± 6.1km 144.980 E ± 7.7km
DEPTH = 33.0km (normal)
5.0mb (24 obs.) 4.0Msz (1 obs.)

MARIANA ISLANDS REGION (215)

NMCC 1.34 148 eP 34 26.00 0.1
eS 34 42.00
MAT 21.04 345 (P) 38 50.00 3.1X
1.5s 69.44nm 4.8mb
Z 20s 0.71um 4.0Msz
eS 42 52.00
BJI 34.44 319 eP 40 50.00 0.0
1.0s 22.00nm 5.0mb
Z 16s 0.29um 4.1MszX
TIY 35.72 313 eP 41 01.40 0.3
Z 30s 0.78um 4.3MszX
CTA 36.18 178 iP 41 05.00 0.1
XAN 36.87 305 P 41 10.10 -0.6
1.0s 5.00nm 4.3mb
GYA 36.96 292 iPc 41 12.40 0.7
1.0s 17.00nm 4.9mb
WB2 37.50 197 iPd 41 14.90 -1.1
0.9s 14.10nm 4.8mb
i 41 21.30
HHC 37.84 317 P 41 19.40 0.5
1.2s 24.00nm 4.9mb
BTO 38.74 316 eP 41 27.00 0.6
CD2 40.24 299 iPc 41 39.20 0.3
KMI 40.34 290 Pd 41 41.00 1.0
2 0s 50.00nm 4.9mb
pP 41 48.00 24kmX
ASPA 41.17 196 iPd 41 44.90 -1.6
0.8s 6.50nm 4.4mb
LZH 41.46 306 eP 41 50.00 0.9
1.4s 66.00nm 5.2mb
pP 41 58.50 29kmX
sP 42 02.00
DZM 43.54 150 iPc 42 07.20 1.2
CHTO 43.87 280 eP 42 08.60 -0.1
NNT 43.91 271 eP 42 08.20 -0.8
BRS 44.08 170 eP 42 11.00 0.8
YAK 46.93 350 iPd 42 31.80 -0.7
1.2s 100.00nm 5.7mb
BOD 47.41 338 eP 42 35.60 -0.7
1.6s 16.00nm 4.8mb
ZAK 47.68 325 iPd 42 39.50 1.0
1.6s 33.00nm 5.1mb
LSA 50.91 295 iPd 43 05.00 0.8
1.0s 15.00nm 4.9mb
GUN 55.51 293 P 43 38.20 -0.1
1.0s 40.00nm 5.4mb
PKI 55.93 292 P 43 40.60 -0.7
KKN 56.04 293 P 43 41.40 -0.6
TIK 56.15 354 eP 43 43.00 1.2
1.4s 11.00nm 4.7mb
DMN 56.20 293 P 43 42.60 -0.6
ILT 56.57 16 eP 43 43.00 -1.9
GKN 56.61 293 P 43 45.60 -0.4
1.0s 38.00nm 5.4mb
ELT 58.49 323 eP 43 58.00 -0.6
2.2s 40.00nm 5.1mb
HYB 63.28 282 eP 44 31.00 -0.7
NRI 63.48 341 (P) 44 30.50 -1.6
1.5s 34.00nm 5.2mb
e 45 07.00
SVE 73.44 325 ePd 45 34.80 0.7
1.8s 40.00nm 5.1mb
ARU 74.60 325 eP 45 41.00 0.1
1.8s 140.00nm 5.7mb
e 45 47.00
MAIO 76.97 304 eP 45 56.00 1.1
YKA 80.42 28 eP 46 11.60 -1.3
0.9s 1.80nm 4.1mb
KEY 84.00 342 iP 46 32.90 1.5
0.8s 24.90nm 5.4mb
SDF 85.42 340 iP 46 38.80 0.2
SES 86.23 38 ePc 46 43.10 0.2
GRS 86.28 310 eP 46 43.00 -0.6

KIV 87.41 315 (P) 46 50.10 1.2
1.2s 9.00nm 4.9mb
KAF 88.31 336 eP 46 51.50 -1.2
HFS 94.34 338 eP 47 20.20 -0.6
0.4s 0.60nm 4.4mb
ZOBO 148.24 95 ePKP 53 45.00 -0.9
LPB 148.29 95 ePKP 53 47.00 1.3
CNCB 148.42 96 PKPd 53 47.50 1.4
S.D. = 0.9 on 45 of 46 obs.

FEB 22, 1993 23h 36m 09.33±1.43s
15.208 N ± 4.6km 60.172 W ± 13.8km
DEPTH = 5.0km (geophysicist)

LEEWARD ISLANDS (92)
MD 3.1 (TRN). ML 2.8 (FDF).

CRM 0.85 238 iPd 36 26.39 0.2
S 36 35.30
MVM 0.95 227 iPd 36 28.35 0.4
FDF 1.06 244 iPd 36 29.34 -0.4
S 36 41.30
BIM 1.11 232 iPd 36 30.53 -0.1
S 36 43.10
MGG 1.31 303 eP 36 34.20 0.2
DEG 1.39 322 eP 36 35.61 0.2
S 36 52.81
SLW 1.39 212 ePd 36 35.12 -0.3
S 36 51.12
SFG 1.43 317 eP 36 35.70 -0.3
SLB 1.61 212 iPd 36 38.18 -0.4
iS 36 57.34
SVV 2.13 208 eP 36 46.62 0.5
eS 37 10.79
SVB 2.19 209 eP 36 47.01 0.1
eS 37 11.67
e 37 14.34
e 37 14.51
S.D. = 0.4 on 11 of 11 obs.

* FEB 22, 1993 23h 41m 16.39±0.95s
16.142 N ± 13.6km 145.066 E ± 17.1km
DEPTH = 28.0km (3 depth phases)
4.8mb (8 obs.) 4.5Msz (2 obs.)

MARIANA ISLANDS (216)

BJI 34.61 319 eP 48 04.00 -1.1
1.3s 20.00nm 4.9mb
WB2 37.37 197 eP 48 28.80 0.1
0.8s 5.70nm 4.5mb
HHC 38.00 317 P 48 34.60 0.6
1.4s 12.00nm 4.5mb
CD2 40.38 299 eP 48 54.00 0.2
KMI 40.47 290 eP 48 56.00 1.2
1.5s 30.00nm 4.8mb
LZH 41.62 307 eP 49 05.00 1.0
1.4s 53.00nm 5.1mb
Z 15s 0.29um 4.3MszX
pP 49 11.50 22km
GTA 45.66 310 eP 49 35.50 -1.2
1.5s 25.00nm 4.9mb
Z 20s 0.58um 4.5Msz
pP 49 43.00 25km
LSA 51.05 295 Pd 50 19.80 0.8
1.6s 16.00nm 4.7mb
WMO 55.55 312 P 50 52.00 0.3
2.0s 22.00nm 4.8mb
Z 20s 0.48um 4.6Msz
pP 51 03.00 37km
GUN 55.64 293 P 50 53.00 0.0
PKI 56.07 293 P 50 55.40 -0.6
KKN 56.18 293 P 50 56.30 -0.4
DMN 56.34 293 P 50 57.60 -0.3
GKN 56.74 293 P 51 00.20 -0.4
HYB 63.39 282 eP 51 45.00 -1.1
YKA 80.52 28 eP 53 26.80 -0.4
0.7s 0.40nm 3.5mb X
KAF 88.49 336 eP 54 08.50 1.2
ZOBO 148.14 95 ePKP 01 05.00 5.5X
LPB 148.19 95 ePKP 01 05.00 5.7X
CNCB 148.32 96 ePKP 01 03.00 3.3X
e 04 40.00
S.D. = 0.8 on 17 of 20 obs.

? FEB 22, 1993 23h 42m 52.30±10.63s
44.451 N ± 15.2km 6.815 E ± 72.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 1.3 (GEN).

PZZ 0.21 75 P 42 57.02 0.0
S 42 57.74
STV 0.42 119 P 43 01.03 0.1
S 43 05.63
ENR 0.49 117 P 43 02.11 -0.1
S 43 07.14
BHB 0.50 39 P 43 02.53 0.0
S 43 07.64

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

* FEB 22, 1993 23h 44m 49.00±0.94s
15.730 N ± 12.6km 145.273 E ± 20.6km
DEPTH = 20.1km (2 depth phases)
4.8mb (10 obs.) 4.2Msz (3 obs.)

MARIANA ISLANDS (216)

MAT 21.66 344 (P) 49 33.00 -7.3X
Z 20s 0.71um 4.1Msz
BJI 35.05 319 eP 51 41.00 -1.5
1.0s 11.00nm 4.7mb
Z 18s 0.53um 4.3Msz
CTA 35.61 178 iPc 51 46.00 -1.5
1.5s 24.31nm 4.9mb
TIY 36.31 313 eP 51 52.30 -1.1
WB2 37.04 197 eP 52 05.80 6.2X
0.8s 6.00nm 4.5mb
i 52 12.40
WRA 37.04 197 P 51 59.80 0.2
0.6s 2.90nm 4.3mb
GYA 37.44 293 P 52 04.00 0.9
HHC 38.44 317 P 52 10.40 -0.9
1.4s 22.00nm 4.7mb
BTO 39.34 316 eP 52 18.00 -0.8
CD2 40.76 299 eP 52 30.80 0.2
LZH 42.02 307 eP 52 41.50 0.5
1.5s 54.00nm 5.1mb
Z 20s 0.28um 4.1Msz
pP 52 47.50 20km
sP 52 55.00
CHTO 44.25 281 eP 53 05.80 6.6X
GTA 46.08 310 P 53 14.00 0.3
1.5s 35.00nm 5.1mb
pP 53 20.00 20km
YAK 47.53 350 eP 53 23.50 -1.1
1.5s 55.00nm 5.4mb
LSA 51.40 296 iPc 53 56.80 1.4
1.6s 23.00nm 4.9mb
WMO 55.97 313 P 54 28.00 -0.5
2.0s 22.00nm 4.8mb
HYB 63.67 282 eP 55 22.00 0.3
MAIO 77.52 304 eP 56 47.00 1.6
YKA 80.79 28 eP 57 04.30 1.9
0.7s 0.50nm 3.6mb X
SES 86.49 39 eP 57 37.00 5.2X
pP 57 51.00 48kmX
ZOBO 147.91 96 PKP 04 31.40 -1.5X
S.D. = 1.2 on 16 of 21 obs.

* FEB 23, 1993 00h 00m 32.12±0.85s
37.575 N ± 19.0km 71.824 E ± 10.7km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG. (717)

MAIO 9.95 266 eP 02 56.00 0.0
eS 04 40.00
GKN 14.38 128 P 03 56.20 0.7
0.4s 9.00nm 4.7mb
KKN 14.94 127 P 04 02.60 -0.2
0.6s 9.00nm 4.3mb
DMN 14.95 128 P 04 03.40 0.4
PKI 15.17 127 P 04 05.20 -0.7
GUN 15.24 125 P 04 06.60 -0.2
YKA 80.14 3 eP 12 39.90 0.0
0.5s 0.30nm 3.5mb
S.D. = 0.6 on 7 of 7 obs.

% FEB 23, 1993 00h 43m 53.31±3.23s
32.631 S ± 24.0km 71.309 W ± 16.6km
DEPTH = 38.3 ± 31.5 km
NEAR COAST OF CENTRAL CHILE (135)
MD 3.4 (SAN).

ROCH 0.42 144 iP 44 03.28 0.1
iS 44 11.42

23d 00h

JACH	0.61	95	iPd	44	05.66	0.1	PEL	3.33	175	iP+	05	35.80	0.2	CP2	0.85	301	iPc	17	30.19	-0.7
			iS	44	15.57			0.7s	342.47nm					CKL	0.86	296	iPd	17	30.18	-0.8
PEL	0.73	134	iP	44	07.10	-0.2			iS	06	21.40			RDT	0.86	253	eP	17	29.94	-1.0
			iS	44	18.39		FCH	3.56	170	eP	05	40.13	1.2	BGL	0.91	299	iPc	17	31.06	-0.6
LCCH	0.87	195	iP	44	08.87	-0.3			iS	06	29.19			PWA	0.92	26	iPd	17	31.70	0.1
			iS	44	21.23		MDZ	3.59	149	eP	05	42.10	3.1X	SEW	0.97	139	iPc	17	31.05	-1.3
TACH	1.07	163	iP	44	11.80	-0.2			iS	06	26.20					eS	17	44.78		
			iS	44	25.81		SAN	3.64	175	iP	05	40.09	0.4	DFR	0.99	257	iPc	17	31.56	-1.2
FCH	1.10	129	eP	44	12.63	-0.2			iS	06	28.45			RDN	1.05	253	ePc	17	32.40	-1.3
			iS	44	28.16		LCCH	3.68	187	iP	05	38.88	-1.3			eS	17	46.62		
PCH	1.19	146	iP	44	13.75	-0.1	PCH	3.82	173	eP	05	42.59	0.4	RSO	1.06	250	iPc	17	32.88	-1.1
			iS	44	30.08				iS	06	34.20				eS	17	47.36			
LNv	1.32	184	iP	44	15.93	0.3	TACH	3.83	179	iP	05	42.02	-0.2	RS2	1.07	250	iPc	17	32.88	-1.1
			iS	44	32.66		RTPR	3.96	98	ePc	05	43.20	-0.8	RS1	1.07	250	iPc	17	32.98	-1.0
CHCH	1.41	157	eP	44	17.34	0.4	CHCH	4.12	175	eP	05	45.84	-0.4	BRLK	1.08	184	eP	17	33.28	-0.7
			iS	44	35.99		LNv	4.14	184	iP	05	44.75	-1.7			eS	17	47.85		
S.D. = 0.3 on 9 of 9 obs.							CYA	4.79	75	iPd	05	54.00	-1.4	RDW	1.08	252	iPc	17	33.05	-1.1
* FEB 23, 1993 02h 33m 04.82± 2.21s							MRA	5.26	121	ePd	06	01.60	-0.2	PLRM	1.08	45	ePd	17	33.00	-1.0
32.844 S ±13.1km 71.396 W ±14.4km							RFA	5.40	157	ePc	06	03.80	-0.1			eS	17	48.21		
DEPTH = 22.6 ± 9.5 km									(S)	07	27.70		PMR	1.08	45	eP	17	32.69	-1.3	
NEAR COAST OF CENTRAL CHILE (135)							TCA	5.77	107	iP	06	07.10	-1.8	NCT	1.12	257	iPc	17	33.45	-1.1
MD 3.7 (SAN).							FSA	5.80	51	e(P)	06	08.00	-1.2			eS	17	48.24		
							SLA	7.07	46	e(P)	06	25.60	-1.3	SKT	1.21	342	iPd	17	35.00	-0.8
									e	06	26.90				eS	17	51.20			
ROCH	0.35	112	iPd	33	12.91	0.3	CNCB	13.25	13	eP	07	50.00	0.3	GHO	1.28	42	ePd	17	35.94	-1.0
			iS	33	20.19				(S)	10	08.00				eS	17	54.00			
LCCH	0.65	193	iP	33	16.90	-0.5	LPB	13.49	12	(P)	07	54.00	1.2	CNPM	1.34	191	iPd	17	36.61	-1.0
			iS	33	28.96		ZOBO	13.73	12	iP	07	56.00	0.0			eS	17	54.60		
PEL	0.67	117	iP+	33	18.01	0.3			LR	15	20.00		ILIM	1.34	236	ePc	17	36.75	-1.0	
			iS	33	29.50		SIV	16.53	36	P	08	32.70	1.9	INE	1.39	237	ePc	17	37.52	-1.0
JACH	0.70	77	Pd	33	16.63	-1.6	BAO	25.45	61	eP	10	03.50	-0.1	INW	1.42	238	ePc	17	37.90	-1.0
			iS	33	27.75		S.D. = 1.2 on 28 of 29 obs.									eS	17	56.38		
SAN	0.87	135	iP	33	21.10	0.0	% FEB 23, 1993 03h 14m 28.71± 1.65s							XLV	1.47	200	eP	17	38.74	-0.8
			iS	33	35.31		33.770 S ± 7.6km 71.163 W ± 7.4km							SML	1.51	49	iPc	17	39.04	-1.1
TACH	0.89	155	iP	33	21.77	0.2	DEPTH = 56.0 ± 19.5 km							SCM	1.92	57	ePc	17	44.52	-1.6
			iS	33	36.17		NEAR COAST OF CENTRAL CHILE (135)							AUL	1.99	224	eP	17	47.21	0.2
FCH	1.05	118	iP+	33	23.73	-0.7	MD 3.8 (SAN).							PDB	2.02	240	ePd	17	46.21	-1.2
			iS	33	39.67		TACH	0.22	58	iP+	14	37.99	0.0	AUI	2.02	223	eP	17	47.00	-0.5
PCH	1.07	137	P	33	24.51	0.0			iS	14	38.30	0.0	HIN	2.13	100	ePc	17	45.51	-3.5	
			iS	33	41.30		LNv	0.28	228	iPd	14	38.30	0.0	VLZ	2.16	80	ePc	17	47.04	-2.4
LNv	1.11	181	eP	33	24.85	-0.1			iS	14	45.80		HUR	2.21	13	eP	17	50.65	0.5	
CHCH	1.25	150	iP	33	27.61	0.6	LCCH	0.45	311	iP	14	39.72	-0.2	SVW	2.40	279	ePc	17	50.64	-2.2
			iS	33	46.69				iS	14	48.38		CDD	2.41	219	eP	17	52.10	-0.9	
RTCV	2.61	69	e(P)	33	48.00	1.4	CHCH	0.46	111	iP+	14	39.92	-0.1	KLU	2.42	72	iPc	17	50.88	-2.3
S.D. = 0.9 on 11 of 11 obs.									iS	14	48.45		MCNL	2.45	229	ePd	17	52.57	-1.0	
? FEB 23, 1993 03h 03m 09.75± 2.35s							SAN	0.52	53	iP	14	40.87	0.1	CVA	2.47	95	ePc	17	50.07	-3.7
87.081 N ±24.9km 56.595 E ±61.3km									iS	14	48.22		MID	2.61	121	P	17	56.70	0.9	
DEPTH = 10.0km (geophysicist)							PCH	0.56	75	iP	14	41.16	-0.1	TRF	2.63	4	ePd	17	56.42	0.1
4.3mb (6 obs.) 3.7msz (1 obs.)									iS	14	50.96		RND	2.73	18	eP	17	58.06	0.5	
NORTH OF FRANZ JOSEF LAND (644)							CACH	0.58	127	iPd	14	41.72	0.2	SDG	3.00	53	eP	17	59.98	-1.4
									iS	14	52.35		RAGM	3.02	96	ePc	17	57.21	-4.4	
NB2	27.13	229	P	08	53.40	-0.8	PEL	0.74	33	iP	14	43.47	0.0	MCK	3.03	15	eP	18	02.48	0.8
	1.2s	11.50nm			4.5mb				iS	14	55.10		KDC	3.23	197	ePd	18	01.23	-3.2	
YKA	30.57	352	eP	09	25.00	0.0	ROCH	0.81	9	iP	14	44.65	0.2	KAIM	3.27	103	eP	18	03.19	-1.9
	1.1s	1.50nm			3.8mb				iS	14	57.21		TTA	3.27	312	eP	18	02.30	-2.8	
MOX	37.51	228	eP	10	25.10	0.2	FCH	0.85	59	iPd	14	44.92	-0.2			eS	18	55.03		
GRF	38.48	228	ePc	10	33.50	0.5			iS	14	57.94		PAX	3.28	47	ePd	18	04.21	-1.2	
Z	19s	0.10um			3.7msz		JACH	1.19	24	iP	14	49.37	0.0	GLB	3.41	77	ePc	18	04.09	-3.1
									iS	15	05.19		CROM	3.72	88	ePc	18	07.72	-4.0	
GEC2	39.24	225	P	10	39.40	0.0	S.D. = 0.2 on 11 of 11 obs.							TGL	3.87	88	eP	18	09.75	-4.1
	0.9s	2.31nm			3.9mb		& FEB 23, 1993 04h 17m 15.10s							HDA	3.98	24	eP	18	14.43	-0.9
CDF	39.91	232	eP	10	45.30	0.2	60.836 N 150.731 W							BALM	4.10	84	iPc	18	13.07	-4.0
	0.9s	7.35nm			4.4mb		DEPTH = 38.2km							FBA	4.30	17	eP	18	17.40	-2.3
BSF	40.51	232	eP	10	50.10	0.1	KENAI PENINSULA, ALASKA (14)							GLM	4.44	19	eP	18	20.48	-1.3
	0.8s	5.25nm			4.3mb		<AEIC>. ML 3.5 (AEIC). 3.6							YAH	4.46	92	ePc	18	17.50	-4.7
BCAO	83.29	218	iPd	15	37.30	-0.2	(PMR).							CTGM	4.59	84	eP	18	20.22	-3.9
	0.8s	11.00nm			5.1mb		NKA	0.27	250	ePc	17	24.48	1.6	IMA	5.42	347	eP	18	33.15	-2.5
S.D. = 0.5 on 8 of 8 obs.							SLKM	0.41	142	iPc	17	24.14	-0.5		0.5s	3.12nm		4.0mb X		
FEB 23, 1993 03h 04m 44.25± 0.79s									eS	17	31.29		YKA	17.09	69	eP	21	09.60	-2.7	
29.814 S ± 7.4km 71.043 W ± 9.4km							SUA	0.63	359	iPd	17	26.87	-0.8		0.5s	0.20nm		2.5mb		
DEPTH = 110.4 ± 20.9 km									eS	17	37.05		69 obs. associated							
NEAR COAST OF CENTRAL CHILE (135)							PMS	0.70	54	iPd	17	28.40	-0.2	* FEB 23, 1993 04h 29m 04.30± 1.74s						
							SPU	0.73	299	iPd	17	28.33	-0.7	27.096 N ±14.9km 54.549 E ±19.6km						
RTBS	2.29	144	eP	05	24.00	2.5	MPA	0.76	117	iPc	17	28.74	-0.6	DEPTH = 10.0km (geophysicist)						
ZON	2.67	131	eP	05	27.80	1.2			eS	17	40.22		3.9mb (3 obs.)							
RTLL	2.68	125	iPc	05	26.50	-0.3	CGLM	0.78	308	eP	17	29.33	-0.5	SOUTHERN IRAN (353)						
JACH	2.88	172	iP	05	30.25	0.7			eS	17	40.16		SHI	3.10	325	eP	29	54.00	-0.3	
			iS	06	11.64		CPAM	0.80	302	ePd	17	29.58	-0.6	RYD	7.53	253	eP	31	01.00	4.2X
RTCV	2.97	134	ePd	05	32.00	1.4	CKN	0.81	300	ePd	17	29.61	-0.5			eS	32	22.00		
CFA	3.00	127	ePc	05	32.00	0.9	CKT	0.81	298	iPd	17	29.37	-0.8	MJMA	8.39	264	eP	31	10.00	1.1
			S	06	09.10		CRP	0.82	303	iP										

23d 04h

APO 43.25 332 eP 37 06.80 -0.4
0.4s 1.40nm 4.1mb
NB2 44.65 332 P 37 17.80 -0.8
0.7s 1.10nm 3.9mb
YKA 90.30 355 eP 42 07.80 1.4
0.7s 0.40nm 3.8mb
S.D. = 1.1 on 7 of 8 obs.

* FEB 23, 1993 05h 12m 44.19±0.73s
26.314 S ± 7.1km 27.384 E ± 10.5km
DEPTH = 5.0km (geophysicist)
4.2mb (1 obs.)

REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.8 (BUL).

PRY 0.62 173 eP 12 55.00 -1.6
SLR 0.99 55 iPd 13 04.50 0.9
0.3s 422.08nm
(S) 13 16.30

SEK 2.01 174 iPc 13 20.00 0.7
S 13 45.00

BFT 2.47 76 iPd 13 28.00 2.0
S 13 58.50

BUL 6.25 11 iPnc 14 19.10 -0.3
iSn 15 27.10
iSb 15 42.00
iSg 16 00.00

CIR 6.53 37 iPn 14 22.00 -1.3
iSn 15 29.00
iSg 16 03.70

CER 9.93 223 eP 14 58.50 -12.2X
S 16 37.00

MTD 10.26 23 iPnd 15 13.00 -2.3
iSn 17 01.70
iSg 17 58.00

KIC 45.01 312 P 21 03.20 0.5
LIC 45.10 311 P 21 04.20 0.8
TIC 45.40 312 P 21 06.60 0.8

0.4s 9.00nm 5.1mb X
GBA 62.79 57 P 23 13.00 -0.2
GEC2 75.81 351 Pc 24 35.00 2.1X

1.0s 2.31nm 4.2mb
S.D. = 1.4 on 11 of 13 obs.

% FEB 23, 1993 05h 26m 51.69±1.04s
40.580 N ± 13.6km 15.050 E ± 14.4km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO 0.20 96 P 26 55.90 -0.1
eSg 26 58.20

MGR 0.59 139 Pc 27 02.80 -0.8
eSg 27 13.40

DUI 1.17 338 P 27 13.60 0.0
eSg 27 29.20

TDS 1.35 133 P 27 17.30 0.8
SDI 1.46 321 P 27 18.00 -0.1

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

FEB 23, 1993 05h 34m 03.71±0.30s
26.074 S ± 8.9km 177.255 W ± 6.8km
DEPTH = 98.3km (6 depth phases)

5.2mb (19 obs.)

SOUTH OF FIJI ISLANDS (171)

SVA 8.86 333 iPd 36 12.00 1.3
DZM 15.41 282 iPd 37 41.10 4.1X

BKM 15.84 299 iPd 37 45.80 3.5X
BRS 26.77 260 iPd 39 38.00 1.8

i 40 02.50 113kmX
ARMA 27.70 254 eP 40 01.00 16.3X
0.7s 10.00nm

CTA 34.02 272 iP 40 40.00 -0.3
i 41 02.00 95km
e 46 53.00

STK 36.30 251 eP 41 00.30 0.7
0.4s 4.30nm 4.7mb
iPd 41 25.10 107km

ePcP 43 22.90
eScP 47 01.10

PMG 37.56 290 eP 41 10.00 -0.2
ASPA 44.18 262 iPd 42 04.00 -0.6

0.4s 30.90nm 5.5mb
Z 18s 0.30um 4.3Msz
eP 42 28.90 107km

e 43 42.60
eS 48 22.40

WB2 44.76 267 eP 42 06.50 -2.8X
0.4s 84.40nm 5.9mb

i 42 10.10 12kmX
eS 48 39.80

WRA 44.77 267 P 42 08.90 -0.5
0.5s 7.60nm 4.8mb

FORT 47.93 251 eP 42 32.00 -2.1
MEEK 56.89 254 eP 43 37.00 -3.9X

BAL 57.56 249 eP 43 42.80 -2.6X
SPA 64.08 180 iPd 44 28.70 -0.5

0.9s 72.73nm 5.6mb
ADK 77.62 0 iPd 45 48.82 -1.4

0.6s 51.11nm 5.5mb
YSS 81.23 334 eP 46 14.00 4.2X

e 46 39.00 95km
KGM 81.39 276 ePc 46 11.00 -0.4

PLM 82.38 47 iPd 46 16.67 0.3
NVL 83.22 183 eP 46 19.00 -0.8

1.0s 39.00nm 5.3mb
ORV 83.45 40 eP 46 21.06 -0.4

GLA 83.55 49 eP 46 22.97 0.8
GSC 83.61 46 eP 46 22.86 0.4

SNA 83.82 178 iPd 46 24.80 1.9
0.8s 89.55nm 5.8mb

BONR 84.32 43 eP 46 26.43 0.2
TPNV 84.97 45 eP 46 29.58 0.2

1.0s 19.56nm 5.0mb
TNP 85.07 43 eP 46 30.06 0.2

0.8s 15.57nm 5.0mb
KVN 85.14 42 eP 46 30.60 0.4

TUC 85.90 51 iPd 46 34.86 0.9
0.8s 24.31nm 5.3mb

epP 46 59.28 91km
ARUT 87.27 45 eP 47 08.06

e 46 41.42 0.8
GMW 88.14 33 eP 46 44.18 -0.2

MSU 88.50 45 eP 46 47.09 0.5
RMW 88.57 34 eP 46 46.38 -0.1

PEL 88.70 126 iPd 46 47.50 -0.1
SLKM 89.05 13 eP 46 48.04 -0.4

CP2 89.36 12 eP 46 49.16 -1.0
CRP 89.38 12 eP 46 48.45 -1.7

MGD 89.77 345 ePd 46 51.00 -0.8
0.7s 60.00nm 5.8mb

SRU 89.90 46 eP 46 52.37 -0.7
HVU 90.02 42 eP 46 53.53 0.0

TTA 90.30 10 eP 46 54.56 0.3
0.9s 5.27nm 4.7mb

NST 90.34 287 eP 46 58.80 3.5X
ALO 90.36 51 iPd 46 55.36 0.0

0.8s 11.56nm 5.1mb
eP 47 20.92 95km

KHT 91.27 286 eP 47 00.70 1.1
BALM 91.31 16 eP 46 58.49 -0.5

NEW 91.49 35 (P) 47 01.19 1.2
1.1s 5.07nm 4.7mb

BW06 92.55 43 eP 47 04.48 -0.8
0.8s 3.52nm 4.8mb

CHTO 92.76 289 ePd 47 07.30 0.9
0.8s 23.98nm 5.6mb

LCCM 92.90 40 eP 47 06.60 -0.1
ILT 93.69 359 iPd 47 09.60 0.0

1.0s 10.00nm 5.2mb
SES 95.95 36 eP 47 20.00 -0.5

RSSD 96.68 44 eP 47 23.63 -0.5
1.2s 8.55nm 5.2mb

YKA 101.26 25 ePd diff 47 53.50 9.4X
0.6s 0.30nm 4.1mb X

SVE 128.90 323 ePKPc 53 13.00 12.1X
ARU 130.09 323 ePKP 53 08.00 4.9X

KAF 140.66 343 ePKP 53 14.40 -8.4X
0.5s 1.30nm

NUR 142.45 342 ePKP 53 20.50 -5.5X
0.3s 1.50nm

NB2 144.57 353 PKP 53 27.30 -2.4
0.6s 16.60nm

MNK 146.66 333 ePKP 53 32.00 -1.2
EDU 149.27 6 ePKP 53 40.90 3.6X

1.2s 22.00nm
ELO 149.27 7 ePKP 53 39.10 1.7

1.1s 13.00nm
EAB 149.48 8 ePKP 53 41.20 3.5X

1.1s 10.00nm
EBH 149.51 7 ePKP 53 43.20 5.5X

EAU 149.92 7 ePKP 53 42.90 4.6X

1.2s 18.00nm
ESY 149.93 6 ePKP 53 40.20 1.8

HMDT 150.80 290 ePKP 53 44.40 4.0X
ARVI 151.15 287 ePKP 53 45.90 4.9X

RMN 151.63 286 ePKP 53 47.70 5.8X
OJC 152.55 336 ePKP 53 43.40 1.0

UZH 152.79 331 ePKP 53 53.00 10.2X
1.0s 32.00nm

i 54 00.80
e 54 26.30

MLR 153.15 322 ePKP 53 53.00 9.4X
BCAO 153.70 218 iPKPd 53 52.00 6.9X

0.8s 28.00nm
i 54 06.10

i 54 31.10
BRG 153.79 344 ePKP 53 54.40 10.3X

i 54 04.80
GEC2 155.71 342 PKP 53 59.20 12.3X

0.6s 0.49nm
VBY 158.17 336 ePKP 54 04.00 14.0X

iPKPab 54 24.80
S.D. = 1.0 on 49 of 75 obs.

FEB 23, 1993 07h 01m 25.12±0.99s
62.396 N ± 7.0km 151.212 W ± 5.6km
DEPTH = 111.2 ± 26.1 km

CENTRAL ALASKA (1)
Felt (III) at Skwentno.

CRP 1.22 202 eP 01 49.16 -0.1
eS 02 05.65

CP2 1.24 204 eP 01 49.69 0.2
eS 02 07.26

PMR 1.27 128 eP 01 49.65 0.0
eS 02 05.87

SLKM 1.95 165 eP 01 58.72 0.6
RSO 2.08 202 (P) 01 59.02 -0.8

TTA 2.28 286 eP 02 02.22 -0.1
SVW 2.46 240 eP 02 05.12 0.4

KLU 2.66 108 eP 02 06.95 -0.4
FBA 2.94 30 ePd 02 11.07 0.0

IMA 3.84 345 eP 02 23.42 0.0
BALM 4.43 104 eP 02 31.64 0.2

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

* FEB 23, 1993 07h 50m 04.00±1.93s
6.115 S ± 13.6km 146.616 E ± 20.9km
DEPTH = 33.0km (normal)

3.8mb (2 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY 0.66 259 iPd 50 17.50 0.6
MDG 1.20 316 eP 50 24.30 -0.2

PMG 3.31 171 eP 50 55.00 0.2
eS 51 49.00

WB2 18.19 220 iPd 54 14.90 -0.9
0.5s 4.00nm 3.8mb

ASPA 21.31 214 eP 54 50.70 0.3
1.0s 3.40nm 3.7mb

AIA 105.27 167 ePd diff 04 21.00 10.7X
KIC 151.53 272 PKP 09 55.40 4.5X

LIC 151.81 272 PKP 09 56.20 4.9X
S.D. = 0.8 on 5 of 8 obs.

FEB 23, 1993 07h 53m 10.61±0.52s
47.289 N ± 8.5km 153.823 E ± 7.7km
DEPTH = 33.0km (normal)

4.8mb (34 obs.) 4.1Msz (2 obs.)
KURIL ISLANDS (221)

SKR 3.70 23 ePn 54 07.60 0.8
Z 12s 1.00um

N 12s 1.40um
E 12s 1.20um

KUR 4.61 246 iPnc 54 19.00 -0.8
PET 6.52 27 ePn 54 44.50 -2.1

Z 14s 0.60um
N 16s 0.70um

E 16s 0.70um
YSS 7.58 272 ePnd 55 04.70 3.2X

Z 15s 1.40um
N 15s 1.00um

eS 56 32.50
KUSJ 7.68 240 eP 54 54.00 -8.9X

S 56 20.80
ASAJ 8.44 252 P 55 14.50 1.0

MGD 12.96 353 ePn 56 15.00 0.1
Z 14s 0.50um

N 14s 0.60um

				e	58 51.00	SSP	82.52 340 eP	05 31.30	0.3				
MAT	15.79	233 (P)	56 49.00	-3.1X		AVF	82.81 340 eP	05 33.10	0.6	? FEB 23, 1993 08h 01m 41.50± 1.76s			
	1.0s	10.00nm		3.9mb			1.0s	11.80nm	4.9mb	46.842 N ±34.5km 153.834 E ±24.6km			
YAK	20.12	326 eP	57 43.90	-0.2		SMF	82.83 340 eP	05 33.10	0.5	DEPTH = 33.0km (normal)			
	0.7s	27.00nm		4.7mb			0.9s	11.45nm	5.0mb	4.9mb (12 obs.)			
ILT	24.96	24 iPd	58 31.30	-0.7		LPL	83.16 337 eP	05 36.30	1.7	KURIL ISLANDS (221)			
	0.9s	20.00nm		4.7mb		LPG	83.18 337 eP	05 36.60	1.8				
BOD	25.93	309 eP	58 40.20	-1.0			0.9s	11.45nm	5.0mb	KUSJ	7.47	243 eP	03 33.10 2.2
	1.0s	8.00nm		4.3mb		MML	83.28 312 eP	05 41.40	6.2X			eS	04 54.30
TIK	27.08	343 eP	58 50.00	-1.6		MAF	83.53 340 eP	05 37.20	1.0	ASAJ	8.32	255 eP	03 49.60 6.8X
	1.4s	11.00nm		4.3mb			0.7s	7.95nm	5.0mb	MAT	15.53	234 eP	05 25.00 5.4X
Z	18s	0.40um		4.0msz		TCF	83.54 341 eP	05 37.60	1.3	IMA	33.44	36 (P)	08 18.39 -0.8
ZAK	32.89	294 eP	59 42.50	-0.9		LSF	83.73 341 eP	05 38.10	0.8		1.0s	3.25nm	4.2mb
	0.9s	6.00nm		4.5mb		SAGI	85.43 311 eP	05 53.10	7.0X	FBA	35.78	38 eP	08 39.20 0.2
Z	16s	0.69um		4.5mszX		BCAO	115.22 309 ePdiff	07 45.00	-16.7X		0.5s	3.51nm	4.5mb
E	16s	0.78um					0.5s	5.00nm		YKA	50.55	37 eP	10 38.30 0.0
IMA	33.09	36 eP	59 45.00	-0.1		AIA	152.87 145 ePKP	12 56.00	-0.9		1.0s	1.00nm	3.8mb X
	1.0s	2.50nm		4.1mb		S.D. = 1.0 on 55 of 63 obs.				GUN	55.49	275 P	11 14.20 -1.7
FBA	35.44	39 iP	00 04.28	-0.9		FEB 23, 1993 07h 55m 31.57± 0.74s					0.6s	10.00nm	5.0mb
	0.9s	5.11nm		4.5mb		38.779 S ± 7.4km 175.008 E ± 5.8km				KKN	55.97	276 P	11 18.80 -0.4
LZH	38.36	272 eP	00 30.00	-0.3		DEPTH = 264.3 ± 6.9 km					0.6s	20.00nm	5.3mb
	1.0s	37.00nm		5.2mb		NORTH ISLAND, NEW ZEALAND (159)				PKI	56.02	275 P	11 17.60 -2.1
ELT	42.13	304 eP	01 01.00	0.1		CNZ	0.59 135 P	56 06.50	-0.1		0.6s	11.00nm	5.1mb
Z	16s	0.80um		4.5mb		NGZ	0.61 131 P	56 06.60	-0.1	DMN	56.21	276 P	11 20.20 -0.7
RES	50.17	19 eP	02 06.00	1.7		NRZ	1.01 236 P	56 08.90	0.5		0.8s	42.00nm	5.5mb
	0.7s	2.00nm		4.2mb		BSZ	1.02 183 Pc	56 08.60	0.1	GKN	56.28	276 P	11 20.60 -0.7
YKA	50.20	37 eP	02 03.50	-1.2		WHH	1.17 96 Pd	56 08.60	-0.8	KAF	63.57	335 eP	12 10.80 0.2
	0.9s	1.40nm		4.0mb		WAHZ	1.39 132 P	56 10.70	-0.1		0.3s	0.80nm	4.3mb
CHTO	52.71	257 eP	02 25.00	0.7		PAHZ	1.60 94 P	56 12.30	0.0	NUR	65.34	335 eP	12 23.40 1.3
ARU	54.94	317 iPd	02 39.00	-1.2		TTH	1.61 119 P	56 12.80	0.5	NB2	68.30	341 P	12 41.60 0.7
	1.2s	60.00nm		5.5mb		MOH	1.71 103 P	56 13.40	0.3		0.9s	12.30nm	5.0mb
GUN	55.44	275 P	02 44.20	-0.4		URZ	1.73 73 P	56 12.60	-0.6	HFS	68.54	340 eP	12 42.50 0.1
	0.6s	22.00nm		5.4mb							0.5s	12.00nm	5.2mb
KKN	55.92	275 P	02 47.80	-0.1						Z	16s	54.00um	6.9mszX
PKI	55.97	275 P	02 47.00	-1.4		TEHZ	1.85 131 P	56 14.40	0.1			LR	33 57.00
DMN	56.15	275 P	02 49.60	-0.1		MNG	1.87 169 Pc	56 14.50	0.0	CLL	76.58	336 iP	13 31.50 1.6
GKN	56.22	276 P	02 50.20	0.2							0.9s	16.00nm	5.0mb
LCCM	60.79	53 eP	03 22.00	0.4		KIW	2.08 182 P	56 16.10	-0.2	PRU	77.32	334 eP	13 36.50 2.5X
KAF	63.16	335 eP	03 35.70	-1.3		DIW	2.19 202 Pd	56 17.40	0.2	KHC	78.37	335 eP	13 42.50 2.6X
	0.5s	2.10nm		4.5mb		MAHZ	2.28 101 eP	56 18.60	0.5		1.0s	3.50nm	4.3mb
BW06	64.03	54 P	03 46.50	3.1X		CAW	2.33 179 Pc	56 18.40	-0.1	GRF	78.54	336 eP	13 44.00 3.3X
NUR	64.93	335 iP	03 47.30	-1.2		NOZ	2.38 87 P	56 19.50	0.5	KBA	80.28	334 iPc	13 54.30 3.9X
	0.3s	3.30nm		4.9mb		MTW	2.41 171 Pc	56 18.90	-0.4	WTTA	80.62	335 iPc	13 56.00 3.8X
UPP	67.39	338 iP	04 03.50	-0.8		MRW	2.46 185 Pc	56 19.70	-0.1		1.0s	18.00nm	5.0mb
NB2	67.87	341 P	04 06.80	-0.6						S.D. = 1.3 on 14 of 21 obs.			
	0.8s	24.20nm		5.3mb		WEL	2.51 184 P	56 20.10	-0.2	& FEB 23, 1993 08h 09m 58.48s			
HFS	68.12	340 eP	04 07.80	-1.0						37.575 N 118.845 W			
	0.6s	32.80nm		5.6mb		BLW	2.61 172 P	56 21.00	-0.3	DEPTH = 7.5km			
NAO	68.15	341 P	04 07.80	-1.3		MOW	2.65 176 P	56 21.30	-0.4	CALIFORNIA-NEVADA BORDER REGION (40)			
WRA	69.18	200 P	04 14.60	-1.2		PUZ	2.65 76 P	56 21.60	-0.1	<GM-P>. MD 3.1 (GM). ML 3.2			
	0.7s	3.70nm		4.6mb						(BRK).			
KIV	70.77	314 eP	04 26.40	0.9		ORZ	2.80 222 Pc	56 23.10	-0.1	MEMM	0.12	321 iPd	10 01.41 0.3
	1.0s	27.00nm		5.3mb						MRCM	0.29	70 ePc	10 04.27 -0.2
Z	15s	0.20um		4.5mszX		CCW	3.03 191 P	56 26.30	0.7	MTUM	0.31	135 ePd	10 04.67 -0.3
GBA	70.91	269 P	04 26.00	-0.6		THZ	3.39 208 P	56 29.70	0.1	BONR	0.57	48 ePc	10 09.55 -0.5
CLL	76.17	336 iP	04 56.60	-0.1						FRI	0.90	230 iPc	10 15.32 -0.6
	0.9s	34.00nm		5.4mb		KHZ	3.80 197 P	56 34.60	0.5			eS	10 27.30
BRG	76.30	335 iP	04 58.10	0.7						CMB	1.30	291 iPd	10 22.24 -0.6
PRU	76.91	334 Pd	05 02.00	1.1		DSZ	3.85 219 P	56 34.60	-0.1			eS	10 39.40
	0.9s	6.60nm		4.7mb		LTZ	4.51 207 eP	56 42.70	0.3	TNP	1.38	68 ePc	10 24.52 0.2
MOX	77.15	336 eP	05 02.70	0.5								S	10 42.08
KHC	77.96	335 eP	05 07.40	0.7		MOZ	5.23 199 eP	56 50.40	-0.7	KVN	1.59	21 eP	10 28.18 1.0
	0.9s	7.70nm		4.7mb						PKEM	1.82	214 eP	10 31.64 1.3
										LLA	1.93	241 iPc	10 33.03 1.0
GRF	78.12	336 eP	05 08.70	1.1		EWZ	5.67 212 eP	56 56.80	0.3			eS	10 58.70
	0.8s	29.00nm		5.4mb		BWZ	6.91 212 eP	57 11.80	0.0	PRI	2.04	226 eP	10 34.87 1.1
Z	18s	0.10um		4.2msz		ODZ	7.06 206 P	57 14.40	0.7	PHAM	2.14	216 eP	10 35.11 0.1
GEC2	78.18	334 Pd	05 08.00	0.0		LRCZ	7.57 212 P	57 19.90	-0.4	ARN	2.15	265 eP	10 36.24 1.0
	1.0s	4.62nm		4.5mb		LSCZ	7.60 212 P	57 20.40	-0.1	TPNV	2.16	106 ePn	10 35.23 -0.3
						SBCZ	7.60 212 P	57 20.30	-0.3	SAO	2.23	250 eP	10 37.34 1.0
						CMCZ	7.66 212 P	57 21.30	-0.1			eS	11 07.86
						S.D. = 0.4 on 37 of 37 obs.				MHC	2.24	265 ePc	10 37.97 1.4
KBA	79.87	334 iPc	05 18.60	1.3		? FEB 23, 1993 07h 57m 14.70± 4.08s						eS	11 06.84
	0.9s	21.50nm		5.1mb		29.387 S ±23.0km 69.158 W ±34.2km				PRS	2.37	239 eP	10 39.57 1.2
						DEPTH = 120.0km (geophysicist)						eS	11 11.07
WTTA	80.21	335 iPc	05 19.50	0.4		CHILE-ARGENTINA BORDER REGION (127)				GSC	2.80	143 ePn	10 45.07 0.5
	0.9s	24.80nm		5.2mb		RTLL	2.03 163 eP	57 49.00	0.0	18 obs. associated			
CDF	80.34	338 eP	05 20.20	0.5		CFA	2.35 161 eP	57 53.00	-0.2	? FEB 23, 1993 08h 49m 10.73± 2.08s			
	1.0s	13.75nm		4.9mb		RTPR	2.47 112 ePd	57 55.20	0.5	31.228 S ±19.5km 68.290 W ±13.8km			
HAU	80.95	339 eP	05 23.50	0.7		CYA	3.10 73 iPd	58 03.00	0.0	DEPTH = 105.5 ± 25.7 km			
	0.6s	3.50nm		4.5mb		MRA	4.23 136 ePd	58 18.70	0.5	SAN JUAN PROVINCE, ARGENTINA (137)			
BSF	81.00	338 eP	05 23.60	0.4		TCA	4.40 117 iP	58 19.80	-0.9				
LOR	82.24	340 eP	05 30.50	0.9						RTLL	0.18	236 iPc	49 25.70 -0.4
	0.8s	7.95nm		4.8mb								(S)	49 36.20
HRI	82.45	312 eP	05 37.90	6.9X		S.D. = 0.7 on 6 of 6 obs.							

23d 08h

CFA 0.38 173 ePc 49 26.60 0.0
S 49 38.00
RTBS 1.08 246 e(P)c 49 33.00 0.3
RTPR 1.79 59 ePd 49 42.10 0.9
S 50 05.60
TCA 3.17 93 iP 49 59.50 -0.2
(S) 50 35.50
CYA 3.52 39 eP 50 04.00 -0.5
S.D. = 0.8 on 6 of 6 obs.

FEB 23, 1993 09h 27m 20.06± 1.08s
35.476 N ± 8.2km 21.292 E ± 5.0km
DEPTH = 41.0 ± 9.9 km
4.3mb (11 obs.)

CENTRAL MEDITERRANEAN SEA (400)

VLI 1.82 47 iPd 27 52.00 2.6
VLS 2.75 348 iPd 28 05.30 2.5
ATH 3.16 37 eP 28 09.80 1.2
NPS 3.54 92 eP 28 13.00 -0.9
AGG 3.64 13 ePnd 28 17.70 2.3
eSn 29 00.36
IGT 4.12 350 ePnd 28 22.80 0.6
KEK 4.39 345 eP 28 28.00 1.9
LIT 4.71 11 ePnc 28 31.32 0.7
eSn 29 25.52

PAIG 4.83 22 ePnc 28 32.26 0.1
KZN 4.84 4 iPc 28 34.00 1.6
SOI 4.94 303 Pc 28 33.80 0.1
eSn 29 26.70

OUR 5.30 23 ePn 28 38.52 -0.2
FNA 5.30 1 ePnd 28 39.32 0.4
eSn 29 38.68

THE 5.31 14 ePn 28 38.08 -0.9
eSn 29 39.72

MEU 5.39 289 P 28 39.50 -0.7
eSn 29 37.40

ATN 5.39 302 P 28 40.50 0.4
eSn 29 36.40

LCI 5.52 332 P 28 41.50 -0.4
eSn 29 38.00

GRG 5.54 9 ePnd 28 42.62 0.3
eSn 29 45.92

SOH 5.58 16 ePnc 28 42.96 0.1
eSn 29 46.68

OHR 5.64 356 iPnc 28 44.00 0.3
1.1s 163.00nm 5.4mb X
i 28 54.20
i 29 40.30
i 29 47.00
Lg 29 56.40

TDS 5.74 318 P 28 44.90 -0.1
eSn 29 44.60

KNT 5.82 12 ePnd 28 46.48 0.4
eSn 29 51.04

MNO 5.84 297 P 28 47.40 0.8
eSn 29 49.50

SRS 5.92 17 ePnc 28 47.26 -0.2
eSn 29 54.24

VAY 5.92 9 iPn 28 48.00 0.4
0.8s 206.00nm 5.7mb X
BRT 6.28 330 Pd 28 52.10 -0.5
eSn 29 58.60

SKO 6.49 1 iPn 28 54.50 -1.0
0.9s 86.00nm 5.4mb X
iPb 29 05.40
iSg 30 04.00
Lg 30 15.70

MGR 6.50 317 P 28 55.50 -0.2
eSn 30 03.90

KKB 6.53 12 eP 28 56.00 -0.2
ALN 6.58 33 ePn 28 55.84 -0.9

ULC 6.67 347 ePn 28 56.70 -1.4
eSn 30 05.00

SGO 6.93 319 P 29 01.90 0.2
eSn 30 14.60

KDZ 6.96 26 iPc 29 02.00 -0.1
BDV 7.06 345 ePn 29 01.50 -2.1
eSn 30 14.00

TTG 7.12 348 ePn 29 02.50 -1.8
eSn 30 17.00

PLD 7.13 21 eP 29 04.00 -0.5
PVY 7.18 352 ePn 29 04.50 -0.9
eSn 30 20.00

VTS 7.26 11 iPc 29 06.00 -0.5
IVA 7.46 352 ePn 29 08.00 -1.3
eSn 30 26.50

PLE 7.98 350 ePn 29 15.00 -1.5
eSn 30 38.50
PVL 8.34 21 eP 29 19.00 -2.3
MLR 10.61 18 ePc 29 55.00 2.3X
CVO 10.98 18 eP 29 56.00 -1.5
VBY 11.02 337 iP 29 57.30 -0.7
PTJ 11.17 340 eP 29 57.90 -2.3
VR1 11.17 20 eP 30 02.00 1.9
VOY 11.94 334 eP 30 10.00 -0.6
eS 32 14.00

BGIO 12.10 104 eP 30 06.00 -6.7X
SAGI 12.40 111 eP 30 08.70 -8.0X
eS 32 14.20

MBH 12.78 113 eP 30 13.50 -8.4X
KBA 13.03 335 iPc 30 25.70 0.5
i(S) 32 45.20

GEC2 14.49 340 Pn 30 48.50 4.3X
Sn 33 16.10

KHC 14.78 340 eP 30 56.00 8.1X
1.0s 3.50nm 3.7mb
Z 14s 1.00um 5.4msz X
N 16s 0.60um
E 14s 0.50um

e 31 25.50
e 31 41.50
e 33 25.00

PRU 15.32 343 eP 31 00.00 5.1X
Z 14s 0.70um

CLL 16.92 342 iPd 31 19.20 4.0X
1.5s 16.00nm 3.9mb
DOU 19.01 325 Pc 31 43.00 2.1
0.7s 14.40nm 4.3mb

e 32 19.00
PAB 20.72 289 eP 32 02.00 2.6X
OBN 22.29 24 iPd 32 14.00 -1.0
1.0s 84.00nm 5.1mb

e 32 56.00
NUR 25.14 4 eP 32 42.60 0.0
0.9s 14.70nm 4.5mb

HFS 25.16 351 eP 32 43.20 0.4
0.6s 7.10nm 4.4mb
NB2 26.38 349 P 32 54.20 0.0
0.7s 1.40nm 3.7mb

KAF 26.85 5 iP 33 00.00 1.7
0.6s 8.00nm 4.5mb
BCAO 30.99 185 iPd 33 36.10 0.2
0.5s 5.00nm 4.5mb

NDI 47.34 82 iPc 35 51.20 -0.6
HYB 53.61 94 eP 36 38.00 -1.6
YKA 76.14 341 eP 39 05.50 0.5
0.8s 0.60nm 3.6mb

IMA 78.71 358 eP 39 21.53 2.2
0.8s 2.60nm 4.3mb
e 39 33.81

S.D. = 1.2 on 58 of 67 obs.

FEB 23, 1993 09h 34m 53.14± 0.45s
42.575 N ± 3.7km 19.138 E ± 3.9km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

ML 1.9 (TTG).

TTG 0.17 148 iPgc 34 56.99 0.0
iSg 34 59.61

NKY 0.26 337 iPgc 34 58.78 0.1
iSg 35 02.49

BDV 0.37 218 iPgc 35 00.79 0.0
iSg 35 06.18

HCY 0.49 255 iPg 35 03.13 0.0
iSg 35 10.12

BRY 0.55 307 iPg 35 04.06 -0.2
iSg 35 12.18

PVY 0.62 88 iPg 35 05.66 0.0
iSg 35 14.83

ULC 0.62 172 ePg 35 05.59 0.0
iSg 35 14.51

IVA 0.63 62 iPg 35 05.89 0.0
iSg 35 15.32

PLE 0.78 14 iPg 35 08.39 0.0
iSg 35 20.11

S.D. = 0.1 on 9 of 9 obs.

FEB 23, 1993 09h 48m 41.60± 0.36s
54.359 N ± 5.5km 161.026 W ± 4.4km
DEPTH = 19.8km (6 depth phases)

ALASKA PENINSULA (12)

Felt at King Cove.

SDN 1.03 17 iPc 49 02.00 1.4
KDC 5.86 51 ePc 50 07.70 -1.8
SVW 7.36 21 eP 50 32.30 1.7
RSO 7.57 33 eP 50 33.95 0.2
CP2 8.35 31 eP 50 43.78 -0.9
CRP 8.38 31 eP 50 43.60 -1.4
SLKM 8.47 39 eP 50 44.74 -1.4
TTA 8.98 15 eP 50 54.00 0.8
PMS 9.21 37 eP 50 53.80 -2.6X
PMR 9.60 36 eP 51 00.70 -1.0
ADK 9.74 262 eP 51 02.30 -1.2
KLU 10.73 42 eP 51 13.55 -3.7X
BALM 11.99 49 eP 51 30.51 -3.9X
IMA 12.29 14 eP 51 39.10 0.8
0.9s 3.80nm 4.6mb
FBA 12.48 27 eP 51 39.50 -1.2
0.4s 5.40nm 5.1mb

SIT 14.70 69 eP 52 06.94 -3.1X
ILT 15.94 335 eP 52 35.00 9.0X
BRW 17.11 5 eP 52 41.54 0.8
PET 23.69 283 eP 53 53.00 0.5
0.8s 70.00nm 5.3mb

e 54 40.00
JCW 24.97 88 P 54 06.09 1.1
YKA 25.11 52 eP 54 06.00 -0.1
0.6s 4.10nm 4.3mb

FMW 25.76 90 P 54 14.21 1.6
LON 25.77 91 eP 54 13.70 1.2
e 54 57.18

SKR 26.05 280 eP 54 09.50 -5.5X
0.9s 160.00nm 5.7mb
MGD 26.20 302 eP 54 18.50 2.2
0.8s 20.00nm 4.8mb

Z 16s 0.80um 4.4msz X
E 14s 0.50um

e 55 05.00
e 59 56.00

WTV 26.37 88 P 54 18.42 0.3
SAW 26.69 87 P 54 21.20 0.2
VBEM 26.83 94 P 54 22.47 0.1
WAH2 27.09 89 P 54 24.90 0.4
NEW 27.75 84 eP 54 30.47 -0.1
0.5s 9.65nm 4.8mb

e 55 11.99
LNOR 28.31 90 P 54 35.57 -0.1
MCMT 32.07 87 iPd 55 09.10 -0.2
RES 32.37 27 eP 55 12.00 0.7
BONR 33.23 102 eP 55 19.60 0.1
TIK 33.68 327 eP 55 28.00 5.3X
1.0s 9.00nm 4.7mb
Z 16s 0.60um 4.4msz X

e 55 38.00
HVU 33.93 92 eP 55 25.40 -0.1
epP 55 31.25 20km

DUG 34.92 94 eP 55 33.67 -0.2
0.5s 1.96nm 4.3mb
BW06 35.20 88 iPd 55 35.71 -0.7
0.6s 8.62nm 4.8mb

YSS 35.54 282 eP 55 45.10 6.2X
YAK 35.64 311 eP 55 38.30 -1.3
0.7s 38.00nm 5.4mb
Z 18s 0.80um 4.5msz
N 18s 0.80um

DAU 35.69 92 eP 55 40.75 0.1
e 56 23.78

FCC 35.76 55 eP 55 43.00 2.4
ARUT 36.15 97 eP 55 44.59 0.2
e 56 27.23

EMUT 36.33 93 eP 55 45.84 -0.2
MSU 36.40 95 eP 55 46.56 0.0
e 56 28.93

SRU 36.96 93 ePd 55 51.41 0.2
epP 55 56.71 18km
e 56 33.71

PLM 37.33 106 eP 55 55.04 0.6
RSSD 37.61 82 eP 55 56.08 -0.6
0.7s 5.81nm 4.5mb

ULM 38.78 68 ePc 56 08.70 2.6
GOL 39.59 88 eP 56 13.59 0.2
0.6s 14.81nm 4.9mb
epP 56 19.32 19km
e 56 54.38

GLD 39.65 88 eP 56 14.34 0.6
0.8s 22.00nm 4.9mb
e 56 57.52

23d 12h

IMA	26.79	27	eP	02 10.10	1.6	LDF	39.95	239	eP	04 01.80	-0.8		0.8s	6.00nm	4.6mb		
	1.9s	56.20nm			4.9mb		0.8s	10.05nm			4.5mb	SRU	54.08	347	eP	05 52.45	-1.3
NB2	27.02	229	P	02 09.80	-0.8	GRR	40.19	240	eP	04 03.70	-0.8	MSU	54.69	349	eP	05 57.76	-0.6
	0.9s	15.70nm			4.7mb		0.8s	9.65nm			4.5mb	TNP	55.17	354	eP	06 01.59	-0.2
NUR	27.07	215	eP	02 11.00	0.1	HAU	40.25	232	eP	04 05.20	0.1		1.0s	7.57nm		4.7mb	
	0.4s	4.70nm			4.5mb		0.8s	13.05nm			4.7mb	BONR	55.30	355	eP	06 02.85	0.0
Z	16s	1.00um			4.5MsZ	Z	21s	0.47um			4.3MsZ		e		06 36.28		
		LR	19 30.00			BSF	40.41	232	eP	04 07.30	0.8	ACO	56.29	336	iPd	06 07.80	-1.9
HFS	27.83	226	eP	02 16.30	-1.5		0.8s	17.20nm			4.8mb	ALQ	58.18	343	eP	06 22.02	-1.2
	1.1s	17.40nm			4.7mb	LPF	40.56	240	eP	04 07.10	-0.4		1.3s	6.64nm		4.5mb	
FBA	28.09	22	eP	02 20.93	0.7	WTTA	40.78	227	iPc	04 11.30	1.7	UYO	58.71	331	iPc	06 25.40	-1.3
	1.0s	5.80nm			4.3mb	KBA	40.89	225	iPc	04 12.90	2.3	GKN	59.46	151	P	06 31.00	-1.2
TTA	29.88	29	eP	02 38.00	1.6		0.8s	10.90nm			4.6mb		1.0s	30.00nm		5.4mb	
	0.8s	13.20nm			4.8mb							GUN	59.59	149	P	06 32.00	-1.3
SVE	30.30	175	ePc	02 39.50	-0.5	LOR	41.10	235	eP	04 11.50	-0.5		1.0s	32.00nm		5.4mb	
Z	18s	1.10um			4.5MsZ		0.8s	5.65nm			4.3mb	KKN	59.69	150	P	06 32.60	-1.2
N	18s	1.00um				Z	18s	0.68um			4.6MsZ	DMN	59.87	150	P	06 34.00	-1.1
E	18s	1.00um				SSF	41.32	235	eP	04 13.40	-0.4	PKI	59.91	150	P	06 34.00	-1.5
		e	03 32.70				0.9s	9.15nm			4.5mb	TUC	60.87	347	ePd	06 41.19	-0.4
MGD	30.46	80	(P)	02 37.00	-4.4X	LBF	41.37	235	eP	04 14.60	0.3	CHTO	69.06	136	eP	07 30.60	-4.1X
ARU	30.70	177	eP	02 44.00	0.4		0.7s	6.40nm			4.5mb	GBA	73.62	158	P	08 00.00	-1.9X
	Z	18s	1.50um		4.7MsZ	AVF	41.59	235	eP	04 15.70	-0.4	BCAO	83.16	218	iPc	08 57.00	2.8X
	N	18s	0.50um			SMF	41.72	235	eP	04 17.20	0.1		1.6s	52.00nm		5.5mb	
E	16s	0.50um				BGF	41.85	236	eP	04 18.00	-0.2					09 03.50	
							1.2s	38.10nm			5.0mb		S.D. = 1.0	on 84 of 97 obs.			
YKA	30.71	352	eP	02 41.80	-1.8	MFF	41.94	239	eP	04 18.90	0.0						
	0.8s	1.80nm			4.0mb		1.2s	19.95nm			4.7mb		& FEB 23, 1993	12h 20m 46.49s			
BOD	30.80	118	eP	02 41.10	-3.3X	TCF	42.15	237	eP	04 20.40	-0.3		60.750 N	147.283 W			
	2.3s	116.00nm			5.4mb	MAF	42.20	236	eP	04 20.90	-0.1		DEPTH =	41.5km			
PWA	31.31	24	eP	02 49.60	0.8		1.0s	12.40nm			4.6mb		2.5mb (1 obs.)				
SVW	31.71	29	eP	02 53.50	1.0	LSF	42.22	237	eP	04 20.80	-0.4		SOUTHERN ALASKA			(2)	
OBN	32.19	201	eP	02 57.50	0.9		0.9s	8.50nm			4.5mb		<AEIC>. ML 2.6 (AEIC).				
	1.9s	70.00nm			5.3mb	LPL	42.72	232	eP	04 26.20	0.6	HIN	0.52	132	iPc	20 57.04	-0.6
	Z	18s	1.90um		4.8MsZ	LPG	42.74	232	eP	04 26.60	0.8		S		21 05.81		
N	16s	1.60um				SES	42.80	348	eP	04 26.00	0.0	VLZ	0.60	50	iPd	20 57.66	-1.0
E	18s	0.70um				RJF	43.16	237	eP	04 28.60	-0.3		S		21 06.36		
		eS	08 16.00				1.1s	24.40nm			4.9mb	CVA	0.78	104	iPc	21 00.46	-0.7
MNK	33.61	211	eP	03 03.00	-5.9X	PYA	43.16	194	eP	04 32.00	3.0X		S		21 11.78		
FCC	34.11	332	eP	03 14.00	0.7		Z	16s	2.00um		5.1MsZ	PTE	0.86	278	iPc	21 01.17	-1.1
ELT	34.30	148	iPc	03 15.50	0.5						06 08.00		eS		21 12.73		
	1.0s	18.00nm			4.9mb	KIV	43.25	194	(P)	04 36.90	7.2X	KLU	1.00	41	iPd	21 03.37	-0.9
Z	16s	0.80um			4.5MsZ	CAF	43.51	237	eP	04 31.40	-0.4		eS		21 16.54		
N	16s	1.20um					1.0s	9.00nm			4.5mb	MPA	1.06	257	iPc	21 03.95	-1.1
E	16s	0.70um				LFF	43.56	238	eP	04 32.10	0.0		eS		21 18.04		
		eS	08 44.00			LPO	43.80	237	eP	04 34.30	0.3	SCM	1.09	359	iPc	21 04.66	-0.9
		e	10 55.00			GRO	43.82	191	iP+	04 38.00	3.8X	SML	1.18	335	iPc	21 06.03	-0.8
IRK	35.93	129	eP	03 18.00	-10.9X		Z	14s	1.00um		4.9MsZ	PMS	1.22	295	iPc	21 06.42	-0.9
	Z	20s	0.66um		4.4MsZ		N	14s	1.50um				eS		21 22.13		
		e	04 49.00				E	17s	2.00um			PLRM	1.23	314	iPc	21 06.60	-0.9
UER	36.24	139	iPc	03 30.80	-0.6						06 18.00		eS		21 22.24		
	2.2s	30.00nm			4.8mb						06 56.00		ePc		21 06.52		-1.3
		eS	09 07.00			FRU	44.45	160	(P)	04 41.00	1.6		eS		21 22.37		
MOY	36.38	132	eP	03 33.50	0.9		2.8s	170.00nm			5.4mb	GHO	1.30	323	iPc	21 07.89	-0.6
CLL	36.68	226	iP	03 35.90	0.7		Z	19s	2.20um		5.1MsZ		eS		21 25.57		
BRG	37.08	225	eP	03 38.50	0.0		N	19s	2.20um			RAGM	1.34	105	eP	21 08.14	-0.9
MOX	37.40	227	eP	03 42.00	0.8						11 21.00	SLKM	1.47	262	iPc	21 09.72	-1.2
	1.6s	58.00nm			5.1mb						14 40.00	PWA	1.55	307	ePc	21 11.64	-0.3
Z	19s	0.50um			4.3MsZ	NEW	44.99	354	eP	04 44.02	0.3	TZL	1.58	34	eP	21 12.94	0.5
		e	03 44.60		0.3		1.1s	22.49nm			5.0mb	KAIM	1.65	119	P	21 14.10	0.7
ZAK	37.77	130	eP	03 44.60	0.3							GLB	1.82	66	ePc	21 15.15	-0.8
	2.5s	64.00nm			4.9mb	EPF	45.48	238	eP	04 47.00	-0.7		eS		21 37.09		
Z	15s	0.98um			4.7MsZ	LON	46.52	358	eP	04 55.99	0.2	SUA	1.83	295	eP	21 14.71	-1.4
N	15s	0.67um				ERE	46.99	192	eP	04 53.00	-6.7X	NKA	1.94	272	eP	21 17.73	0.1
E	15s	1.34um				LCCM	47.37	349	eP	05 03.00	0.3	SDG	1.97	24	eP	21 18.08	0.1
		eS	09 37.00			GRS	47.66	190	eP	05 05.00	0.0	CROM	2.03	88	eP	21 17.78	-1.4
PRU	37.94	224	P	03 47.90	2.1		Z	14s	0.54um		4.7MsZ	TGL	2.19	88	eP	21 19.75	-1.5
	Z	19s	1.00um		4.6MsZ		N	17s	0.56um			CNPM	2.33	240	eP	21 21.52	-1.7
N	19s	0.70um					E	17s	0.75um			SPU	2.37	283	ePc	21 21.62	-2.1
E	18s	0.40um									06 56.00	SKT	2.39	303	ePc	21 22.14	-1.9
GRF	38.37	228	ePd	03 50.30	0.9	BJI	48.67	118	eP	05 12.56	-0.1	CPAM	2.42	284	ePc	21 22.91	-1.6
	0.9s	17.00nm			4.8mb		2.0s	124.00nm			5.6mb	CRP	2.43	284	eP	21 23.11	-1.6
Z	18s	0.50um			4.4MsZ		Z	18s	0.70um		4.7MsZ	BALM	2.				

YKA 15.54 69 eP 24 25.80 1.8
0.6s 0.20nm 2.5mb
43 obs. associated

* FEB 23, 1993 12h 34m 33.46±0.97s
6.632 S ±15.1km 149.392 E ±11.5km
DEPTH = 76.9 ± 21.0 km
4.4mb (3 obs.)

NEW BRITAIN REGION, P.N.G. (192)

YYYY 3.42 276 eP 35 25.90 0.2
PMG 3.53 219 iPd 35 27.00 -0.1
eS 36 06.00
RAB 3.67 49 eP 35 29.00 0.0
WB2 19.71 226 iPd 38 59.20 -0.3
0.6s 15.00nm 4.5mb
i 39 12.50

RMO 19.76 182 eP 39 00.40 0.4
0.7s 22.00nm 4.6mb
BRS 20.89 172 iP 39 11.50 -0.2
ASPA 22.55 220 eP 39 31.80 3.7X
0.7s 3.40nm 3.9mb
S.D. = 0.4 on 6 of 7 obs.

? FEB 23, 1993 13h 08m 51.20±5.12s
42.543 N ±39.9km 23.606 E ±16.6km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

KKB 0.78 210 ePg 09 06.00 -0.4
PLD 0.92 118 iPg 09 08.00 -0.8
MMB 0.96 175 ePg 09 10.00 0.5
RZN 1.19 136 iP 09 13.00 -0.5
KDZ 1.62 123 eP 09 21.00 1.2
BZS 3.39 336 ePc 10 24.00 38.8X
S.D. = 1.2 on 5 of 6 obs.

FEB 23, 1993 13h 11m 14.11±0.71s
26.861 S ± 6.5km 26.670 E ± 8.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.9 (BUL).

PRY 0.72 96 eP 11 27.00 -1.5
S 11 34.00

KSR 1.01 12 iPc 11 34.50 0.6
S 11 47.00

SEK 1.69 150 iPd 11 45.50 1.0
S 12 05.50

SLR 1.83 53 iPd 11 48.00 1.4
S 12 10.00

BLF 2.28 191 iPd 11 53.70 0.6
S 12 27.00

FRS 3.11 202 iPd 12 05.30 0.5
S 12 37.20

BFT 3.25 70 eP 12 07.00 0.1
S 12 53.00

BUL 6.92 15 iPnd 12 58.00 -0.8
iSn 14 15.00
iSg 14 50.00

CIR 7.35 39 iPn 13 04.50 -0.3
iSn 14 23.00
iSg 14 59.00

CER 9.10 223 eP 13 21.00 -8.1X
S 15 04.00

WIN 9.69 294 eP 13 28.50 -9.0X
S 15 04.00

BLE 9.86 223 eP 13 38.00 -1.5
S 15 26.00

MTD 11.02 25 iPn 13 50.00 -5.6X
eSn 15 37.50
iSg 16 46.00

BCAO 32.09 345 iPc 17 50.00 5.5X
0.6s 6.00nm 4.7mb

TIC 45.30 313 P 19 39.70 4.8X
S.D. = 1.2 on 10 of 15 obs.

? FEB 23, 1993 13h 15m 16.54±0.88s
5.480 S ± 9.8km 144.036 E ± 9.8km
DEPTH = 60.6 ± 27.0 km

NEW GUINEA, PAPUA NEW GUINEA (202)

MNDI 0.77 209 iPd 15 31.90 -0.1

MDG 1.75 83 eP 15 44.40 -0.6

WWKK 1.89 347 eP 15 47.20 0.2

YYYY 2.07 112 eP 15 50.20 0.6

WB2 17.19 212 eP 19 14.10 -0.1

ASPA 20.55 207 iPd 20 09.90 17.3X
0.9s 4.00nm
S.D. = 0.9 on 5 of 6 obs.

* FEB 23, 1993 13h 31m 29.44±2.51s
8.640 S ± 7.1km 123.205 E ±11.5km
DEPTH = 89.0 ± 27.3 km
5.3mb (11 obs.)

FLORES REGION, INDONESIA (286)

MTN 8.84 119 eP 33 35.30 -1.1
eS 35 07.00

TLE 9.93 73 ePc 33 52.00 0.8
WB2 15.58 137 eP 35 02.40 -2.9X
eS 37 44.90

KKM 16.17 334 ePd 35 18.50 5.7X
ASPA 18.12 147 iPd 35 36.50 -0.3

Z 18s 0.10um
eS 38 43.90
iScS 47 06.50

MEEK 18.42 193 iPd 35 40.10 -0.5
0.3s 45.00nm 5.2mb
eS 38 58.00

FORT 22.49 169 eP 36 21.00 -1.3
BAL 22.68 195 iPd 36 24.90 0.7
0.5s 104.00nm 5.5mb

KLB 23.39 192 eP 36 31.70 0.6
0.4s 36.00nm 5.1mb

PMG 23.67 94 eP 36 34.00 0.1
MUN 24.11 195 eP 36 39.00 0.9
eS 41 11.00

CTA 25.02 120 eP 36 47.50 0.6
RKG 26.43 192 eP 37 00.40 0.8

RMO 30.03 129 eP 37 35.00 2.8X
e 44 02.00

CMS 30.98 140 eP 37 40.20 -0.3
0.6s 2.00nm 4.0mb X

BFD 33.38 151 eP 38 01.50 0.2
KHT 33.72 313 eP 38 07.00 2.5

KMI 39.04 330 eP 38 51.00 1.5
1.8s 50.00nm 5.1mb
sP 39 06.50

MAT 47.10 17 eP 39 51.00 -3.3X
0.8s 20.15nm 5.0mb

LZH 48.08 339 eP 40 03.00 0.9
1.0s 37.00nm 5.2mb

GBA 50.52 296 P 40 19.00 -1.9X
GUN 51.22 316 P 40 25.40 -1.1

PKI 51.32 316 P 40 26.00 -1.3
0.6s 32.00nm 5.5mb

KKN 51.55 316 P 40 28.00 -0.9
0.6s 33.00nm 5.5mb

DMN 51.56 316 P 40 27.40 -1.6
0.6s 32.00nm 5.5mb

GKN 52.13 316 P 40 32.00 -1.2
0.4s 21.00nm 5.5mb

YAK 70.62 3 eP 42 34.00 -2.8X
0.8s 30.00nm 5.2mb

YKA 112.13 25 ePKP 49 52.10 -3.6X
0.9s 0.40nm

UNM 137.63 71 (Pd) 47 46.00 -8.5X
YJA 148.21 165 ePKPd 51 07.00 2.5X

CNCB 152.40 156 ePKP 51 15.00 3.9X
i 51 19.30

LPB 152.60 156 (PKP) 51 15.00 3.8X
ZOBO 152.81 156 ePKP 51 16.00 4.2X

S.D. = 1.2 on 21 of 33 obs.

FEB 23, 1993 14h 00m 34.80±0.98s
58.658 N ± 9.5km 143.390 W ± 3.2km
DEPTH = 10.0km (geophysicist)

GULF OF ALASKA (15)

ML 2.6 (AEIC), 2.4 (PGC).

KAIM 1.38 338 eP 01 00.49 0.5

CYK 1.50 18 eP 01 02.52 0.8
eS 01 19.72

SNH 1.55 10 eP 01 03.06 0.5
eS 01 20.76

MID 1.71 298 P 01 06.50 1.8

RAGM 1.85 340 eP 01 07.07 0.1

YAH 1.91 25 eP 01 08.21 0.4

CROM 2.11 3 eP 01 10.71 -0.1

TGL 2.12 7 eP 01 10.92 0.0
eS 01 35.33

PCA 2.16 47 iP 01 11.55 0.2
S 01 35.70

CVA 2.24 329 eP 01 11.99 -0.5

PNL 2.29 62 eP 01 13.01 -0.3

BCPM 2.32 54 eP 01 13.61 -0.1
S 01 41.20

HIN 2.36 319 eP 01 14.38 0.2

BALM 2.44 12 eP 01 15.39 -0.1
eS 01 42.07

HON 2.46 69 eP 01 15.17 -0.5
S 01 44.10

CTGM 2.54 23 eP 01 17.18 0.4

GLB 2.80 356 eP 01 20.16 -0.4
eS 01 51.71

VLZ 2.89 330 eP 01 21.03 -0.6

KLU 3.11 337 eP 01 24.58 -0.3

MPA 3.55 304 eP 01 30.09 -0.9

SCM 3.74 330 eP 01 33.56 -0.3

SLKM 3.94 301 eP 01 35.96 -0.6

SML 4.01 324 eP 01 36.99 -0.6

PMS 4.04 313 P 01 38.90 0.8

GHO 4.17 321 eP 01 40.19 0.3

PAX 4.45 348 eP 01 43.39 -0.5

SPU 5.04 304 eP 01 52.92 0.7

SKT 5.24 313 eP 01 54.31 -0.7
S.D. = 0.6 on 28 of 28 obs.

? FEB 23, 1993 14h 35m 00.00±1.92s
47.109 N ±37.2km 153.908 E ±24.4km
DEPTH = 33.0km (normal)

5.0mb (11 obs.)
KURIL ISLANDS (221)

KUSJ 7.64 242 eP 36 45.10 -6.7X
eS 38 08.90

ASAJ 8.44 253 eP 37 02.10 -0.8

MAT 15.73 233 (P) 38 43.00 2.3X

FBA 35.54 39 eP 41 55.80 0.3
0.9s 3.33nm 4.3mb

LZH 38.42 272 eP 42 21.00 0.8
1.2s 26.00nm 4.9mb

YKA 50.31 37 eP 43 54.00 -0.9
1.1s 0.90nm 3.7mb X

GUN 55.51 275 P 44 34.20 -0.3
0.6s 9.00nm 5.0mb

KKN 56.00 276 P 44 38.00 0.2
0.8s 30.00nm 5.4mb

PKI 56.05 275 P 44 38.20 -0.2
0.8s 16.00nm 5.1mb

DMN 56.23 276 P 44 40.00 0.4
0.8s 46.00nm 5.6mb

GKN 56.30 276 P 44 40.00 0.1
0.8s 46.00nm 5.6mb

NUR 65.11 335 eP 45 38.00 -1.1

NB2 68.06 341 P 45 56.70 -1.2
0.9s 7.30nm 4.8mb

HFS 68.31 340 eP 45 58.50 -0.9
0.6s 11.40nm 5.1mb

CLL 76.36 336 iP 46 47.90 0.8

GRF 78.31 336 eP 46 59.40 1.4
0.8s 11.00nm 4.9mb

GEC2 78.37 334 P 46 58.60 0.2
0.6s 0.75nm 3.9mb X

KBA 80.06 334 iPd 47 09.30 1.6
1.2s 13.00nm 4.8mb

S.D. = 0.9 on 16 of 18 obs.

? FEB 23, 1993 15h 09m 06.37±1.65s
43.291 N ±27.7km 148.004 E ±28.7km
DEPTH = 33.0km (normal)

4.0mb (4 obs.)
EAST OF KURIL ISLANDS (222)

ADMJ 6.31 247 eP 10 39.80 0.3

OFUJ 6.37 231 eP 10 39.80 -0.5
eS 11 48.80

GKN 52.52 275 P 18 19.80 1.0

YKA 55.84 34 eP 18 43.00 0.6
0.4s 0.20nm 3.5mb

NB2 70.25 339 P 20 17.60 -0.2
0.7s 2.20nm 4.3mb

HFS 70.35 338 eP 20 18.00 -0.3
0.4s 2.00nm 4.5mb

GEC2 79.86 331 P 21 12.10 -0.9
0.5s 0.32nm 3.6mb

e 21 21.90

e 21 26.60

e 21 31.70

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

FEB 23, 1993 15h 20m 31.15±0.79s
47.845 N ± 8.1km 86.293 E ± 18.6km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)
NORTHERN XINJIANG, CHINA (332)

GKN	19.85	184	P	25	03.60	1.3
GUN	19.90	181	P	25	02.60	-0.5
	0.6s	10.00nm			4.3mb	
KKN	20.04	183	P	25	04.00	-0.3
PKI	20.25	182	P	25	06.60	-0.1
MAIO	22.88	250	eP	25	32.00	-0.8
KAF	35.83	316	iP	27	29.40	0.3
	0.6s	3.70nm			4.5mb	
NUR	36.81	313	eP	27	37.50	0.2
	0.9s	11.60nm			4.8mb	
HFS	42.21	315	eP	28	22.30	0.2
	0.7s	8.30nm			4.6mb	
NB2	43.11	317	P	28	29.80	0.3
	0.7s	4.30nm			4.3mb	
YKA	68.75	10	eP	31	32.60	-0.6
	0.4s	0.20nm			3.5mb	

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

FEB 23, 1993 15h 29m 55.20±1.16s
32.595 S ± 6.1km 71.539 W ± 8.9km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.2 (SAN).

IHA	0.44	191	iPc	30	04.40	0.3
			i(S)	30	12.30	
ROCH	0.58	130	iPd	30	07.84	0.7
JACH	0.80	96	iPd	30	10.25	-0.6
			iS	30	24.06	
LCCH	0.88	182	iPd	30	11.38	-0.7
			iS	30	26.79	
PEL	0.90	128	iPd	30	12.61	0.1
			iS	30	28.17	
SAN	1.13	140	iP	30	16.25	-0.1
			iS	30	35.98	
TACH	1.17	155	iP	30	16.88	-0.2
FCH	1.28	125	iP+	30	18.53	-0.6
			iS	30	39.64	
PCH	1.34	140	iP	30	19.77	-0.1
			iS	30	42.08	
LNK	1.36	176	eP	30	19.57	-0.6
			iS	30	41.13	
CHCH	1.53	151	iP+	30	22.86	0.3
			iS	30	47.20	
CACH	1.71	153	eP	30	26.54	1.2
			iS	30	52.98	
MDZ	2.28	98	iP	30	36.20	2.6X
			i	30	38.30	
ZON	2.64	67	eP	30	39.60	0.9
RTCV	2.65	75	ePc	30	39.40	0.7
			S	31	18.00	
RTLL	2.90	65	ePc	30	41.50	-0.8
			S	31	18.50	
CFA	2.97	72	e(P)	30	43.20	-0.1
			S	31	25.00	
RFA	3.36	131	eP	30	49.30	0.5
MRA	4.93	89	e(P)	31	10.30	-0.7
			S	32	10.70	
TCA	6.04	80	iPd	31	23.30	-3.4X
			(S)	32	32.50	

S.D. = 0.7 on 18 of 20 obs.

FEB 23, 1993 15h 32m 48.36±0.69s
33.280 S ± 6.3km 68.776 W ± 6.7km
DEPTH = 10.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)
MD 4.5 (SAN). Felt (III) at Mendoza.

MDZ	0.40	351	iP	32	56.30	-0.3
			iS	33	00.80	
FCH	1.27	267	iP	33	10.60	-1.6
RTCV	1.43	8	iPc	33	14.50	0.1
			S	33	34.50	
PCH	1.49	256	iP	33	14.48	-0.8
RFA	1.51	170	iP	33	15.30	-0.2
SAN	1.59	263	iPd	33	16.27	-0.3
PEL	1.61	274	iP+	33	16.28	-0.6
			iS	33	37.48	
JACH	1.64	291	iPd	33	16.88	-0.5

CHCH	1.70	247	iPd	33	18.19	0.0
			iS	33	40.61	
CFA	1.73	15	e(P)	33	19.20	0.5
			S	33	41.60	
ZON	1.73	3	iPc	33	19.60	0.9
			eS	33	45.60	
CACH	1.73	241	iP	33	18.98	0.1
			iS	33	42.80	
TACH	1.84	258	iPd	33	20.47	0.1
			iS	33	44.68	
ROCH	1.90	279	iPd	33	21.50	0.2
			iS	33	45.61	
RTLL	1.96	8	iPd	33	22.50	0.4
LNK	2.30	252	iP	33	27.75	0.9
LCCH	2.35	264	iP	33	28.56	1.0
IHA	2.42	275	ePc	33	30.30	1.8
			iS	34	01.30	
MRA	2.72	72	e(P)	33	37.20	4.3X
RTRS	3.15	349	iPd	33	40.50	1.5
			S	34	25.50	
RTPR	3.54	34	e(P)d	33	44.70	0.3
FSA	7.56	19	e(P)	34	39.00	-2.3
CNCB	16.42	3	P	36	42.00	1.0
LPB	16.69	2	(P)	36	42.00	-2.3
ZOBO	16.93	2	eP	36	46.00	-1.5
			LR	43	00.00	
SIV	18.57	24	P	37	09.00	1.6
ALO	76.51	329	eP	44	40.50	0.1
	0.9s	1.07nm			3.9mb	

S.D. = 1.1 on 26 of 27 obs.

FEB 23, 1993 16h 08m 16.42±0.54s
12.828 N ± 7.2km 146.585 E ± 13.6km
DEPTH = 33.0km (normal)
5.2mb (8 obs.)

SOUTH OF MARIANA ISLANDS (210)

NMCC	2.46	340	eP	08	57.00	1.9
			e(S)	09	19.00	
PMG	22.10	178	eP	13	23.00	12.4X
MAT	24.78	344	(P)	13	32.00	-4.7X
MTN	29.76	212	eP	14	22.00	-0.3
CTA	32.71	181	iP	14	49.00	0.8
WB2	34.72	200	eP	15	05.40	-0.2
	0.7s	33.10nm			5.4mb	
BJI	38.08	321	eP	15	32.50	-1.3
ASPA	38.33	199	iPd	15	36.70	0.6
	0.5s	22.80nm			5.3mb	
RMO	39.14	177	eP	15	33.80	-9.0X
BRS	40.43	171	iP	15	54.00	0.5
KMI	43.04	293	eP	16	16.50	1.2
	1.0s	40.00nm			5.1mb	
STK	44.71	186	eP	16	28.10	-0.2
	0.6s	2.00nm			4.2mb X	
LZH	44.80	309	eP	16	29.50	0.2
	1.5s	40.00nm			5.1mb	
		sP	16	42.50		
NST	45.05	279	eP	16	35.50	4.3X
BAL	51.87	213	iPd	17	23.90	-0.1
KLB	52.11	211	eP	17	25.30	-0.4
	0.6s	13.00nm			5.1mb	
MUN	53.21	212	iPc	17	33.70	-0.2
GUN	58.33	295	P	18	11.00	-0.4
	0.8s	21.00nm			5.3mb	
PKI	58.73	295	P	18	13.60	-0.6
KKN	58.85	295	P	18	14.20	-0.7
DMN	59.00	295	P	18	15.60	-0.4
	0.8s	21.00nm			5.3mb	
GKN	59.43	295	P	18	18.20	-0.6
	0.6s	15.00nm			5.3mb	
HYB	65.54	283	eP	19	06.50	7.0X
GBA	67.10	279	P	19	18.00	8.6X
MAIO	80.21	305	eP	20	32.00	6.4X
YKA	82.76	28	eP	20	35.70	-2.5
	0.7s	0.80nm			3.9mb X	
KAF	92.09	336	eP	21	28.60	5.2X
KIC	145.72	302	PKP	27	56.00	1.8
ZOBO	146.25	100	PKPc	27	56.20	0.4
LPB	146.27	101	ePKP	27	55.00	-0.6
CNCB	146.38	101	PKP	27	56.80	0.9
SIV	153.04	100	ePKP	28	08.00	2.6X

S.D. = 1.0 on 23 of 32 obs.

FEB 23, 1993 16h 39m 54.82±0.54s
39.781 N ± 6.5km 25.509 E ± 3.1km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
MD 3.4 (ISK). ML 3.3 (THE).

EZN	0.63	86	iPg	40	05.90	-1.6
			eSg	40	13.90	
ALN	1.19	20	ePg	40	16.35	-0.6
			eSg	40	33.00	
OUR	1.30	296	ePbd	40	18.66	-0.1
			eSb	40	31.88	
PAIG	1.42	276	ePbd	40	19.98	-0.6
			eSb	40	38.60	
KDZ	1.87	358	iPc	40	27.00	-0.1
EDC	1.89	72	ePn	40	27.00	-0.5
BNT	1.94	72	iPn	40	28.90	0.8
SOH	1.95	303	ePb	40	28.16	-0.2
			eSb	40	52.12	
SRS	1.98	313	ePb	40	28.16	-0.6
			eSb	40	51.80	
RZN	2.00	343	eP	40	29.00	-0.2
THE	2.13	294	ePn	40	30.76	-0.1
			eSn	40	56.04	
KCT	2.24	77	ePn	40	32.90	0.4
MMB	2.26	324	ePg	40	35.00	2.2
DIM	2.27	0	ePg	40	36.00	3.1X
LIT	2.34	279	ePn	40	34.40	0.4
			eSn	41	02.24	
PLD	2.40	346	eP	40	36.00	1.3
DST	2.41	93	iPn	40	34.70	-0.3
KNT	2.42	306	ePn	40	34.28	-0.8
AGG	2.58	254	ePn	40	37.44	0.1
			eSn	41	08.80	
CTT	2.61	58	ePn	40	38.90	1.1
GRG	2.65	297	ePn	40	38.84	0.5
			eSn	41	09.96	
DMK	2.66	39	ePn	40	39.00	0.5
VAY	2.72	305	iPn	40	47.60	8.3X
JMB	2.80	16	eP	40	47.00	6.5X
PGB	2.95	340	eP	40	42.00	-0.5
			eS	53	29.00	
YLV	3.06	74	ePn	40	45.00	0.8
VTS	3.30	329	eP	40	48.00	-7.7X
PVL	3.43	358	eP	40	48.00	-1.4
MLR	5.72	3	eP	41	24.50	2.6X
CVO	6.06	4	eP	41	26.00	-0.6

S.D. = 0.9 on 25 of 30 obs.

FEB 23, 1993 16h 51m 53.98±0.39s
41.147 N ± 4.9km 20.031 E ± 3.6km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 3.4 (TTG). 3.1 (THE).

OHR	0.58	93	iPg	52	04.30	-1.5
	0.5s	741.00nm				
			iSg	52	13.60	
			Lg	52	15.80	
ULC	1.00	325	iPg	52	11.90	-1.1
			iSg	52	28.35	
FNA	1.08	109	ePg	52	13.50	-0.9
			eSg	52	29.12	
SKO	1.34	52	iPn	52	19.60	0.9
	0.5s	141.00nm				
			i	52	21.80	
			iSg	52	36.10	
			i	52	39.00	
			Lg	52	40.50	
TTG	1.41	336	iPg	52	18.56	-1.0
			iSg	52	41.15	
PVY	1.45	358	iPg	52	19.41	-0.9
			iSg	52	42.45	
BDV	1.45	322	iPg	52	20.84	0.6
			iSg	52	42.77	
IVA	1.73	357	iPnc	52	24.90	0.6
			iSn	52	50.74	
HCY	1.73	319	iPnd	52	24.97	0.7
			iSn	52	50.09	
GRG	1.80	95	ePb	52	26.01	0.7
			eSb	52	49.52	
NKY	1.83	336	iPnd	52	26.36	0.5
			iSn	52	53.34	
BRY						

THE	2.28	102	ePn	52 33.00	0.7	PKI	79.48	303	P	52 16.60	0.4	CYK	2.46	124	eP	50 20.79	-2.1	
			eSn	53 00.88		GKN	79.50	303	P	52 16.80	0.7	MCK	2.48	335	eP	50 23.00	-0.2	
SOH	2.54	96	ePn	52 35.60	-0.3	DMN	79.60	303	P	52 17.60	0.8	TRF	2.60	320	eP	50 24.16	-0.9	
SRS	2.69	89	ePn	52 38.36	0.3		S.D. = 1.0	on	11	of	12	obs.	YAH	2.62	114	eP	50 23.61	-1.8
			eSn	53 10.60			* FEB 23, 1993	18h	30m	17.88±	3.00s	SPU	2.67	265	ePc	50 24.39	-1.5	
AGG	2.76	140	ePn	52 40.80	1.7		43.525 N ±22.3km		20.204 E ±12.7km			CPAM	2.70	267	ePc	50 25.51	-0.8	
			eSn	53 14.84			DEPTH = 10.0km		(geophysicist)			CRP	2.70	267	eP	50 24.71	-1.8	
MMB	2.82	80	eP	52 45.00	5.1X		NORTHWESTERN BALKAN REGION		(383)			CKN	2.72	266	eP	50 25.95	-0.7	
ORI	2.93	250	P	52 51.50	10.0X		ML 2.3 (TTG).					CKT	2.74	266	eP	50 25.50	-1.4	
PAIG	3.04	112	ePn	52 42.00	-0.9							CP2	2.74	267	ePn	50 25.99	-1.1	
			eSn	53 21.40		PLE	0.62	252	iPgd	30 29.32	-1.1	CKL	2.80	266	eP	50 26.41	-1.4	
OUR	3.11	104	ePn	52 43.64	-0.3				iSg	30 40.08		BGL	2.82	267	eP	50 26.58	-1.4	
			eSn	53 22.60		IVA	0.69	199	iPgd	30 30.82	-0.8	HDA	2.91	357	eP	50 28.29	-0.9	
MGR	3.55	255	P	52 50.60	0.3				iSg	30 42.32		CNPM	3.05	231	ePc	50 30.11	-1.2	
RZN	3.56	80	ePg	52 55.00	4.4X	PVY	0.95	190	iPgc	30 35.00	-1.0	DFR	3.12	255	eP	50 30.88	-1.4	
SGO	3.63	262	P	52 50.50	-0.9				iSg	30 50.05		CCB	3.19	350	eP	50 30.94	-2.3	
BZS	4.61	14	eP	53 05.00	-0.3	NKY	1.13	231	iPgc	30 39.39	0.2	RSO	3.20	253	eP	50 32.11	-1.4	
SDI	4.71	279	P	53 06.20	-0.6				iSg	30 57.75		RDW	3.21	254	eP	50 32.53	-1.2	
VBY	5.58	323	ePn	53 18.20	-0.8	TTG	1.30	213	iPgc	30 41.99	0.1	NCT	3.24	256	eP	50 31.90	-2.2	
	S.D. = 0.9	on	26	of	30				iSg	31 02.67		NEA	3.28	341	eP	50 32.60	-1.9	
						BRY	1.36	243	iPgc	30 42.98	-0.1	FBA	3.44	351	eP	50 36.13	-0.7	
	FEB 23, 1993	17h	24m	59.61±	0.48s				iSg	31 04.58		INW	3.53	249	eP	50 36.79	-1.5	
	39.792 N ± 6.0km		25.540 E ± 2.7km			BDV	1.60	220	iPnc	30 47.84	1.5	MDM	3.54	348	eP	50 37.81	-0.4	
	DEPTH = 5.9 ± 2.3 km					ULC	1.71	205	iSn	31 11.64		PDB	4.14	249	eP	50 45.34	-1.3	
	AEGEAN SEA				(365)				iPnc	30 49.23	1.3	SVW	4.39	269	P	50 47.40	-2.9	
	MD 3.4 (ISK). ML 3.2 (THE).								iSn	31 14.33		TTA	4.64	292	eP	50 51.00	-3.0	
EZN	0.61	87	iPg	25 11.50	-0.2	SKO	1.80	149	eP	30 49.00	-0.2	IMA	5.55	329	eP	51 04.10	-2.7	
			eSg	25 19.50			S.D. = 1.1	on	9	of	9					60	obs. associated	
ALN	1.17	19	ePgc	25 21.78	0.0		& FEB 23, 1993	18h	49m	43.85s			* FEB 23, 1993	19h	41m	31.09±	0.81s	
			eSg	25 38.50			61.515 N		146.563 W				20.906 N ±16.4km		122.366 E ±14.6km			
OUR	1.31	295	ePbc	25 24.14	-0.1		DEPTH = 28.3km						DEPTH = 33.0km (normal)					
PAIG	1.44	276	ePbd	25 25.33	-0.9		SOUTHERN ALASKA		(2)				4.8mb (5 obs.)					
			eSb	25 39.14			<AEIC>. ML 3.4 (AEIC). 3.4						PHILIPPINE ISLANDS REGION			(248)		
KDZ	1.86	357	iP	25 32.00	-0.3		(PMR).						CHTO	22.13	269	ePc	46 26.90	1.4
EDC	1.87	72	ePn	25 32.00	-0.4	KLU	0.31	94	iPc	49 50.83	-0.6			0.8s	9.52nm		4.3mb	
BNT	1.91	72	iPn	25 32.90	-0.1				iS	49 56.63		GUN	33.86	289	P	48 13.20	-0.1	
SOH	1.96	302	ePbc	25 33.57	-0.3	VLZ	0.40	164	iPc	49 51.63	-1.0			0.6s	13.00nm		5.0mb	
			eSb	25 56.66					eS	49 57.99		PKI	34.25	289	P	48 16.20	-0.5	
SRS	1.99	312	ePbc	25 33.69	-0.5	SCM	0.48	312	iPc	49 53.24	-0.8	KKN	34.38	289	P	48 17.20	-0.4	
			eSb	25 56.14		TZL	0.76	45	iPc	49 57.33	-1.1			0.8s	15.00nm		5.0mb	
RZN	1.99	342	iPc	25 34.00	-0.4	SML	0.89	290	iPc	49 58.82	-1.7	DMN	34.52	289	P	48 18.80	-0.1	
THE	2.14	294	ePn	25 35.66	-0.7				eS	50 10.64		GKN	34.96	289	P	48 22.00	-0.5	
			eSn	26 01.70		CVA	1.05	157	iPc	50 01.19	-1.5	WRA	42.26	163	P	49 23.20	0.1	
KCT	2.21	77	ePn	25 37.40	0.0				eS	50 16.15				0.5s	5.50nm		4.5mb	
DIM	2.26	360	eP	25 41.00	3.0X	HIN	1.12	178	iPc	50 02.71	-1.0	ASPA	45.71	165	iPd	49 50.60	-0.4	
MMB	2.26	323	eP	25 38.00	-0.2				S	50 18.08				0.6s	11.00nm		5.0mb	
LIT	2.36	278	ePn	25 39.98	0.4	SDG	1.12	25	ePc	50 02.39	-1.4	YKA	85.55	23	eP	54 07.50	0.6	
			eSn	26 07.50					eS	50 16.64				0.6s	0.30nm		3.7mb X	
DST	2.39	93	iPn	25 38.60	-1.4	GHO	1.16	284	iPc	50 02.96	-1.3		S.D. = 0.7	on	9	of	9	obs.
KNT	2.44	305	ePn	25 40.10	-0.5				eS	50 18.25			* FEB 23, 1993	19h	50m	52.89±	1.79s	
			eSn	26 09.78		PLRM	1.23	275	iPc	50 04.43	-0.8		41.390 N ±14.7km		19.441 E ±13.2km			
CTT	2.59	58	ePn	25 43.90	1.2				eS	50 20.82			DEPTH = 10.0km (geophysicist)				(391)	
AGG	2.60	254	ePn	25 43.82	0.8	PMR	1.23	275	iPd	50 04.07	-1.1		ALBANIA					
			eSn	26 13.58					eS	50 20.38			ML 2.4 (TTG).					
DMK	2.63	39	ePn	25 44.00	0.6	GLB	1.32	92	iPc	50 04.76	-1.8							
GRG	2.66	297	ePn	25 43.86	0.0				eS	50 22.54		ULC	0.59	346	iPgc	51 03.88	-1.0	
			eSn	26 15.18		PTE	1.36	242	iPc	50 06.46	-0.6				iSg	51 13.50		
VAY	2.73	305	iPn	25 53.00	8.2X				S	50 24.28		BDV	1.00	333	iPgc	51 11.65	-0.2	
KKB	2.79	319	eP	25 48.00	2.4X	RAGM	1.46	140	eP	50 07.44	-1.1				iSg	51 27.09		
PGB	2.94	340	iP	25 47.00	-0.8	PMS	1.47	261	P	50 08.30	-0.4	TTG	1.05	353	iPgc	51 12.47	-0.1	
YLV	3.04	74	ePn	25 49.00	-0.2	PAX	1.55	19	iPc	50 08.47	-1.4				iSg	51 28.72		
VTS	3.30	329	eP	25 54.00	0.9				eS	50 28.04		OHR	1.06	105	iPg	51 12.70	-0.2	
PVL	3.43	357	eP	25 53.00	-1.6	PWA	1.59	276	ePc	50 10.40	0.0				iSg	51 29.80		
	S.D. = 0.7	on	24	of	27	MPA	1.71	234	eP	50 11.35	-0.7	PVY	1.27	18	iPgd	51 16.33	-0.2	
									S	50 33.10					iSg	51 35.90		
? FEB 23, 1993	17h	40m	11.25±	2.86s		CROM	1.83	113	eP	50 12.95	-1.1	NKY	1.46	347	iPgd	51 19.78	0.4	
	53.885 N ±65.4km		163.583 W ±28.9km						S	50 36.65					iSg	51 41.68		
	DEPTH = 33.0km (normal)					KAIM	1.91	146	P	50 14.30	-0.8	IVA	1.52	13	iPgd	51 20.87	0.7	
	4.3mb (4 obs.)					THY	1.95	11	eP	50 15.67	0.1				iSg	51 43.34		
	UNIMAK ISLAND REGION				(10)	TGL	1.96	111	ePc	50 14.27	-1.7	BRY	1.65	336	iPnc	51 22.54	0.4	
									eS	50 39.01					iSn	51 46.57		
SDN	2.31	50	eP	40 47.38	-0.4	SEW	2.00	226	eP	50 15.91	-0.4	PLE	1.94	359	iPnc	51 26.60	0.3	
ADK	8.18	261	eP	42 09.05	-1.4	SUA	2.01	270	ePc	50 15.81	-0.8				iSn	51 53.28		
KLU	12.11	44	eP	42 59.62	-4.7X	SLKM	2.05	242	eP	50 16.71	-0.4		S.D. = 0.6	on	9	of	9	obs.
YKA	26.59	51	eP	45 47.60	-0.2	HUR	2.06	317	eP	50 16.43	-0.7		FEB 23, 1993	20h	05m	53.05±	0.71s	
	0.9s	1.80nm		3.7mb		BALM	2.09	101	iPc	50 15.99	-1.8		39.690 N ±11.4km		25.555 E ± 3.9km			
HFS	66.31	1	eP	50 56.10	-1.8				eS	50 42.27			DEPTH = 10.0km (geophysicist)				(365)	
	0.4s	1.60nm		4.5mb		MID	2.10	177	eP	50 20.30	2.6		AEGEAN SEA					
EKA	69.96	12	P	51 21.00	0.3	RND	2.18	332	ePc	50 18.07	-0.9		MD 3.2 (ISK). ML 3.0 (THE).					
	2.1s	33.00nm		5.0mb		SNH	2.26	125	eP	50 19.75	-0.4	EZN	0.61	77	iPg	06 04.10	-1.2	
GEC2	77.62	2	P	52 05.90	0.5	NKA	2.40	253	eP	50 23.15	1.2	ALN	1.26	17	ePb	06 15.36	-1.1	
	0.7s	1.29nm		4.1mb		SKT	2.41	283	ePc	50 20.99	-1.2				iSg	06 12.60		
GUN	78.96	302	P	52 13.80	0.3				S	50 50.19								
KKN	79.36	303	P	52 16.20	0.8	DOT	2.43	27	eP	50 21.85	-0.7							

23d 20h

OUR	1.37	299	eSb	06 31.96	
			ePbc	06 17.53	-0.6
PAIG	1.46	280	eSb	06 35.30	
			ePbc	06 18.84	-0.6
			eSb	06 38.36	
EDC	1.89	69	ePn	06 27.00	1.3
BNT	1.93	69	ePn	06 27.70	1.4
SOH	2.03	305	ePn	06 28.40	0.7
			eSn	06 57.12	
SRS	2.07	314	ePn	06 28.00	-0.3
			eSn	06 57.56	
THE	2.20	296	ePn	06 30.60	0.5
			eSn	06 58.48	
KCT	2.22	75	ePn	06 31.20	0.7
DST	2.37	91	ePn	06 31.50	-1.2
LIT	2.39	281	ePn	06 33.72	0.8
			eSn	07 02.64	
KNT	2.51	307	ePn	06 33.80	-0.7
			eSn	07 08.36	
AGG	2.59	256	ePn	06 34.76	-0.9
GRG	2.72	299	ePn	06 37.60	-0.1
			eSn	07 13.32	
VAY	2.80	307	ePn	06 48.00	9.3X
FNA	3.38	290	ePn	06 48.32	1.3

S.D. = 1.0 on 16 of 17 obs.

FEB 23, 1993 20h 11m 18.53±0.49s
 41.179 N ± 5.0km 22.028 E ± 3.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.4 (THE), 2.0 (SKO).

GRG	0.36	128	ePgc	11 25.85	-0.1
			eSg	11 31.14	
VAY	0.43	71	iPg	11 27.40	0.1
			iSg	11 33.40	
FNA	0.63	232	ePgc	11 30.78	-0.5
			eSg	11 39.42	
KNT	0.66	91	ePg	11 31.28	-0.4
			eSg	11 39.98	
THE	0.90	127	ePg	11 34.70	-1.0
			eSg	11 47.06	
SKO	0.91	331	iPgc	11 36.00	0.1
	0.4s	65.00nm	iSg	11 48.00	
			Lg	11 51.00	
OHR	0.93	266	iPg	11 36.30	0.0
			iSg	11 49.70	
SOH	1.06	109	ePg	11 38.42	-0.2
			eSg	11 54.30	
LIT	1.13	162	ePg	11 39.58	-0.2
			eSg	11 56.74	
SRS	1.18	92	ePbc	11 40.46	-0.1
			eSb	11 56.30	
OUR	1.71	119	ePb	11 49.48	1.0
			eSb	12 13.30	
PAIG	1.77	134	ePb	11 50.02	0.6
			eSb	12 13.50	
AGG	2.17	174	ePn	11 55.86	0.7

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

FEB 23, 1993 20h 24m 16.04±0.94s
 43.396 N ± 5.8km 5.426 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.5 (STR).

GELF	0.01	176	Pg	24 17.77	-0.2
BERF	0.21	113	Pg	24 20.77	0.1
TREF	0.23	352	Pg	24 20.16	-0.8
PUYF	0.24	56	Pg	24 19.87	-1.3
PRAF	0.45	335	Pg	24 25.28	0.1
VILF	0.50	25	Pg	24 25.36	-0.9
TAVF	0.51	64	Pg	24 25.74	-0.6
GANF	0.70	30	Pg	24 28.96	-0.9
CALN	1.12	71	Pg	24 38.34	1.2
TOUF	1.46	64	Pn	24 42.27	-0.3
			Sg	25 03.72	
AURF	1.46	70	Pn	24 42.61	0.0
			Sg	25 04.46	
SBF	1.53	72	Pn	24 43.85	0.3
AUTN	1.57	67	Pn	24 43.96	-0.3
			Sg	25 06.88	
SAOF	1.65	68	Pn	24 45.54	0.3
DOI	1.72	49	P	24 47.50	1.3
			eSg	25 11.70	
BNI	1.88	28	P	24 51.40	2.7

CKI	2.30	63	eSn	25 13.00	
			P	24 55.10	0.4
PGF	2.76	107	eSn	25 25.30	
			Pn	25 00.08	-1.1
S.D. = 1.1 on 18 of 18 obs.					
& FEB 23, 1993 20h 42m 19.15s					
62.155 N 150.422 W					
DEPTH = 5.5km					
CENTRAL ALASKA (1)					
<AEIC>. ML 3.1 (AEIC), 3.3 (PMR).					

CUT	0.26	16	iP	42 24.67	0.2
			eS	42 28.67	
SKT	0.55	252	iP	42 30.06	-0.1
			S	42 38.76	
PWA	0.57	153	P	42 31.10	0.6
SUA	0.71	193	iP	42 33.72	0.4
			iS	42 44.92	
GHO	0.81	118	eP	42 34.26	-1.0
			iS	42 46.04	
PLRM	0.83	132	iP	42 35.15	-0.5
			S	42 47.22	
PMR	0.83	132	iPc	42 34.87	-0.8
			eLg	42 46.87	
HUR	0.90	23	eP	42 35.17	-1.7
			eS	42 46.68	
PMS	1.00	155	P	42 38.20	-0.4
SML	1.05	109	iP	42 38.36	-1.0
			eS	42 53.24	
CGLM	1.14	222	eP	42 41.37	0.5
			S	42 56.85	
CRP	1.21	224	eP	42 41.11	-1.2
			eSg	42 58.25	
CPAM	1.22	223	eP	42 42.02	-0.3
			S	42 59.26	
CP2	1.25	225	ePn	42 41.87	-1.0
SPU	1.25	219	eP	42 41.79	-1.0
CKN	1.26	223	eP	42 42.96	0.0
CKT	1.28	222	eP	42 43.12	-0.3
			S	43 00.23	
BGL	1.30	227	eP	42 43.49	-0.2
TRF	1.30	3	eP	42 42.27	-1.5
CKL	1.33	224	eP	42 43.75	-0.4
RND	1.45	29	eP	42 43.95	-2.1
			eS	43 03.29	
PTE	1.46	152	eP	42 45.95	-0.1
NKA	1.47	196	eP	42 47.78	1.6
SCM	1.50	101	eP	42 45.32	-1.4
			eS	43 05.10	
SLKM	1.66	177	eP	42 47.99	-1.0
MCK	1.72	23	eP	42 49.29	-0.6
			eS	43 10.82	
MPA	1.75	163	eP	42 50.67	0.4
			S	43 13.82	
RDT	1.85	212	eP	42 52.33	0.5
DFR	1.91	216	eP	42 52.66	0.0
NCT	2.00	218	eP	42 54.24	0.2
RDW	2.04	216	eP	42 54.28	-0.3
RS2	2.04	215	eP	42 54.83	0.2
			eS	43 23.04	
RSO	2.04	215	eP	42 55.02	0.4
			eS	43 22.31	
RS1	2.04	215	eP	42 55.14	0.5
			eS	43 23.38	
SEW	2.11	167	eP	42 56.79	1.3
VLZ	2.21	116	eP	42 56.99	0.1
KLU	2.24	105	eP	42 57.12	-0.3
SDG	2.31	79	iP	42 57.62	-0.8
TZL	2.35	90	eP	42 57.56	-1.4
PAX	2.44	68	eP	42 59.55	-0.7
INE	2.46	213	eP	43 00.89	0.2
HIN	2.59	131	eP	43 02.11	-0.2
CNPM	2.67	189	eP	43 04.17	0.7
SVW	2.70	249	ePn	43 01.86	-2.1
			eLg	43 43.61	
TTA	2.70	289	(Pn)	43 02.36	-1.7
			ePg	43 09.24	
			eSg	43 41.70	
FBA	3.00	22	ePn	43 05.16	-2.9
			eLg	43 50.45	
GLB	3.22	100	eP	43 11.14	-0.2
BALM	4.02	103	ePn	43 21.24	-1.5
IMA	4.18	341	ePn	43 21.94	-3.1
			eSg	44 25.28	

49 obs. associated

? FEB 23, 1993 21h 34m 06.96±0.90s
 47.265 N ±14.1km 11.332 E ± 5.6km
 DEPTH = 5.0km (geophysicist)
 AUSTRIA (546)

ML 0.9 (VIE).

SQTA	0.10	242	iPgc	34 09.20	0.0
			iSg	34 10.70	
MOTA	0.17	297	iPg	34 10.60	0.0
			iSg	34 13.90	
WATA	0.18	67	iPgc	34 10.80	0.1
			iSg	34 14.10	
WTTA	0.21	90	iPgc	34 11.20	-0.1
			iSg	34 14.30	

S.D. = 0.1 on 4 of 4 obs.

* FEB 23, 1993 21h 40m 53.16±0.66s
 46.935 N ±13.7km 154.425 E ±11.2km
 DEPTH = 33.0km (normol)
 4.6mb (15 obs.)
 EAST OF KURIL ISLANDS (222)

KUSJ	7.88	244	eP	42 42.70	-5.5X
			eS	44 05.10	
ASAJ	8.74	255	eP	42 59.80	-0.4
HOOU	9.15	244	eP	43 05.20	-0.6
FBA	35.46	38	eP	47 47.00	-0.9
	0.8s	7.36nm	i	47 58.91	
YKA	50.24	37	eP	49 46.90	-0.6
	0.5s	0.50nm		3.8mb	
GUN	55.88	276	P	50 30.00	-0.3
KKN	56.36	276	P	50 34.00	0.3
PKI	56.42	276	P	50 34.20	0.0
DMN	56.60	276	P	50 35.80	0.4
GKN	56.67	277	P	50 35.40	-0.4
	0.4s	9.00nm		5.2mb	
8GMT	60.96	54	ePd	51 05.10	-0.3
			e	51 16.80	
KAF	63.65	336	eP	51 21.40	-1.4
	0.6s	3.90nm		4.7mb	
NUR	65.42	335	eP	51 32.90	-1.4
	0.5s	6.00nm		4.9mb	
NB2	68.34	342	P	51 51.70	-1.1
	0.7s	1.90nm		4.3mb	
HFS	68.59	340	eP	51 52.80	-1.5
	0.4s	2.00nm		4.6mb	
WRA	68.99	200	P	51 57.30	0.1
	0.6s	3.40nm		4.6mb	
ASPA	72.68	200	eP	52 19.40	0.0
	0.7s	5.40nm		4.7mb	
LTX	76.62	61	iPd	52 42.18	-0.1
			i	52 53.87	
CLL	76.66	336	eP	52 43.00	1.0
PRU	77.41	335	eP	52 56.00	9.8X
KHC	78.46	335	eP	52 52.50	0.5
			e	53 04.40	
GEC2	78.68	335	PKP	52 52.90	-0.4
	0.6s	0.45nm		3.7mb	
			e	52 54.60	
			e	53 04.00	
			e	53 05.60	
LOR	82.71	340	eP	53 17.50	2.9X
	0.7s	2.55nm		4.4mb	
SSF	82.99	340	eP	53 19.00	3.0X
	0.6s	2.55nm		4.5mb	
AVF	83.28	340	eP	53 20.00	2.5
	0.6s	2.00nm		4.4mb	
SMF	83.30	340	eP	53 20.10	2.5
LPL	83.65	338	eP	53 22.50	2.8X
	0.8s	3.10nm		4.5mb	
LPG	83.66	338	eP	53 22.60	2.8X
MAF	84.00	341	eP	53 24.00	2.8X
	0.8s	4.45nm		4.7mb	
LFF	85.62	342	eP	53 31.30	2.0

S.D. = 1.2 on 23 of 30 obs.

& FEB 23, 1993 21h 45m 22.64s					
58.918 N		152.136 W			
DEPTH = 53.4km					
KODIAK ISLAND REGION					(13)
<AEIC>. ML 3.2 (AEIC).					
XLV	0.58	21	eP	45 34.39	-0.8
			eS	45 43.75	
CNPM	0.77	37	ePd	45 36.76	-0.8

23d 21h

AUE	0.78	305	eS	45 47.90	
CDD	0.78	272	ePc	45 37.27	-0.3
			eS	45 36.95	-0.8
AUI	0.79	303	eP	45 48.33	-0.5
			eS	45 37.30	-0.5
AUW	0.82	304	eP	45 48.33	-0.5
OPT	0.93	323	eP	45 37.70	-0.5
			S	45 39.02	-0.6
BRLK	1.06	37	eP	45 52.43	
			S	45 40.60	-0.9
MCNL	1.17	284	ePc	45 55.27	
			eS	45 42.07	-0.9
KDC	1.19	189	P	45 56.64	
			S	45 45.20	2.0
INE	1.24	338	eP	46 04.00	
			eS	45 43.06	-1.0
INW	1.26	337	eP	45 59.22	
			S	45 43.74	-0.6
POB	1.37	311	ePc	45 58.51	
			eS	45 44.64	-1.1
RS1	1.58	349	eP	46 01.58	
			eS	45 48.12	-0.7
RSO	1.58	349	eP	46 08.51	
			S	45 48.04	-0.9
RS2	1.58	349	eP	46 08.40	
			S	45 48.11	-0.8
REF	1.60	350	eP	46 08.23	
			eS	45 48.32	-0.9
RDW	1.61	348	eP	46 07.82	
			eS	45 48.39	-0.9
RDN	1.63	349	eP	46 08.66	
			S	45 48.67	-0.9
RDT	1.67	355	eP	46 08.79	
NCT	1.70	347	ePd	45 49.17	-0.8
			eS	45 49.71	-0.7
DFR	1.70	351	ePd	46 10.71	
SEW	1.81	48	ePd	45 49.43	-1.1
			eS	45 49.94	-2.0
SLKM	1.87	30	eP	46 10.54	
NKA	1.89	14	ePd	45 51.03	-1.7
MPA	2.11	41	eP	45 53.40	0.4
SPU	2.27	1	ePd	45 54.70	-1.4
CKL	2.29	358	ePd	45 57.24	-1.2
CKT	2.29	359	ePd	45 57.88	-0.9
CKN	2.31	359	ePd	45 57.67	-1.1
CPAM	2.34	360	ePd	45 58.30	-0.8
CP2	2.35	359	ePd	45 58.67	-0.9
BGL	2.36	357	ePd	45 59.03	-0.8
CRP	2.36	360	ePd	45 59.21	-0.5
PTE	2.50	37	eP	45 58.94	-0.8
SUA	2.65	15	eP	45 58.92	-1.8
PMS	2.67	28	P	46 02.39	-1.5
SVW	2.81	323	eP	46 02.40	-1.7
PWA	2.96	21	P	46 05.33	-0.8
PLRM	3.07	28	eP	46 07.10	-1.2
SKT	3.09	5	eP	46 07.33	-2.5
HIN	3.22	60	eP	46 08.57	-1.5
GHO	3.28	28	ePd	46 09.40	-2.6
SML	3.46	31	eP	46 10.52	-2.3
VLZ	3.66	50	eP	46 12.94	-2.4
SCM	3.77	37	eP	46 15.17	-2.9
KLU	4.04	48	eP	46 17.57	-2.2
TRF	4.64	10	eP	46 20.93	-2.5
GLB	4.87	55	eP	46 30.38	-1.6
BALM	5.36	62	eP	46 31.99	-3.2
YAH	5.47	70	eP	46 38.51	-3.6
			eP	46 41.31	-2.4

51 obs. associated

FEB 23, 1993 21h 49m 15.42±0.69s					
27.970 S ± 4.9km 66.662 W ± 11.1km					
DEPTH = 189.1 ± 15.9 km					
CATAMARCA PROVINCE, ARGENTINA (130)					
CYA	0.90	122	iPd	49 43.50	-0.2
FSA	1.97	17	iPd	49 53.10	0.0
			(S)	50 18.00	
RTRS	3.29	228	iPd	50 08.80	0.4
			S	50 49.50	
SLA	3.39	18	ePd	50 09.50	-0.5
RTLL	3.70	205	iP	50 09.50	-0.1
			S	50 13.50	-0.1
TCA	3.81	152	iPd	50 56.00	0.1
			(S)	50 15.20	0.1
CFA	3.87	200	ePc	50 54.00	0.1
			S	50 15.90	0.1
RTCV	4.21	202	iPd	50 59.80	-0.5
			S	50 19.60	-0.5

MRA	4.50	170	e(P)	50 08.00	0.3
			S	50 24.10	0.3
HJA	4.87	14	iPd	50 08.80	
MDZ	5.25	201	e(P)	50 29.00	0.5
YJA	5.87	11	ePd	50 34.90	1.4
PEL	6.21	213	iP	50 42.00	0.0
RFA	6.95	192	eP	50 45.50	-0.6
			S	50 55.00	-0.8
			S	52 00.80	
S.D. = 0.6 on 14 of 14 obs.					
& FEB 23, 1993 21h 56m 43.01s					
34.001 N 116.284 W					
DEPTH = 3.1km					
SOUTHERN CALIFORNIA (43)					
<PAS>. ML 2.7 (PAS).					
PEC	0.74	262	ePc	56 56.72	-1.0
			S	57 05.92	
PLM	0.81	217	eP	56 58.09	-1.0
			S	57 08.87	
SSK	1.19	281	eP	57 05.00	-0.9
			S	57 21.37	
GSC	1.37	342	eP	57 07.94	-1.0
			S	57 27.08	
GLA	1.54	127	ePn	57 09.38	-2.1
			ePg	57 11.40	
			S	57 32.79	
5 obs. associated					
FEB 23, 1993 23h 38m 35.95±0.60s					
38.273 N ± 5.1km 22.697 E ± 6.7km					
DEPTH = 10.0km (geophysicist)					
GREECE (364)					
ML 3.0 (ATH), 3.0 (THE).					
AGG	0.80	339	ePg	38 50.36	-1.2
			eSg	39 02.56	
ATH	0.86	110	ePb	38 53.80	1.3
VLI	1.56	173	ePb	39 02.50	-1.3
VLS	1.66	267	ePb	39 05.80	0.5
PAIG	1.82	25	ePbc	39 07.02	-0.5
			eSb	39 31.44	
LIT	1.83	355	ePb	39 07.72	0.0
			eSb	39 33.12	
OUR	2.29	25	ePn	39 13.68	-0.6
			eSn	39 44.20	
THE	2.37	5	ePn	39 15.28	-0.1
			eSn	39 45.24	
SOH	2.60	11	ePn	39 18.44	-0.3
GRG	2.69	355	ePn	39 20.20	0.1
			eSn	39 54.44	
FNA	2.71	338	ePn	39 21.04	0.7
			eSn	39 53.64	
KNT	2.89	3	ePn	39 23.16	0.3
			eSn	39 57.52	
SRS	2.92	13	ePn	39 22.88	-0.4
			eSn	39 59.60	
VAY	3.05	358	ePn	39 25.40	0.4
OHR	3.19	333	ePn	39 28.00	0.8
SKO	3.82	346	ePn	39 46.00	9.9X
S.D. = 0.8 on 15 of 16 obs.					
FEB 23, 1993 23h 41m 13.42±1.77s					
31.251 S ± 15.9km 179.190 E ± 18.3km					
DEPTH = 464.7 ± 18.3 km					
4.5mb (3 obs.)					
KERMADEC ISLANDS REGION (177)					
PUZ	6.85	186	eP	42 59.50	1.5
			eS	44 20.80	
URZ	7.20	193	eP	43 01.20	-0.5
WLZ	7.24	203	eP	43 05.40	3.3X
NOZ	7.41	187	eP	43 04.50	0.6
MNG	9.82	197	eP	43 28.30	-1.8
ORZ	10.97	208	eP	43 43.10	0.6
THZ	11.64	204	eP	43 49.40	-0.5
KHZ	12.03	200	eP	43 53.30	-0.5
DSZ	12.04	207	eP	43 54.20	0.1
LTZ	12.76	204	eP	44 01.70	-0.1
DZM	14.60	306	iPd	44 20.00	-1.1
BRS	23.33	273	eP	45 47.00	1.6
CTA	31.58	283	eP	46 53.00	-5.0X
ASPA	40.67	269	iPd	48 13.20	-0.1
			0.3s	7.40nm	4.6mb
WB2	41.72	275	iPc	48 21.30	-0.5
			0.4s	19.40nm	4.9mb

WRA	41.73	275	P	e	48 44.90	0.6
	0.8s			2.60nm		3.7mb
KAF	144.49	338	iPKP	ePKP	59 51.60	-4.8X
	0.6s			5.60nm		
NUR	146.22	338	ePKP	ePKP	59 57.80	-1.5
	0.4s			2.20nm		
BCAO	147.71	218	ePKP	ePKP	00 05.90	2.7X
	0.7s			6.00nm		
NB2	149.17	349	PKP		00 05.00	0.9
	0.7s			1.60nm		
HFS	149.53	346	ePKP	ePKP	00 05.20	0.7
	0.4s			0.90nm		
S.D. = 1.1 on 17 of 21 obs.						
FEB 23, 1993 23h 51m 51.44±1.00s						
37.724 N ± 8.1km 21.438 E ± 7.1km						
DEPTH = 10.0km (geophysicist)						
SOUTHERN GREECE (368)						
ML 3.5 (ATH), 3.3 (THE).						
VLS	0.81	304	ePg		52 06.00	-1.1
AGG	1.47	28	ePbc		52 17.21	-0.8
			eSb		52 40.68	
VLI	1.56	130	ePb		52 19.50	0.2
ATH	1.82	81	ePb		52 23.50	0.5
			eSb		52 48.00	
IGT	2.00	335	ePn		52 27.08	1.4
LIT	2.51	19	ePn		52 33.92	1.0
			eSn		53 06.68	
KZN	2.59	6	ePn		52 35.00	0.8
PAIG	2.81	38	ePn		52 36.84	-0.4
			eSn		53 12.04	
FNA	3.06	359	ePn		52 41.32	0.6
			eSn		53 17.72	
THE	3.14	22	ePn		52 42.08	0.3
			eSn		53 21.48	
OUR	3.27	36	ePn		52 44.00	0.2
			eSn		53 24.16	
GRG	3.31	13	ePn		52 43.52	-0.9
			eSn		53 26.32	
OHR	3.42	352	ePn		52 45.20	-0.7
SOH	3.43	25	ePn		52 45.16	-0.9
KNT	3.61	18	ePn		52 49.02	0.4
VAY	3.70	13	iPn		52 51.00	1.2
SRS	3.78	26	ePn		52 50.24	-0.7
			eSn		53 37.44	
SKO	4.24	0	ePn		53 02.00	4.5X
ALN	4.78	47	ePn		53 04.04	-1.1
S.D. = 0.9 on 18 of 19 obs.						
FEB 24, 1993 00h 31m 22.74±0.49s						
17.577 N ± 8.1km 62.586 W ± 6.2km						
DEPTH = 115.1 ± 6.6 km						
3.7mb (1 obs.)						
LEEWARD ISLANDS (92)						
MD 3.6 (TRN). Felt (III) on						
Sabo.						
NEV	0.44	178	iP		31 39.73	-0.3
			eS		31 51.48	
CPB	0.73	85	iP		31 42.09	0.0
			eS		31 56.13	
BPA	0.87	127	iP		31 42.90	-0.5
			eS		31 56.98	
MGH	0.92	157	eP		31 43.90	0.0
			S		32 00.40	
SEG	1.56	138	iPd		31 51.32	0.4
PAG	1.77	150	eP		31 54.10	0.5
DOG	1.79	149	iPd		31 54.28	0.4
MGG	2.05	143	ePc		31 57.72	0.7
FDF	3.15	154	eP		32 11.37	-0.2
			S		32 48.10	
CPD	3.20	279	iP		32 12.30	-0.1
LPR	3.21	284	iP		32 12.30	-0.2
CRM	3.23	150	ePc		32 11.99	-0.8
BIM	3.37	154	iPc		32 14.67	0.0
MVM	3.42	151	iPc		32 14.87	-0.4
SJG	3.44	279	i(P)		32 15.80	0.3
PORP	3.89	278	iP		32 21.70	0.1
YKA	57.43	334	eP		41 01.30	0.0
	0.5s				0.40nm	3.7mb
S.D. = 0.4 on 17 of 17 obs.						
? FEB 24, 1993 01h 13m 36.46±1.94s						
5.822 S ±13.4km 146.299 E ±24.7km						
DEPTH = 37.6 ± 17.5 km						

24d 01h

3.7mb (2 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY 0.53 218 iPc 13 48.00 0.3
MDG 0.77 318 iPd 13 50.80 0.0
PMG 3.66 167 eP 14 32.00 -0.1
WB2 18.22 219 eP 17 47.50 -0.8
0.4s 2.40nm 3.7mb
ASPA 21.38 213 eP 18 23.80 0.7
1.1s 3.90nm 3.7mb
S.D. = 1.1 on 5 of 5 obs.

* FEB 24, 1993 01h 58m 08.21±0.55s
1.168 N ±10.5km 129.382 E ±13.4km
DEPTH = 31.6km (2 depth phases)
5.0mb (11 obs.)
HALMAHERA, INDONESIA (267)

TNE 2.08 260 iPc 57 58.10 -43.5X
iS 58 11.80
MNI 4.55 273 ePc 59 17.50 0.8
MKS 11.76 237 iPc 00 26.00 -30.9X
MTN 14.03 173 eP 01 22.30 -4.8X
0.4s 33.00nm 5.4mb
WB2 21.54 167 iPc 02 55.90 -1.2
0.9s 12.60nm 4.3mb
eS 06 16.70
ASPA 25.07 170 eP 03 33.40 1.8
1.4s 25.00nm 4.6mb
Z 19s 0.50um 4.0msz
eS 08 09.70
ePcS 10 34.30
RMO 33.25 147 eP 04 50.20 5.3X
STK 34.85 162 iPd 04 58.70 0.1
0.4s 5.60nm 4.8mb
eS 08 54.90
KMI 35.05 315 eP 05 01.50 0.7
1.5s 40.00nm 5.1mb
pP 05 09.50 27km
CMS 36.03 156 eP 05 07.30 -1.4
MAT 36.13 12 (P) 05 11.00 1.5
1.0s 12.00nm 4.8mb
BRS 36.23 143 iP 05 08.50 -2.0
ARMA 37.89 148 iPd 05 25.90 1.4
1.0s 59.00nm 5.4mb
BFD 40.06 164 eP 05 43.60 1.3
BJI 40.51 344 eP 05 45.00 -1.0
2.0s 87.00nm 5.2mb
LZH 42.05 329 eP 05 59.50 0.6
1.5s 67.00nm 5.1mb
Z 15s 0.44um 4.5mszX
pP 06 10.00 36km
sP 06 14.00
GUN 49.37 307 P 06 56.60 -0.9
0.8s 20.00nm 5.2mb
PKI 49.61 306 P 06 59.40 0.1
KKN 49.80 306 P 07 00.20 -0.4
DMN 49.87 306 P 07 00.40 -0.8
GKN 50.41 306 P 07 01.40 -3.8X
HYB 52.49 291 eP 07 20.00 -0.9
YKA 100.70 25 ePdiff11 57.50 3.0X
0.8s 0.60nm 4.2mb
S.D. = 1.2 on 17 of 23 obs.

TNE 2.11 257 iPd 45 17.40 -1.2
iS 45 49.00
MNI 4.55 272 ePd 45 54.00 0.6
DAV 6.92 327 eP 46 32.00 5.3X
TLE 7.64 154 eP 46 31.50 -5.3X
MKS 11.82 237 ePd 47 33.80 -0.5
KKM 13.98 290 eP 48 12.00 9.0X
MTN 14.13 173 eP 47 59.00 -6.0X
0.4s 77.00nm 5.7mb
BAG 17.37 330 eP+ 48 45.00 -1.7
GUMO 19.60 51 e(P) 49 14.00 0.4
GUA 19.61 51 e(P) 49 11.20 -2.5
WB2 21.64 167 eP 49 32.60 -2.0
0.6s 24.00nm 4.8mb
eS 53 18.40
ASPA 25.17 170 iPd 50 08.90 -0.2
1.2s 36.10nm 4.8mb
eS 54 31.20
CTA 26.91 143 iPd 50 26.00 0.9
Z 21s 17.92um 5.6msz
eS 55 06.00
SSE 30.66 346 eP 50 59.00 0.3
Z 30s 2.30um 4.7mszX
N 10s 0.90um
E 10s 1.00um

RMO 33.33 147 iPc 51 22.50 0.4
CHTO 34.57 302 eP 51 33.00 0.1
STK 34.94 162 eP 51 34.90 -1.1
0.4s 9.90nm 5.1mb
eS 57 03.20
KMI 34.99 315 eP 51 38.00 1.3
1.2s 30.00nm 5.1mb
Z 20s 1.60um 4.8msz
N 12s 0.60um
E 12s 0.80um

RMO 33.33 147 iPc 51 22.50 0.4
CHTO 34.57 302 eP 51 33.00 0.1
STK 34.94 162 eP 51 34.90 -1.1
0.4s 9.90nm 5.1mb
eS 57 03.20
KMI 34.99 315 eP 51 38.00 1.3
1.2s 30.00nm 5.1mb
Z 20s 1.60um 4.8msz
N 12s 0.60um
E 12s 0.80um

MAT 36.03 12 (P) 51 49.00 3.8X
0.9s 11.76nm 4.8mb
Z 20s 1.77um 4.8msz
eS 57 22.00
CMS 36.12 156 eP 51 56.00 10.0X
BRS 36.31 143 iP 51 47.00 -0.7
1.2s 5.00nm 4.3mb
e 52 21.00
eS 57 36.00
ADE 37.09 167 ePc 51 55.10 1.0
ARMA 37.98 148 iPd 52 03.00 1.3
0.8s 54.00nm 5.5mb
BFD 40.15 164 eP 52 21.00 1.4
1.1s 30.00nm 5.0mb
LZH 41.96 329 eP 52 36.00 1.3
1.5s 67.00nm 5.1mb
Z 30s 1.88um 4.8mszX
N 10s 0.32um

? FEB 24, 1993 02h 15m 05.41±13.37s
47.284 N ±40.9km 1.521 W ±135.5km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.0 (LDG).

LPF 0.82 23 Pg 15 20.80 -0.4
Sg 15 32.80
MFF 1.16 125 Pg 15 27.00 -0.1
Sg 15 43.30
GRR 1.19 22 Pg 15 27.20 -0.4
Sg 15 44.20
LDF 1.61 35 Pg 15 34.60 0.6
Sg 15 58.10
FLN 1.64 25 Pg 15 34.60 0.3
Sg 15 58.00
S.D. = 0.6 on 5 of 5 obs.

FEB 24, 1993 02h 44m 44.93±0.38s
1.273 N ±6.3km 129.392 E ±6.7km
DEPTH = 33.0km (normal)
5.0mb (11 obs.) 4.8msz (4 obs.)
HALMAHERA, INDONESIA (267)

Mw 5.3 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 325, 48C
Centroid Location:
Origin Time 02:44:48.5 0.5
Lat 1.26N 0.06 Lon 129.39E 0.05
Dep 26.4 4.7 Half-duration 1.2
Moment Tensor: Scale 10¹⁶ Nm
Mrr=-0.51 0.38 Mtt= 3.40 0.49
Mff=-2.88 0.58 Mrt= 4.02 1.49
Mrf= 1.69 1.20 Mtf= 9.65 0.44
Principal Axes:
T Vol= 11.87 Plg=19 Azm=325
N -1.86 70 124
P -10.01 7 233
Best Double Couple:Ma=1.1*10¹⁷
NP1:Strike= 7 Dip=72 Slip= 171
NP2: 100 82 18

TNE 2.11 257 iPd 45 17.40 -1.2
iS 45 49.00
MNI 4.55 272 ePd 45 54.00 0.6
DAV 6.92 327 eP 46 32.00 5.3X
TLE 7.64 154 eP 46 31.50 -5.3X
MKS 11.82 237 ePd 47 33.80 -0.5
KKM 13.98 290 eP 48 12.00 9.0X
MTN 14.13 173 eP 47 59.00 -6.0X
0.4s 77.00nm 5.7mb
BAG 17.37 330 eP+ 48 45.00 -1.7
GUMO 19.60 51 e(P) 49 14.00 0.4
GUA 19.61 51 e(P) 49 11.20 -2.5
WB2 21.64 167 eP 49 32.60 -2.0
0.6s 24.00nm 4.8mb
eS 53 18.40
ASPA 25.17 170 iPd 50 08.90 -0.2
1.2s 36.10nm 4.8mb
eS 54 31.20
CTA 26.91 143 iPd 50 26.00 0.9
Z 21s 17.92um 5.6msz
eS 55 06.00
SSE 30.66 346 eP 50 59.00 0.3
Z 30s 2.30um 4.7mszX
N 10s 0.90um
E 10s 1.00um

RMO 33.33 147 iPc 51 22.50 0.4
CHTO 34.57 302 eP 51 33.00 0.1
STK 34.94 162 eP 51 34.90 -1.1
0.4s 9.90nm 5.1mb
eS 57 03.20
KMI 34.99 315 eP 51 38.00 1.3
1.2s 30.00nm 5.1mb
Z 20s 1.60um 4.8msz
N 12s 0.60um
E 12s 0.80um

MAT 36.03 12 (P) 51 49.00 3.8X
0.9s 11.76nm 4.8mb
Z 20s 1.77um 4.8msz
eS 57 22.00
CMS 36.12 156 eP 51 56.00 10.0X
BRS 36.31 143 iP 51 47.00 -0.7
1.2s 5.00nm 4.3mb
e 52 21.00
eS 57 36.00
ADE 37.09 167 ePc 51 55.10 1.0
ARMA 37.98 148 iPd 52 03.00 1.3
0.8s 54.00nm 5.5mb
BFD 40.15 164 eP 52 21.00 1.4
1.1s 30.00nm 5.0mb
LZH 41.96 329 eP 52 36.00 1.3
1.5s 67.00nm 5.1mb
Z 30s 1.88um 4.8mszX
N 10s 0.32um

MAT 36.03 12 (P) 51 49.00 3.8X
0.9s 11.76nm 4.8mb
Z 20s 1.77um 4.8msz
eS 57 22.00
CMS 36.12 156 eP 51 56.00 10.0X
BRS 36.31 143 iP 51 47.00 -0.7
1.2s 5.00nm 4.3mb
e 52 21.00
eS 57 36.00
ADE 37.09 167 ePc 51 55.10 1.0
ARMA 37.98 148 iPd 52 03.00 1.3
0.8s 54.00nm 5.5mb
BFD 40.15 164 eP 52 21.00 1.4
1.1s 30.00nm 5.0mb
LZH 41.96 329 eP 52 36.00 1.3
1.5s 67.00nm 5.1mb
Z 30s 1.88um 4.8mszX
N 10s 0.32um

DZM 42.96 125 iPc 52 48.00 5.1X
GUN 49.31 307 P 53 33.00 -0.6
PKI 49.55 306 P 53 36.80 1.4
KKN 49.75 306 P 53 36.40 -0.3
DMN 49.81 306 P 53 37.80 0.5
GKN 50.35 306 P 53 37.40 -3.9X

HYB 52.46 291 eP 53 56.70 -0.5
GBA 52.83 286 P 53 59.00 -0.9
IRK 54.98 341 eP 54 32.00 16.7X
1.4s 24.00nm
Z 16s 0.60um 4.8mszX
LR 12 41.00
YAK 60.59 0 eP 54 55.00 0.6
0.8s 37.00nm 5.6mb
Z 19s 0.40um 4.6msz
e 03 22.00
MAIO 73.11 308 eP 56 15.00 0.7
IMA 83.55 24 eP 57 19.48 8.5X
BRW 83.65 18 eP 57 20.50 9.3X
YKA 100.60 25 ePdiff58 43.50 12.9X
0.8s 0.40nm
TCA 147.30 157 e(PKP)04 29.00 4.0X
ZOBO 157.18 132 ePKP 04 54.00 13.7X
Z 25s 0.17um 4.8mszX
LR 58 24.00
S.D. = 1.1 on 27 of 41 obs.

% FEB 24, 1993 02h 54m 12.96±0.78s
44.385 N ±7.0km 7.286 E ±9.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV 0.14 169 P 54 16.34 -0.1
S 54 18.35
PZZ 0.18 312 P 54 17.25 0.2
S 54 20.13
ENR 0.18 149 P 54 17.02 -0.1
S 54 19.54
ROB 0.43 102 P 54 21.92 0.2
S 54 28.01
BHB 0.46 358 P 54 22.06 -0.2
S 54 28.46
S.D. = 0.3 on 5 of 5 obs.

? FEB 24, 1993 03h 31m 54.25±6.15s
35.110 S ±55.8km 70.928 W ±17.9km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.8 (SAN).

CACH 1.03 15 iP 32 15.17 -0.2
iS 32 33.91
CHCH 1.20 11 iP 32 17.27 0.0
iS 32 37.01
LNV 1.22 341 eP 32 17.40 0.0
iS 32 36.78
TACH 1.45 360 iP 32 20.67 0.3
iS 32 42.29
PCH 1.52 13 iP 32 21.57 0.3
iS 32 43.51
LCCH 1.71 342 iP 32 23.52 -0.1
iS 32 47.28
FCH 1.85 17 iP 32 25.88 0.1
iS 32 53.06
PEL 1.97 6 iP 32 26.93 -0.1
iS 32 54.22
ROCH 2.13 358 eP 32 29.49 0.2
iS 32 58.37
JACH 2.44 7 iP 32 32.80 -0.5
iS 33 05.02
S.D. = 0.3 on 10 of 10 obs.

FEB 24, 1993 04h 27m 15.56±0.89s
28.355 N ±10.3km 111.991 W ±6.4km
DEPTH = 10.0km (geophysicist)
4.7mb (15 obs.) 4.6msz (1 obs.)
GULF OF CALIFORNIA (49)

TUC 4.08 15 ePn 28 18.18 -1.2
e 28 36.97
eS 29 29.12
GLA 5.28 333 eP 28 31.27 -5.2X
PLM 6.51 321 ePn 28 55.04 1.1
ePg 29 15.58
eS 30 39.61
PEC 7.08 323 (P) 29 01.39 -0.4
eSg 30 58.42
SSK 7.61 322 (P) 29 12.08 2.8X
eSg 31 10.49
GSC 8.04 331 eP 29 16.02 0.7
eS 31 37.79
ALQ 8.08 34 ePn 29 16.06 0.1

TUC 4.08 15 ePn 28 18.18 -1.2
e 28 36.97
eS 29 29.12
GLA 5.28 333 eP 28 31.27 -5.2X
PLM 6.51 321 ePn 28 55.04 1.1
ePg 29 15.58
eS 30 39.61
PEC 7.08 323 (P) 29 01.39 -0.4
eSg 30 58.42
SSK 7.61 322 (P) 29 12.08 2.8X
eSg 31 10.49
GSC 8.04 331 eP 29 16.02 0.7
eS 31 37.79
ALQ 8.08 34 ePn 29 16.06 0.1

TUC 4.08 15 ePn 28 18.18 -1.2
e 28 36.97
eS 29 29.12
GLA 5.28 333 eP 28 31.27 -5.2X
PLM 6.51 321 ePn 28 55.04 1.1
ePg 29 15.58
eS 30 39.61
PEC 7.08 323 (P) 29 01.39 -0.4
eSg 30 58.42
SSK 7.61 322 (P) 29 12.08 2.8X
eSg 31 10.49
GSC 8.04 331 eP 29 16.02 0.7
eS 31 37.79
ALQ 8.08 34 ePn 29 16.06 0.1

TUC 4.08 15 ePn 28 18.18 -1.2
e 28 36.97
eS 29 29.12
GLA 5.28 333 eP 28 31.27 -5.2X
PLM 6.51 321 ePn 28 55.04 1.1
ePg 29 15.58
eS 30 39.61
PEC 7.08 323 (P) 29 01.39 -0.4
eSg 30 58.42
SSK 7.61 322 (P) 29 12.08 2.8X
eSg 31 10.49
GSC 8.04 331 eP 29 16.02 0.7
eS 31 37.79
ALQ 8.08 34 ePn 29 16.06 0.1

TUC 4.08 15 ePn 28 18.18 -1.2
e 28 36.97
eS 29 29.12
GLA 5.28 333 eP 28 31.27 -5.2X
PLM 6.51 321 ePn 28 55.04 1.1
ePg 29 15.58
eS 30 39.61
PEC 7.08 323 (P) 29 01.39 -0.4
eSg 30 58.42
SSK 7.61 322 (P) 29 12.08 2.8X
eSg 31 10.49
GSC 8.04 331 eP 29 16.02 0.7
eS 31 37.79
ALQ 8.08 34 ePn 29 16.06 0.1

TUC 4.08 15 ePn 28 18.18 -1.2
e 28 36.97
eS 29 29.12
GLA 5.28 333 eP 28 31.27 -5.2X
PLM 6.51 321 ePn 28 55.04 1.1
ePg 29 15.58
eS 30 39.61
PEC 7.08 323 (P) 29 01.39 -0.4
eSg 30 58.42
SSK 7.61 322 (P) 29 12.08 2.8X
eSg 31 10.49
GSC 8.04 331 eP 29 16.02 0.7
eS 31 37.79
ALQ 8.08 34 ePn 29 16.06 0.1

TPNV	9.29	338	eP	29 31.29	-1.4	37.730 N ± 9.1km	21.643 E ± 7.8km	SALF	1.21	110	Pg	57 16.20		
ARUT	9.49	353	eP	29 35.61	0.2	DEPTH = 79.0 ± 13.6 km		GRBF	1.43	103	Pg	57 01.34	-0.9	
			eS	32 18.32		3.5mb (2 obs.)		ECRI	1.68	251	eP	57 06.05	0.4	
MSU	10.13	359	eP	29 45.20	0.8	SOUTHERN GREECE	(368)				eS	57 32.80		
PHAM	10.31	318	eP	29 45.43	-1.2	MD 3.6 (ATH).		TRGS	1.84	111	Pg	57 14.19	2.5	
SRU	10.80	6	eP	29 54.77	1.4			LPO	1.88	36	Pg	57 15.60	3.5X	
			eS	32 58.72		VLS	0.94 299 ePg	32 28.00	-7.3X		Sg	57 41.00		
BONR	10.93	333	eP	29 56.19	0.8	AGG	1.40 23 ePb	32 39.20	-1.8		Pn	57 12.90	0.0	
MEMM	10.96	330	eP	29 56.17	0.8			32 58.04		LFF	1.93 24	Pg	57 17.50	
KVN	11.81	336	eP	30 07.35	0.1	VLI	1.44 134 ePb	32 41.00	-0.6		Pg	57 43.50		
			e	30 12.50		ATH	1.66 81 ePb	32 46.00	1.5		eP	57 21.32	1.4	
DUG	11.83	357	eP	30 09.14	1.7			33 10.00		EROQ	2.42 166	eS	57 49.70	
			eS	33 25.28		IGT	2.07 331 ePn	32 51.88	1.8		Pn	57 19.90	-0.8	
ARN	12.03	321	eP	30 08.56	-1.4			33 20.36		CAF	2.47 44	Pg	57 26.50	
DAU	12.04	3	eP	30 10.38	-0.1	KEK	2.45 324 ePb	32 58.50	3.2X		Sg	57 57.50		
			eS	33 30.75		LIT	2.46 15 ePn	32 56.32	0.9		Pn	57 21.70	0.4	
WMOK	12.93	57	eP	30 21.38	-0.7			33 25.48		RJF	2.52 32	Pg	57 27.10	
			eS	33 59.47		KZN	2.57 2 ePn	32 58.00	0.9		Sg	58 00.60		
MEO	13.10	57	iPd	30 24.60	0.3	PAIG	2.71 35 ePn	32 58.36	-0.5		eP	57 23.64	2.3	
ACO	13.65	49	iPc	30 32.20	0.6			33 30.92		ETER	2.52 109	eS	57 55.00	
OCO	14.24	56	iPc	30 46.70	7.4X	FNA	3.06 356 ePn	33 04.24	0.5		eP	57 23.12	-0.5	
BW06	14.53	7	ePd	30 42.02	-1.3			33 40.32		ETOR	2.67 209	eS	57 54.30	
	1.0s	18.21nm		4.6mb		THE	3.07 19 ePn	33 04.44	0.6		Pg	57 46.00	11.8X	
			eS	34 54.19				33 39.48		MFF	3.43 2	Sg	58 30.60	
BGMT	16.85	360	eP	31 15.60	2.4	OUR	3.17 34 ePn	33 05.20	-0.1		Pg	57 47.60	10.8X	
MIAR	16.87	64	ePc	31 13.60	0.3			33 43.28		TCF	3.61 30	Sg	58 35.30	
	0.9s	10.37nm		4.0mb		GRG	3.28 10 ePn	33 07.28	0.6		Pn	57 36.40	-1.6	
			eS	35 46.00				33 44.44		MAF	3.69 33	Pg	57 49.30	
RSSD	16.98	20	eP	31 16.24	1.4	SOH	3.36 23 ePn	33 08.12	0.2		Sg	58 37.70		
	1.0s	13.19nm		4.0mb		OHR	3.44 349 iPn	33 06.80	-2.2		Pn	57 44.70	1.3	
			eS	36 10.02			1.1s 144.00nm	33 19.80		BGF	4.08 33	Pg	57 56.50	
VGB	18.49	340	eP	31 33.88	0.4			33 57.50			Sg	58 48.80		
OLY	18.80	63	eP	31 36.59	-0.7			34 05.10		AVF	4.47 35	Pn	57 48.50	-0.5
SHW	19.55	338 (P)		31 46.94	0.5			34 25.70			Pg	58 03.10		
OD2	19.72	346 P		31 47.68	-0.4	KNT	3.56 15 ePn	33 09.84	-0.9		Sg	59 00.80		
LON	19.91	340 eP		31 48.22	-2.0			33 55.12		SMF	4.57 39	Pn	57 50.80	0.3
FMW	20.04	340 P		31 50.30	-1.3	VAY	3.66 11 iPn	33 12.00	0.0		Sg	59 05.30		
DPW	20.07	348 eP		31 51.66	-0.2	SRS	3.70 23 ePn	33 12.20	-0.5					
BMW	20.13	337 (P)		31 52.77	0.3			33 58.24			S.D. = 1.4 on 26 of 30 obs.			
NEW	20.27	350 ePc		31 51.74	-2.2	SKO	4.24 358 iPn	33 29.80	9.6X		FEB 24, 1993 06h 02m 21.42± 0.33s			
	1.0s	36.88nm		4.7mb			1.1s 59.00nm	34 19.30			26.882 S ± 5.2km	26.696 E ± 4.8km		
			e	31 57.64				34 40.00			DEPTH = 5.0km (geophysicist)			
WTV	20.28	344 P		31 55.44	1.4			44 00.00			REPUBLIC OF SOUTH AFRICA	(584)		
ETW	20.29	344 P		31 55.66	1.4	TDS	4.58 297 P	33 31.00	6.1X		mbLg 4.0 (BUL).			
FVM	20.41	56 eP		31 53.93	-1.4	ALN	4.65 46 ePn	33 25.76	-0.2					
	1.2s	29.81nm		4.5mb		ORI	4.67 301 P	33 24.50	-1.8		PRY	0.70 94 eP	02 35.00	-0.3
CPW	20.54	338 P		31 58.51	1.8			34 10.00			S	02 42.50		
RMW	20.55	341 eP		31 54.74	-2.2	SGO	5.68 302 P	33 41.60	1.4		KSR	1.03 10 iPd	02 42.00	0.5
NLW	20.73	344 P		32 01.53	2.7X	HFS	22.99 350 eP	37 14.70	-0.2			S	02 56.00	
ELC	21.06	59 eP		32 01.00	-1.1		0.4s 0.90nm	3.5mb			SLR	1.82 52 iPd	02 56.20	2.4X
JCW	21.25	341 P		32 04.57	0.6	NB2	24.24 348 P	37 27.30	0.2			S	03 19.50	
OSD	21.46	338 P		32 07.82	1.5		0.7s 1.20nm	3.4mb			BLF	2.26 191 iPd	03 00.60	0.4
CMW	21.52	341 P		32 07.29	0.5	BCAO	33.26 186 iPc	38 40.50	-8.0X			S	03 24.00	
SES	22.02	2 eP		32 11.00	-0.8		0.2s 8.00nm	5.2mb X			FRS	3.10 203 iPd	03 11.30	-0.6
	1.1s	57.00nm		4.9mb			S.D. = 1.2 on 21 of 26 obs.				S	03 43.20		
			pP	32 22.00	43kmX						8FT	3.23 69 eP	03 15.00	1.0
GBTN	24.60	66 eP		32 36.56	-0.5							S	03 59.50	
ULM	25.07	25 eP		32 45.00	3.7X	FEB 24, 1993 05h 56m 39.68± 0.45s					CIR	7.35 38 iPn	04 10.50	-1.6
NAV	27.59	63 ePd		33 03.97	-1.0	43.174 N ± 5.3km	0.356 W ± 3.9km					iSn	05 30.50	
			e	33 10.95		DEPTH = 10.0km (geophysicist)						iSg	06 06.00	
FCC	32.83	17 eP		33 54.50	3.4X	PYRENEES	(378)				CER	9.10 223 e(P)	04 26.00	-10.4X
YKA	34.18	358 eP		34 00.00	-2.8	ML 3.4 (LDG). mbLg 3.3 (MDD).						S	06 11.00	
	0.9s	1.00nm		3.7mb		Felt (IV) in the Beorn area,					WIN	9.72 294 eP	04 44.00	-1.2
JAO	36.69	36 eP		34 23.50	-0.8	France.						S	06 30.00	
FBA	42.93	339 eP		35 14.23	-1.6						BLE	9.86 223 iPd	04 44.00	-2.8X
	1.0s	6.22nm		4.3mb		OGE	0.09 266 Pg	56 42.88	0.6			1.0s 560.00nm	7.0mb X	
SVW	43.71	331 eP		35 25.10	2.8X			56 45.63			VTY	20.68 72 eP	07 05.50	0.3
IMA	45.58	338 ePc		35 35.06	-2.3	JAU	0.14 184 Pg	56 41.40	-1.7		AVY	20.92 72 eP	07 06.90	-0.7
	1.5s	15.04nm		4.7mb		ESCF	0.19 239 Pg	56 43.55	-0.3		BCAO	32.12 345 iPc	08 50.60	-1.4
SIV	66.11	125 P		38 06.00	0.6			56 46.52				0.7s 15.00nm	5.0mb	
TCF	84.84	39 eP		39 53.40	1.7	ATE	0.27 251 Pg	56 45.22	-0.1		GBA	63.61 57 P	12 55.00	-0.9
	1.3s	13.70nm		5.0mb				56 49.51			BAO	69.65 262 eP	13 33.90	-0.6
SSF	85.10	38 eP		39 53.70	0.8	LHE	0.33 217 Pg	56 45.02	-1.5			e	13 40.00	
	1.2s	14.90nm		5.1mb				56 49.25			MAF	75.98 343 eP	14 11.80	0.8
LOR	85.17	38 eP		39 54.30	1.1	MADF	0.34 265 Pg	56 47.00	0.3			1.1s 14.40nm	5.0mb	
	1.0s	6.20nm		4.8mb				56 52.76			SMF	76.05 344 iPd	14 11.80	0.4
Z	20s	0.28um		4.6Msz		ISSF	0.35 246 Pg	56 46.63	-0.4			0.9s 7.35nm	4.8mb	
AVF	85.18	39 eP		39 54.00	0.7			56 51.87			TCF	76.13 343 eP	14 12.70	0.8
	1.1s	6.10nm		4.7mb		ELYF	0.47 270 Pg	56 49.23	0.1			1.1s 6.60nm	4.7mb	
LBF	85.40	38 eP		39 56.00	1.5	BOH	0.49 262 Pg	56 48.69	-0.9		GEC2	76.27 351 P	14 14.00	1.3
	1.3s	15.15nm		5.0mb				56 56.96				1.0s 2.60nm	4.3mb	
SMF	85.53	38 eP		39 56.50	1.4	EPF	0.53 105 Pg	56 48.50	-1.9		AVF	76.31 344 eP	14 13.30	0.5
	1.4s	17.00nm		5.1mb				56 55.20				0.9s 6.40nm	4.7mb	
	S.D. = 1.3 on 55 of 62 obs.					ENSF	0.63 126 Pg	56 49.86	-2.5		LBF	76.33 344 iPd	14 13.00	-0.1
						ELIZ	0.86 270 eP	56 46.00	-10.2X			1.0s 5.40nm	4.6mb	
								57 00.50			BSF	76.49 346 eP	14 14.20	0.2
						EGRA	0.98 178 eP	57 00.70	2.5					

24d 06h

SSF	1.1s	10.25nm	4.8mb	
	76.52	344 eP	14 14.10	0.0
LOR	1.0s	6.60nm	4.7mb	
	76.63	344 eP	14 14.80	0.1
CDF	0.9s	4.90nm	4.6mb	
	76.95	347 eP	14 16.40	-0.1
MFF	1.0s	5.00nm	4.6mb	
	77.07	341 eP	14 17.70	0.6
CNCB	0.8s	8.20nm	4.9mb	
	86.59	253 P	15 09.80	1.6X
LPB	0.8s	8.20nm	4.9mb	
	86.81	253 P	15 10.00	0.9
ZOBO	0.7s	0.30nm		
	86.95	253 P	15 10.00	-0.1
YKA	136.22	335 ePKP	21 35.50	-9.6X
	0.7s	0.30nm		

S.D. = 0.8 on 25 of 30 obs.

FEB 24, 1993 06h 45m 57.09±0.80s
 43.430 N ± 4.9km 5.424 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.9 (STR).

GELF	0.05	177 Pg	45 58.81	-0.5
TREF	0.20	352 Pg	46 00.99	-0.4
PUYF	0.23	63 Pg	46 00.99	-1.0
BERF	0.23	121 Pg	46 01.67	-0.4
CDR	0.35	45 iPg	46 03.00	-1.3
PRAF	0.42	334 Pg	46 05.88	0.2
VILF	0.47	27 Pg	46 06.02	-0.7
TAVF	0.50	68 Pg	46 06.48	-0.7
GANF	0.67	32 Pg	46 09.85	-0.5
CALN	1.11	73 Pg	46 18.87	0.8
REVF	1.45	77 Pn	46 23.62	0.3
		Sg	46 44.53	
TOUF	1.45	66 Pn	46 24.10	0.6
		Sg	46 43.17	
SURF	1.45	43 Pg	46 25.00	1.4
		Sg	46 45.81	
AURF	1.46	71 Pn	46 23.67	0.2
		Sg	46 44.23	
SBF	1.52	73 Pn	46 24.66	0.2
		Sg	46 45.75	
AUTN	1.56	68 Pn	46 25.83	0.7
		Sg	46 47.50	
SAOF	1.64	69 Pn	46 26.12	0.0
DOI	1.70	50 P	46 28.60	1.6
		eSg	46 53.40	
BNI	1.86	29 P	46 33.10	3.8X
		eSg	46 57.30	
CKI	2.29	63 P	46 40.20	4.7X
		eSg	47 09.50	
PGF	2.77	107 Pn	46 41.61	-0.8

S.D. = 0.8 on 19 of 21 obs.

* FEB 24, 1993 07h 19m 07.85±1.46s
 54.309 N ± 11.2km 162.674 W ± 7.0km
 DEPTH = 48.9 ± 12.1 km
 4.7mb (15 obs.)
 ALASKA PENINSULA (12)
 ML 5.2 (PMR). Felt (IV) at Cold
 Bay and King Cove. Felt (II) at
 Sand Point.

SDN	1.63	50 iPd	19 36.40	1.9
KDC	6.67	55 eP	20 43.20	-2.3X
SVW	7.79	26 eP	21 01.60	0.3
RSO	8.16	37 eP	21 05.95	-0.7
ADK	8.77	260 eP	21 14.60	-0.2
CP2	8.92	34 eP	21 17.20	0.2
CRP	8.95	35 eP	21 16.90	-0.5
SLKM	9.14	42 eP	21 18.26	-1.7
TTA	9.31	19 ePc	21 22.50	0.2
PMS	9.85	40 iPc	21 27.40	-2.3
PMR	10.23	39 eP	21 32.90	-1.9
KLU	11.43	44 eP	21 47.38	-3.7X
IMA	12.60	17 eP	22 08.70	2.0
	0.9s	13.20nm	4.9mb	
BALM	12.76	50 eP	22 05.75	-3.1X
FBA	12.97	29 eP	22 07.15	-4.4X
	0.3s	2.18nm	4.6mb	
		e	22 17.94	
FBA	12.97	29 eP	22 11.80	0.3
SIT	15.62	69 (P)	22 42.77	-3.2X
BRW	17.26	6 eP	23 08.70	2.2
YKA	25.91	52 eP	24 38.50	1.9
	0.4s	3.90nm	4.3mb	
TPNV	36.04	99 (P)	26 07.55	1.2

GSC	0.4s	6.73nm	4.9mb	
	36.88	102 (P)	26 14.15	0.9
MSU	37.35	94 (P)	26 17.56	0.1
		e	26 29.19	
RSSD	38.57	81 eP	26 27.26	-0.3
	0.6s	5.92nm	4.6mb	
		e	26 33.20	
		e	26 40.75	
MAT	43.73	271 eP	27 09.00	-0.7
	1.9s	163.16nm	5.4mb	
WMOK	47.78	87 eP	27 40.87	-1.1
	0.6s	2.89nm	4.5mb	
JAQ	47.87	53 eP	27 41.50	-0.9
SSE	57.53	279 Pd	28 54.00	-0.4
	1.0s	13.00nm	5.0mb	
KAF	63.71	355 eP	29 34.20	-1.7
	0.5s	2.80nm	4.6mb	
HFS	65.87	2 eP	29 48.20	-1.7
	0.4s	1.90nm	4.5mb	
EKA	69.43	12 P	30 13.00	0.8
	0.7s	2.90nm	4.3mb	
GEC2	77.18	2 P	30 58.20	0.5
	0.7s	1.18nm	4.0mb	
		e	31 03.20	
		e	31 06.60	
GUN	79.18	303 P	31 09.40	0.0
KKN	79.58	303 P	31 11.40	0.1
PKI	79.70	303 P	31 12.20	0.1
GKN	79.71	304 P	31 12.00	0.0
	0.8s	39.00nm	5.4mb	
DMN	79.81	303 P	31 13.00	0.4
	0.6s	23.00nm	5.3mb	
WB2	91.39	237 eP	32 17.80	8.3X
	0.2s	4.60nm	5.6mb	
GBA	95.43	302 P	32 29.00	0.7
BUL	144.82	341 iPKPc	38 46.20	5.3X

S.D. = 1.2 on 32 of 39 obs.

FEB 24, 1993 07h 35m 53.07±0.55s
 21.381 S ± 6.7km 67.307 W ± 9.9km
 DEPTH = 211.6 ± 10.2 km
 4.4mb (2 obs.)

CHILE-BOLIVIA BORDER REGION (124)

YJA	1.85	115 iPc	36 31.40	-0.5
HJA	2.54	136 iPc	36 40.00	1.6
ANT	3.69	231 iP+	36 51.80	-0.2
		iS	37 34.30	
SLA	3.73	154 iPc	36 53.20	0.6
		S	37 23.20	
CCH	4.13	16 P	36 57.60	-0.1
		eS	37 39.00	
CNCB	4.59	352 iPc	37 04.50	0.7
		iS	37 57.20	
LPB	4.88	351 iPc	37 07.10	-0.2
	0.9s	226.89nm		
		iS	38 02.30	
ZOBO	5.13	351 iPc	37 10.50	-0.1
	22s	0.21um		
		S	38 04.00	
		LR	38 13.00	
ARE	6.29	320 eP	37 24.00	-1.3
		iS	38 30.00	
TCA	10.21	167 iP	38 14.40	-1.4
NNA	13.06	314 eP	38 52.50	0.4
	0.8s	18.66nm	4.5mb	
		i	38 57.50	
		eS	41 11.50	
BAO	19.18	76 iPd	40 01.80	-1.3
		e	40 04.70	
		e	40 08.80	
		e	41 10.00	
YKA	91.58	340 eP	48 38.00	1.6
	0.6s	1.50nm	4.2mb	
ASPA	130.69	206 ePKP	54 43.20	2.2X
	0.4s	2.50nm		
WB2	133.79	209 ePKP	54 48.90	1.9X
	0.4s	3.70nm		
WRA	133.79	209 PKP	54 50.30	3.3X
	0.6s	3.90nm		
GBA	145.56	97 PKP	55 14.00	5.8X

S.D. = 1.1 on 13 of 17 obs.

* FEB 24, 1993 07h 43m 32.92±1.40s
 13.338 N ± 13.6km 90.102 W ± 12.2km
 DEPTH = 33.0km (normol)

NEAR COAST OF GUATEMALA (71)

MD 4.6 (APY).

CUSS	0.59	15 iPd	43 45.40	0.6
		iS	43 54.30	
YPE	0.88	28 iPd	43 48.70	-0.4
LFU	1.04	67 iPd	43 51.80	0.5
TPX	2.61	307 eP	44 13.50	-0.2
		eS	44 34.50	
PYN	3.15	107 eP	44 21.51	0.2
		eS	44 56.09	
PYT	4.02	101 eP	44 31.69	-2.1
SCX	4.17	324 (P)	45 00.50	24.7X
SSN	4.62	116 eP	44 43.72	1.5
OXX	7.40	301 (P)	45 25.00	3.4X

S.D. = 1.3 on 7 of 9 obs.

FEB 24, 1993 07h 59m 11.60±1.65s
 32.186 S ± 8.8km 71.542 W ± 12.8km

DEPTH = 5.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.90	150 iPd	59 29.84	0.3
		iS	59 44.63	
JACH	0.94	122 iP	59 30.06	0.0
		iS	59 44.72	
PEL	1.20	143 iP	59 34.41	0.0
		iS	59 52.70	
LCCH	1.29	181 iP	59 35.42	-0.5
		iS	59 54.65	
TACH	1.55	161 iP	59 39.82	-0.1
		iS	00 03.10	
FCH	1.55	138 iP	59 39.96	-0.3
		iS	00 02.03	
PCH	1.67	149 iP	59 41.68	-0.1
		iS	00 06.59	
LNV	1.77	176 eP	59 43.43	0.4
		iS	00 08.11	
RTBS	1.85	74 e(P)d	59 44.30	0.1
CHCH	1.90	157 iP	59 45.14	0.2
		iS	00 10.59	
MDZ	2.38	108 e(P)	59 55.60	3.6X
RTCV	2.57	84 eP	59 54.50	-0.2
CFA	2.87	79 ePd	59 59.00	0.1
TCA	5.98	84 eP	00 39.00	-4.0X
		(S)	01 52.00	

S.D. = 0.3 on 12 of 14 obs.

FEB 24, 1993 08h 59m 01.86±0.75s
 40.480 N ± 6.6km 21.865 E ± 6.0km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 1.8 (THE).

FNA	0.48	309 ePg	59 11.36	-0.3
		eSg	59 18.28	
LIT	0.61	128 ePg	59 12.64	-1.5
		eSg	59 22.44	
GRG	0.63	40 ePg	59 14.33	-0.1
		eSg	59 22.68	
VAY	1.00	32 ePn	59 22.00	1.3
OHR	1.03	308 ePn	59 20.70	-0.6
KNT	1.04	49 ePg	59 21.28	-0.2
SOH	1.18	73 ePg	59 23.48	-0.5
SRS	1.46	64 ePb	59 28.60	0.4
		eSb	59 46.96	
PAIG	1.50	111 ePb	59 28.60	-0.1
AGG	1.50	166 ePb	59 30.52	1.7
		eSb	59 50.20	

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

* FEB 24, 1993 09h 23m 50.39±2.49s
 41.540 N ± 20.4km 29.401 E ± 17.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

HRT	0.75	164 iPg	24 04.60	-0.4

24d 09h

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

GBZT	0.67	172	ePg	27	25.30	-1.1
HRT	0.68	158	iPg	27	26.10	-0.5
			eSg	27	37.10	
YLV	0.89	178	iPg	27	30.40	0.3
EYL	1.09	144	ePg	27	34.10	0.5
DMK	1.23	288	ePn	27	35.70	-0.3
GPA	1.38	147	ePn	27	38.60	0.2
KCT	1.41	212	iPn	27	39.60	0.8

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

* FEB 24, 1993 09h 28m 01.65±1.34s
41.489 N ±11.0km 29.280 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 2.9 (ISK).

ISK	0.45	202	iPg	28	10.50	-0.4
			iSg	28	17.50	
GBZT	0.71	170	ePg	28	09.20	-6.4X
HRT	0.73	156	iPg	28	16.10	0.1
			eSg	28	27.10	
YLV	0.92	176	iPg	28	19.40	0.0
EYL	1.14	144	ePg	28	22.70	-0.3
DMK	1.19	287	ePg	28	23.70	-0.1
KCT	1.42	210	iPn	28	28.10	0.5
GPA	1.43	147	ePg	28	27.80	0.1

S.D. = 0.4 on 7 of 8 obs.

FEB 24, 1993 09h 30m 44.95±0.45s
22.226 N ± 8.4km 122.413 E ± 8.2km
DEPTH = 33.0km (normal)
4.6mb (15 obs.)

TAIWAN REGION (243)

HKC	7.63	272	iP	32	35.70	-1.0
MCO	8.21	271	eP	32	40.10	-4.6X
SSE	8.90	353	Pnc	32	50.00	-4.2X
	0.6s	17.00nm			5.4mb	
		Sn	34	25.00		
BJI	18.53	345	eP	35	00.00	-0.8
	1.5s	40.00nm			4.4mb	
		eSKS	03	13.00		
		eS	03	32.00		
MAT	19.78	40	eP	35	15.00	-0.4
	1.2s	31.25nm			4.5mb	
		eS	38	54.00		
LZH	21.25	315	eP	35	32.00	1.3
	1.5s	40.00nm			4.6mb	
	Z 10s	0.80um			4.4mszX	
	E 10s	0.46um				
		pP	35	42.50	41kmX	
		sP	35	47.00		

CHTO	22.23	265	eP	35	42.00	1.5
GUN	33.49	287	P	37	24.20	0.3
	0.8s	17.00nm			5.0mb	

PKI	33.90	287	P	37	26.00	-1.4
KKN	34.02	287	P	37	28.40	0.1
DMN	34.17	287	P	37	31.00	1.3
GKN	34.59	287	P	37	33.00	-0.2
	0.7s	13.00nm			5.0mb	

WB2	43.50	164	eP	38	45.70	-1.4
	0.5s	7.80nm			4.7mb	

G8A	43.51	266	P	38	53.00	5.7X
ASPA	46.96	166	eP	39	13.30	-1.4
	1.0s	7.30nm			4.6mb	

CTA	48.07	149	iPc	39	24.00	0.5
RMQ	54.73	151	iPd	40	14.10	0.5
	0.9s	8.00nm			4.7mb	

CMS	57.93	156	iPd	40	37.10	0.7
	0.9s	7.00nm			4.7mb	

CNB	62.67	155	iPc	41	00.00	-8.8X
	0.8s	29.00nm			5.5mb	

TOO	63.32	160	eP	41	14.00	1.0
IMA	67.45	26	eP	41	40.00	0.6
	1.0s	4.25nm			4.5mb	

KAF	73.41	331	eP	42	19.10	3.8X
NB2	80.48	333	P	42	55.00	0.2
	0.8s	2.00nm			4.2mb	

YKA	84.33	23	eP	43	15.40	0.7
	0.8s	1.50nm			4.2mb	

GEC2	85.07	321	P	43	16.90	-1.9
	0.7s	0.67nm			3.9mb	
		e	43	22.80		

e 43 29.30
S.D. = 1.1 on 20 of 25 obs.

& FEB 24, 1993 09h 37m 39.97s
59.550 N 153.451 W
DEPTH = 117.8km
SOUTHERN ALASKA (2)

<AEIC>.

OPT	0.15	47	iPc	37	55.81	0.9
AUL	0.17	177	iPc	37	55.82	0.9
AUW	0.18	183	eP	37	55.99	1.1
AUE	0.20	168	iPc	37	55.75	0.8
AUI	0.22	177	iPc	37	55.80	0.8
			eS	38	08.07	

PDB	0.45	303	iPd	37	56.72	-0.9
			eS	38	09.74	

INW	0.54	17	iPd	37	57.31	-1.0
			eS	38	11.14	

INE	0.55	21	iPd	37	57.49	-1.0
			eS	38	11.07	

MCNL	0.58	231	iPc	37	57.62	-0.9
CDD	0.63	189	iPc	37	57.80	-1.1
XLV	0.89	95	eP	38	00.35	-0.7
			eS	38	15.86	

RS1	0.98	21	iPd	38	01.21	-0.9
			eS	38	17.47	

RS2	0.98	21	iPd	38	01.24	-0.9
RSO	0.98	21	iPd	38	01.22	-0.9
RDW	0.99	19	iPd	38	01.26	-1.0
			eS	38	18.90	

RDN	1.03	19	iPd	38	01.64	-0.9
NCT	1.05	14	iPd	38	01.75	-1.0
DFR	1.11	20	iPd	38	02.41	-1.0
CNPM	1.13	90	iPc	38	02.26	-1.2
			eS	38	19.29	

BRK	1.32	80	ePc	38	04.12	-1.5
			eS	38	22.21	

NKA	1.63	42	eP	38	09.71	0.6
CKL	1.74	18	eP	38	09.75	-0.9
CKT	1.77	20	iPd	38	09.84	-1.1
SPU	1.78	22	iPd	38	09.85	-1.2

CKN	1.79	20	iPd	38	10.38	-0.9
BGL	1.80	17	iPd	38	10.65	-0.7
CP2	1.82	19	ePd	38	10.65	-1.1
CPAM	1.83	20	iPd	38	10.82	-0.9
CRP	1.84	20	ePd	38	10.15	-1.8
			eS	38	35.96	

KDC	1.88	164	eP	38	09.31	-2.9
			eS	38	32.41	

SLKM	1.88	58	eP	38	10.76	-1.6
SVW	1.90	326	iPd	38	11.05	-1.5
SEW	2.10	73	iPd	38	13.11	-1.9
MPA	2.26	64	iPc	38	15.55	-1.5

SUA	2.34	34	iPd	38	17.22	-1.1
PMS	2.57	47	P	38	19.70	-1.5
PTE	2.57	57	eP	38	19.47	-1.7
SKT	2.61	20	iPd	38	20.33	-1.4
PWA	2.75	38	P	38	21.70	-1.8

LTI	2.87	78	P	38	21.00	-4.1
PLRM	2.96	44	eP	38	23.67	-2.6
PMR	2.96	44	eP	38	23.06	-3.2
GHO	3.15	43	iPd	38	26.31	-2.7

SML	3.39	46	iPd	38	29.37	-2.7
HIN	3.59	73	eP	38	32.21	-2.7
TTA	3.61	341	eP	38	32.86	-2.3
SCM	3.78	50	eP	38	35.15	-2.3

VLZ	3.88	63	eP	38	36.31	-2.3
CVA	3.99	72	eP	38	37.38	-2.8
TRF	4.20	20	eP	38	40.94	-2.3
KLU	4.20	59	iPd	38	40.37	-2.8
BALM	5.72	70	eP	39	01.13	-2.8
			eS	40	01.33	

52 obs. associated

* FEB 24, 1993 09h 49m 50.30±0.95s
23.298 S ±10.6km 69.837 W ±21.7km
DEPTH = 63.3 ± 29.3 km

NORTHERN CHILE (123)

ANT	0.67	233	iP+	50	04.50	0.0
			iS	50	14.80	

YJA	4.16	75	ePc	50	57.50	4.3X
CNCB	6.69	15	eP	51	28.00	-0.7
			S	52	54.00	

LPB	6.93	14	eP	51	32.00	0.1
			S	53	05.00	

ARE	6.98	347	eP	51	33.00	0.5
			eS	52	44.00	

ZOBO	7.16	13	P	51	34.90	-0.4
	Z 24s	0.05um				
		LR	54	00.00		

SIV	11.00	50	P	52	28.00	0.6
BAO	21.94	74	eP	54	40.10	-0.2
			e	54	41.90	

S.D. = 0.7 on 7 of 8 obs.

FEB 24, 1993 10h 03m 38.59±0.44s
38.860 N ± 3.7km 27.860 E ± 4.8km
DEPTH = 4.9 ± 2.9 km

TURKEY (366)

MD 3.5 (ISK).

IZM	0.66	226</
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24d 11h

0.6s 203.00nm				0.6s 0.10nm 3.1mb X				eSg 35 25.90			
iPg 15 38.20				S.D. = 1.1 on 60 of 79 obs.				SOH 0.80 327 ePg 35 30.82 -0.3			
i 15 58.50				% FEB 24, 1993 11h 18m 38.18±0.51s				THE 0.87 304 ePg 35 42.06 0.1			
iSn 16 01.70				40.675 N ± 4.7km 23.117 E ± 4.6km				SRS 1.00 346 ePg 35 43.78 0.0			
iSg 16 14.50				DEPTH = 10.0km (geophysicist)				LIT 1.10 268 ePg 35 35.14 -1.1			
Lg 16 25.20				GREECE (364)				KNT 1.27 323 ePg 35 40.02 0.7			
EDC 2.89 85 ePn 15 32.00 -1.1				ML 1.9 (THE).				GRG 1.41 305 ePg 35 52.18 0.2			
IZM 3.01 124 iPn 15 35.70 0.9				THE 0.12 250 ePgc 18 41.30 0.1				AGG 1.67 228 ePg 35 46.14 1.1			
DMK 3.25 57 iPn 15 37.80 -0.4				SOH 0.23 51 ePg 18 43.74 0.6				FNA 2.04 289 ePn 35 50.82 0.3			
KCT 3.27 87 ePn 15 39.00 0.5				KNT 0.51 341 ePg 18 48.56 0.0				S.D. = 0.7 on 10 of 10 obs.			
KEK 3.33 264 iPnc 15 41.50 2.1				SRS 0.57 39 ePg 18 49.42 -0.3				? FEB 24, 1993 11h 58m 32.71±1.02s			
VLS 3.35 236 ePn 15 42.00 2.3				GRG 0.61 298 ePg 18 50.38 -0.2				39.064 N ± 8.6km 27.662 E ± 10.3km			
VLI 3.53 195 ePn 15 42.50 0.4				OUR 0.74 117 ePg 18 52.50 -0.2				DEPTH = 10.0km (geophysicist)			
ITU 3.87 74 ePn 15 57.00 10.0X				LIT 0.75 220 ePg 18 53.00 0.2				TURKEY (366)			
ISK 3.89 75 ePn 15 52.00 4.7X				PAIG 0.86 150 ePg 18 54.70 -0.1				MD 2.7 (ISK).			
PVY 3.96 310 iPnd 15 49.18 0.8				S.D. = 0.3 on 8 of 8 obs.				IZM 0.73 205 iPg 58 47.00 -0.2			
YLV 4.06 82 ePn 15 51.00 1.3				% FEB 24, 1993 11h 20m 12.96±0.81s				DST 0.92 54 iPn 58 50.80 0.4			
ULC 4.10 298 iPnc 15 52.19 2.0				40.155 N ± 5.9km 23.936 E ± 6.2km				EZN 1.28 307 ePn 58 56.90 0.4			
GBZT 4.13 79 ePn 16 05.00 14.3X				DEPTH = 10.0km (geophysicist)				EDC 1.29 7 ePn 58 56.00 -0.6			
IVA 4.18 312 iPnc 15 52.03 0.6				GREECE (364)				S.D. = 0.9 on 4 of 4 obs.			
HRT 4.31 79 ePn 16 00.00 6.7X				ML 2.5 (THE).				FEB 24, 1993 12h 01m 03.45±0.71s			
TTG 4.31 304 iPnd 15 54.63 1.4				OUR 0.18 11 ePgc 20 16.53 -0.5				25.793 S ± 4.9km 71.289 W ± 11.2km			
BUC1 4.45 18 eP 16 16.00 20.8X				PAIG 0.30 221 ePg 20 18.88 -0.4				DEPTH = 10.0km (geophysicist)			
BDV 4.52 300 ePn 15 58.12 1.9				SOH 0.80 326 ePg 20 28.72 0.2				4.0mb (1 obs.)			
DRA 4.55 1 eP 15 53.00 -3.6X				THE 0.88 303 ePg 20 29.32 -0.5				OFF COAST OF NORTHERN CHILE (121)			
KHL 4.59 111 ePn 15 57.00 -0.3				SRS 1.00 345 ePg 20 31.84 0.0				ANT 2.23 21 iP+ 01 40.30 -0.6			
EYL 4.65 83 ePn 16 01.00 2.7X				LIT 1.11 268 ePg 20 34.16 0.4				RTRS 4.65 160 ePd 02 16.20 0.9			
NKY 4.67 307 iPnc 15 59.51 0.9				KNT 1.28 322 ePg 20 36.64 0.0				SLA 5.35 80 ePc 02 27.00 1.5			
PLE 4.75 314 iPnd 15 59.87 0.2				GRG 1.42 305 ePg 20 39.36 0.6				CYA 5.56 120 eP 02 28.00 -0.4			
GPA 4.76 86 ePn 15 59.20 -0.5				ALN 1.77 65 ePg 20 44.12 0.3				HJA 5.94 66 eP 02 35.00 1.4			
ALT 4.77 101 eP 16 05.40 5.5X				S.D. = 0.5 on 9 of 9 obs.				RTLL 6.05 156 eP 02 34.00 -1.1			
BRY 5.00 305 iPnd 16 04.01 0.8				% FEB 24, 1993 11h 21m 13.53±0.88s				RTCB 6.08 159 ePc 02 35.00 -0.6			
BRT 5.31 280 P 16 06.30 -1.1				40.155 N ± 6.5km 23.890 E ± 6.8km				RTPR 6.16 138 e(P)d 02 33.30 -3.4X			
BEO 5.40 331 ePn 16 27.30 18.6X				DEPTH = 10.0km (geophysicist)				ZON 6.17 159 eP 02 46.50 9.6X			
1.4s 0.21nm				GREECE (364)				CFA 6.38 156 e(P) 02 39.10 -0.8			
eSg 17 36.30				ML 2.4 (THE).				YJA 6.40 57 ePc 02 40.50 -0.1			
TNR 5.52 1 eP 16 02.00 -8.4X				OUR 0.19 21 ePgc 21 16.50 -1.3				RTCV 6.51 159 ePd 02 40.00 -1.7			
MLR 5.53 14 iPc 16 10.80 0.2				PAIG 0.28 215 ePg 21 18.68 -0.7				PEL 7.34 176 eP 02 54.50 1.1			
ORI 5.86 272 P 16 14.70 -0.5				SOH 0.78 329 ePg 21 28.80 0.0				MDZ 7.38 164 e(P) 03 00.20 6.3X			
CFR 5.87 29 eP 16 14.00 -1.2				THE 0.85 304 ePg 21 30.12 0.2				TCA 8.07 135 eP 02 59.00 -4.6X			
CVO 5.89 14 iPc 16 16.00 0.4				SRS 0.99 347 ePg 21 31.76 -0.5				(S)			
TDS 5.98 268 P 16 17.40 0.5				LIT 1.07 268 ePg 21 34.00 0.2				RFA 9.27 165 e(P) 03 16.20 -4.0X			
VRI 6.05 18 eP 16 18.00 0.2				KNT 1.26 323 ePg 21 37.36 0.5				ARE 9.29 359 eP 03 20.00 -0.7			
HVAR 6.49 300 ePn 16 22.10 -1.9				GRG 1.39 306 ePg 21 39.36 0.4				CNCB 9.45 20 P 03 23.00 -0.2			
MGR 6.55 273 P 16 23.90 -1.0				ALN 1.80 65 ePg 21 46.04 1.2				LPB 9.68 19 eP 03 25.00 -1.2			
SOI 6.58 254 P 16 24.30 -1.1				S.D. = 0.8 on 9 of 9 obs.				ZOBO 9.91 18 Pd 03 28.50 -1.0			
eSn 17 36.60				% FEB 24, 1993 11h 35m 15.65±1.28s				0.5s 5.84nm 5.3mb X			
PPE 6.60 22 ePd 16 11.50 -14.1X				40.153 N ± 6.1km 23.920 E ± 11.1km				Z 23s 0.18um 4.1msz X			
BBTK 6.66 90 eP 16 50.00 23.4X				DEPTH = 10.0km (geophysicist)				SIV 13.64 46 P 04 16.00 -3.4X			
SGO 6.73 276 P 16 26.10 -1.3				GREECE (364)				MCMT 79.86 331 eP 13 16.50 2.5			
ATN 6.99 256 P 16 29.20 -1.9				ML 2.1 (THE).				YKA 94.52 341 eP 14 24.20 -0.5			
SDI 7.94 285 P 16 44.60 0.1				OUR 0.19 15 ePgc 35 19.38 -0.4				0.6s 0.40nm 4.0mb			
VBY 8.43 312 eP 16 50.80 -0.4				PAIG 0.29 219 ePg 35 21.22 -0.5				GBA 148.25 106 PKP 20 50.00 1.4			
CEY 9.04 311 eP 17 04.50 4.9X				S.D. = 1.3 on 18 of 24 obs.				FEB 24, 1993 12h 20m 50.61±2.58s			
TRI 9.40 310 e(P) 17 07.50 2.8X				40.140 N ± 8.2km 24.032 E ± 23.0km				DEPTH = 10.0km (geophysicist)			
ZST 9.50 330 eP 17 06.00 0.1				AEGEAN SEA (365)				ML 2.2 (THE).			
VOY 9.51 312 eP 17 05.40 -0.8				OUR 0.20 349 ePgc 20 54.38 -0.6				OUR 0.20 349 ePgc 20 54.38 -0.6			
KBA 10.43 315 iPc 17 18.60 -0.4				PAIG 0.34 232 ePg 20 57.10 -0.6				THE 0.95 301 ePg 21 07.58 -1.1			
1.0s 14.50nm 5.3mb X				SOH 0.86 323 ePg 21 07.78 0.7				SRS 1.03 341 ePg 21 09.74 -0.4			
WTTA 11.49 312 i(P) 17 35.50 2.1				KNT 1.26 323 ePg 21 37.36 0.5				KNT 1.34 320 ePg 21 15.90 0.7			
WATA 11.56 313 i(P) 17 33.30 -1.1				GRG 1.39 306 ePg 21 39.36 0.4							
KHC 11.70 324 eP 17 44.00 7.9X				ALN 1.80 65 ePg 21 46.04 1.2							
SOQA 11.71 311 i(P) 17 38.10 1.8				S.D. = 0.8 on 9 of 9 obs.							
PRU 11.94 329 eP 17 44.00 4.8X				% FEB 24, 1993 11h 35m 15.65±1.28s							
NUR 20.41 1 eP 19 23.50 -2.1				40.153 N ± 6.1km 23.920 E ± 11.1km							
KAF 22.05 3 eP 19 40.20 -2.2				DEPTH = 10.0km (geophysicist)							
NB2 22.39 343 P 19 43.30 -2.5X				GREECE (364)							
0.8s 5.40nm 4.1mb				ML 2.1 (THE).							
EKA 23.61 319 Pd 20 01.20 3.5X				OUR 0.19 15 ePgc 35 19.38 -0.4							
2.3s 79.00nm 4.9mb X				PAIG 0.29 219 ePg 35 21.22 -0.5							
BCAO 35.89 189 iPd 21 47.20 -1.1				S.D. = 0.8 on 9 of 9 obs.							
0.6s 11.00nm 4.9mb X				% FEB 24, 1993 11h 35m 15.65±1.28s							
YKA 72.47 341 eP 26 23.20 9.0X				40.153 N ± 6.1km 23.920 E ± 11.1km							

GRG 1.49 304 ePb 21 18.22 0.8
AGG 1.72 230 ePb 21 21.38 0.5
S.D. = 0.9 on 8 of 8 obs.

? FEB 24, 1993 12h 21m 33.09±8.64s
41.792 N ±47.4km 22.244 E ±35.5km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.9 (SKO), 1.9 (THE).

VAY 0.53 152 iPg 21 43.70 -0.1
KNT 0.80 142 ePg 21 48.46 -0.1
GRG 0.84 172 ePg 21 49.34 0.0
SRS 1.22 123 ePg 21 55.54 -0.2
SOH 1.28 139 ePg 21 57.34 0.5
S.D. = 0.4 on 5 of 5 obs.

FEB 24, 1993 12h 39m 59.59±0.27s
16.362 S ±7.8km 172.861 W ±7.5km
DEPTH = 33.0km (normal)
5.0mb (20 obs.) 4.8MsZ (17 obs.)
SAMOA ISLANDS REGION (169)
Mw 5.3 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 30S, 46C
Centroid Location:
Origin Time 12:40:33.3 0.7
Lat 16.68S 0.08 Lon 172.44W 0.07
Dep 15.0 FIX Half-duration 1.2
Moment Tensor: Scale 10¹⁶ Nm
Mrr=3.39 0.26 Mtt=0.95 0.44
Mff=-4.33 0.41 Mrt=2.69 0.61
Mrf=7.30 0.69 Mtf=-0.75 0.30
Principal Axes:
T Vol=8.30 Plg=57 Azm=299
N 0.85 7 198
P -9.15 32 103
Best Double Couple: Mo=8.7×10¹⁶
NP1: Strike=169 Dip=15 Slip=61
NP2: 19 77 97

DZM 20.34 251 iPc 44 39.70 3.6X
URZ 23.53 200 eP 45 06.80 -0.8
WLZ 23.72 203 P 45 11.00 1.5
PMO 24.07 90 iPc 45 12.90 -0.1
1.5s 419.90nm 5.8mb
VAH 24.30 91 iPc 45 14.60 -0.7
1.7s 357.30nm 5.6mb
TPT 24.34 90 iPc 45 15.20 -0.5
1.9s 455.00nm 5.7mb
RUV 24.54 91 iPc 45 16.80 -0.8
2.0s 566.80nm 5.8mb
MNG 26.20 200 eP 45 33.90 0.8
ORZ 27.47 205 P 45 46.40 1.8
LTZ 29.24 203 eP 46 03.10 2.4
ARMA 35.31 240 iPc 46 52.40 -1.5
CTA 38.94 258 eP 47 34.00 9.5X
HON 40.19 22 P 47 40.00 5.4X
Z 18s 0.47um 4.4MsZ

CMS 40.40 240 eP 47 35.20 -1.2
0.9s 7.00nm 4.4mb
TOO 42.27 232 eP 47 51.20 -0.5
0.6s 12.00nm 4.8mb
STK 44.02 241 eP 48 04.90 -1.1
0.9s 2.40nm 4.0mb X
WB2 50.12 257 eP 48 52.70 -1.4
0.6s 5.00nm 4.7mb
ASPA 50.32 253 eP 48 53.30 -2.2
0.7s 21.70nm 5.3mb
Z 18s 1.80um 5.1MsZ

GUA 51.23 303 e(P) 48 42.50 -19.9X
GUMO 51.29 303 e(P) 48 44.00 -18.9X
MAT 70.00 320 eP 51 12.00 1.9
Z 20s 0.35um 4.6MsZ
WDC 73.41 38 P 51 40.00 9.6X
Z 18s 0.69um 5.0MsZ
SPA 73.74 180 iPc 51 31.30 -0.8
1.2s 26.76nm 5.1mb
TNP 75.19 42 eP 51 41.12 0.1
1.1s 14.32nm 4.9mb

TUC 76.60 50 eP 51 49.31 0.4
1.3s 17.99nm 4.9mb
Z 18s 0.37um 4.7MsZ
BMW 76.86 33 eP 51 50.23 0.2
SHW 77.19 33 eP 51 52.43 0.4
ARUT 77.52 44 eP 51 53.72 -0.3
LON 77.78 33 eP 51 54.98 -0.1
RMW 78.24 33 eP 51 57.48 -0.2
MSU 78.75 44 eP 52 01.08 0.2
CP2 79.10 10 eP 52 02.33 0.1
DUG 79.21 43 eP 52 02.53 -0.7
SIT 79.54 20 P 52 10.00 5.6X
Z 18s 0.58um 5.0MsZ
PMR 79.96 11 P 52 20.00 13.5X
Z 19s 0.25um 4.6MsZ
TTA 80.13 8 (P) 52 08.78 1.2
1.2s 8.67nm 4.6mb
SRU 80.16 44 eP 52 08.18 -0.3
DAU 80.34 43 eP 52 09.08 -0.4
ALO 81.02 50 eP 52 12.90 -0.2
1.6s 21.15nm 4.9mb
Z 18s 0.35um 4.8MsZ

BGMT 82.38 38 eP 52 20.10 0.2
BW06 82.64 42 eP 52 20.45 -0.9
1.2s 8.90nm 4.7mb
FBA 83.24 10 eP 52 23.02 -0.6
1.3s 19.34nm 5.1mb
GOL 83.95 46 P 52 40.00 11.8X
Z 19s 0.38um 4.8MsZ
GLD 84.07 46 (P) 52 29.68 1.0
0.9s 16.07nm 5.2mb
Z 18s 0.54um 5.0MsZ
SES 85.70 34 ePd 52 36.90 0.5
pP 52 47.00 32kmX
WMOK 86.67 52 P 52 50.00 8.5X
Z 19s 0.36um 4.8MsZ
RSSD 86.82 42 eP 52 43.41 1.2
1.1s 8.13nm 4.9mb
Z 18s 0.25um 4.7MsZ
MEO 86.84 53 iPc 52 41.80 -0.5
SNG 88.68 278 eP 52 54.80 3.3X
MIAR 90.61 54 P 53 10.00 9.8X
Z 19s 0.15um 4.5MsZ
YKA 90.77 23 eP 52 59.40 -0.8
1.1s 2.50nm 4.5mb
KMI 91.91 295 Pc 53 10.00 3.4X
1.8s 60.00nm 5.7mb
pP 53 23.50 45kmX

CHTO 93.50 288 eP 53 17.20 3.5X
FVM 94.11 52 P 53 30.00 13.8X
Z 18s 0.81um 5.2MsZ
LZH 94.21 306 eP 53 19.00 2.1
1.4s 24.00nm 5.4mb
CEH 102.39 56 Pd diff 54 00.00 6.2X
Z 18s 0.21um 4.7MsZ
RSNY 107.17 48 PKP 58 30.00 5.9X
Z 18s 0.22um 4.7MsZ
PKI 107.59 294 PKP 58 41.60 15.8X
DMN 107.86 294 PKP 58 43.80 17.5X
GKN 108.33 295 PKP 58 45.60 18.6X
MAIO 129.69 304 ePKP 59 08.00 0.5
CLL 144.82 354 e(PKP) 59 43.00 8.3X
SPC 145.56 345 ePKP 59 40.00 3.7X
MOX 145.61 355 ePKP 59 36.40 0.3
2.0s 30.00nm 4.4X
PRU 145.93 351 ePKP 59 41.00 4.4X
e 59 59.00
e 00 11.00

GRF 146.59 355 ePKP 59 41.70 4.0X
KHC 146.90 352 ePKP 59 41.00 2.7X
e 59 59.00
e 00 11.00
MLR 146.95 335 ePKP 59 42.00 3.4X
GEC2 147.16 352 PKP 59 42.10 3.3X
1.2s 1.92nm
ZST 147.21 348 ePKP 59 41.80 3.1X
SRO 147.31 346 ePKP 59 42.30 3.4X
GRR 147.39 10 ePKP 59 43.90 4.9X
1.1s 17.60nm
LPF 147.71 10 ePKP 59 43.40 3.9X
1.3s 27.10nm
CDF 148.04 360 ePKP 59 44.90 4.7X
1.4s 14.40nm
HAU 148.44 1 ePKP 59 43.90 3.2X
1.6s 36.05nm
KBA 148.94 352 e(PKP) 00 00.00 18.2X
WTTA 148.96 354 e(PKP) 00 01.00 19.2X

LOR 149.06 4 ePKP 59 45.50 3.8X
1.4s 15.70nm
Z 21s 0.20um 4.9MsZ
SSF 149.24 5 ePKP 59 46.20 4.2X
1.4s 21.80nm
LBF 149.35 4 ePKP 59 46.40 4.2X
1.2s 13.10nm
VBY 150.16 348 e(PKP) 59 49.90 6.5X
LPL 150.93 1 ePKP 59 58.10 13.2X
1.7s 38.95nm
LPG 150.95 1 ePKP 59 58.00 13.0X
1.6s 32.95nm
BCAO 163.70 225 iPKPc 00 08.00 7.0X
0.9s 9.00nm
i 01 05.50
S.D. = 1.0 on 42 of 84 obs.

* FEB 24, 1993 12h 41m 21.50s
36.160 N 89.450 W
DEPTH = 15.0km
NEW MADRID, MISSOURI REGION (486)
<SLM-P>. MD 2.8 (SLM).
MFTN 0.05 89 iPd 41 24.34 -0.1
eS 41 26.96
GRT 0.11 11 ePd 41 24.94 0.0
HATI 0.18 275 iPd 41 26.19 0.1
eS 41 29.33
ACTN 0.22 31 iPc 41 26.70 0.1
eS 41 28.83
BBTN 0.23 359 iPc 41 25.77 -1.0
OGTN 0.26 354 iPc 41 27.20 -0.2
eS 41 31.61
LDMO 0.27 340 iPc 41 27.20 -0.3
eS 41 31.00
NMMO 0.44 349 ePc 41 30.08 -0.2
eS 41 36.72
DWM 0.64 357 eP 41 33.51 -0.4
eS 41 43.23
WGAR 0.67 243 iPd 41 34.27 -0.1
eS 41 43.44
ELC 1.14 9 ePd 41 41.70 -0.6
OLY 1.77 249 eP 41 49.56 -2.2
FVM 1.98 337 ePn 41 55.30 0.5
eSg 42 22.23
NHIL 2.04 30 eP 41 56.03 0.4
BPIL 2.15 18 eP 41 57.83 0.6
MIAR 3.74 246 ePn 42 17.70 -2.1
eSg 43 17.23
16 obs. associated

? FEB 24, 1993 12h 43m 58.43±3.50s
42.357 N ±30.6km 24.195 E ±11.0km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
SRS 1.32 200 eP 44 23.62 0.8
KNT 1.54 220 eP 44 26.18 0.2
VAY 1.60 230 iPn 44 25.40 -1.3
SOH 1.66 203 eP 44 27.58 -0.1
GRG 1.94 224 eP 44 32.86 1.1
ALN 2.01 136 eP 44 32.98 0.2
OUR 2.03 185 eP 44 32.38 -0.6
PAIG 2.46 189 eP 44 38.22 -1.6
MLR 3.38 21 eP 45 03.00 10.6X
S.D. = 1.0 on 8 of 9 obs.

* FEB 24, 1993 13h 00m 56.15±0.90s
43.105 N ±8.8km 0.451 W ±6.7km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.4 (STR).
OGE 0.07 346 Pg 00 58.51 0.0
JAU 0.09 138 Pg 00 58.90 0.0
Sg 01 00.98
ESCF 0.09 254 Pg 00 58.66 -0.2
Sg 01 00.70
ATE 0.18 264 Pg 01 00.16 -0.1
Sg 01 03.32
ISSF 0.26 253 Pg 01 01.94 0.2
Sg 01 06.34
MADF 0.27 279 Pg 01 01.98 0.1
Sg 01 06.62
S.D. = 0.2 on 6 of 6 obs.

FEB 24, 1993 13h 18m 56.65±0.72s

24d 13h

42.376 N \pm 6.7km 24.169 E \pm 7.7km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 ML 2.8 (THE).

SRS	1.33	199	ePb	19	20.90	-0.3
			eSb	19	43.06	
KNT	1.54	219	ePbc	19	24.33	0.1
			eSb	19	47.14	
VAY	1.59	229	iPn	19	24.70	-0.2
SOH	1.67	202	ePb	19	26.06	0.0
			eSb	19	53.54	
GRG	1.94	224	ePn	19	29.14	-0.9
			eSn	19	57.10	
ALN	2.04	136	ePn	19	32.10	0.7
			eSn	20	02.50	
OUR	2.04	184	ePn	19	31.34	-0.1
SKO	2.07	260	eP	19	33.00	1.2
PAIG	2.47	189	ePn	19	37.66	0.0
			eSn	20	14.38	
MLR	3.37	22	eP	19	50.00	-0.5

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

* FEB 24, 1993 14h 04m 04.53 \pm 0.84s
 72.752 N \pm 12.5km 5.850 E \pm 13.9km
 DEPTH = 10.0km (geophysicist)
 3.9mb (2 obs.)
 NORWEGIAN SEA (642)

ARA0	7.12	107	Pn	05	49.17	-2.0
NRA0	12.27	167	Pn	07	03.14	1.2
			Sn	09	11.66	
HFS	13.04	162	eP	07	11.80	-0.4
			0.3s	2.30nm	4.8mb X	
KAF	13.14	134	iP	07	13.20	-0.4
			0.8s	17.30nm	5.2mb X	
NUR	14.26	140	eP	07	27.60	-0.7
			0.5s	5.60nm	4.5mb X	
CLL	21.75	168	eP	09	01.00	3.4X
			1.5s	22.00nm	4.4mb X	
BRG	22.24	166	e(P)	09	04.80	2.3X
MOX	22.33	170	eP	09	08.10	4.7X
			1.4s	31.00nm	4.6mb X	
GRF	23.27	171	eP	09	17.40	4.8X
GEC2	24.25	167	P	09	26.30	4.1X
			1.0s	4.90nm	4.1mb	
SPC	24.51	157	eP	09	28.60	3.8X
ZST	25.16	162	eP	09	34.20	3.3X
			e	18	37.20	
YKA	39.18	321	eP	11	29.50	-4.0X
			1.1s	1.80nm	3.7mb	
MAIO	45.13	113	eP	12	25.00	2.4X
SES	49.68	312	eP	12	57.00	-0.9
BGMT	54.78	310	eP	13	35.90	-0.5
GKN	60.19	92	P	14	15.80	1.1
KKN	60.58	91	P	14	19.00	1.5
GUN	60.65	90	P	14	19.20	1.1

S.D. = 1.3 on 10 of 19 obs.

* FEB 24, 1993 14h 13m 00.93 \pm 0.99s
 72.918 N \pm 11.3km 6.064 E \pm 13.5km
 DEPTH = 10.0km (geophysicist)
 NORWEGIAN SEA (642)

ARA0	7.11	109	Pn	14	47.24	-0.2
			Sn	16	06.52	
NSS	8.69	163	eP	15	08.84	-0.6
			eS	15	14.41	
NRA0	12.42	167	Pn	16	01.16	0.8
HFS	13.18	163	eP	16	09.90	-0.5
			0.3s	1.30nm	4.5mb	
KAF	13.21	135	eP	16	11.20	0.3
			0.4s	3.90nm	4.9mb	
NUR	14.35	140	eP	16	26.00	0.2
OBN	21.86	128	eP	18	01.00	6.0X
YKA	39.09	321	eP	20	29.20	0.0
			0.8s	0.40nm	3.1mb X	

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

* FEB 24, 1993 14h 50m 13.00 \pm 3.17s
 38.935 N \pm 28.0km 20.987 E \pm 12.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.0 (THE).

IGT	0.78	320	ePb	50	28.56	0.3
			eSb	50	46.50	

AGG	1.05	85	ePb	50	33.56	0.7
			eSb	50	56.36	
LIT	1.65	44	ePn	50	43.48	1.4
			eSn	51	13.52	
OHR	2.18	356	ePn	50	49.20	-0.6
PAIG	2.31	64	ePn	50	50.00	-1.6
			eSn	51	26.68	
SOH	2.62	43	ePn	50	56.48	0.3
			eSn	51	34.20	
KNT	2.66	33	ePn	50	57.00	0.4
OUR	2.70	58	ePn	50	56.80	-0.5
SRS	2.96	42	ePn	51	00.16	-0.7

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

FEB 24, 1993 15h 09m 17.25 \pm 1.53s
 17.943 S \pm 7.9km 178.510 W \pm 8.6km
 DEPTH = 580.7 \pm 20.4 km
 4.8mb (22 obs.)

FIJI ISLANDS REGION (181)

BKM	12.62	269	iP	12	04.30	2.1
DZM	14.72	251	iPc	12	25.00	1.9
WLZ	20.51	193	eP	13	19.70	1.9
URZ	20.60	190	eP	13	16.30	-2.2
NOZ	20.82	188	eP	13	21.10	0.6
MNG	23.18	192	P	13	41.20	-0.7
ORZ	24.08	197	eP	13	50.60	0.7
LTZ	25.97	196	eP	14	05.90	-0.7
BRS	28.06	245	iPd	14	24.00	-1.0
			0.9s	5.00nm	4.1mb	
BWZ	28.24	198	eP	14	25.00	-1.3
MMCZ	28.89	198	eP	14	31.10	-1.0
MHZ	28.90	198	P	14	31.60	-0.5
SBCZ	28.92	198	P	14	31.50	-0.7
LSCZ	28.93	198	P	14	31.70	-0.6
CMCZ	28.98	198	eP	14	32.40	-0.4
TLC	29.08	198	eP	14	33.50	-0.2
ARMA	29.84	240	iPc	14	41.00	0.6
			0.6s	25.00nm	5.0mb	
RMD	31.40	248	iPd	14	54.00	0.5
			0.7s	46.00nm	5.2mb	
CNB	33.33	232	iPc	15	11.10	1.5
			0.6s	73.00nm	5.5mb	
CTA	33.34	261	iPd	15	09.90	0.1
			0.9s	21.01nm	4.8mb	
PMG	34.37	280	eP	15	17.50	-0.9
			0.9s	100.84nm	5.4mb	
CMS	34.92	240	iPd	15	23.40	0.6
			0.7s	32.00nm	5.1mb	
TOO	37.07	231	iPd	15	41.60	1.2
			0.8s	86.00nm	5.4mb	
TAU	38.15	222	eP	15	50.00	0.9
STK	38.53	241	iPd	15	53.50	1.1
			0.6s	30.50nm	5.0mb	
BFD	39.14	233	eP	15	58.00	0.8
			0.9s	18.00nm	4.6mb	
ADE	41.54	237	eP	16	17.50	1.0
DHH	43.93	28	eP	16	33.99	-1.3
WB2	44.52	260	iPc	16	38.90	-1.0
			0.3s	81.90nm	5.7mb	
WRA	44.53	260	P	16	39.70	-0.3
			0.8s	5.40nm	4.1mb	
ASPA	44.69	254	iPd	16	41.00	-0.3
			0.7s	308.80nm	5.9mb X	
GUA	47.76	308	eP	17	04.40	-0.2
			0.8s	77.61nm	5.3mb	
GUMO	47.82	308	eP	17	03.90	-1.2
			0.8s	142.10nm	5.5mb	
PJG	47.82	308	eP	17	04.70	-0.4
MTN	48.70	268	eP	17	10.30	-1.5
FORT	49.90	245	iPd	17	19.60	-0.8
MEEK	58.33	249	eP	18	18.70	-1.1
KLB	58.72	244	iPd	18	21.20	-1.1
			0.6s	18.00nm	4.5mb	
BAL	59.68	245	eP	18	27.40	-1.3
			0.6s	34.00nm	4.8mb	
MUN	60.02	243	eP	18	30.20	-0.7
MAT	67.88	323	eP	19	19.00	-1.3
			0.6s	4.67nm	4.2mb	
PLM	77.83	49	eP	20	18.18	1.1
CRP	81.71	13	eP	20	35.01	-1.5
RMW	82.55	35	eP	20	41.58	0.7
PMR	82.66	14	eP	20	40.04	-1.0
			0.4s	3.78nm	4.3mb	
BALM	83.88	17	eP	20	46.79	-0.5
SRU	85.11	46	eP	20	55.00	1.1
NEW	85.60	36	eP	20	56.50	0.7

FBA	0.8s	5.83nm	4.3mb
	85.86	13 eP	20 55.79 -0.9
	0.5s	2.69nm	4.2mb
BGMT	87.03	40 ePc	21 04.20 1.3
BW06	87.45	43 eP	21 05.18 0.2
	0.6s	2.56nm	4.2mb
CHTO	88.92	290 eP	21 13.10 1.2
YKA	94.40	25 eP	21 35.50 -0.7
	0.8s	0.60nm	3.9mb
PKI	103.33	295 Pd diff	22 00.00 -17.5X
CLL	145.47	347 iPKPc	27 52.50 1.6
BRG	145.68	346 e(PKP)	27 53.20 2.0
HRI	145.73	303 iPKPd	27 54.00 1.9
PRU	146.35	345 ePKP	27 58.00 5.6X
ARV1	146.92	299 iPKPd	27 57.40 3.6X
GRF	147.37	348 ePKP	27 58.10 4.1X
KHC	147.39	345 ePKP	27 58.00 3.9X
RMN	147.42	299 iPKPd	27 58.40 3.6X
GEC2	147.62	345 PKP	27 58.40 3.8X
	0.5s	3.90nm	
DOU	147.83	356 PKP	27 59.00 4.3X
VBY	150.22	340 iPKPc	28 05.00 6.5X
OHR	151.57	328 e(PKP)	28 07.20 6.5X

S.D. = 1.1 on 56 of 66 obs.

FEB 24, 1993 16h 05m 13.72 \pm 0.66s
 36.445 N \pm 8.3km 31.853 E \pm 8.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

BCK	1.43	315	ePn	05	40.00	0.2
			eSg	05	59.00	
ELL	1.59	282	iPn	05	48.50	6.4X
KHL	2.64	316	ePn	05	57.00	-0.1
ADAT	2.88	77	ePn	06	01.00	0.5
ADI	4.36	139	eP	06	21.80	0.3
GAZ	4.36	79	ePn	06	20.80	-0.7
ATZ	4.58	141	eP	06	24.90	0.2
			eS	07	14.20	
SAGI	6.64					

24d 16h

CMS 16.07 139 eP 17 38.00 -0.8
 KLB 18.46 227 eP 17 36.00 -1.5
 BFD 19.04 158 eP 17 46.00 1.3
 BRS 19.17 117 iP 17 37.50 -8.8X
 MUN 19.76 229 eP 17 55.00 1.9
 S.D. = 1.3 on 9 of 11 obs.

& FEB 24, 1993 16h 19m 08.50s
 59.680 N 153.344 W
 DEPTH = 113.0km
 SOUTHERN ALASKA (2)
 <AEIC>.

OPT 0.06 115 eP 19 24.39 1.7
 AUL 0.30 189 eP 19 24.35 1.1
 AUH 0.32 189 eP 19 24.52 -0.5
 AUE 0.32 183 eP 19 24.26 -0.6
 AUI 0.35 187 eP 19 24.36 -0.7
 INW 0.40 15 eP 19 24.44 -1.0
 INE 0.41 20 eP 19 24.66 -0.9
 PDB 0.44 284 iP 19 24.70 -0.9
 MCNL 0.71 226 eP 19 26.60 -0.9
 RS1 0.84 20 P 19 27.87 -1.0
 RS2 0.84 20 eP 19 28.02 -0.9
 RSO 0.84 20 P 19 28.06 -0.8
 RDW 0.85 18 eP 19 28.03 -0.9
 XLV 0.86 105 P 19 27.64 -1.2
 RDN 0.89 19 eP 19 28.53 -0.7
 NCT 0.91 13 eP 19 28.47 -1.0
 DFR 0.97 20 iP 19 29.13 -0.9
 CNPM 1.08 97 eP 19 29.91 -1.2
 NKA 1.50 44 eP 19 36.49 0.7
 CKL 1.60 18 iP 19 36.35 -0.9
 CKT 1.63 20 iP 19 36.45 -1.1
 SPU 1.64 22 iP 19 36.41 -1.2
 CKN 1.65 20 iP 19 36.99 -0.8
 BGL 1.66 16 iP 19 37.20 -0.7
 CP2 1.68 18 eP 19 37.57 -0.7
 CPAM 1.69 20 eP 19 37.40 -0.9
 CRP 1.70 20 eP 19 37.59 -0.9
 SLKM 1.77 61 eP 19 37.85 -1.4
 SVW 1.83 323 P 19 38.90 -1.0
 SEW 2.01 76 eP 19 40.63 -1.5
 MPA 2.15 66 eP 19 42.55 -1.5
 SUA 2.20 35 eP 19 44.30 -0.5
 PMS 2.44 48 P 19 46.70 -1.2
 PTE 2.46 59 eP 19 46.65 -1.4
 SKT 2.47 20 eP 19 47.03 -1.3
 PLRM 2.83 45 eP 19 49.77 -3.1
 GH0 3.02 44 eP 19 53.22 -2.4
 SML 3.26 47 eP 19 56.20 -2.6
 HIN 3.51 75 eP 19 59.32 -2.8
 SCM 3.66 51 eP 20 01.85 -2.4
 40 obs. associated

FEB 24, 1993 16h 29m 56.17± 0.22s
 34.843 N ± 4.6km 69.754 E ± 3.5km
 DEPTH = 33.0km (normal)
 4.9mb (52 obs.) 4.3Msz (6 obs.)
 AFGHANISTAN (709)

QUE 5.21 208 eP 31 16.00 2.0
 1.0s 600.00nm 6.0mb X
 MAIO 8.49 283 ePn 32 01.00 1.2
 0.9s 20.46nm 5.3mb
 FRU 8.83 24 iPc 32 07.00 2.5
 1.8s 640.00nm 6.5mb X

NDI 8.83 132 iS 33 46.80
 ASH 9.70 292 eP 32 11.50 -5.0X
 1.0s 170.00nm 6.2mb X
 PRZ 10.19 39 eP 32 27.50 4.2X
 1.4s 200.00nm 6.2mb X
 TLG 10.29 33 eP 32 27.10 2.5
 GKN 14.41 114 P 33 18.00 -1.9
 DMN 14.97 115 P 33 25.20 -2.1
 KKN 15.01 114 P 33 25.40 -2.4
 PKI 15.22 114 P 33 28.20 -2.4
 GUN 15.40 112 P 33 30.20 -2.8X
 BOM 16.12 170 eP 33 41.70 -0.1
 eS 37 03.20
 POO 16.65 166 eP 33 52.00 3.3X
 eS 37 10.00
 HYB 19.05 153 eP 34 19.00 0.6
 eS 38 01.00
 GRS 19.22 291 eP 34 19.00 -1.4
 1.4s 30.00nm 4.4mb
 GRO 20.47 302 iPc+ 34 34.00 0.4
 1.5s 240.00nm 5.3mb
 MTA 20.71 297 iP 34 36.60 0.5
 e 38 26.00
 ELT 21.80 27 eP 34 47.00 0.1
 1.2s 93.00nm 5.1mb
 GBA 22.26 160 Pd 34 54.00 2.2
 PYA 22.49 302 iP 34 52.50 -1.5
 1.0s 100.00nm 5.2mb
 KIV 22.73 302 iPc 34 56.90 0.5
 1.0s 44.00nm 4.9mb
 Z 11s 0.50um 4.2MszX
 SVE 22.83 347 ePc 34 58.20 1.1
 3.9s 350.00nm 5.2mb X
 Z 12s 5.00um 5.2MszX
 N 12s 3.50um
 E 12s 1.10um
 ARU 22.87 344 eP 34 58.00 0.5
 1.5s 280.00nm 5.5mb
 Z 13s 2.80um 4.9MszX
 N 11s 2.00um
 E 12s 1.50um
 UER 24.20 39 eP 35 11.00 0.6
 2.0s 42.00nm 4.6mb
 Z 12s 3.83um 5.1MszX
 N 12s 2.00um
 E 12s 2.66um
 LZH 27.71 77 eP 35 42.00
 1.4s 29.00nm 4.8mb
 Z 20s 0.74um 4.3Msz
 N 10s 0.74um
 MOY 28.00 43 eP 35 46.70 0.9
 ZAK 28.85 47 eP 35 54.00 0.5
 1.7s 15.00nm 4.4mb
 Z 18s 1.13um 4.5Msz
 E 16s 1.46um
 KMI 30.05 100 eP 36 03.50 -1.3
 1.5s 40.00nm 5.0mb
 Z 14s 0.90um 4.6MszX
 N 11s 0.50um
 E 13s 0.60um
 pP 36 11.00 26kmX
 eS 41 06.00
 iS 41 26.00
 ScS 46 38.00
 CHTO 30.40 114 eP 36 08.20 0.6
 OBN 30.55 322 ePd 36 08.00 -0.5
 0.7s 26.00nm 5.1mb
 Z 12s 1.30um 4.8MszX
 eP 36 23.00 61kmX
 e 37 10.00
 i 42 51.00
 BDT 31.42 116 eP 36 18.00 1.4
 KHT 32.73 120 iPc 36 30.20 2.1
 MLR 34.74 301 iPc 36 47.00 1.7
 CIT 35.53 47 eP 36 52.20 0.3
 NRI 36.08 11 iPc 36 57.00 0.8
 1.3s 43.00nm 5.2mb

Z 18s 1.10um 4.7Msz
 e 38 26.00
 BOD 37.38 38 eP 37 06.10 -1.2
 1.0s 20.00nm 4.9mb
 UZH 37.39 306 eP 37 10.00 2.5
 1.2s 22.00nm 4.9mb
 KAF 38.49 329 iP 37 16.50 0.0
 0.4s 4.90nm 4.7mb
 NUR 38.60 326 eP 37 17.20 -0.3
 0.3s 4.50nm 4.7mb
 SPC 38.77 307 eP 37 21.10 1.7
 SRO 40.03 305 eP 37 30.80 1.2
 ZST 40.84 306 i(P) 37 36.30 0.1
 e 39 22.40
 SDF 40.93 336 iP 37 36.70 0.0
 IPM 41.76 129 ePc 37 47.90 3.8X
 UPP 41.77 323 iP 37 46.30 2.7X
 VBY 42.25 302 iPc 37 48.70 0.9
 i 39 42.50
 PRU 42.50 308 eP 37 50.00 0.2
 e 38 12.00
 PRU 42.50 308 eP 37 56.00 6.2X
 e 38 24.00
 BRG 42.87 310 iP 37 53.00 0.2
 1.0s 12.00nm 4.6mb
 SSE 42.93 80 eP 37 55.50 2.0
 Z 20s 0.50um 4.4Msz
 E 12s 0.30um
 pP 38 06.20 37kmX
 S 44 20.00
 ScS 47 48.00
 GEC2 43.08 307 P 37 55.10 0.4
 1.2s 7.84nm 4.3mb
 e 37 57.80
 e 38 08.00
 e 39 35.50
 e 39 44.80
 e 39 50.40
 KHC 43.15 307 eP 37 56.00 0.8
 e 38 24.00
 DUI 43.32 296 P 37 57.40 0.7
 RBL 43.33 303 P 37 57.10 0.4
 KBA 43.43 304 iPc 37 58.20 0.5
 0.8s 12.10nm 4.7mb
 i 38 05.20
 CLL 43.46 310 eP 37 58.00 0.4
 HFS 43.76 323 eP 37 59.00 -0.9
 0.4s 5.50nm 4.6mb
 Z 17s 370.00um 7.4MszX
 LR 56 00.00
 ARV 44.13 299 P 38 03.80 0.6
 MOX 44.36 309 eP 38 04.30 -0.6
 1.5s 23.00nm 4.8mb
 WTTA 44.58 305 i(P) 38 06.20 -0.7
 CRE 44.82 299 P 38 09.70 0.8
 SFI 44.85 300 P 38 10.10 1.2
 MOTA 44.93 305 i(P) 38 08.80 -0.9
 0.8s 16.10nm 5.0mb
 PGD 44.95 300 P 38 10.80 0.8
 NB2 45.11 324 P 38 09.70 -1.1
 0.7s 8.60nm 4.8mb
 KGM 45.18 129 eP 38 13.50 1.6
 OSS 45.66 304 ePd 38 15.10 -0.4
 YAK 45.92 35 iPc 38 16.90 -0.2
 1.0s 50.00nm 5.4mb
 VDL 46.14 304 (P) 38 19.70 0.3
 LLS 46.41 304 ePd 38 20.70 -0.8
 TMA 46.61 303 ePd 38 22.30 -0.7
 SLE 46.64 306 (P) 38 21.93 -1.1
 VAI 46.71 303 P 38 23.20 -0.4
 MMK 47.24 303 ePc 38 27.50 -0.6
 CDF 47.36 307 eP 38 27.90 -1.0
 0.9s 6.20nm 4.6mb
 DIX 47.62 303 ePd 38 30.80 -0.3
 TIK 47.68 22 iPd 38 30.00 -0.9
 1.2s 20.00nm 5.0mb
 Z 16s 0.60um 4.7MszX
 i 38 41.00
 e 40 00.00
 e 40 17.00
 ePPP 41 05.00
 iS 45 25.00
 ePS 45 35.00
 BSF 47.76 306 eP 38 31.10 -1.0
 1.1s 27.35nm 5.2mb
 WLF 47.94 308 P 38 34.00 0.8
 EMS 47.95 303 ePd 38 33.20 -0.4

24d 16h

HAU 48.03 306 eP 38 33.30 -0.8
0.6s 9.55nm 5.0mb
Z 21s 0.08um 3.6msz
LPG 48.17 303 eP 38 35.00 -0.5
0.9s 26.35nm 5.3mb
LPL 48.18 303 eP 38 34.90 -0.6
0.6s 19.55nm 5.3mb
BNI 48.31 302 P 38 36.10 -0.2
DOU 48.88 309 P 38 40.90 0.4
e 40 05.60
LOR 49.82 306 eP 38 46.50 -1.3
0.7s 3.40nm 4.5mb
Z 21s 0.15um 4.0msz
SMF 49.95 305 eP 38 48.20 -0.6
0.8s 30.20nm 5.4mb
SSF 50.09 305 eP 38 49.10 -0.8
1.1s 16.10nm 5.0mb
AVF 50.25 305 eP 38 50.30 -0.7
0.9s 25.20nm 5.2mb
MAF 50.90 304 eP 38 55.70 -0.3
1.2s 29.75nm 5.1mb
TCF 51.12 305 eP 38 57.50 -0.2
0.8s 18.55nm 5.1mb
CAF 51.53 303 eP 39 00.60 -0.3
0.9s 17.05nm 5.0mb
LSF 51.59 305 eP 39 00.30 -1.0
RJF 51.82 304 eP 39 02.70 -0.3
0.7s 8.05nm 4.8mb
LPO 52.20 303 eP 39 05.30 -0.5
1.0s 14.40nm 4.9mb
MFF 52.64 305 eP 39 08.00 -1.1
0.8s 17.05nm 5.1mb
EPF 53.22 301 eP 39 13.00 -0.5
1.1s 12.70nm 4.8mb
YSS 54.57 53 (P) 39 22.40 -0.9
e 39 36.10
DAG 56.06 344 eP 39 32.40 -1.3
0.9s 26.05nm 5.3mb
BCAO 56.13 249 iPc 39 32.50 -2.5
0.9s 18.00nm 5.1mb
i 39 46.00
MGD 56.20 37 eP 39 34.00 -0.9
e 39 44.00
ILT 65.66 23 iPc 40 38.00 -0.9
1.2s 11.00nm 4.8mb
RES 70.28 356 eP 41 09.00 1.4
IMA 74.00 17 ePd 41 28.80 -1.2
1.0s 7.54nm 4.6mb
i 41 39.73
FBA 76.34 16 eP 41 42.33 -0.9
0.8s 7.82nm 4.8mb
BALM 80.93 15 eP 42 08.10 -0.3
WRA 82.00 121 P 42 14.40 0.0
0.6s 2.30nm 4.4mb
WB2 82.01 121 iPc 42 15.40 0.9
0.4s 5.00nm 4.9mb
YKA 82.94 2 eP 42 16.50 -2.1
1.0s 6.10nm 4.6mb
ASPA 84.15 124 iPd 42 26.20 0.8
0.8s 5.40nm 4.8mb
FCC 85.78 352 eP 42 38.00 5.0X
JAO 86.79 340 eP 42 38.50 0.3
NEW 97.04 5 eP 43 26.60 0.7
0.5s 3.63nm 5.2mb
MDZ 145.74 261 i(PKP) 49 34.90 1.8
S.D. = 1.1 on 106 of 115 obs.

* FEB 24, 1993 17h 19m 56.17±0.47s
19.396 N ±7.9km 121.238 E ±9.9km
DEPTH = 33.0km (normol)
4.9mb (18 obs.)
PHILIPPINE ISLANDS REGION (248)

BAG 3.03 192 eP 20 44.00 0.8
KMI 18.04 292 eP 24 04.50 -1.8
Z 15s 1.20um
N 10s 0.70um
E 10s 0.60um
pP 24 10.50
BJI 21.03 349 eP 24 38.50 -1.0
1.2s 16.00nm 4.3mb
Z 16s 0.70um 4.1mszX
eS 28 36.00
CHTO 21.07 272 ePd 24 41.40 1.3
1.2s 18.40nm 4.4mb
BDT 21.22 268 eP 24 43.00 1.5

NNT 21.74 255 eP 24 57.00 10.2X
LZH 22.60 321 eP 24 56.50 1.1
1.4s 46.00nm 4.8mb
Z 16s 0.74um 4.2mszX
N 12s 0.55um
pP 25 05.50 32kmX
sP 25 09.50
MAT 22.66 38 eP 24 58.00 2.2
eS 29 07.00
WB2 41.16 161 iPd 27 37.70 -1.5
0.9s 6.40nm 4.4mb
GBA 42.31 269 P 28 00.00 11.3X
ASPA 44.55 163 iPd 28 06.20 -0.6
0.7s 8.60nm 4.7mb
QUE 50.04 293 eP 28 51.40 1.3
MAIO 56.25 301 eP 29 36.00 0.0
SVW 69.92 31 (P) 31 07.20 1.3
1.0s 10.00nm 4.8mb
IMA 70.46 26 eP 31 10.20 1.0
1.0s 5.50nm 4.6mb
OBN 71.29 323 iPd 31 14.00 -0.2
1.2s 40.00nm 5.3mb
e 31 23.00
KAF 75.33 331 eP 31 36.30 -1.4
0.8s 13.40nm 5.0mb
NUR 76.51 330 eP 31 44.00 -0.3
0.8s 12.70nm 5.0mb
MLR 80.02 315 eP 32 04.00 -0.1
DAG 81.10 351 eP 32 07.10 -2.0
1.0s 12.00nm 4.9mb
HFS 81.76 331 eP 32 11.30 -1.4
0.5s 9.50nm 5.1mb
N82 82.47 333 P 32 15.50 -1.0
0.7s 7.20nm 4.8mb
VAY 83.69 311 eP 32 23.00 -0.1
SKO 84.25 312 iP 32 26.00 0.0
i 32 36.30
MUD 85.54 329 iPd 32 32.00 0.0
0.7s 16.00nm 5.3mb
BRG 85.55 323 iP 32 32.50 0.3
1.0s 10.00nm 5.0mb
PRU 85.58 322 eP 32 32.00 -0.4
e 32 42.50
CLL 85.90 323 eP 32 34.00 0.0
GEC2 86.56 321 P 32 37.60 0.1
1.0s 2.10nm 4.3mb
e 32 41.80
e 32 48.60
LPG 92.32 320 eP 33 04.90 0.0
0.9s 8.20nm 5.2mb
LPL 92.32 320 eP 33 05.80 1.0
1.0s 6.80nm 5.0mb
S.D. = 1.1 on 29 of 31 obs.

* FEB 24, 1993 17h 56m 40.92±1.23s
12.745 N ±10.8km 144.429 E ±24.8km
DEPTH = 32.2 ±10.6 km
4.3mb (6 obs.) 4.3msz (3 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA 0.92 31 eP 56 56.80 -0.7
eS 57 11.30
GUMO 0.94 27 Pn 56 57.30 -0.5
Pg 56 58.10
iS 57 11.30
PJG 0.94 27 eP 56 57.40 -0.4
NMCC 2.70 27 eP 57 25.00 2.0
eS 57 57.00
MAT 24.35 348 eP 01 57.00 -0.1
1.0s 12.00nm 4.4mb
Z 20s 1.06um 4.3msz
eS 06 07.00
WB2 33.96 197 eP 03 23.00 -0.7
0.5s 3.80nm 4.6mb
ASPA 37.62 196 eP 03 56.30 1.5
0.9s 4.50nm 4.3mb
Z 21s 0.40um 4.2msz
eS 10 55.10
LZH 43.22 310 eP 04 41.00 -0.1
1.5s 27.00nm 4.8mb
Z 18s 0.34um 4.3msz
pP 04 50.00 30kmX
STK 44.45 183 eP 04 50.20 -0.6
0.6s 1.30nm 4.0mb
YKA 85.80 27 eP 09 07.80 -0.4
0.6s 0.30nm 3.6mb
S.D. = 1.2 on 10 of 10 obs.

* FEB 24, 1993 18h 11m 46.70±1.26s
39.201 N ±11.6km 21.623 E ±7.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.8 (THE).

AGG 0.58 108 ePg 11 59.84 1.4
eSg 12 09.28
IGT 1.05 289 ePg 12 05.76 -0.8
eSg 12 20.12
LIT 1.12 36 ePbc 12 08.62 0.9
eSb 12 25.00
FNA 1.59 353 ePb 12 15.88 0.9
eSb 12 36.60
PAIG 1.75 65 ePb 12 15.76 -1.5
eSb 12 38.04
GRG 1.85 19 ePn 12 18.32 -0.5
eSn 12 44.08
OHR 2.01 342 ePn 12 22.30 1.2
SOH 2.09 39 ePn 12 21.68 -0.6
eSn 12 47.08
OUR 2.14 57 ePn 12 21.82 -1.1
eSn 12 46.78
KNT 2.19 26 ePn 12 23.68 0.0
eSn 12 50.48
VAY 2.24 19 ePn 12 27.70 3.4X
SRS 2.44 38 ePn 12 27.24 0.1
eSn 12 56.04
S.D. = 1.1 on 11 of 12 obs.

* FEB 24, 1993 18h 14m 27.79±1.41s
39.177 N ±12.7km 21.738 E ±8.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.8 (THE).

AGG 0.49 108 ePg 14 38.68 1.0
eSg 14 45.36
LIT 1.09 32 ePb 14 48.20 -0.1
eSb 15 04.80
IGT 1.15 288 ePb 14 47.96 -1.3
eSb 15 05.96
FNA 1.63 350 ePb 14 56.28 -0.4
eSb 15 19.00
PAIG 1.68 63 ePb 14 56.52 -0.8
eSb 15 17.76
GRG 1.85 16 ePb 14 59.52 -0.3
eSb 15 23.20
SOH 2.06 37 ePn 15 02.56 -0.3
eSn 15 27.76
OHR 2.06 340 ePn 15 06.00 3.1
OUR 2.08 56 ePnc 15 02.66 -0.5
eSn 15 28.52
KNT 2.17 24 ePn 15 05.00 0.5
eSn 15 30.92
VAY 2.23 16 ePn 15 08.40 3.0X
SRS 2.40 36 ePn 15 06.76 -1.0
eSn 15 36.16
SKO 2.80 355 ePn 15 22.20 8.7X
S.D. = 1.3 on 11 of 13 obs.

* FEB 24, 1993 19h 01m 05.60±0.84s
13.607 S ±10.3km 34.703 E ±12.1km
DEPTH = 10.0km (geophysicist)
4.0mb (1 obs.)
MALAWI (577)
mbLg 3.7 (BUL).

MTD 4.36 223 iPn 02 15.50 2.0
iSn 03 06.00
iSg 03 27.00
CIR 7.95 202 iPn 03 01.00 -3.0X
iSn 04 24.50
iSg 05 06.00
BUL 8.73 221 iPn 03 12.70 -2.3X
iSn 04 45.00
iSg 05 35.00
BFT 12.79 199 eP 04 09.00 -1.5
S 06 15.50
SLR 13.49 206 eP 04 16.00 -3.7X
S 06 40.00
AVY 13.58 115 eP 04 21.80 0.8
KSR 14.23 210 e(P) 04 34.00 4.5X
S 06 57.50
PRY 14.88 206 e(P) 04 35.00 -3.0X
S 07 39.00

BLF	17.33	206	eP	05 09.00	-0.4	KKN	57.31	275	P	32 28.40	-1.2	LIT	0.09	68	ePd	23 54.74	-0.7
			(S)	07 31.50		PKI	57.39	275	P	32 29.40	-0.9				eSg	23 57.12	
FRS	18.26	207	eP	05 18.00	-2.8X	BGMT	57.49	57	ePc	32 30.60	-0.1	THE	0.72	38	ePg	24 06.76	-0.2
			S	07 41.10					e	32 56.70					eSg	24 16.40	
WIN	18.94	239	eP	05 29.00	-0.5	DMN	57.55	275	P	32 31.00	-0.4	GRG	0.89	1	ePg	24 09.88	0.0
			(S)	08 52.00		GKN	57.57	275	P	32 30.20	-1.1				eSg	24 23.12	
BCAO	24.06	317	ePc	06 23.00	0.9	TNP	59.43	66	eP	32 44.40	0.2	PAIG	1.00	9B	ePg	24 12.28	0.4
	0.3s														eSg	24 26.32	
			i	06 24.10		NNT	59.61	251	eP	32 45.50	0.1	AGG	1.05	182	ePg	24 12.28	-0.3
			i	06 33.20		KAF	60.43	336	eP	32 47.80	-2.7X				eSg	24 26.60	
GBA	50.23	59	P	10 11.00	6.9X		0.4s		1.70nm			FNA	1.05	313	ePg	24 12.64	-0.1
GEC2	64.90	345	P	11 46.70	-0.7	BW06	60.47	58	ePd	32 51.00	-0.3				eSg	24 27.44	
	0.7s						0.9s		5.65nm			SOH	1.06	44	ePg	24 12.40	-0.4
			e	11 57.10		NUR	62.22	335	eP	33 01.00	-1.4				eSg	24 27.84	
NUR	74.30	355	eP	12 39.00	-5.6X	RSSD	62.40	53	eP	33 04.00	-0.2	KNT	1.16	19	ePb	24 14.60	0.0
KAF	75.76	356	eP	12 52.30	-0.6	PV09	63.70	61	eP	33 12.30	-0.6				eSb	24 31.56	
	0.5s					NB2	64.82	342	P	33 17.80	-1.7	OUR	1.25	77	ePb	24 16.36	0.2
YKA	126.53	343	ePd	17 09.80	19.7X		0.7s		3.20nm			SRS	1.39	41	ePb	24 19.12	0.8
	0.5s					HFS	65.15	341	eP	33 19.60	-1.9				eSb	24 37.20	
							0.3s		1.90nm			IGT	1.67	252	ePb	24 22.56	0.3
															eSb	24 45.84	
S.D. = 1.3 on 8 of 17 obs.						JAO	66.72	31	eP	33 31.50	-0.1	S.D. = 0.5 on 11 of 11 obs.					
FEB 24, 1993 19h 22m 51.94± 0.63s						HYB	69.09	272	eP	33 45.50	-1.4	? FEB 24, 1993 20h 24m 03.46± 2.89s					
51.075 N ± 5.0km 156.473 E ± 5.7km						GBA	72.66	270	P	34 08.00	-0.3	28.829 N ±35.6km 129.039 E ±21.0km					
DEPTH = 119.4 ± 5.8 km						WB2	73.34	202	iPd	34 11.00	-1.0	DEPTH = 33.0km (normal)					
4.4mb (34 obs.)							0.7s		32.50nm			RYUKYU ISLANDS (238)					
KAMCHATKA (217)						WRA	73.34	202	P	34 11.60	-0.4	KAGJ	2.84	34	P	24 47.20	-0.3
							0.8s		7.90nm					S		25 20.00	
SKR	0.47	210	iPnc	23 08.60	-1.3	DZM	73.35	170	iPd	34 13.50	1.4	KUMJ	4.00	22	P	25 04.50	0.5
PET	2.36	34	iPnd	23 31.50	1.0	PRU	74.22	336	eP	34 20.50	3.7X	SSE	7.18	290	ePn	25 49.00	0.3
	Z	20s							e	34 30.00			Z	12s		0.80um	
KUR	8.20	228	iPnd	24 50.00	0.5	DMU	74.47	350	eP	34 20.00	1.8		N	12s		1.40um	
			(S)	26 19.50		DLF	75.03	350	eP	34 21.00	-0.4		E	12s		0.60um	
MGD	9.59	343	ePn	25 09.00	0.7	KHC	75.25	336	eP	34 20.50	-2.3				Pg	26 21.00	
			e	27 00.00		ASPA	77.03	201	iPc	34 33.10	0.1				Sg	27 16.30	
YSS	9.90	251	iPnd	25 13.70	1.4	KBA	77.21	335	eP	34 34.00	0.1	LZH	22.42	295	eP	29 00.00	-0.8
			eS	27 07.70		RMQ	77.52	187	iPc	34 35.90	0.4	KMI	23.71	267	eP	29 14.00	0.4
KUSJ	11.30	230	eP	25 24.70	-6.1X		1.0s		29.00nm				N	11s		0.50um	
ASAJ	11.63	239	P	25 37.30	2.1	BRS	78.19	183	eP	34 39.00	-0.2		E	11s		0.40um	
HO0J	12.53	231	eP	25 42.60	-4.3X	LOR	79.24	341	eP	34 45.00	0.1	S.D. = 0.8 on 5 of 5 obs.					
			eS	27 52.10		LBF	79.49	341	eP	34 47.60	1.4	% FEB 24, 1993 20h 55m 04.83± 0.66s					
MRRJ	13.63	237	eP	25 57.80	-3.4X	SSF	79.51	342	eP	34 47.60	1.3	44.391 N ± 6.0km 7.356 E ± 7.5km					
			eS	28 19.70			0.6s		2.55nm			DEPTH = 10.0km (geophysicist)					
OFUJ	15.87	227	eP	26 23.80	-5.9X	AVF	79.80	342	eP	34 49.10	1.3	NORTHERN ITALY (545)					
YAK	18.22	317	iPd	26 57.00	-1.1		0.6s		3.00nm			ML 1.5 (GEN).					
	1.0s					SMF	79.84	341	eP	34 49.20	1.1	STV	0.15	189	P	55 08.25	-0.1
			iS	30 18.00			0.7s		3.65nm					S		55 10.26	
MAT	19.54	229	eP	27 11.00	-1.3	LPL	80.29	339	eP	34 50.80	0.0	ENR	0.17	164	P	55 08.80	0.0
	0.9s						0.6s		1.70nm					S		55 11.31	
CHJJ	19.57	227	eP	27 10.20	-2.4	LPG	80.31	339	eP	34 51.40	0.5	PZZ	0.21	302	P	55 09.85	0.3
MTMJ	19.70	230	eP	27 13.50	-0.5		0.5s		2.05nm					S		55 13.14	
IIDJ	20.54	228	P	27 21.80	-0.8	MAF	80.50	342	eP	34 52.90	1.3	ROB	0.38	105	P	55 13.01	0.3
ILT	20.80	27	iPc	27 23.50	-1.3		0.9s		10.45nm					S		55 19.17	
	1.4s					TCF	80.51	342	eP	34 52.50	0.9	BHB	0.45	352	P	55 13.78	-0.3
			i	27 46.00			0.8s		7.00nm					S		55 20.15	
			eS	31 07.40		MSF	80.64	344	eP	34 53.20	1.0	IMI	0.62	141	P	55 16.99	-0.3
			i	31 31.00			0.5s		3.30nm					S		55 25.23	
			i	31 51.00		LSF	80.67	343	eP	34 54.10	1.6	S.D. = 0.4 on 6 of 6 obs.					
WKYJ	22.67	230	P	27 44.40	0.8	ARMA	81.25	184	iPd	34 56.80	1.2	? FEB 24, 1993 21h 21m 28.78± 4.77s					
YONJ	22.97	235	P	27 48.70	2.3	RUF	81.59	342	eP	34 58.10	0.9	32.825 S ±24.9km 71.712 W ±29.6km					
TKSJ	23.62	232	P	27 54.10	1.4X	CAF	81.84	342	eP	34 59.00	0.4	DEPTH = 57.1 ± 38.8 km					
TIK	24.06	339	eP	27 57.00	0.3		0.6s		3.45nm			NEAR COAST OF CENTRAL CHILE (135)					
	0.8s						0.8s		5.10nm			MD 3.3 (SAN).					
			i	28 23.00		LPO	82.25	342	eP	35 01.80	1.1	ROCH	0.61	104	eP	21 41.76	-0.3
BOD	25.15	302	eP	28 09.80	2.7X		0.8s							iS		21 49.86	
	0.5s					CMS	82.74	189	eP	35 03.50	0.4	LCCH	0.66	170	iPd	21 42.67	0.2
IMA	29.03	40	ePd	28 41.27	-1.1		0.8s		12.00nm					iS		21 51.25	
	0.8s					STK	83.63	193	eP	35 07.90	0.2	PEL	0.92	111	iP	21 46.11	0.3
FBA	31.43	43	ePd	29 02.40	-0.9		2.2s		3.60nm					iS		21 57.53	
	0.9s					FORT	85.27	204	iPd	35 16.40	0.5	JACH	0.95	82	iPd	21 46.38	0.0
ZAK	33.07	290	eP	29 17.30	-0.3	TOO	88.80	189	iPc	35 33.70	0.8			iS		21 58.16	
	1.0s						0.6s		14.00nm					iP		21 47.83	0.3
			e	29 45.00		ZO80	130.36	62	PKPc	41 49.60	-0.9	TACH	1.05	142	eP	21 47.83	0.3
BALM	34.33	49	eP	29 28.62	0.0	LPB	130.58	62	PKP	41 49.60	-1.0			iS		22 01.70	
RES	46.02	20	eP	31 05.50	1.2	CNCB	130.87	63	PKP	41 52.00	0.7	LNV	1.16	167	iP	21 48.74	-0.2
	0.5s					SIV	133.91	54	ePKP	41 47.00	-9.4X	PCH	1.28	129	eP	21 50.59	-0.2
YKA	46.16	40	eP	31 05.00	-0.5				i	42 01.00				iS		22 06.49	
	0.6s											FCH	1.29	113	iP	21 51.36	0.1
KMI	48.25	258	eP	31 21.50	-1.1	S.D. = 1.1 on 72 of 82 obs.								iS		22 06.73	
	1.5s					% FEB 24, 1993 19h 23m 52.87± 0.51s						CHCH	1.42	142	iP	21 52.46	-0.2
			sP	31 35.00		40.068 N ± 4.6km 22.386 E ± 4.5km								iS		22 09.99	
CHTO	55.28	256	ePc	32 14.80	-0.2	DEPTH = 10.0km (geophysicist)											
	1.0s					GREECE (364)											
ORV	55.96	68	ePd	32 19.29	-0.4	ML 1.9 (THE).											
FCC	56.44	36	eP	32 26.00	3.2X												

24d 21h

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

& FEB 24, 1993 21h 54m 20.04s

59.914 N 152.651 W

DEPTH = 15.2km

3.5mb (1 obs.)

SOUTHERN ALASKA

<AEIC>. ML 3.6 (AEIC), 3.5

(PMR).

INE	0.25	306	iPc	54	25.54	-0.4
INW	0.29	303	iPc	54	26.07	-0.4
OPT	0.39	228	eP	54	27.96	-0.2
RS1	0.55	354	iPd	54	30.68	-0.3
RSO	0.55	355	iPd	54	30.69	-0.3
			eS	54	38.56	
RS2	0.55	355	iPd	54	30.72	-0.3
RDW	0.58	352	iPd	54	30.99	-0.4
RDN	0.60	355	iPd	54	31.50	-0.4
			eS	54	39.92	
XLV	0.66	134	iPd	54	31.74	-1.0
			eS	54	40.82	
NCT	0.66	348	iPd	54	32.32	-0.5
AUL	0.67	217	iPd	54	32.57	-0.2
AUE	0.67	214	iPd	54	32.35	-0.5
DFR	0.68	359	iPd	54	32.63	-0.5
AUH	0.68	216	iPd	54	32.92	-0.2
AUI	0.70	215	iPd	54	32.98	-0.4
			eS	54	42.45	
PDB	0.79	261	iPc	54	34.08	-0.8
			eS	54	44.27	
CNPM	0.82	118	iPc	54	34.22	-1.2
			eS	54	44.77	
BRK	0.90	99	ePc	54	35.80	-1.1
			eS	54	47.55	
NKA	1.09	40	iPc	54	41.45	1.4
CDD	1.11	208	iPd	54	39.27	-1.1
			eS	54	55.21	
MCNL	1.13	230	iPd	54	39.75	-1.0
			eS	54	54.72	
CKL	1.30	7	iPd	54	42.65	-0.9
SPU	1.31	13	iPc	54	42.56	-1.1
			eS	54	59.85	
CKT	1.31	9	iPd	54	42.72	-1.0
CKN	1.33	10	ePc	54	43.21	-0.9
SLKM	1.35	63	iPc	54	42.85	-1.4
			eS	55	00.51	
BGL	1.36	5	iPd	54	43.92	-0.6
CPAM	1.37	10	iPd	54	43.93	-0.7
CP2	1.37	8	eP	54	43.29	-1.4
CRP	1.38	10	eP	54	43.42	-1.4
CGLM	1.43	13	P	54	47.00	1.5
SEW	1.62	82	iPc	54	47.14	-0.9
			eS	55	09.31	
MPA	1.74	69	eP	54	48.98	-0.8
SUA	1.82	30	iPc	54	51.12	0.1
			eS	55	14.75	
SVW	1.90	310	ePn	54	50.44	-1.7
			Lg	55	19.85	
PMS	2.03	47	P	54	53.50	-0.5
PTE	2.04	61	eP	54	53.66	-0.4
SKT	2.14	14	iPc	54	56.30	0.6
KDC	2.17	178	ePd	54	55.80	-0.3
			Lg	55	25.77	
PWA	2.21	37	eP	54	58.30	1.7
PLRM	2.41	44	eP	54	59.25	-0.2
PMR	2.41	44	eP	54	59.35	-0.1
			Lg	55	33.34	
GHO	2.61	43	ePc	55	02.90	0.5
SML	2.84	46	iPc	55	05.85	0.2
HIN	3.11	78	ePc	55	07.52	-1.9
SCM	3.24	51	eP	55	11.52	0.2
VLZ	3.35	66	eP	55	11.85	-1.0
HUR	3.40	24	eP	55	15.48	2.0
TTA	3.43	333	eP	55	13.46	-0.6
			Lg	56	06.35	
CVA	3.50	77	eP	55	12.41	-2.5
KLU	3.67	62	iPc	55	16.71	-0.7
TRF	3.72	17	eP	55	18.80	0.5
RND	3.94	26	eP	55	22.42	1.1
TZL	4.12	56	eP	55	23.88	0.2
SDG	4.32	50	eP	55	26.62	0.0
GLB	4.61	67	ePc	55	29.04	-1.7
PAX	4.61	45	eP	55	30.85	0.0
CROM	4.80	76	eP	55	32.71	-0.9
TGL	4.95	76	eP	55	34.59	-1.0
BALM	5.22	73	eP	55	37.19	-2.3

HDA	5.24	28	eP	55	40.13	0.6
CCB	5.26	23	eP	55	40.53	0.7
FBA	5.49	22	eP	55	42.60	-0.5
	0.7s		7.57nm		4.5mb	X
GLM	5.65	23	P	55	45.70	0.3
CTGM	5.70	74	eP	55	44.75	-1.5
IMA	6.20	356	eP	55	51.99	-1.2
	0.7s		3.03nm		4.2mb	X
YKA	18.33	66	eP	58	33.40	-1.4
	0.6s		2.10nm		3.5mb	
			67 obs. associated			

FEB 24, 1993 22h 12m 11.46±0.73s
38.684 N ± 9.4km 29.161 W ± 8.0km
DEPTH = 10.0km (geophysicist)
4.6mb (25 obs.)

AZORES ISLANDS (405)
Felt (V) at Praia do Norte, (IV)
at Castelo Branco, Flamengos,
Cedros, Ribeirinho and Horto on
Faial. Felt (IV) at Candelario,
Sao Mateus, Sao Coetano,
Madelena, Santo Antonio, Sao
Raque do Pico and Lojes do Pico
on Pico. Felt (III) at Rosas,
Velas and Calheta on Sao Jorge.

CALA	0.37	106	iPd	12	19.10	-0.1
			iS	12	23.90	
HOR	0.44	111	iPd	12	20.30	-0.2
			iS	12	25.80	
PICO	0.60	107	iPd	12	22.70	-1.0
			iS	12	30.20	
PDA	2.91	108	iPd	12	56.50	-2.1
			iS	13	28.50	
PAB	19.26	80	eP	16	44.00	5.1X
LPF	22.37	56	iPc	17	12.70	1.7
	1.2s		26.50nm		4.6mb	
GRR	22.58	55	eP	17	14.70	1.6
	1.1s		20.50nm		4.5mb	
MFF	22.67	60	eP	17	15.30	1.3
	1.2s		27.05nm		4.6mb	
EPF	22.67	70	eP	17	15.60	1.5
	1.3s		29.25nm		4.6mb	
LFF	23.06	65	eP	17	18.70	0.8
	1.1s		22.95nm		4.6mb	
LDF	23.11	55	iPc	17	19.20	0.9
	1.1s		16.35nm		4.5mb	
LSF	23.76	62	iPc	17	25.40	0.8
	1.3s		41.15nm		4.8mb	
TCF	24.23	62	iPc	17	29.90	0.6
	0.9s		23.10nm		4.8mb	
MAF	24.47	62	iPc	17	31.90	0.3
	1.1s		22.45nm		4.7mb	
BGF	24.70	61	iPc	17	33.90	0.1
	0.8s		20.70nm		4.8mb	
AVF	25.08	61	eP	17	37.20	-0.1
	1.0s		11.00nm		4.5mb	
SSF	25.22	60	iPc	17	38.30	-0.4
	1.0s		11.00nm		4.5mb	
SMF	25.40	61	iPc	17	40.30	-0.1
	0.9s		18.20nm		4.8mb	
LOR	25.48	60	iPc	17	40.80	-0.4
	1.1s		11.00nm		4.5mb	
Z	19s		0.17um		3.6msz	
LBF	25.53	60	iPc	17	41.10	-0.6
	0.8s		4.45nm		4.2mb	
HAU	27.24	58	eP	17	56.70	-0.7
	1.3s		19.85nm		4.7mb	
Z	20s		0.20um		3.7msz	
BSF	27.52	59	eP	17	59.30	-0.8
	1.4s		17.00nm		4.6mb	
CDF	27.91	58	eP	18	02.90	-0.7
	1.1s		14.40nm		4.7mb	
MOX	30.98	54	iPc	18	30.70	-0.2
	1.5s		20.00nm		4.8mb	
Z	18s		0.40um		4.1msz	
KBA	31.93	61	iPc	18	38.90	-0.5
	1.2s		24.70nm		5.0mb	
KHC	32.12	57	eP	18	40.50	-0.5
GEC2	32.19	58	P	18	40.60	-1.0
	1.0s		2.18nm		4.1mb	
			e	18	48.40	
BRG	32.48	54	eP	18	43.80	-0.2
	1.2s		15.00nm		4.8mb	
PRU	32.79	55	eP	18	47.00	0.3
			ePP	39	44.60	

BZS	37.75	63	eP	19	29.00	0.0
OBN	46.05	47	eP	20	35.00	-1.7
YKA	54.54	325	eP	21	39.30	-2.1
	0.8s		0.80nm		3.8mb	
BCAO	55.04	116	iPc	21	48.30	2.6
	0.7s		6.00nm		4.7mb	
SIV	62.06	215	eP	22	37.00	2.4
ZOBO	65.74	221	Pc	22	57.80	-1.6
	1.8s		21.04nm		5.0mb	
			S.D. = 1.2 on 34 of 35 obs.			

FEB 24, 1993 22h 21m 37.83±0.13s
24.931 S ± 3.3km 68.386 W ± 2.9km
DEPTH = 118.7km (geophysicist)
5.8mb (76 obs.)

CHILE-ARGENTINA BORDER REGION (127)

Mw 5.7 (GS), 5.7 (HRV), mb 5.9

(BRK). Depth from broadband

displacement seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1: Strike=110 Dip=62 Slip=-118

NP2: 339 39 -49

Principal Axes:

T P1g=13 Azm=220

P 62 335

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. F

Energy 6.5±1.6×10¹² Nm

MOMENT TENSOR SOLUTION

Dep 114 No. of sta: 12

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-2.73 Mtt=2.72

Mff=0.02 Mrt=-1.56

Mrf=-1.29 Mtf=-1.93

Principal axes:

T Vol=3.83 P1g=8 Azm=204

N 0.15 31 110

P -3.97 58 307

Best Double Couple: Mo=3.9×10¹⁷

NP1: Strike=325 Dip=46 Slip=-44

NP2: 89 60 -127

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 39S, 79C M.W.: 11S, 11C

Centroid Location:

Origin Time 22:21:44.3 0.2

Lat 25.18S 0.02 Lon 68.45W 0.03

Dep 132.6 1.0 Half-duration 1.7

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-2.68 0.06 Mtt=2.15 0.11

Mff=0.54 0.12 Mrt=-1.10 0.06

Mrf=-0.67 0.06 Mtf=-2.29 0.11

Principal Axes:

T Vol=3.81 P1g=5 Azm=214

N -0.47 27 122

P -3.34 62 313

Best Double Couple: Mo=3.6×10¹⁷

NP1: Strike=331 Dip=47 Slip=-51

NP2: 101 55 -124

ANT	2.22	303	iPd	22	12.20	-2.3
			iS	22	36.50	
SLA	2.64	86	iPc	22	21.40	1.3
			S	22	52.30	
HJA	3.22	59	iPc	22	30.00	2.4
YJA	3.81	44	iPc	22	37.50	1.3
CYA	4.20	147	iPc	22	40.00	-1.0
RTRS	5.31	190	iPd	22	53.60	-2.4
RTPR	5.60	163	iPc	22	57.30	-2.8X
			(S)	23	58.40	
RTLL	6.38	181	iPd	23	07.50	-3.3X
RTCB	6.54	183	iPc	23	09.30	-3.8X
ZON	6.60	182	iPc	23	10.00	-3.8X
CFA	6.65	179	iPd	23	10.80	-3.7X
			S	24	20.00	
RTCV	6.91	181	iPc	23	14.00	-4.0X
TCA	7.21	153	iPc	23	18.90	-3.2X
CCH	7.80	16	P	23	29.00	-1.4X
MRA	7.81	163	ePc	23	26.30	-3.9X
MDZ	7.93	183	i(P)	23	27.80	-4.2X
JACH	7.96	194	iP	23	26.25	-6.1X

CNCB	8.09	3	iPc	23	33.30	-1.2X			e	32	11.90		PLM	74.08	319	iPd	33	03.36	0.5		
ROCH	8.33	195	eP	23	29.98	-7.6X			epP	32	20.91	119kmX	VAH	74.16	260	iPd	33	03.90	0.5		
LPB	8.36	2	iPc	23	35.40	-2.7X		NAV	63.01	349	iPd	31	52.84	-1.3		1.5s	576.60nm		6.1mb		
	0.9s	403.36nm					6.1mb	CVL	63.29	351	ePd	31	55.00	-0.9	TPT	74.24	261	iPd	33	04.70	0.8
		i	23	59.50				CBN	63.37	352	iP	31	55.70	-0.7		1.7s	1170.50nm		6.4mb		
		iS	25	10.00					1.1s	81.00nm		5.6mb	PMO	74.48	260	iPd	33	05.90	0.6		
		LR	25	40.00				NVL	63.47	159	eP	31	55.00	-1.9		1.5s	702.00nm		6.2mb		
PEL	8.43	193	iP+	23	31.50	-7.1X			1.8s	128.00nm		5.6mb	PEC	74.63	320	iPd	33	06.22	0.4		
FCH	8.53	191	iP	23	34.77	-5.5X			e	32	11.00	59kmX		1.2s	435.36nm		6.1mb				
IHA	8.55	199	ePn	23	31.20	-9.1X			e	32	23.00		TVO	74.66	257	iPd	33	06.90	0.5		
		iPg	23	43.90					e	32	41.00			1.8s	963.30nm		6.3mb				
		e(S)	25	06.50					e	33	03.00		SRU	74.91	327	iPd	33	07.71	0.2		
ZOBO	8.60	2	iPc	23	38.80	-2.8X		MBO	63.58	58	iPc	31	58.00	-0.2	CER	74.92	120	iPd	33	08.00	0.3
Z	22s	4.40um							iS	40	25.00				i	33	36.00	109kmX			
		iS	25	07.00				UYO	63.78	336	iPd	31	58.00	-1.2	PAE	74.99	257	iPd	33	08.50	0.3
		LR	26	33.00				MIAR	63.80	337	iPd	31	57.88	-1.5		1.3s	268.60nm		5.9mb		
SAN	8.72	193	eP	23	34.74	-7.8X			1.2s	458.93nm		6.3mb	PPT	75.02	257	iPd	33	08.90	0.5		
PCH	8.86	192	iP	23	37.77	-6.7X		Z	21s	0.22um		4.3msz		1.5s	595.40nm		6.2mb				
ARE	8.91	340	eP	23	40.00	-5.4X		OLY	63.95	339	eP	31	57.95	-2.4X	SSK	75.17	319	iPd	33	09.60	0.5
		iS	24	14.70					e	32	33.35	148kmX			eP	33	39.60	118kmX			
LCCH	8.96	197	iP	23	36.81	-8.9X		GRT	64.03	341	eP	31	58.99	-1.8	AFR	75.21	257	iPd	33	09.70	0.2
TACH	8.97	194	iP	23	38.04	-7.9X		ELC	64.92	342	iPd	32	04.49	-2.1	MSU	75.27	326	iPd	33	10.22	0.6
CHCH	9.19	192	iP	23	41.34	-7.5X				epP	32	35.12	125kmX	ARUT	75.38	325	iPd	33	11.06	0.8	
CACH	9.35	191	eP	23	44.19	-7.0X		MCWV	65.14	350	eP	32	07.13	-0.8	PAS	75.41	319	ePd	33	10.66	0.4
LNV	9.37	196	iP	23	41.96	-9.3X			1.1s	259.04nm		6.1mb	GSC	75.42	321	(P)	33	11.51	1.1		
RFA	9.81	180	iPc	23	50.70	-6.5X			e	32	39.01	131kmX	EMUT	75.59	328	iPd	33	11.71	0.3		
SIV	11.22	39	iPc	24	16.00	0.0		SPA	65.22	180	iPd	32	07.30	-1.2	RSSD	76.08	334	iPc	33	13.83	-0.3
LPA	13.45	140	eP+	24	44.00	-0.9			0.8s	40.00nm		5.4mb		Z	1.0s	205.63nm		5.9mb			
NNA	15.16	327	iPd	25	04.58	-2.4X		GMTN	65.70	355	iP	32	10.80	-0.6		Z	22s	0.27um		4.5msz	
	1.7s	865.38nm					5.7mb	PAL	65.80	355	P	32	11.69	-0.4			S	43	02.33		
		eS	27	47.95				CPD	65.85	355	P	32	11.69	-0.8	DAU	76.27	328	iPd	33	15.82	0.5
PPD	15.93	83	eP	25	14.40	-2.1X		FNO	65.87	334	iPd	32	11.20	-1.5	TPNV	76.29	322	iPd	33	16.32	1.0
		e	25	17.30				FVM	65.92	341	iPd	32	11.02	-1.9		1.0s	254.25nm		6.0mb		
		(S)	28	15.00					1.1s	751.21nm		6.5mb	SUR	76.46	120	ePc	33	15.64	-0.9		
BAO	21.22	68	iPd	26	12.80	-3.0X				epP	32	40.75	121kmX	SBC	76.53	318	ePc	33	15.75	-0.7	
		e	26	14.00			4kmX	MEO	65.93	333	iPc	32	11.40	-1.7			epPc	33	43.89	110kmX	
		e	26	33.40				TBR	65.96	355	iPd	32	12.42	-0.7			ePc	33	59.12		
		e	30	01.60						epP	32	42.02	120kmX	DUG	76.87	327	iPd	33	18.94	0.5	
		e	30	06.90				WMOK	65.97	333	iPd	32	11.21	-2.2		1.0s	145.88nm		5.7mb		
BMA	22.28	89	ePc	26	24.80	-1.2			1.6s	297.56nm		6.0mb	WIN	76.94	109	iPd	33	19.50	0.2		
		e	26	31.20			23kmX	Z	21s	0.46um		4.7msz			1.0s	45.00nm		5.2mb			
		e	26	36.70						epP	32	39.95	116kmX		Z	22s	3.33um		5.6msz		
PSO	27.38	340	eP	27	16.00	1.6			e	40	50.50			BCH	77.26	319	iPd	33	21.49	0.8	
BOG	29.89	349	eP	27	28.00	-8.8X		OCO	66.13	334	iPd	32	13.90	-0.4	BW06	77.32	330	iPd	33	20.37	-0.6
		eS	32	27.00				CCM	66.23	340	iPd	32	13.62	-1.3		1.4s	201.72nm		5.7mb		
		e	32	27.00						ed	32	43.58	122kmX	ANTZ	77.38	50	iPd	33	21.50	0.2	
CUM	35.42	7	iP	28	22.40	-1.9				esPc	32	54.18				i	33	23.00	5kmX		
TPP	35.68	12	eP	28	27.00	0.5				iS	40	50.64				i	33	25.00			
TCE	36.00	11	eP	28	28.57	-0.6				e	41	54.21		TNP	77.63	323	iPd	33	23.43	0.6	
GRW	37.44	11	eP	28	40.02	-1.4				e	32	18.94	-1.8		1.3s	302.26nm		5.9mb			
SLB	39.18	11	eP	28	54.07	-1.8		HRV	67.16	357	ePc	32	18.94	-1.8			302.26nm		5.9mb		
BIM	39.85	11	iPc	28	59.49	-1.8			1.0s	363.55nm		6.2mb	PHAM	77.89	319	iPd	33	24.68	0.7		
MVM	39.92	11	iPc	29	00.07	-1.8		Z	20s	0.40um		4.6msz	HVU	78.05	328	iPd	33	25.22	0.3		
FDF	40.05	11	eP	29	00.91	-2.1				esPc	33	01.82		MRCM	78.06	322	ePd	33	25.59	0.4	
CRM	40.11	11	eP	29	01.58	-1.8				S	41	04.78		BONR	78.15	322	eP	33	26.42	0.7	
MGP	42.70	2	iP	29	22.00	-2.5X		ACO	67.81	334	iPc	32	23.60	-1.4			epP	33	56.87	120kmX	
PORP	42.76	2	iP	29	22.10	-2.9X		RSNY	69.37	355	iPc	32	34.02	-0.3			eP	33	26.42	0.7	
SJG	42.84	3	iP	29	23.10	-2.6X			1.0s	282.45nm		6.1mb	PRI	78.26	319	iPd	33	26.92	0.8		
LPR	43.05	4	iP	29	24.10	-3.3X		Z	21s	0.22um		4.4msz	FRI	78.28	320	iPd	33	25.48	-0.6		
IDE	43.06	1	iP	29	24.70	-2.8X				e	33	05.99	130kmX	MEMM	78.31	321	eP	33	27.44	1.3	
APR	43.15	2	iP	29	25.00	-3.2X				e	32	36.32	-0.1	JAO	78.66	356	ePd	33	26.50	-1.2	
TPX	45.93	327	(P)	29	51.50	1.0		ALO	69.62	327	iPd	32	36.32	-0.1	PTI	78.69	329	eP	33	28.82	0.4
OXX	50.07	324	(P)	30	24.00	1.2			1.6s	558.77nm		6.1mb	ULM	78.72	342	iPd	33	31.40	3.2X		
ACX	51.64	320	(P)	30	35.50	1.0		ANMO	69.63	327	iPd	32	37.41	1.0	LLA	78.75	319	iPd	33	29.42	0.7
III	52.62	322	(P)	30	42.50	0.4				eS	41	37.90		PRS	78.81	319	eP	33	29.77	0.8	
PPM	52.72	323	(P)	30	43.50	0.4				esS	42	29.55		KVN	78.81	323	iPd	33	29.70	0.5	
UNM	53.24	323	(P)	30	48.00	1.4				e	43	08.03		HHA	79.02	329	iPd	33	30.84	0.7	
MRX	54.66	321	(P)	30	57.50	0.8		TUC	69.83	323	ePc	32	36.41	-1.2	SAO	79.14	319	eP	33	31.04	0.2
HBF	58.67	348	eP	31	23.59	-1.2			1.3s	471.44nm		6.2mb			1.3s	180.00nm		5.7mb			
SGS	58.94	348	eP	31	24.98	-1.8				epP	33	07.51	125kmX	CMB	79.39	321	iPd	33	32.11	0.0	
		e	32	14.55			218kmX		eS	41	30.61				1.4s	230.00nm		5.8mb			
JSC	60.14	348	iPd	31	33.67	-1.3		MIM	69.84	360	eP	32	36.66	-0.5	ARN	79.59	320	iPd	33	34.15	0.9
		epP	32	02.86			120kmX	LMN	70.52	3	ePd	32	44.00	2.7X	COE	79.61	319	iPd	33	34.62	1.3
		e	32	19.12				HNME	70.75	0	ePd	32	47.31	4.6X	GCC	79.65	319	iPd	33	34.31	0.8
PRM	60.17	347	iPd	31	33.62	-1.6				epP	33	17.26	120kmX	TPMT	79.80	330	iPd	33	35.90	1.4	
		e	31	59.38			104kmX			eP	32	47.17	-0.1	MEMT	80.17	331	iPd	33	36.60	0.3	
		e	32	18.89				CBM	71.52	0	iPd	32	47.17	-0.1	PCC	80.19	319	eP	33	36.87	0.5
LHS	60.25	348	iPd	31	34.38	-1.3		Z	18s	433.84nm		6.1mb	HMR	80.29	320	eP	33	38.32	1.5		
MZX	60.42	319	(P)	31	37.00	0.0		EEO	71.89	352	ePd	32	51.40	1.9	BGMT	80.36	330	iPd	33	37.80	0.4
CEH	61.33	350	iPd	31	41.72	-1.3		GLA	72.67	320	iPc	32	54.74	0.3	BKS	80.36	320	iPd	33	37.54	0.3
	1.2s	369.92nm					6.3mb	GLD	72.95</												

24d 22h

FRS	81.03	119	iPd	33	41.20	0.1	EHUE	87.77	46	eP	34	14.46	-0.2	RSL	97.72	43	P	35	00.81	0.4
	0.7s	65.07nm				5.5mb	MCW	87.94	327	iPd	34	07.01	-8.1X	BHB	97.73	44	P	35	00.21	-0.1
							STW	88.00	327	P	34	15.99	0.6	PGF	97.81	47	P	35	01.15	0.3
HBMT	81.04	330	iPd	33	41.80	0.8	PGC	88.22	327	ePd	34	16.50	0.1	ROB	97.86	45	P	35	00.44	-0.5
ORV	81.06	321	iPd	33	41.59	0.7		1.2s	223.00nm			6.1mb	RSP	97.87	44	P	35	01.54	0.5	
BUT	81.19	331	iPd	33	42.60	0.9	EVIA	88.29	46	eP	34	17.50	0.3	LSD	97.95	43	P	35	02.36	0.8
HRY	81.41	331	iPd	33	43.40	0.7	GUD	88.37	43	iPd	34	17.90	0.3	FIN	98.04	45	P	35	00.95	-0.8
MIN	81.65	322	iPd	33	43.38	-0.8	EALH	88.57	47	eP	34	18.24	-0.1	PCP	98.41	45	P	35	03.14	-0.2
LMEM	81.76	322	eP	33	44.86	0.1	BCAO	89.06	85	iPd	34	21.10	-0.2	ORX	98.54	44	P	35	03.37	-0.7
AVE	81.96	48	iPd	33	46.80	1.1		0.9s	50.00nm			5.6mb	DOU	98.60	39	Pc	35	03.90	-0.1	
												115kmX	BSF	98.82	41	iPd	35	04.30	-0.9	
BLF	81.98	118	iPd	33	46.80	0.6						34 51.20			1.0s	7.60nm			5.2mb	
							ETOR	89.79	44	iPd	34	24.78	0.6	WLF	99.29	39	iPc	35	07.70	0.6
WDC	82.34	321	iPd	33	46.32	-1.2	CIR	89.85	113	iPd	34	25.00	0.1	CDF	99.37	41	iPd	35	07.00	-0.7
	1.3s	170.00nm				5.7mb						34 55.10	115kmX		1.0s	10.00nm			5.4mb	
LBFM	82.49	322	iPd	33	48.50	-0.1	ECRI	90.50	42	ePd	34	28.11	0.7	RES	100.85	353	ePd	diff35	15.00	1.2
LGPM	82.72	322	ePd	33	49.30	-0.4	EGRA	91.64	44	iPd	34	35.06	2.6X		1.0s	3.00nm			4.9mb	
FOX	83.13	321	eP	33	52.69	1.2	MTD	91.74	109	iPd	34	37.00	3.3X	WTTA	101.52	43	iPd	diff35	17.00	0.1
KMPM	83.13	321	ePd	33	52.54	0.8						35 06.50	112kmX		1.2s	34.70nm			5.9mb	
FHC	83.31	321	ePd	33	53.47	0.9	EPF	92.49	43	iPd	34	36.90	0.4	GRF	102.26	41	ePd	diff35	21.20	0.6
EKR	83.33	321	eP	33	53.26	0.7		1.2s	28.85nm			5.4mb		Z	20s	0.20um			4.6Msz	
SEK	83.45	118	iPd	33	54.00	0.2	SALF	92.88	44	P	34	39.31	1.0	KBA	102.52	44	iPd	diff35	21.70	-0.4
	1.0s	120.00nm				5.7mb	PAND	92.98	44	P	34	39.64	0.7	GEC2	103.42	42	Pd	diff35	26.00	0.1
							LFF	93.75	42	iPd	34	41.90	-0.2		1.1s	2.92nm			5.1mb	
IFR	83.63	49	iP	33	55.00	0.5		1.2s	57.10nm			5.8mb	KHC	103.46	42	ePd	diff35	27.00	1.0	
LNOR	83.76	327	P	33	54.00	-0.7	LPO	93.88	42	iPd	34	42.60	-0.2			e	36	21.00		
KSR	83.88	116	iPd	33	55.00	-1.1		1.3s	32.15nm			5.5mb			e	38	22.50			
	1.0s	60.00nm				5.4mb	MFF	94.10	40	iPd	34	43.50	-0.2			e	38	40.50		
								1.1s	52.75nm			5.8mb			PP	39	40.00			
PRY	83.91	117	iPc	33	55.00	-1.2	LPF	94.36	38	iPd	34	44.00	-0.8	PRU	104.36	41	ePd	diff35	27.00	-2.9X
								1.2s	37.20nm			5.6mb			e	36	21.00			
SES	83.96	334	iPd	33	55.10	-0.5	RJF	94.41	42	iPd	34	44.80	-0.4			e	38	22.50		
	1.4s	450.00nm				6.2mb		1.2s	34.50nm			5.6mb			e	38	40.50			
JBO	84.24	326	P	33	57.85	0.8	Z	20s	0.30um			4.8Msz	ZST	105.29	44	ePKP			-5.1X	
DBO	84.42	323	P	33	58.69	0.6	GDH	94.53	5	iPc	34	45.20	0.1			e	39	51.80		
CROR	84.49	325	P	33	59.43	1.0		1.0s	40.00nm			5.7mb	SRO	105.93	44	ePKP			12.0X	
CNIL	84.68	46	iP	34	02.00	2.6X	CAF	94.54	42	iPd	34	45.70	-0.2	FBA	107.94	334	ePd	diff35	44.47	-1.0
PLAT	84.72	46	iP	34	03.00	3.3X		1.1s	20.25nm			5.4mb			1.1s	10.82nm			5.9mb	
VGB	84.75	326	ePd	34	00.12	0.5	YKA	94.57	340	eP	34	45.10	-0.4	IMA	110.63	334	ePKP			0.5
NEW	84.94	330	iPc	33	59.86	-0.7		0.9s	49.80nm			5.9mb			1.1s	10.80nm			-1.1	
	1.3s	244.44nm				5.9mb	GRR	94.65	38	iPd	34	45.20	-1.0	NUR	112.84	32	ePKP			40 00.40
EVAL	84.95	45	iPc	34	01.83	1.0		1.1s	32.70nm			5.6mb			0.4s	0.80nm			-1.1	
GIBL	85.01	46	iP	34	03.00	1.9	LSF	94.90	41	iPd	34	47.00	-0.4	KAF	113.88	31	iPKP			40 02.50
SLR	85.07	116	iPd	34	01.80	-0.2		1.2s	27.05nm			5.5mb			0.4s	3.60nm			-0.7	
	1.7s	269.23nm				5.9mb	FLN	95.07	38	iPd	34	47.40	-0.7	OBN	118.55	39	iPKPd			40 12.00
Z	18s	2.06um				5.6Msz		1.2s	30.95nm			5.6mb			1.2s	75.00nm				
							Z	21s	0.25um			4.7Msz			e	40	43.00			
EJIF	85.11	46	iPd	34	03.28	1.7	LDF	95.18	38	iPd	34	47.80	-0.8	MOS	119.17	39	ePKP			40 15.00
ALJ	85.15	46	iP	34	03.00	1.1		1.1s	33.20nm			5.7mb	ILT	120.48	336	iPKPd			40 15.20	
DPW	85.15	329	P	34	01.96	0.3	TCF	95.33	41	iPd	34	48.80	-0.6		1.2s	56.00nm			-0.7	
SSOR	85.17	325	P	34	01.59	-0.3		1.1s	19.55nm			5.4mb			i	41	41.00			
RNO	85.22	323	P	34	02.78	0.7	MAF	95.51	41	iPd	34	49.80	-0.4	KIV	121.72	52	iPKPd			40 18.20
LIJA	85.40	46	iP	34	05.00	1.8		1.3s	36.80nm			5.7mb			1.1s	93.00nm			-1.0	
COR	85.43	324	ePd	34	03.76	0.8	BGF	95.84	41	iPd	34	51.20	-0.5		1.1s	0.20um			4.8Msz	
EPUR	85.56	46	iPd	34	05.16	1.3		1.2s	41.35nm			5.8mb		Z	19s	0.20um				
SAW	85.60	328	P	34	03.88	0.0	HYF	96.08	40	iPd	34	52.20	-0.6			e	41	58.20		
ASR	85.60	326	P	34	04.49	0.5	AVF	96.26	41	iPd	34	53.10	-0.5	PYA	121.99	52	iPKPc			40 20.00
WTV	85.86	328	P	34	05.33	0.1		1.2s	22.90nm			5.5mb	GRO	123.84	53	iPKPc			40 23.00	
SHW	85.96	326	eP	34	05.80	0.0	SMF	96.48	41	iPd	34	54.30	-0.3		1.0s	160.00nm			-0.2	
MAL	85.96	46	iPd	34	06.80	1.0		1.3s	59.20nm			5.9mb	CTA	123.98	220	ePKP			40 23.00	
							SSF	96.49	41	iPd	34	53.70	-0.9	GRS	124.01	58	ePKP			40 22.00
EHOR	86.05	45	iPd	34	06.75	0.5		1.3s	34.30nm			5.7mb			1.4s	30.00nm			-1.9	
LON	86.12	326	eP	34	05.38	-1.1	LRG	96.51	45	iPd	34	55.20	0.4	ASPA	127.08	206	iPKPd			40 29.00
FMW	86.18	327	P	34	06.64	-0.3		1.2s	81.80nm			6.1mb			0.6s	44.40nm			-1.1	
KMOR	86.23	325	P	34	07.73	0.7	LMR	96.55	45	iPd	34	55.20	0.3	WE2	130.21	208	iPKP			40 35.50
BFT	86.52	117	eP	34	10.00	0.8		1.3s	68.95nm			6.0mb			iPP	42	58.10			
							LBF	96.73	41	iPd	34	55.10	-0.7			eSKKP	53	13.20		
ELUO	86.53	46	iPd	34	09.71	1.0		1.2s	23.80nm			5.6mb	WRA	130.22	208	PKP			40 34.30	
EGUA	86.58	47	eP	34	08.58	-0.3	FRF	96.74	45	iPd	34	56.10	0.3		0.7s	11.30nm			-1.8	
RMW	86.60	327	iPd	34	08.17	-0.7		1.1s	25.40nm			5.6mb	ARU	130.70	36	iPKPd			40 35.50	
BMW	86.66	326	P	34	09.50	0.4	LOR	96.80	41	iPd	34	55.20	-0.8		1.6s	300.00nm			-0.4	
ECOG	86.83	46	eP	34	10.73	0.5		1.3s	27.10nm			5.6mb			e	41	09.50			
EPLA	86.84	43	eP	34	10.72	0.6	Z	21s	0.25um			4.7Msz	SVE	131.64	35	ePKPc			40 38.30	
GMW	87.15	327	ePd	34	11.06	-0.3	CALN	96.99	45	P	34	57.86	0.7		2.0s	120.00nm			0.6	
JCW	87.17	327	P	34	10.98	-0.5	AURF	97.33	45	P	34	59.07	0.5	TIK	132.26	353	iPKPc			40 34.00
EBAN	87.19	45	iPd	34	12.30	0.5	TOUF	97.34	45	P	34	59.33	0.6		1.4s	72.00nm			-4.4X	
ENIJ	87.56	47	eP	34	13.03	-0.5	SBF	97.39	45	P	34	59.07	0.2	ASH	133.32	61	ePKP			40 42.00
PAB	87.62	44	ePd	34	14.24	0.3	AUTN	97.44	45	P	35	00.05	0.8		1.5s	140.00nm			0.5	
							PZZ	97.47	44	P	35	00.03	0.7	NR1	133.37	11	iPKPd			-40 40.80
							STV	97.49	45	P	34	59.16	-0.2		1.4s	152.00nm			0.2	
							SAOF	97.52	45	P	34	59.70	0.3	MAIO	134.22	63				

POO	144.43	93	iPKP	41	00.50	-1.8
FRU	144.82	50	iPKPd	41	03.20	0.9
	1.6s	980.00nm				
ELT	145.91	27	iPKPd	41	03.00	-0.6
	1.6s	216.00nm				
GBA	145.92	103	ePKP	41	05.00	0.2
GUA	146.67	256	e(PKP)	41	05.80	-0.2
	1.3s	615.38nm				
GUMO	146.73	256	(PKP)	41	04.77	-1.4
PJG	146.73	256	e(PKP)	41	05.20	-0.9
YSS	146.89	320	ePKPd	41	05.57	0.1
	1.0s	230.00nm				
		epP'df41	36.69			
		e	44	32.05		
BOD	147.06	357	iPKPd	41	05.10	-0.3
	1.5s	440.00nm				
KUSJ	147.41	312	ePKP	41	06.00	-0.4
PRZ	147.56	49	iPKPc	41	08.50	1.6
	1.4s	830.00nm				
ASAJ	148.34	315	ePKP	41	08.90	1.0
HYB	148.34	97	ePKPd	41	08.90	0.2
	1.2s	200.00nm				
		e	41	42.00		
HOOU	148.65	312	ePKP	41	12.10	3.7X
MKS	149.07	195	iPKPc	41	14.40	4.5X
NDI	149.14	75	iPKPd	41	10.20	0.6
MRRJ	150.12	313	ePKP	41	15.60	5.0X
UER	150.21	22	iPKPd	41	10.00	-0.5
	2.0s	370.00nm				
OFUJ	151.03	306	PKP	41	17.90	5.8X
MOY	152.08	14	iPKPd	41	15.00	1.8
	1.8s	240.00nm				
YAMJ	152.54	306	PKP	41	21.70	7.3X
CIT	152.93	357	ePKP	41	15.40	0.8
		e	45	06.90		
ZAK	153.78	12	iPKPd	41	17.00	1.3
	1.4s	71.00nm				
MAT	154.46	303	ePKP	41	17.00	-0.1
HIA	154.89	347	ePKPd	41	16.63	-0.6
		ePKPb41	25.57			
		e	41	41.79		
		ePKPob42	12.08			
		eSKP	44	39.31		
		ePP	45	13.74		
DMN	156.09	78	PKP	41	20.40	0.5
KKN	156.25	77	PKP	41	20.20	0.1
	1.2s	89.00nm				
PKI	156.36	78	PKP	41	20.20	-0.2
	1.3s	90.00nm				
TKSJ	158.52	300	PKP	41	23.80	1.5
LSA	161.21	71	ePKPc	41	26.26	0.4
		e	41	38.18		
		ipP'df41	58.05			
		i	42	09.97		
BJI	164.45	347	ePKP	41	29.00	0.9
	2.0s	198.00nm				
		e	42	23.50		
		e	42	53.50		
CHTO	166.76	115	ePKPd	41	30.77	0.1
	1.2s	27.78nm				
		ipP'df42	01.73			
		ePKPob42	31.52			
		e	46	21.20		
SSE	169.55	308	ePKP	41	31.93	-0.2
	1.4s	111.00nm				
		ePKPob42	46.58			
		eSKP	44	57.89		
		e	46	00.24		
		ePP	46	32.52		
		eHPP	46	33.07		
XAN	170.63	14	ePKPd	41	33.41	0.7
		epP'df42	04.87			
		ePKPob42	49.89			
		eHPP	46	35.40		
		ePP	46	35.98		
KMI	171.95	87	ePKP	41	34.29	0.6
	2.5s	110.00nm				
		epP'df42	04.59			
		ePKPob42	56.23			
		PP	43	27.00		
		S.D. = 0.9	on 307 of 366 obs.			
FEB 24, 1993 22h 51m 14.76 ± 1.40s						
42.155 N ± 8.5km 18.852 E ± 9.3km						
DEPTH = 10.0km (geophysicist)						
NORTHWESTERN BALKAN REGION (383)						

ML 1.6 (TTG).						
BDV	0.13	352	iPgD	51	18.01	0.1
			iSg	51	20.45	
ULC	0.35	123	iPgC	51	22.08	0.0
			iSg	51	27.13	
TTG	0.41	48	iPgC	51	23.13	0.0
			iSg	51	28.57	
NKY	0.67	9	iPgD	51	27.76	-0.3
			iSg	51	37.70	
BRY	0.78	343	iPgC	51	29.95	-0.1
			iSg	51	41.28	
PVY	0.94	62	iPgD	51	32.47	-0.3
			iSg	51	46.28	
IVA	1.05	47	iPgC	51	34.91	0.2
			iSg	51	50.02	
PLE	1.24	19	iPgC	51	38.16	0.3
			iSg	51	56.75	
S.D. = 0.3 on 8 of 8 obs.						
FEB 24, 1993 22h 58m 21.88 ± 0.76s						
8.897 N ± 10.5km 126.892 E ± 17.3km						
DEPTH = 33.0km (normol)						
4.6mb (6 obs.)						
MINDANAO, PHILIPPINE ISLANDS (259)						
TNE	8.06	177	eP	00	18.00	-1.5
SSE	22.72	347	Pd	03	23.20	1.1
	1.0s	32.00nm			4.8mb	
	2.0s	0.50um			3.9msz	
		i	03	35.00		
IPM	26.04	262	ePd	03	56.80	2.7
W82	29.58	166	eP	04	27.90	1.6
	0.3s	1.70nm			4.3mb	
BJI	32.45	345	eP	04	51.50	0.2
	1.2s	20.00nm			4.9mb	
PKI	43.29	301	P	06	21.80	-1.1
KKN	43.47	301	P	06	23.20	-0.9
DMN	43.56	301	P	06	24.00	-0.9
GBA	48.67	280	P	07	05.00	-0.2
QUE	59.64	300	eP	08	25.80	0.0
MAIO	66.59	306	iPc	09	11.20	-0.2
KAF	87.12	332	eP	11	11.00	5.5X
DAG	92.20	353	eP	11	29.50	0.4
	0.5s	7.75nm			5.4mb	
N82	94.25	334	P	11	37.70	-1.2
	0.7s	1.40nm			4.5mb	
YKA	94.75	24	eP	11	41.20	0.1
	0.9s	1.10nm			4.3mb	
S.D. = 1.3 on 14 of 15 obs.						
FEB 24, 1993 23h 30m 46.94s						
63.062 N 150.975 W						
DEPTH = 127.3km						
3.5mb (1 obs.)						
CENTRAL ALASKA (1)						
<AEIC>. Felt (iii) at Skwentno.						
TRF	0.50	38	iPd	31	05.82	-0.4
			eS	31	20.06	
HUR	0.62	97	ePd	31	06.13	-0.6
			eS	31	21.01	
CUT	0.74	153	P	31	07.80	0.3
RND	1.02	69	iPd	31	09.63	-0.6
			eS	31	27.98	
SKT	1.12	194	iPc	31	10.68	-0.4
			eS	31	28.70	
MCK	1.14	53	iPd	31	10.96	-0.3
			eS	31	29.98	
PWA	1.51	160	P	31	15.30	0.1
SUA	1.61	176	iPc	31	16.31	-0.3
GHO	1.61	143	iPd	31	16.41	-0.1
			eS	31	39.10	
PLRM	1.71	149	iPd	31	17.04	-0.6
			eS	31	40.44	
PMR	1.71	149	iPc	31	16.70	-0.9
			eS	31	40.10	
NEA	1.74	28	iPd	31	17.06	-0.9
			eS	31	41.04	
SML	1.76	135	iPd	31	17.74	-0.6
			eS	31	42.17	
CRP	1.89	198	iPc	31	19.01	-1.0
			eS	31	44.64	
CPAM	1.89	197	iPc	31	19.76	-0.3
CP2	1.90	199	iPc	31	19.67	-0.5
			eS	31	45.92	
BGL	1.92	201	ePc	31	20.27	-0.1

KCN	1.93	198	ePc	31	20.34	0.0
PMS	1.94	159	P	31	20.10	-0.4
SPU	1.95	196	iPc	31	20.08	-0.6
CKT	1.96	198	iPc	31	20.31	-0.4
CKL	1.98	199	iPc	31	20.82	-0.2
SCM	2.10	124	iPd	31	21.53	-1.0
CCB	2.12	40	iPd	31	21.87	-0.8
HDA	2.24	51	iPd	31	23.29	-0.9
		eS	31	52.57		
MDM	2.26	31	iPd	31	23.59	-0.9
TTA	2.30	269	iPd	31	24.23	-0.9
		eS	31	51.62		
FBA	2.32	36	ePd	31	24.14	-1.1
NKA	2.33	183	eP	31	27.14	1.8
PTE	2.39	156	iPd	31	25.23	-0.9
THY	2.39	79	eP	31	26.89	0.7
		eS	31	57.22		
GLM	2.50	38	iPd	31	26.81	-0.7
PAX	2.51	90	iPd	31	27.45	-0.4
		eS	31	57.95		
SDG	2.55	100	iPd	31	27.81	-0.5
SLKM	2.59	172				

24d 23h

MEMT 4.47 297 ePn 53 28.40 0.0
 TPMT 4.70 285 ePn 53 32.80 1.1
 BGMT 5.07 290 ePn 53 44.80 7.9X
 LCCM 5.15 297 ePn 53 45.10 7.1X
 HRY 5.51 305 ePn 53 43.50 0.4
 DAU 5.53 235 (Pn) 53 45.02 1.5
 ePg 54 02.13
 eS 55 08.99
 HBMT 5.61 294 ePn 53 45.30 0.6
 EMUT 5.68 229 (Pn) 53 44.35 -1.2
 ePg 54 01.40
 (S) 55 13.89
 SRU 6.05 222 (Pn) 53 50.31 -0.4
 ePg 54 12.35
 eSg 55 31.43
 MSU 7.35 227 (Pn) 54 06.91 -2.1
 ePg 54 37.04
 SES 7.75 332 P 54 14.00 -0.4
 0.9s 3.00nm 4.5mb X
 ULM 9.17 41 eP 54 35.00 0.9
 YKA 19.59 347 eP 56 48.40 -1.5
 0.7s 0.40nm 2.8mb
 S.D. = 1.1 on 15 of 17 obs.

& FEB 25, 1993 00h 40m 12.10s
 40.407 N 124.585 W
 DEPTH = 14.0km
 3.2mb (1 obs.)
 NEAR COAST OF NORTHERN CALIF. (35)
 <BRK>. ML 4.0 (BRK). Felt (II)
 at Rio Dell. Also felt at
 Fortuna.

KMPM 0.36 88 iPd 40 18.60 -1.1
 EKR 0.45 50 iPc 40 21.19 0.0
 eS 40 27.46
 FOX 0.47 76 iPd 40 21.37 -0.2
 FHC 0.60 49 iPc 40 23.72 -0.2
 eS 40 32.43
 ARC 0.61 39 iPc 40 23.50 -0.5
 eS 40 31.90
 LGPM 1.43 69 iPc 40 35.54 -2.1
 WDC 1.57 83 iPc 40 37.37 -2.2
 LBFM 2.25 64 iPc 40 48.03 -1.6
 MIN 2.28 91 iPc 40 47.28 -2.7
 LMEM 2.30 86 eP 40 48.08 -2.3
 ORV 2.52 109 iPc 40 50.44 -2.8
 eS 41 19.40
 BKS 3.12 143 eP 40 58.83 -2.9
 PCC 3.37 149 eP 41 03.22 -2.1
 ARN 3.87 141 eP 41 08.26 -4.2
 GCC 3.93 148 eP 41 10.89 -2.4
 CMB 4.03 125 eP 41 13.39 -1.3
 FRI 5.12 130 iPd 41 29.07 -1.0
 YKA 22.92 12 eP 45 15.20 -1.1
 0.7s 0.60nm 3.2mb
 18 obs. associated

& FEB 25, 1993 00h 46m 10.79s
 63.487 N 150.906 W
 DEPTH = 16.4km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.7 (AEIC), 3.1
 (PMR).

TRF 0.28 97 iP 46 16.93 -0.2
 HUR 0.77 131 iP 46 25.54 0.2
 eS 46 36.76
 MCK 0.91 73 eP 46 28.66 0.8
 S 46 42.01
 RND 0.93 94 iP 46 28.03 0.0
 eS 46 41.52
 NEA 1.36 36 eP 46 33.76 -1.2
 eS 46 53.73
 SKT 1.54 191 eP 46 37.69 0.1
 eS 46 58.14
 CCB 1.79 48 eP 46 40.02 -1.2
 MDM 1.88 37 eP 46 41.29 -1.3
 PWA 1.90 165 P 46 43.70 0.9
 S 47 09.20
 GH0 1.95 151 eP 46 44.11 0.5
 FBA 1.97 42 eP 46 43.62 -0.1
 eS 47 11.18
 HDA 1.97 60 eP 46 42.85 -1.0
 SUA 2.03 178 eP 46 45.14 0.3
 eS 47 12.62
 SML 2.06 144 iP 46 45.76 0.6

PLRM 2.07 156 eP 46 45.85 0.6
 PMR 2.07 156 eP 46 45.41 0.1
 GLM 2.15 44 eP 46 46.39 -0.1
 CGLM 2.25 194 P 46 46.70 -1.2
 CRP 2.30 195 eP 46 47.23 -1.5
 eS 47 17.99
 CPAM 2.31 195 eP 46 47.46 -1.4
 CP2 2.32 196 eP 46 48.37 -0.6
 eS 47 19.03
 BGL 2.34 198 eP 46 50.20 1.0
 PMS 2.34 164 P 46 50.50 1.4
 SCM 2.34 134 eP 46 50.08 0.8
 CKN 2.35 195 eP 46 50.60 1.3
 CKT 2.37 195 eP 46 50.53 0.9
 SPU 2.38 194 eP 46 51.05 1.4
 TTA 2.38 259 P 46 52.40 2.6
 CKL 2.39 197 eP 46 49.76 -0.2
 PAX 2.52 99 eP 46 52.56 0.9
 SDG 2.63 109 iP 46 54.40 1.1
 PTE 2.78 161 eP 46 56.52 1.2
 IMA 2.85 337 eP 46 54.00 -2.5
 TZL 2.91 117 eP 46 56.15 -1.0
 SLKM 3.01 174 eP 46 59.31 0.7
 DFR 3.02 197 eP 46 59.40 0.5
 KLU 3.06 129 eP 47 00.75 1.4
 NCT 3.09 199 eP 47 00.35 0.5
 MPA 3.10 166 eP 47 01.92 2.1
 RDW 3.15 197 eP 47 01.85 1.1
 RS2 3.16 197 eP 47 02.51 1.6
 RSO 3.16 197 eP 47 01.96 1.0
 VLZ 3.19 136 eP 47 01.22 0.1
 SVW 3.25 225 (P) 47 03.24 1.2
 eS 47 46.45
 SEW 3.47 168 eP 47 05.49 0.4
 GLB 3.88 119 eP 47 12.27 1.2
 CNPM 3.98 182 eP 47 14.10 1.7
 47 obs. associated

? FEB 25, 1993 01h 23m 14.49 ± 3.60s
 31.347 S ± 10.8km 69.165 W ± 24.4km
 DEPTH = 122.9 ± 27.8 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.40 218 ePd 23 32.20 -0.2
 S 23 45.30
 RTLL 0.60 89 iPd 23 33.50 -0.2
 S 23 43.50
 CFA 0.83 108 iPd 23 35.70 0.1
 S 23 49.30
 MDZ 1.56 170 eP 23 43.40 0.2
 iS 24 05.90
 RTPR 2.51 66 e(P)c 23 55.60 0.6
 MRA 3.13 111 ePc 24 03.40 0.2
 TCA 3.91 91 iPc 24 13.10 -0.8
 (S) 24 56.00
 S.D. = 0.6 on 7 of 7 obs.

FEB 25, 1993 01h 30m 20.17 ± 1.12s
 31.262 S ± 7.0km 68.624 W ± 8.9km
 DEPTH = 110.5 ± 14.0 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.15 117 iPc 30 35.40 -0.6
 CFA 0.48 136 iPc 30 37.40 0.2
 S 30 48.20
 RTCV 0.60 173 iP 30 37.60 -0.5
 RTBS 0.81 240 ePd 30 40.00 0.2
 (S) 30 54.00
 RTRS 1.31 326 iPd 30 45.50 0.5
 S 31 04.00
 MDZ 1.63 187 iP 30 49.80 0.8
 iS 31 10.30
 RTPR 2.05 63 ePc 30 54.80 0.5
 MRA 2.73 116 ePc 31 04.10 0.8
 S 31 30.00
 TCA 3.45 92 iP 31 13.10 0.0
 (S) 31 52.00
 RFA 3.50 178 eP 31 12.80 -1.0
 CYA 3.73 42 iPc 31 16.00 -0.9
 S.D. = 0.8 on 11 of 11 obs.

? FEB 25, 1993 01h 39m 13.77 ± 2.95s
 43.983 N ± 27.2km 25.259 E ± 15.7km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)

JMB 1.80 147 iPc 39 45.00 0.0

VTS 2.04 228 iPc 39 54.00 5.3X
 PSN 2.14 97 eP 39 50.00 0.1
 RZN 2.33 190 iPc 39 54.00 1.1
 KDZ 2.33 177 eP 39 52.00 -0.8
 KKB 2.65 218 iPc 39 57.00 -0.3
 S.D. = 1.0 on 5 of 6 obs.

% FEB 25, 1993 02h 19m 12.97 ± 0.89s
 39.120 N ± 9.4km 29.040 E ± 11.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.9 (ISK).

DST 0.58 327 iPg 19 24.20 -0.6
 eSg 19 32.20
 ALT 0.84 94 iPg 19 29.20 0.0
 iSg 19 39.70
 KHL 0.88 154 ePg 19 30.00 0.1
 eSg 19 41.20
 KCT 1.24 335 iPn 19 37.20 1.1
 YLV 1.47 10 ePn 19 39.20 -0.3
 EDC 1.52 324 ePn 19 40.00 -0.3
 S.D. = 0.8 on 6 of 6 obs.

* FEB 25, 1993 02h 42m 01.63 ± 1.68s
 41.844 N ± 13.1km 19.265 E ± 12.5km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.0 (TTG).

ULC 0.12 355 iPg 42 04.88 0.2
 iSg 42 07.23
 BDV 0.55 324 iPg 42 11.95 -0.7
 iSg 42 20.67
 TTG 0.59 360 iPg 42 12.38 -1.1
 iSg 42 21.43
 PVY 0.92 35 iPg 42 18.25 -1.0
 iSg 42 32.30
 NKY 0.99 349 iPg 42 02.67 -17.8X
 iSg 42 34.64
 IVA 1.13 24 iPg 42 22.34 -0.5
 iSg 42 39.35
 BRY 1.18 333 iPg 42 24.73 0.9
 iSg 42 41.98
 OHR 1.37 122 ePn 42 25.30 -1.4
 PLE 1.49 4 iPg 42 30.09 1.6
 iSg 42 51.54
 SKO 1.63 85 iPn 42 32.40 2.0
 i 42 55.70
 S.D. = 1.4 on 9 of 10 obs.

% FEB 25, 1993 03h 02m 33.39 ± 0.98s
 43.127 N ± 13.5km 7.691 E ± 9.2km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.0 (LDG).

SBF 0.76 346 Pg 02 48.30 0.0
 Sg 02 57.00
 FRF 0.88 300 Pg 02 50.50 0.3
 Sg 03 01.10
 LMR 0.89 284 Pg 02 51.20 0.8
 Sg 03 01.60
 LRG 1.03 289 Pg 02 51.70 -1.1
 Sg 03 04.70
 PGF 1.12 121 Pn 02 54.50 0.0
 Sn 03 07.50
 S.D. = 0.9 on 5 of 5 obs.

FEB 25, 1993 03h 04m 52.33 ± 0.74s
 43.148 N ± 6.5km 7.715 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.2 (LDG), 1.8 (STR).

SBF 0.74 344 Pg 05 07.20 0.3
 Sg 05 16.00
 AURF 0.79 339 Pg 05 07.77 0.0
 SAOF 0.85 352 Pg 05 08.54 -0.1
 Sg 05 17.84
 CALN 0.85 315 Pg 05 09.20 0.3
 AUTN 0.87 346 Pg 05 09.04 -0.2
 FRF 0.88 298 Pg 05 09.50 0.2
 Sg 05 18.20
 LMR 0.90 282 Pg 05 10.10 0.5
 Sg 05 20.40
 TOUF 0.93 339 Pg 05 10.18 0.0

LRG 1.04 288 Pg 05 10.90 -1.0
Sg 05 23.90
PGF 1.12 122 Pn 05 13.40 0.0
Sn 05 26.10
S.D. = 0.5 on 10 of 10 obs.

FEB 25, 1993 03h 31m 32.09±0.58s
32.015 S ± 7.1km 68.938 W ± 6.3km
DEPTH = 128.9 ± 9.1 km
MENDOZA PROVINCE, ARGENTINA (139)
MD 4.3 (SAN).

RTCV 0.37 66 iPd 31 50.20 -0.5
ZON 0.52 25 iPd 31 51.50 0.1
CFA 0.72 56 iPd 31 52.90 0.1
S 32 06.70
RTLL 0.79 30 iPd 31 53.60 0.2
MDZ 0.87 175 iPd 31 53.80 -0.3
S 32 06.90
JACH 1.55 244 iPd 32 01.57 0.4
(S) 32 24.80
FCH 1.74 221 ePd 32 04.11 0.5
S 32 28.33
PEL 1.86 232 iPd 32 04.79 0.1
S 32 28.74
RTRS 1.89 346 ePd 31 43.30 -21.8X
ROCH 1.99 241 iPd 32 06.33 -0.3
S 32 32.04
SAN 2.04 225 iPd 32 07.34 0.3
S 32 34.13
PCH 2.08 219 iPd 32 08.07 0.5
S 32 35.36
TACH 2.35 225 iPd 32 10.46 -0.4
S 32 39.30
CHCH 2.40 217 ePd 32 11.78 0.3
S 32 42.76
CACH 2.52 213 iPd 32 14.52 1.4
S 32 45.59
LCCH 2.65 236 iPd 32 13.67 -1.1
S 32 45.78
RTPR 2.69 51 ePd 32 15.50 0.3
MRA 2.77 99 iPd 32 16.40 0.2
S 32 41.70
LNV 2.84 226 (P) 32 15.70 -1.5
(S) 32 49.02
TCA 3.77 81 iPd 32 29.00 -0.6
(S) 32 58.00
CYA 4.48 38 ePd 32 38.60 -0.5
FSA 6.44 24 e(P) 33 06.50 0.7
S.D. = 0.7 on 21 of 22 obs.

FEB 25, 1993 03h 44m 15.54±0.51s
44.932 N ± 5.1km 106.062 W ± 4.8km
DEPTH = 5.0km (geophysicist)
WYOMING (460)
ML 3.5 (GS). ML 3.9 (BUT).

RSSD 1.66 119 ePd 44 46.55 0.9
eS 45 07.38
BW06 3.32 231 ePd 45 09.89 0.5
ePg 45 13.53
eS 45 55.04
MEMT 3.53 283 iPd 45 13.30 1.0
TPMT 3.99 269 ePd 45 19.90 0.9
LCCM 4.20 285 ePd 45 21.60 -0.2
BGMT 4.25 276 ePd 45 22.30 -0.2
HRY 4.41 296 ePd 45 24.50 -0.3
LRM 4.59 283 ePd 45 27.00 -0.4
HBMT 4.69 283 ePd 45 29.30 0.3
BUT 4.70 286 ePg 45 43.10 14.1X
eSg 46 37.50
GLD 5.22 173 (Pn) 45 35.31 -1.0
ePg 45 51.13
eS 46 56.97
GOL 5.25 174 ePd 45 36.84 -0.1
0.5s 1.52nm 3.9mb X
ePg 45 51.09
eS 46 57.74
HVU 5.82 240 (P) 45 45.22 0.5
DAU 5.92 222 ePd 45 46.62 0.3
EMUT 6.21 216 ePd 45 48.95 -1.3
SES 6.42 330 P 45 52.00 -1.1
0.8s 15.00nm 5.0mb
SRU 6.70 211 ePd 45 55.21 -2.0X
MSU 7.87 218 (Pn) 46 11.24 -2.4X
ePg 46 47.16
ULM 8.70 49 ePd 46 25.00 0.1

ACO 9.75 145 Pn 47 17.50 38.1X
Lg 49 26.40
RTPR 83.09 146 ePd 56 28.30 -15.0X
S.D. = 0.8 on 16 of 21 obs.

FEB 25, 1993 03h 55m 20.61±0.62s
33.177 S ± 6.5km 71.008 W ± 7.1km
DEPTH = 82.4 ± 7.2 km
4.0mb (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.3 (SAN). Felt (II) at Lo
Ligua and Petorca.

ROCH 0.20 359 iPd 55 32.47 -0.9
PEL 0.27 83 iPd 55 32.69 -0.6
S 55 41.36
SAN 0.40 134 iPd 55 33.59 -0.4
S 55 42.85
TACH 0.48 173 iPd 55 34.51 -0.1
IHA 0.55 286 iPd 55 35.60 0.4
S 55 46.10
LCCH 0.56 237 iPd 55 35.87 0.6
JACH 0.60 35 iPd 55 34.87 -1.0
S 55 45.43
PCH 0.61 137 iPd 55 35.39 -0.5
FCH 0.62 104 iPd 55 35.62 -0.6
CHCH 0.81 159 iPd 55 37.82 -0.1
LNV 0.85 203 iPd 55 38.51 0.3
CACH 1.00 160 iPd 55 40.67 0.5
MDZ 1.84 81 iPd 55 52.00 1.0
S 56 16.10
RTRS 2.00 41 ePd 55 54.90 1.8
RTCV 2.47 59 iPd 56 00.40 0.9
S 56 23.60
RFA 2.64 128 ePd 56 03.00 1.0
S 56 47.00
CFA 2.82 57 ePd 56 04.80 0.4
RTLL 2.83 50 iPd 56 05.00 0.4
S 56 29.50
MRA 4.53 82 ePd 56 26.70 -1.4
TCA 5.74 73 iPd 56 42.10 -3.0X
(S) 57 44.00
CYA 6.51 45 iPd 56 51.00 -4.7X
CNCB 16.52 10 P 59 08.50 -0.7
LPB 16.78 10 ePd 59 13.00 0.8
ZOBO 17.02 9 P 59 14.40 -1.0
0.8s 8.47nm 4.0mb
SIV 19.33 30 iPd 59 17.80
BAO 27.18 56 ePd 07 20.00
S.D. = 1.1 on 24 of 26 obs.

% FEB 25, 1993 04h 23m 36.25±2.04s
47.417 N ±15.3km 2.699 E ± 7.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

HYF 0.15 195 Pg 23 39.80 -0.1
Sg 23 41.80
SSF 0.65 123 Pg 23 49.00 -0.3
Sg 23 58.00
AVF 0.77 144 Pg 23 51.00 -0.3
Sg 24 01.50
LOR 0.80 100 Pg 23 51.90 0.1
Sg 24 02.50
Sg 24 05.50
BGF 0.87 173 Pg 23 52.70 -0.2
Sg 24 04.30
L8F 0.97 116 Pg 23 55.00 0.2
Sg 24 08.20
SMF 1.10 134 Pg 23 57.10 0.2
Sg 24 12.10
TCF 1.18 197 Pg 23 58.40 0.1
Sg 24 13.10
MAF 1.20 184 Pg 23 59.00 0.4
Sg 24 13.90
LSF 1.42 215 Pg 24 01.90 -0.2
Sg 24 20.50
S.D. = 0.3 on 10 of 10 obs.

% FEB 25, 1993 04h 37m 46.23±0.91s
44.445 N ±17.4km 20.926 E ±17.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.7 (TTG).

PLE 1.57 225 iPd 38 13.72 -0.6
iSg 38 33.93
GZR 1.62 54 ePd 38 15.00 0.0
IVA 1.74 206 iPd 38 16.32 -0.4
iSg 38 38.81
PVY 1.97 201 iPd 38 20.38 0.2
iSn 38 44.80
NKY 2.15 221 iPd 38 23.05 0.4
iSn 38 49.63
BRY 2.32 229 iPd 38 25.42 0.3
iSn 38 53.86
TTG 2.35 212 iPd 38 25.75 0.3
iSn 38 54.18
SKO 2.50 171 ePd 38 36.00 8.4X
i 39 04.00
BDV 2.65 216 iPd 38 29.65 -0.1
iSn 39 01.43
ULC 2.77 207 iPd 38 31.43 0.0
iSn 39 04.10
S.D. = 0.4 on 9 of 10 obs.

* FEB 25, 1993 04h 44m 38.22±1.99s
31.202 S ±13.0km 68.746 W ±17.6km
DEPTH = 119.9 ± 23.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.59 133 iPd 44 56.30 -0.8
RTBS 0.76 233 ePd 44 58.40 0.1
S 45 12.20
MDZ 1.68 183 ePd 45 09.30 1.1
S 45 30.70
RTPR 2.12 66 ePd 45 14.20 0.5
(S) 45 40.90
TCA 3.56 93 iPd 45 33.10 0.3
(S) 46 12.50
RFA 3.57 176 ePd 45 32.00 -0.9
S 46 13.00
CYA 3.76 44 ePd 45 35.00 -0.4
S.D. = 1.0 on 7 of 7 obs.

? FEB 25, 1993 05h 40m 45.34±1.72s
6.245 N ±18.6km 77.597 W ±30.3km
DEPTH = 16.0 ± 12.1 km
4.1mb (4 obs.)
NEAR WEST COAST OF COLOMBIA (102)

UPA 3.33 325 iPd 41 37.66 -0.1
e 41 41.70
ECO 3.73 326 iPd 41 43.09 -0.5
eS 42 26.63
BOG 3.87 114 ePd 41 43.00 -2.8X
eS 42 23.00
PSO 5.03 177 ePd 42 28.00 25.8X
ZOBO 24.27 157 ePd 46 05.00 1.4
Z 24s 0.08um 3.1mszx
LR 54 30.00
LPB 24.50 158 P 46 16.00 10.3X
CNCB 24.80 158 iPd 46 15.50 6.8X
SIV 27.49 144 ePd 46 32.00 -1.1
BAO 36.50 127 (P) 47 57.00 4.8X
ALO 39.02 321 ePd 48 15.20 1.9
0.8s 0.73nm 3.4mb
GOL 41.64 327 ePd 48 35.50 0.7
1.0s 5.00nm 4.2mb
ULM 46.46 344 ePd 49 20.50 7.3X
JAO 47.44 2 ePd 49 21.00 0.1
FCC 53.91 349 ePd 50 08.00 -2.0
YKA 62.33 342 ePd 51 02.50 -6.6X
0.8s 1.10nm 4.1mb
GEC2 86.20 41 PKP 53 28.80 1.4
0.9s 1.67nm 4.2mb
e 53 32.50
e 53 40.60
ASPA 145.12 237 ePKP 00 23.10 -1.5
0.7s 11.40nm
WRA 146.13 243 PKP 00 26.00 -0.3
0.6s 2.90nm
GBA 148.32 51 PKP 00 33.00 3.1X
S.D. = 1.5 on 11 of 19 obs.

% FEB 25, 1993 06h 16m 54.78±2.12s
45.424 N ±23.2km 6.436 E ± 5.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

LPL 0.23 66 Pg 16 59.70 -0.1

SVA	7.11	325	iPd	36	38.00	-1.5
PUZ	14.56	194	eP	38	12.00	-4.3X
			eS	40	47.10	
BKM	14.97	292	iPd	38	24.50	2.9X
URZ	15.02	197	eP	38	18.30	-3.8X
NOZ	15.13	194	P	38	21.90	-1.5
WLZ	15.13	202	eP	38	28.30	4.8X
			eS	41	16.60	
DZM	15.16	274	iPd	38	26.90	2.8X
			iS	41	24.90	
WHH	15.78	198	eP	38	31.40	-0.1
PGZ	17.45	197	eP	38	50.20	-1.6
MNG	17.67	199	eP	38	49.40	-4.9X
			eS	41	55.10	
KIW	18.07	200	eP	38	55.30	-3.2X
MRW	18.47	200	eP	39	00.00	-2.8
			eS	42	13.60	
MOW	18.48	198	eP	39	00.30	-2.6
TCW	18.59	200	eP	39	02.00	-2.0
			eS	42	16.80	
QRZ	18.86	205	eP	39	06.70	-0.2
			eS	42	27.10	
THZ	19.54	203	eP	39	12.00	-1.9
			eS	42	39.10	
KHZ	19.91	200	eP	39	16.60	-1.0
			eS	42	44.80	

DSZ	19.93	205	eP	39	16.60	-1.3
LTZ	20.66	202	eP	39	22.00	-3.2
			eS	43	00.20	
BWZ	23.04	204	eP	39	48.20	-0.2
ODZ	23.21	202	eP	39	51.80	1.8
MHZ	23.71	204	eP	39	55.20	0.1
MMCZ	23.72	205	eP	39	55.10	0.0
LSCZ	23.73	204	eP	39	54.40	-0.7
SBCZ	23.73	204	P	39	54.10	-1.0
CMCZ	23.79	204	eP	39	56.30	0.5
TUZ	24.35	203	eP	40	03.00	2.1
PAE	26.56	82	iPc	40	20.40	-1.1
	1.4s	393.80nm			5.9mb	
PPN	26.74	81	iPc	40	22.10	-1.0
	1.6s	352.00nm			5.8mb	
TVO	26.82	82	iPc	40	22.90	-1.0
	1.4s	620.40nm			6.1mb	
BRS	27.22	256	iPd+	40	29.00	1.6
			i	41	05.50	179kmX
			eS	44	57.00	
ARMA	28.38	250	iPc	40	39.80	1.9
	0.5s	19.00nm			5.1mb	
PMO	29.00	77	iPc	40	42.10	-1.3
	1.8s	586.90nm			6.0mb	
VAH	29.15	78	iPc	40	43.20	-1.5
	1.5s	236.10nm			5.7mb	
TPT	29.26	78	iPc	40	44.30	-1.4
	1.9s	946.10nm			6.2mb	
RUV	29.39	78	iPc	40	45.40	-1.4
	1.6s	472.60nm			6.0mb	
RMO	30.83	258	iPc	41	00.80	1.3
	1.0s	109.00nm			5.5mb	
		e	41	46.70	227kmX	
		iPcP	43	59.30		
CNB	31.02	241	eP	41	03.00	1.9
	0.4s	17.00nm			5.1mb	
CMS	33.43	249	iPc	41	22.40	0.4
	0.4s	21.00nm			5.2mb	
		e	42	02.70	193kmX	
CTA	34.02	269	iPd-	41	27.00	-0.2
	1.0s	55.00nm			5.2mb	
		i	41	38.00		
		iPp	42	06.00	185kmX	
		iPP	42	55.00		
		i	44	06.00		
		eS	46	39.00		
		e	47	34.00		
TOO	34.55	238	iPc	41	33.70	2.1
	0.5s	81.00nm			5.7mb	
TAU	34.75	228	eP	41	35.00	1.9
BFD	36.78	240	eP	41	50.90	0.6
	0.7s	14.00nm			4.8mb	
		e	42	32.50	193kmX	
PMG	36.94	287	eP	41	51.00	-0.9
STK	37.05	248	eP	41	54.20	1.5
	0.7s	13.50nm			4.8mb	
ADE	39.61	244	eP	42	16.20	2.2
ASPA	44.53	260	iPd	42	53.10	-1.0
	1.3s	97.70nm			5.2mb	
Z	21s	0.60um			4.5MsZ	
		iPp	43	34.80	192kmX	
		eScP	48	15.90		
		iPcS	48	26.70		
		eS	49	08.60		
		eScS	52	31.90		
WB2	44.92	265	iPc	42	55.70	-1.5
	1.1s	50.30nm			5.0mb	
		iPP	43	37.50		
		iScP	48	17.30		
		eS	49	16.90		
WRA	44.94	265	P	42	56.50	-0.8
	0.7s	13.50nm			4.6mb	
FORT	48.66	249	eP	43	25.40	-0.8
DHH	48.80	24	eP	43	25.64	-1.6
MTN	50.00	273	eP	43	35.00	-1.6
GUA	52.55	311	eP	43	54.20	-1.5
	0.7s	235.62nm			6.0mb	
GUMO	52.61	311	eP	43	54.20	-1.9
	0.7s	145.30nm			5.8mb	
PJG	52.61	311	eP	43	53.90	-2.2
COOL	54.54	248	eP	44	09.00	-1.3
KLB	57.29	247	eP	44	29.00	-0.7
RKG	57.44	243	eP	44	30.20	-0.6
BAL	58.36	248	eP	44	36.30	-0.9
MUN	58.52	246	eP	44	38.20	-0.1
MRWA	59.23	249	iPd	44	42.70	-0.6
	0.6s	7.00nm			4.7mb	

CSY	61.15	206	iPd	44	57.30	1.6
	0.6 s	76.10nm				5.7mb
DAV	63.77	292	eP	45	06.50	-7.2x
SPA	66.15	180	iPc	45	31.00	2.5x
	0.7 s	43.75nm				5.4mb
		i	46	10.40	165km	
TRT	68.80	271	ePd	45	44.00	-1.6
BAG	72.79	297	eP+	46	06.00	-3.7x
MAT	73.44	324	eP	46	10.00	-2.8x
	0.7 s	7.53nm				4.5mb
		eS	55	22.00		
ADK	75.55	0	eP	46	21.70	-2.8x
	0.6 s	45.26nm				5.4mb
YSS	79.39	333	eP	46	44.00	-1.8
ARN	80.41	42	eP	46	52.31	0.8
SSE	80.48	310	P	46	52.00	0.1
		i	47	46.00	224kmx	
		S	56	44.00		
		sS	57	32.00		
KGM	81.20	276	ePd	46	56.50	0.5
ORV	81.85	40	eP	46	58.68	-0.2
WDC	81.91	39	eP	46	59.63	0.5
	1.6 s	31.48nm				4.8mb
		epP	47	39.90	162km	
LGPM	81.96	38	eP	47	00.74	1.1
MTUM	82.25	43	eP	47	01.93	0.6
LBFM	82.78	39	(P)	47	02.90	-1.0
BNOR	82.78	43	eP	47	04.17	0.0
TPNV	83.48	45	(P)	47	08.51	1.0
KVN	83.58	42	eP	47	08.95	0.9
TUC	84.58	51	ePd	47	14.55	1.6
	0.7 s	9.64nm				4.7mb
		epP	47	55.40	163km	
BMW	85.45	34	eP	47	17.87	0.9
		epP	47	58.62	163km	
ARUT	85.79	45	eP	47	20.89	1.9
GMW	86.39	34	eP	47	22.78	1.3
RMW	86.83	34	(P)	47	24.36	0.6
MSU	87.02	45	eP	47	25.60	0.5
		epP	48	06.63	163km	
		esP	48	23.11		
SLKM	87.03	13	eP	47	23.57	-0.8
CP2	87.33	12	eP	47	24.48	-1.5
CRP	87.35	12	eP	47	23.83	-2.2
		epP	48	05.65	167km	
MGD	87.78	345	eP	47	25.00	-2.9x
	1.5 s	60.00nm				5.3mb
		e	48	20.00	225kmx	
		e	57	36.00		
TTA	88.25	10	eP	47	29.09	-1.1
	1.1 s	11.67nm				4.8mb
		epP	48	11.71	170km	
SRU	88.43	46	eP	47	31.50	-0.2
		epP	48	13.07	165km	
DAU	88.66	44	eP	47	33.87	0.9
NNT	88.83	284	eP	47	34.40	0.6
BJI	88.87	315	eP	47	32.50	-1.0
	2.0 s	99.00nm				5.5mb
		esP	48	15.00		
		e	51	43.00		
		eSKS	57	40.00		
		eS	58	04.00		
DPW	88.97	35	eP	47	34.06	0.1
		epP	48	16.51	169km	
BALM	89.31	16	eP	47	34.49	-0.9
NST	89.76	287	eP	47	42.50	4.4x
KHT	90.74	206	eP	47	46.00	3.3x
BW06	91.01	43	eP	47	43.36	-0.4
	1.0 s	6.58nm				4.7mb
		epP	48	25.06	165km	
FBA	91.49	12	eP	47	43.74	-1.4
	0.7 s	12.51nm				5.1mb
		epP	48	25.82	167km	
IMA	91.56	9	eP	47	44.91	-0.7
	1.1 s	5.84nm				4.6mb
		epP	48	28.08	171km	
KMI	91.57	297	Pd-	47	46.50	-0.1
	2.0 s	80.00nm				5.5mb
Z	18 s	11.30um				6.4Msz
N	16 s	5.90um				
E	16 s	4.70um				
		PP	48	29.00		
		eS	49	12.00		
		sS	49	38.00		
		PcS	49	51.00		
ILT	91.62	359	iPc	47	44.60	-1.0
	1.4 s	46.00nm				5.4mb

		e	58	02.00				e	55	18.50		HUR	1.31	125	iPd	25	07.97	0.3	
		iS	58	26.00				ePKP	54	27.50	0.2				eS	25	24.20		
		ePS	59	38.00				PKP	54	30.50	3.1X	MCK	1.36	89	ePc	25	08.19	-0.1	
CHTO	92.10	290 eP	47	50.10	1.2			e	54	38.50					eS	25	26.10		
	0.8s	23.24nm			5.3mb			i	54	44.00		RND	1.44	102	ePc	25	09.60	0.0	
GLD	92.27	47 eP	47	50.94	1.4			i	54	51.00					eS	25	27.44		
	1.5s	43.12nm			5.4mb			e	55	33.50		NEA	1.52	56	ePc	25	10.65	0.0	
		epP	48	32.31	163km			e	54	34.50	7.1X	SKT	1.79	173	ePd	25	29.67		
SES	94.26	36 eP	47	58.00	-0.2			i	54	40.70					eS	25	14.25	-0.3	
MEQ	94.66	54 iPk	48	01.00	0.6			e	54	45.00		TTA	1.99	247	ePn	25	17.30	-0.2	
RSSD	95.16	44 eP	48	02.33	-0.4			e	55	17.00					ePg	25	21.75		
	0.9s	9.15nm			5.1mb			e	56	37.00		MDM	2.04	52	ePc	25	18.09	0.0	
		epP	48	44.78	168km			ePKP	54	35.10	7.6X	CCB	2.04	62	ePc	25	17.70	-0.4	
YKA	99.37	25 eP	48	20.40	-0.7			i	54	41.10		FBA	2.16	56	ePnc	25	19.29	-0.5	
	0.6s	0.30nm			4.0mb X			i	54	45.30					ePg	25	25.27		
ZOBO	100.05	113 Pdifi	48	28.10	2.0			i	54	45.30		HDA	2.31	71	ePc	25	21.09	-0.8	
		i	58	56.00				ePKP	54	36.50	8.2X	PWA	2.32	154	P	25	22.10	0.0	
SIV	106.08	116 ePKP	53	17.00	13.4X			e	54	43.00		GLM	2.35	56	iPk	25	22.39	-0.3	
LMN	122.20	50 ePKP	53	36.00	2.6X			e	54	48.50		SUA	2.37	165	eS	25	22.47	-0.4	
FRS	122.34	203 iPKPc	53	35.00	1.7			e	55	20.00					eS	25	52.30		
	0.7s	13.70nm						e	55	33.00		GHO	2.43	143	ePd	25	22.94	-0.9	
BLF	122.60	204 ePKP	53	36.50	1.6			ePKP	54	38.30	9.9X	IMA	2.44	344	ePnd	25	26.04	2.1	
SEK	122.74	206 ePKP	53	36.00	0.8			i	54	49.10					ePg	25	35.12		
	0.6s	10.00nm						e(PKP)	54	27.40	-1.2	CGLM	2.45	180	eP	25	25.55	1.4	
QUE	123.19	291 ePKP	53	37.90	1.8			e	54	37.20		CRP	2.49	182	ePn	25	24.29	-0.5	
BFT	124.00	210 iPKPd	53	40.00	2.1X			e	54	48.20		CP2	2.50	183	ePnc	25	24.69	-0.2	
	0.5s	14.08nm						ePKPc	54	38.10	9.3X	BGL	2.50	184	eP	25	25.12	0.3	
PRY	124.04	207 iPKPd	53	39.00	1.2			i	54	43.40		CPAM	2.51	182	eP	25	24.94	0.1	
MAIO	130.08	298 ePKP	53	49.00	0.0			ePKPab	54	48.60		PMR	2.54	147	ePnc	25	24.19	-1.0	
		e	56	56.00				PKPd	54	43.80	15.0X				S	25	56.77		
ASH	131.03	300 ePKP	53	41.00	-9.6X			e	54	49.20		PLRM	2.54	147	ePd	25	24.55	-0.6	
KAF	138.69	343 ePKP	53	53.30	-11.0X			ePKP	54	37.80	8.9X	CKN	2.54	182	eP	25	25.96	0.7	
	0.8s	6.90nm						e	54	43.60		CKT	2.56	182	eP	25	25.84	0.2	
MTA	140.97	307 ePKP	54	03.00	-6.0X			e	54	49.70		CKL	2.57	184	eP	25	25.90	0.1	
NB2	142.52	353 PKP	54	05.60	-5.7X			e	54	30.50	1.6	SML	2.57	138	ePd	25	24.68	-1.1	
	0.6s	7.00nm						e	54	38.50					eS	25	59.54		
UPP	142.68	348 iPKP	54	05.40	-6.1X			i	54	44.00		SPU	2.58	181	eP	25	25.79	-0.1	
HFS	143.09	351 ePKP	54	07.60	-4.6X			i	54	51.00					eS	26	00.91		
	0.5s	21.90nm						e	55	33.50		PMS	2.76	155	P	25	28.10	-0.2	
MNK	144.82	334 ePKP	54	12.00	-3.3X			ePKP	54	30.00	1.0	THY	2.81	94	eP	25	29.15	0.1	
ANN	145.10	315 iPKP-	54	14.50	-1.5			PKP	54	29.70	0.4	SCM	2.88	130	eP	25	29.69	-0.4	
	1.0s	60.00nm						e	54	39.00	9.6X	NKA	3.04	173	eP	25	34.63	2.3	
AKKT	146.86	309 ePKP	54	21.90	2.5X			PKP	54	39.00		PAX	3.04	102	eP	25	33.12	0.7	
EDR	146.88	5 ePKPc	54	20.50	1.9			e	54	45.00					eS	26	09.11		
EDU	147.21	6 ePKPc	54	21.60	2.4X			ePKP	54	43.70	13.9X	SVW	3.14	214	ePn	25	32.19	-1.7	
	1.2s	38.00nm						PKP	54	39.00	9.2X				S	26	17.84		
ELO	147.21	7 ePKP	54	20.70	1.5			e	54	45.00		SDG	3.17	110	ePd	25	34.25	0.0	
MUD	147.24	353 ePKP	54	21.00	1.8			e	55	25.00		DFR	3.19	186	iPd	25	34.79	0.3	
	0.6s	52.00nm						e	55	25.00		PTE	3.21	153	eP	25	34.59	-0.1	
SVST	147.24	307 ePKP	54	23.40	3.5X			e	54	39.30	1.0	NCT	3.23	188	ePc	25	34.84	-0.3	
EAB	147.42	7 ePKP	54	22.10	2.6X			i	55	00.10		RDN	3.27	187	P	25	38.70	3.0	
EBH	147.45	7 ePKP	54	22.10	2.5X			i	55	44.50		RDW	3.30	187	ePc	25	36.25	0.0	
BSD	147.65	347 iPKPc	54	23.00	3.1X			i	56	43.10		RS2	3.32	187	ePc	25	36.58	0.1	
	0.6s	55.00nm						i	54	42.10		RSO	3.32	187	ePc	25	36.55	0.1	
EDI	147.81	6 ePKP	54	23.50	3.4X			i	54	58.30		RS1	3.32	187	ePc	25	36.61	0.1	
	1.2s	21.00nm						e	54	31.30	-0.5	SLKM	3.36	165	eP	25	36.95	0.1	
EAU	147.86	7 ePKP	54	23.80	3.6X			i	54	42.10		TZL	3.46	117	eP	25	39.95	1.7	
ESY	147.87	6 ePKPc	54	23.50	3.3X			i	54	58.30		MPA	3.50	158	eP	25	38.94	0.1	
	1.1s	30.00nm						i	54	31.50	-0.7	KOT	3.53	88	eP	25	40.59	1.2	
EBL	147.97	6 ePKP	54	23.60	3.2X			i	54	58.30		DLU	3.60	126	iPd	25	40.44	0.0	
	1.2s	28.00nm						i	54	31.50	-0.7	VLZ	3.72	132	iPd	25	41.23	-0.6	
EKA	148.39	6 PKPd	54	25.10	4.0X			i	54	43.70		INW	3.74	189	ePd	25	42.00	-0.3	
	0.8s	27.60nm						i	54	58.90		INE	3.74	188	eP	25	42.00	-0.4	
CTK	148.44	310 ePKP	54	26.30	4.5X			i	54	58.90		SEW	3.85	161	eP	25	45.12	1.4	
DMU	149.26	11 iPKPc	54	27.30	4.8X			ePKPd	54	33.90	1.2	FYU	4.01	42	ePc	25	45.86	-0.3	
DCN	149.72	12 iPKPc	54	28.40	5.2X			e	54	47.60		PDB	4.11	196	ePd	25	46.70	-0.8	
HRI	149.74	295 ePKP	54	29.20	5.2X			ePKP	54	35.10	1.8	HIN	4.24	140	eP	25	48.41	-0.9	
DLF	149.90	11 ePKP	54	28.70	5.3X			1.1s	11.50nm		CNPM	4.25	175	eP	25	50.97	1.4		
ZNT	150.48	293 ePKP	54	30.90	5.9X			SSF	156.98	359 ePKP	1.9	CVA	4.35	135	eP	25	50.22	-0.6	
CFR	150.50	322 ePKP	54	30.00	5.4X			0.8s	4.85nm		GLB	4.43	118	iPd	25	52.24	0.1		
VRI	150.85	324 ePKP	54	34.00	8.0X			LBF	157.04	358 ePKP	1.8	RAGM	4.82	131	eP	25	57.17	-0.4	
UZH	150.98	333 iPKP	54	33.00	7.8X			1.3s	16.25nm		CDD	4.90	190	eP	26	00.04	1.3		
	2.2s	495.00nm						157.75	1 ePKP	54	36.30	1.7	CRQM	5.11	122	eP	26	01.36	-0.5
		i	54	38.00				1.4s	20.50nm		TGL	5.23	121	ePc	26	02.32	-1.1		
		i	55	16.00				S.D. = 1.3 on 119 of 183 obs.			BALM	5.25	117	ePd	26	02.76	-1.0		
RMN	151.02	290 ePKP	54	31.80	5.8X			& FEB 25, 1993 08h 24m 45.21s			SNH	5.61	126	eP	26	08.14	-0.6		
WIT	151.07	355 ePKP	54	32.50	7.3X			63.750 N 151.988 W			CTGM	5.69	115	ePd	26	10.13	0.1		
		e	55	18.00				DEPTH = 30.0km			YAH	5.89	121	eP	26	11.67	-1.3		
SPC	151.35	336 iPKP	54	33.30	7.3X			CENTRAL ALASKA (1)			BRW	7.80	349 (P)	S	27	01.48	22.1		
MLR	151.51	325 ePKP	54	33.50	7.2X			<AEIC>. ML 4.3 (AEIC), 4.3						e	31	41.00			
CLL	151.61	346 iPKP	54	27.10	1.0			(PMR). Felt (III) at Lake			YKA	16.79	77 eP	0.6s	0.60nm	31	36.93	2.5	
BRG	151.81	345 iPKP	54	32.70	6.3X			Minchumino.			SRU	34.72	115 (P)	e	31	41.00			
	0.8s	70.00nm									PRM	51.09	91 (P)	e	33	50.51	3.9		
		i	54	39.10															
WTS	151.87	355 ePKP	54	33.50	7.1X			TRF	0.82	111 iPd	24	59.71	-1.0						
	0.8s	103.80nm																	
		e	54	39.50															

25d 07h

70 obs. associated					E 13s 5.30um					HKC 29.81 242 iP 33 47.80 0.0				
% FEB 25, 1993 08h 52m 02.30± 0.79s					YSS 6.75 2 iPc 29 20.00 -2.0					BAG 30.36 225 eP+ 33 50.00 -2.8X				
41.724 N ±11.4km 14.071 E ± 7.8km					1.1s 110.00nm 5.5mb					LZH 30.38 275 eP 33 51.50 -1.4				
DEPTH = 10.0km (geophysicist)					Z 20s 19.10um 4.5MszX					Z 20s 4.94um 5.2Msz				
SOUTHERN ITALY (390)					N 20s 14.70um					N 13s 1.32um				
SDI 0.19 265 P 52 06.50 -0.1					TSRJ 6.89 229 P 29 26.00 1.9					pP 34 05.00 53km				
eSg 52 10.40					WKYJ 8.08 224 P 29 40.20 -0.5					sP 34 10.00				
DUI 0.30 102 P 52 08.40 -0.1					VLA 8.31 293 iPd+ 29 46.50 2.7X					PP 34 50.00				
eSg 52 14.80					2.0s 553.00nm 6.1mb					eS 38 50.00				
AOU 0.80 322 P 52 17.20 -0.7					YONJ 8.66 237 P 29 49.80 1.1					PcS 40 32.00				
eSg 52 31.00					TKSJ 9.11 229 P 29 55.00 0.2					ScS 44 24.00				
SGO 1.49 141 P 52 29.20 0.1					SHK 9.58 236 eP 30 02.40 1.2					MOY 30.52 306 iPc 33 53.10 -0.6				
eSg 52 48.80					SHNJ 10.85 239 eP 30 20.00 1.5					2.0s 210.00nm 5.5mb				
ASS 1.70 323 P 52 33.10 0.8					KUMJ 12.05 234 P 30 34.80 0.0					TIK 32.17 352 iPc+ 34 05.00 -2.9X				
S.D. = 0.8 on 5 of 5 obs.					KAGJ 12.97 229 P 30 47.00 0.0					2.0s 61.00nm 5.1mb				
% FEB 25, 1993 09h 21m 19.08± 4.69s					SKR 14.17 38 eP 31 05.00 2.4X					Z 17s 3.00um 5.0MszX				
40.102 N ±17.3km 24.071 E ±35.7km					1.0s 220.00nm 5.8mb					i 34 17.00 46km				
DEPTH = 10.0km (geophysicist)					Z 16s 4.80um 4.3Msz					e 35 17.00				
AEGEAN SEA (365)					N 16s 3.10um					eS 39 14.00				
ML 2.3 (THE).					E 12s 3.30um					i 44 31.00				
OUR 0.24 344 ePgc 21 24.14 -0.1					PET 16.92 36 eP 31 39.00 1.2					ILT 34.81 25 iPc 34 30.00 -0.8				
eSg 21 27.48					Z 20s 7.60um					Z 16s 3.40um 5.2MszX				
PAIG 0.35 240 ePg 21 26.17 -0.1					N 20s 6.30um					N 16s 1.00um				
eSg 21 30.04					SSE 19.43 249 Pc 32 05.50 -2.8X					E 16s 2.50um				
SOH 0.90 323 ePg 21 36.28 -0.1					1.4s 422.00nm 5.5mb					iPPP 35 47.00				
eSg 21 47.00					Z 20s 5.00um 4.5Msz					i 37 03.00				
SRS 1.08 340 ePg 21 39.36 0.0					N 14s 1.80um					iS 39 48.00				
eSg 21 53.36					E 16s 3.20um					i 44 52.00				
LIT 1.21 270 ePg 21 41.84 0.2					i 32 22.50 82kmX					UER 34.81 305 iPc 34 30.00 -1.0				
KNT 1.38 320 ePb 21 44.80 0.4					sS 32 29.00					2.0s 260.00nm 5.8mb				
eSb 22 02.16					i 32 45.00					e 36 10.00				
GRG 1.53 304 ePb 21 46.24 -0.3					S 35 34.00					eS 40 00.00				
S.D. = 0.3 on 7 of 7 obs.					sS 35 57.00					e 42 44.00				
FEB 25, 1993 09h 27m 43.10± 0.13s					BJI 19.98 278 eP+ 32 10.50 -3.6X					DAV 36.29 209 eP 34 43.00 -0.8				
40.268 N ± 2.4km 142.333 E ± 2.7km					1.8s 622.00nm 5.6mb					ELT 39.53 308 iPc 35 10.50 -0.1				
DEPTH = 47.9km (42 depth phases)					Z 20s 8.39um 4.6MszX					2.0s 241.00nm 5.7mb				
5.5mb (106 obs.) 5.3Msz (34 obs.)					N 14s 2.87um					Z 14s 4.80um 5.5MszX				
NEAR EAST COAST OF HONSHU, JAPAN(228)					esP 32 28.00					e 36 48.00 548kmX				
Mw 5.7 (HRV).					eS 35 40.00					e 37 24.00				
CENTROID, MOMENT TENSOR (HRV)					eScS 43 42.50					eS 41 06.00				
Data Used: GDSN					MGD 20.55 12 eP- 32 18.00 -1.8					KKM 41.36 221 ePc 35 26.50 0.4				
L.P.8.: 38S, 87C					1.1s 90.00nm 5.0mb					1.7s 251.60nm 5.7mb				
Centroid Location:					Z 17s 3.40um 4.8MszX					TTA 42.38 37 eP 35 35.10 1.1				
Origin Time 09:27:45.8 0.2					N 17s 2.00um					1.2s 13.69nm 4.6mb				
Lat 40.29N 0.03 Lon 142.66E 0.03					E 17s 2.30um					SVW 42.52 39 eP 35 36.18 1.0				
Dep 34.0 FIX Half-duration 1.6					e 32 39.00 106kmX					1.2s 46.59nm 5.1mb				
Moment Tensor: Scale 10**17 Nm					ePPP 32 50.00					CHTO 42.85 253 iPc 35 38.70 0.4				
Mrr= 2.46 0.07 Mtt= 0.40 0.10					eS 36 00.00					1.0s 60.00nm 5.3mb				
Mff=-2.86 0.09 Mrt= 1.49 0.15					eSS 36 26.00					eS 41 59.20				
Mrf= 2.56 0.16 Mtt=-0.68 0.08					eSSS 36 40.00					BRW 43.17 24 ePd 35 44.90 4.7X				
Principal Axes:					CIT 22.95 310 eP 32 42.00 -1.9					BRW 43.17 24 eP 35 40.58 0.4				
T Vol= 3.88 Plg=64 Azm=317					Z 18s 9.07um 5.3Msz					IMA 43.56 32 eP 35 44.39 0.8				
N 0.33 12 202					N 18s 2.52um					0.8s 17.09nm 4.8mb				
P -4.20 23 106					E 18s 15.51um					BDT 43.81 251 eP 35 46.00 -0.1				
Best Double Couple:Mo=4.0*10**17					YAK 23.09 345 iPc 32 42.00 -3.1X					1.0s 41.40nm 5.1mb				
NP1:Strike=174 Dip=24 Slip= 60					5.5s 280.00nm 4.9mb X					RSO 43.95 40 eP 35 47.57 0.6				
NP2: 26 69 103					Z 14s 3.60um 5.0MszX					NST 44.04 249 iPc 35 51.50 3.6X				
OFUJ 1.29 204 iPd 28 05.30 0.2					N 15s 3.00um					CP2 44.16 39 (P) 35 49.68 1.0				
eS 28 23.10					E 14s 2.00um					CRP 44.20 39 eP 35 49.14 0.2				
AOMJ 1.52 282 iPd 28 10.50 2.2					i 33 23.00 218kmX					PMR 45.63 39 eP 35 59.94 -0.1				
HOOJ 2.23 18 eP 28 17.90 -0.4					iS 36 47.00					1.1s 27.41nm 5.1mb				
eS 28 45.50					eSS 37 09.00					Z 20s 1.60um 5.0Msz				
MRRJ 2.35 337 eP 28 20.00 0.0					eSSS 37 35.00					45.73 249 iPc 36 01.90 0.5				
eS 28 49.20					i 43 49.00					FBA 46.00 34 eP 36 03.15 0.1				
YAMJ 2.75 221 P 28 26.80 1.1					BOD 25.20 324 iPc 33 04.80 -0.7					0.9s 23.32nm 5.1mb				
SAP 2.89 345 eP 28 30.00 2.4					1.1s 172.00nm 5.5mb					NNT 46.42 246 eP 36 06.70 -0.2				
eS 29 02.00					GUMO 26.67 175 e(P) 33 17.90 -1.5					PRZ 47.00 295 eP 36 12.00 0.6				
KUSJ 3.34 31 iPd 28 31.60 -2.5X					GUA 26.72 174 e(P) 33 19.50 -0.4					1.8s 310.00nm 5.9mb				
eS 29 08.80					IRK 28.56 308 ePc 33 36.00 -0.3					Z 18s 11.00um 5.9Msz				
ASAJ 3.85 3 eP 28 41.10 -0.3					2.0s 107.00nm 5.1mb					N 18s 4.00um				
NIIJ 3.99 222 P 28 44.90 1.6					Z 16s 6.97um 5.4MszX					E 18s 12.00um				
KAKJ 4.40 203 P 28 47.10 -1.9					N 12s 1.08um					eS 43 00.00				
MAT 4.93 222 iPc 28 58.30 1.7					E 16s 6.30um					KLU 47.17 38 (P) 36 11.56 -0.8				
iS 30 05.60					Z 18s 6.97um 5.4MszX					AAA 47.74 296 iP+ 36 18.00 0.9				
CHJJ 4.97 213 P 28 57.00 -0.1					e 33 46.00 36kmX					Z 18s 4.10um 5.4Msz				
MTMJ 5.11 225 P 29 01.50 2.2					eS 38 14.00					N 18s 5.50um				
IIDJ 5.92 218 P 29 12.30 1.8					eSSS 39 45.00					E 18s 2.60um				
KUR 6.42 38 iPd- 29 13.50 -3.9X					ZAK 28.95 304 iPc+ 33 39.30 -0.4					KKN 48.14 273 P 36 20.40 -0.2				
0.6s 300.00nm 6.0mb					1.7s 174.00nm 5.4mb					PKI 48.15 273 P 36 20.60 -0.3				
Z 13s 7.90um 6.9MszX					Z 17s 14.11um 5.6MszX					DMN 48.37 273 P 36 22.00 -0.4				
N 13s 6.40um					E 17s 18.31um					GKN 48.53 274 P 36 23.40 -0.1				
					e 34 51.00 394kmX					BALM 48.95 39 eP 36 25.71 -0.5				
					e 38 27.00					FRU 49.49 296 iPc 36 30.80 0.2				
					eSS 40 20.00					3.0s 900.00nm 6.3mb				
										Z 18s 3.00um 5.3Msz				
										E 18s 3.20um				

		e	38 27.00	659kmX	PUL	65.79	329 eP	38 25.00	0.1	E 19s	1.00um		
SNG	49.71	240 eP	43 44.00		Z 19s		3.50um		5.6Msz	e	39 20.00	80kmX	
IPM	51.39	237 ePc	36 32.20	-0.3	N 19s		2.50um			eS	48 14.00		
	1.2s	95.10nm	36 45.80	0.5	E 19s		2.90um			ePS	48 34.00		
KGM	51.93	233 ePc	36 49.60	0.3			eS	47 10.00		e	48 51.00		
SVE	53.24	317 iPc	36 58.00	-0.6	OBN	65.94	323 iPc	38 25.00	-1.0	eSS	52 55.00		
	2.1s	200.00nm		5.8mb		1.6s	160.00nm		5.8mb	SHI	71.39	293 eP	38 59.00 -1.4
Z 15s		4.50um		5.6MszX	Z 16s		6.00um		5.9MszX	HFS	71.44	336 eP	38 58.80 -1.2
N 15s		2.00um			N 16s		3.00um				0.5s	21.40nm	5.3mb
E 15s		7.50um			E 16s		3.60um			CMS	71.47	177 eP	38 59.90 -0.4
		e	38 03.00	303kmX			(S)	38 37.00	41km	NB2	71.49	337 P	38 59.50 -0.8
SIT	53.49	42 P	44 30.00		DZM	65.96	155 iPc	47 16.00			0.9s	35.90nm	5.3mb
	Z 21s	1.92um	37 10.00	9.6X	RMD	66.68	174 iPc	38 26.00	-0.6	NAO	71.77	337 P	38 59.90 -2.1
HON	53.63	92 P	37 12.76	10.9X		1.3s	104.00nm	38 30.10	-0.9	STK	71.79	181 eP	39 14.20 12.0X
	Z 19s	0.83um		4.8Msz	DPW	66.96	46 ePd	38 33.40	0.6		0.9s	3.60nm	
		S	45 03.37				e	38 49.03	57km	ANN	71.84	314 iP+	39 02.00 -0.6
NDI	53.82	279 iPc	37 02.50	-0.8	BAK	67.00	304 eP	38 32.00	-1.0		1.8s	50.00nm	5.2mb
	0.6s	33.33nm		5.5mb		Z 18s	14.40um		6.2Msz	Z 18s		1.50um	5.3Msz
		eS	44 38.00			N 15s	18.24um			E 18s		3.00um	
MTN	53.86	194 eP	37 02.00	-1.5		E 18s	10.30um				eS	48 24.00	
KHKI	54.32	213 ePd	37 05.10	-1.9	NEW	67.33	45 eP	47 50.00		KVN	72.25	54 eP	39 06.62 1.2
		e	40 23.50			1.3s	50.37nm	38 35.23	0.1		e	39 19.60	45km
ARU	54.44	317 iPc+	37 06.70	-0.7		Z 20s	3.61um		5.4mb	KER	72.30	300 iPc	39 05.00 -0.8
	1.8s	750.00nm		6.4mb	NUR	67.44	332 iP	38 34.20	-1.3	BONR	72.79	55 eP	39 09.37 0.6
Z 16s		11.00um		6.0MszX		0.6s	18.50nm		5.3mb		e	39 22.85	47km
N 16s		4.00um			Z 18s		3.00um		5.6Msz	HHA I	72.99	47 eP	39 11.17 1.6
E 16s		7.50um					LR	10 10.00			e	39 24.02	44km
		e	37 22.00	57km	SHE	67.66	305 iPc	38 37.00	-0.2	PTI	73.26	48 (P)	39 12.91 1.7
HYB	59.05	267 ePc	44 49.00			1.0s	70.00nm		5.7mb	TNP	73.39	54 eP	39 11.35 -0.8
	1.0s	50.00nm		5.6mb		Z 16s	1.50um		5.3MszX		1.3s	42.95nm	5.2mb
		eS	45 44.00			N 16s	3.00um			AKKT	74.61	311 eP	39 25.94 52km
RES	59.30	15 eP	37 41.00	-0.7		E 16s	3.50um			TPNV	74.69	55 eP	39 19.20 0.1
	0.6s	6.00nm		4.9mb	GRO	67.93	309 iPc+	47 35.00			0.9s	24.89nm	5.2mb
APA	60.08	335 iPc	37 45.30	-1.9		2.0s	240.00nm	38 38.00	-0.8	DUG	74.71	50 eP	39 34.29 47km
CTA	60.15	176 iP	37 46.00	-2.1		i		38 52.00</					

25d 09h

GLD	79.35	46	eP	39	46.77	1.2	CEY	82.51	326	e(P)	40	01.50	-0.4	SLM	87.93	38	P	40	40.00	11.1X
	1.4s	101.26nm				5.6mb	MOTA	82.58	329	iPc	40	02.60	0.2	Z	20s	0.68um			5.1Msz	
		e		40	00.43	47km			i		40	16.60	48km	CAF	87.99	333	iPc	40	30.00	0.9
ZST	79.45	326	eP	39	45.40	-0.2	SQTA	82.64	329	iPc	40	02.80	0.2		1.0s	23.40nm			5.4mb	
WIT	79.66	334	eP	39	48.00	1.3			i		40	17.50	51km	FVM	88.36	39	eP	40	30.40	-0.6
		e		40	02.00	48km	TRI	82.82	326	eP	40	02.70	-0.7		1.1s	32.96nm			5.5mb	
MOX	79.71	331	iPc	39	47.00	0.0			e		45	20.00		Z	22s	1.05um			5.2Msz	
	2.0s	112.00nm				5.5mb	OGA	83.00	329	eP	40	05.10	0.5			e		40	45.23	51km
Z	19s	1.60um				5.4Msz	AYN	83.08	302	iPc	40	05.33	0.3	LFF	88.43	334	eP	40	32.00	0.8
		eS		49	48.00		OHR	83.15	320	iP	40	04.50	-0.8		1.3s	60.30nm			5.7mb	
VKA	79.72	327	eP	39	47.00	-0.1			1.1s	85.00nm		5.7mb	LPO	88.50	333	eP	40	32.20	0.6	
BHL	79.93	306	P	39	44.00	-4.6X	CDF	83.15	332	iPc	40	05.10	-0.1		1.5s	52.25nm			5.6mb	
UZD	80.03	324	eP	39	47.80	-1.0			1.2s	28.25nm		5.2mb	CBM	89.04	20	P	40	40.00	5.9X	
KHC	80.16	329	iPc	39	50.00	0.5	MBH	83.19	303	eP	40	06.00	0.3	Z	21s	1.31um			5.3Msz	
	1.5s	44.60nm				5.2mb	SLE	83.24	331	ePc	40	05.50	-0.1	UYO	89.29	44	iPc	40	34.90	-0.6
Z	18s	3.80um				5.6Msz	FEL	83.33	331	PKP	40	05.98	-0.2	RSNY	89.29	25	P	40	50.00	14.7X
N	18s	1.80um					CTI	83.42	328	Pc	40	05.80	-0.8	Z	19s	0.67um			5.1Msz	
E	18s	2.50um					OSS	83.50	329	ePc	40	07.40	0.3	OLY	89.80	41	eP	40	36.61	-1.2
		e		40	03.70	47km	ZLA	83.52	331	ePc	40	07.20	0.2			e		40	51.62	51km
		e		40	07.50		VITF	83.78	332	PKP	40	08.23	-0.1	LMN	90.89	19	eP	41	01.00	18.3X
		e		40	24.30		LLS	83.80	330	ePc	40	08.80	0.2	HRV	92.08	24	P	41	00.00	11.8X
		e		40	47.00		BSF	83.81	332	eP	40	08.30	-0.3	Z	22s	0.86um			5.2Msz	
HRI	80.30	305	eP	39	50.50	-0.1			1.6s	57.20nm		5.4mb	NAV	93.25	33	eP	40	53.83	0.1	
WTS	80.30	334	eP	39	50.50	0.4	VDL	83.93	329	Pc	40	09.80	0.5	CEH	95.17	33	P	41	10.00	7.4X
	1.0s	19.20nm				5.0mb	BADA	83.96	302	iPc	40	10.00	0.5	Z	20s	0.50um			5.0Msz	
		e		40	05.00	50km	LOMF	84.21	331	PKP	40	10.48	-0.1	BCAO	112.02	297	ePKPc	46	14.60	-0.5
GEC2	80.34	328	P	39	50.20	-0.4	TMA	84.48	330	ePc	40	11.90	-0.1		1.6s	65.00nm				
	0.9s	5.46nm				4.5mb	WAJH	84.52	300	ePc	40	12.67	0.4			i		46	57.00	
		PcP		39	55.60	55km	VAL	84.71	329	Pc	40	12.70	-0.2	ZOBO	144.38	57	ePKP	47	13.00	-3.7X
		e		40	05.70		RSM	84.80	326	P	40	14.40	1.0	Z	25s	0.52um			5.2MszX	
WET	80.43	329	iPc	39	51.50	0.6	ACO	84.87	45	iPc	40	14.00	0.0			i		47	29.20	
	1.7s	97.00nm				5.5mb	MMK	84.87	330	iPc	40	14.60	0.5			LR		36	02.00	
GRF	80.63	330	iPc	39	52.80	0.9	DIX	85.06	336	ePc	40	15.60	0.5	LPB	144.58	57	ePKP	47	16.00	-0.8
	1.5s	101.00nm				5.5mb	PGD	85.15	327	Pc	40	16.40	0.9	Z	23s	0.76um			5.4MszX	
Z	21s	1.00um				5.1Msz	EMS	85.25	331	ePc	40	16.10	0.2			eLR		36	40.00	
		iPd		40	06.70	48km	DHJN	85.30	289	iPc	40	17.33	0.6	CNCB	144.86	57	PKPc	47	16.50	-0.9
CSS	80.64	308	eP	39	52.30	0.0	MME	85.32	327	Pc	40	16.90	0.5			i		47	32.50	
JAQ	80.74	22	eP	39	51.00	-1.4	LOR	85.34	333	iPc	40	16.10	0.0	CCH	146.46	55	(PKP)	47	24.00	4.2X
		pP		40	06.00	53km			0.9s	28.35nm		5.4mb	SIV	148.39	47	PKP	47	28.00	5.5X	
TUC	81.12	55	eP	39	55.38	0.4	Z	22s	1.95um		5.5Msz	YJA	150.32	61	ePKPd	47	27.00	1.1		
	1.6s	44.71nm				5.2mb	BOB	85.36	328	Pc	40	16.40	0.0	RTRS	152.27	79	e(PKP)	47	28.00	0.1
Z	21s	0.70um				5.0Msz	KMTA	85.42	290	iP	40	18.00	0.8	FSA	152.52	68	e(PKP)	47	30.00	1.6
		e		40	09.36	48km	FIR	85.43	327	eP	40	17.00	0.4	BAO	153.86	23	ePKP	47	39.00	8.3X
		S		50	05.89		ABHA	85.45	290	iP	40	19.00	1.6			e		47	54.00	
BHG	81.57	328	iPc	39	57.70	0.8	FLN	85.45	336	iPc	40	16.60	0.0			e		48	06.90	
ENN	81.64	334	eP	39	57.00	-0.1			1.4s	48.00nm		5.5mb			e		51	32.00		
	1.5s	50.00nm				5.3mb	Z	23s	2.17um		5.5MszX									
		e		40	12.00	52km	LDF	85.49	336	eP	40	17.10	0.3							
DSI	81.66	304	eP	39	57.80	0.2			1.3s	36.10nm		5.4mb								
PTJ	81.72	325	eP	39	57.00	-0.8	LBF	85.54	333	iPc	40	17.00	-0.2							
FUR	81.85	329	iPc	39	59.00	0.7			1.0s	27.80nm		5.4mb								
Z	17s	3.00um				5.7MszX	SSF	85.64	333	iPc	40	17.80	0.2							
KBA	81.90	328	eP	39	58.00	-0.8			1.0s	22.80nm		5.3mb								
	1.9s	162.00nm				5.7mb	RSL	85.68	331	PKP	40	17.97	-0.1	ROCH	0.28	138	iP+	54	18.99	-0.2
		i		39	59.40	4kmX	HYF	85.75	334	iPc	40	18.70	0.5			iS		54	26.43	
		i		40	13.60		LPL	85.79	330	iPc	40	18.90	0.2	JACH	0.55	81	iP	54	21.97	0.1
		i		40	53.50				0.9s	19.15nm		5.3mb			iS		54	31.72		
		i		43	07.70		LPG	85.80	330	iPc	40	19.00	0.2	PEL	0.60	130	iPd	54	22.57	0.1
ALO	81.97	51	eP	40	00.25	0.8			0.9s	24.25nm		5.4mb			iS		54	32.67		
Z	1.3s	51.86nm				5.4mb	SMF	85.88	333	iPc	40	19.00	0.2			iS		54	24.41	-0.1
	21s	0.70um				5.0Msz	GRR	85.90	336	iPc	40	18.90	0.0	LCCH	0.76	202	iP	54	24.41	-0.1
		e		40	14.22	48km			1.7s	136.75nm		5.9mb			(S)		54	34.76		
VAY	82.10	319	iP	40	00.70	1.0	EEO	85.92	27	eP	40	24.50	5.5X	TACH	0.92	165	iP	54	26.47	-0.2
	1.2s	86.00nm				5.7mb	AVF	85.92	333	iPc	40	19.20	0.2			iS		54	39.66	
		i		40	15.00	49km			0.9s	49.30nm		5.7mb	FCH	0.97	126	eP	54	27.53	-0.2	
SKO	82.18	320	iP	40	01.00	0.8	CKI	86.11	329	P	40	19.00	-1.0			iS		54	41.49	
	1.9s	371.00nm				6.1mb	BNI	86.20	330	Pc	40	20.80	0.2	PCH	1.05	145	eP	54	28.33	-0.2
Z	20s	3.47um				5.7Msz	LPF	86.27	336	iPc	40	21.20	0.5			iS		54	42.62	
		i		40	15.00	48km			1.1s	43.95nm		5.6mb	LNv	1.20	187	iP	54	30.73	0.2	
		iS		50	37.20		WMOK	86.52	46	eP	40	22.30	0.1			iS		54	46.45	
		i		51	23.00				1.3s	47.75nm		5.6mb	CHCH	1.26	158	eP	54	31.92	0.4	
		LR		20	02.50		Z	21s	0.85um		5.1Msz				iS		54	49.09		
LJU	82.22	326	e(P)	39	59.00	-1.3	MEO	86.59	46	iPc	40	09.50	-13.1X							
RBL	82.31	327	Pc	40	00.30	-0.6	MAF	86.69	333	iPc	40	23.40	0.6							
VBY	82.34	326	eP	40	00.50	-0.4			1.0s	41.00nm		5.6mb								
WATA	82.40	329	iPc	40	01.60	0.2	TCF	86.75	334	iPc	40	23.60	0.4							
		i		40	16.10	50km			0.9s	16.05nm		5.3mb								
		i		40	28.80		TOUF	86.86	329	PKP	40	09.10	-14.8X							
WTTA	82.44	329	iPc	40	01.80	0.2	AURF	86.93	329	PKP	40	09.49	-14.7X							
	1.9s	129.00nm				5.6mb	LSF	87.02	334	iPc	40	24.70	0.3							
		i		40	16.60	51km			0.9s	36.85nm		5.6mb	MBO	14.37	6	iP	25	36.00	5.9X	
		i		43	24.90		MFF	87.26	335	iPc	40	26.10	0.6			iS		27	59.00	
LANF	82.48	332	PKP	40	06.58	5.0X			0.9s	29.65nm		5.5mb	LKO							

BCAO	37.28	83	iPc	29	19.00	0.2	1.1s	18.99nm	5.0mb	0.4s	10.00nm	5.2mb								
	0.9s	9.00nm	4.5mb	PRY	48.57	73	eP	51	48.00	-0.9	56.31	276	P	20	45.00	0.4				
					0.5s	2.70nm	4.5mb	SLR	49.96	73	eP	51	58.00	-1.6	56.36	276	P	20	44.60	-0.5
SIV	44.88	247	eP	30	27.00	5.6X	SIV	50.12	314	P	52	05.00	4.3X	DMN	56.54	276	P	20	46.80	0.5
LFF	47.89	18	eP	30	45.10	0.4	BFT	50.88	74	eP	52	08.00	1.3	GKN	56.61	277	P	20	47.20	0.5
	1.3s	42.25nm	5.4mb	CNCB	52.14	305	eP	52	16.00	-0.7	68.40	342	P	22	04.50	0.0				
RJF	48.46	19	eP	30	50.30	1.1	LPB	52.43	306	eP	52	17.00	-1.8	NB2	0.7s	4.40nm	4.7mb			
	1.2s	17.55nm	5.0mb	ZOBO	52.66	306	(P)	52	21.00	0.3	68.66	340	eP	22	05.20	-0.8				
Z	18s	0.22um	4.2msz				LR	09	00.00		0.4s	7.00nm	5.1mb							
MAF	49.61	19	eP	30	58.60	0.6	ARE	53.96	302	eP	52	31.00	1.2	CLL	76.72	336	iP	22	53.90	0.3
	1.3s	19.85nm	4.9mb	VTY	65.28	86	eP	53	42.90	-4.8X	0.8s	9.00nm	4.8mb							
BUL	50.28	116	iPd	31	04.20	0.5	BCAO	72.32	47	iPc	54	31.50	0.5	GEC2	78.73	335	P	23	04.60	-0.3
LPG	50.50	23	eP	31	05.70	0.6		0.2s	52.00nm	6.2mb X	0.5s	0.42nm	3.7mb							
	1.2s	11.30nm	4.7mb				i	54	50.00		e	23	06.50							
ZOBO	51.51	249	P	31	14.30	0.6		i	55	18.00	e	23	20.40							
GEC2	56.01	25	P	31	44.80	-1.0	STK	88.90	169	eP	55	59.40	0.5	KBA	80.42	334	iPc	23	16.90	2.8X
	1.0s	2.88nm	4.2mb				0.8s	3.20nm	4.7mb		0.8s	7.40nm	4.7mb							
							TIO	90.87	16	iPd	56	11.50	3.6X	WTTA	80.76	335	iP	23	18.90	3.0X
KHC	56.18	25	eP	31	46.40	-0.5	ASPA	95.99	161	eP	56	31.50	-0.3		S.D. = 0.9	on 12 of 15 obs.				
	1.4s	7.00nm	4.5mb	GEC2	112.21	27	PKP	01	39.40	-0.3										
					0.7s	0.73nm	e	01	44.60											
ZST	57.05	28	eP	31	52.20	-0.8	JAQ	119.37	329	ePKP	01	52.00	-1.1		FEB 25, 1993	13h 12m 13.57±0.24s				
PRU	57.24	25	eP	31	54.50	0.1	SRU	120.00	297	ePKP	01	54.43	-0.6		54.497 N ± 4.1km	160.803 W ± 3.1km				
							MSU	120.29	295	ePKP	01	56.18	0.5		DEPTH = 33.0km (normol)					
SPC	59.23	29	eP	32	08.40	-0.1	RSSD	121.13	305	ePKP	01	56.49	-0.5		5.1mb (67 obs.)	4.5msz (24 obs.)				
MLR	59.86	35	eP	32	11.00	-1.9	DUG	121.93	296	ePKPd	01	58.75	0.2		ALASKA PENINSULA	(12)				
MAIO	80.34	53	eP	34	18.00	0.1	BW06	122.48	300	ePKP	01	58.21	-1.5		ML 4.7 (PMR).					
YKA	92.81	332	eP	35	17.80	-0.5	BONR	122.78	290	ePKP	02	01.77	1.3	SDN	0.06	12	eP	12	29.79	0.5
	0.9s	1.40nm	4.4mb	NB2	123.08	20	PKP	02	00.00	0.0	KDC	5.68	52	eP	13	35.74	-2.0X			
	S.D. = 0.8	on 17 of 20 obs.			0.9s	10.40nm					MCNL	5.89	34	eP	13	41.52	0.8			
											PDB	6.41	31	eP	13	49.01	1.0			
& FEB 25, 1993	11h 27m 14.40s						UPP	123.26	25	iPKP	02	00.00	-0.2	INE	6.98	34	eP	13	57.99	1.8
39.690 N	111.263 W						CHTO	123.65	111	ePKP	02	02.10	-0.2	SVW	7.18	21	eP	14	00.71	1.8
DEPTH = 8.8km							PTI	123.83	298	ePKP	02	03.21	1.0	CNPM	7.25	42	eP	13	58.97	-1.0
UTAH	(478)						NUR	125.45	28	ePKP	02	04.60	0.1	RDW	7.38	32	eP	14	03.59	1.7
<SLC-P>. MD 3.1 (SLC).								0.6s	10.00nm		RSO	7.38	33	eP	14	03.06	1.1			
							LBFM	127.16	290	ePKP	02	09.69	0.9	BGL	8.13	30	eP	14	13.05	0.9
EMUT	0.37	70	iPd	27	21.58	-0.4	KAF	127.25	28	iPKP	02	07.70	-0.2	CP2	8.17	30	eP	14	12.71	-0.2
SNO	0.43	210	P	27	23.07	-0.2		0.7s	23.50nm				CRP	8.20	31	eP	14	12.37	-0.9	
LEVU	0.46	247	P	27	23.75	-0.1	SES	129.01	305	ePKP	02	12.00	0.2	SLKM	8.29	39	eP	14	14.31	0.0
WMUT	0.58	312	P	27	26.13	-0.1	BMW	131.62	294	ePKP	02	16.20	-0.7	SEW	8.32	43	eP	14	13.92	-0.8
SGU	0.59	210	P	27	26.11	-0.2	RMW	131.67	295	ePKP	02	15.88	-1.1	MPA	8.60	41	eP	14	17.41	-1.2
DAU	0.72	0	ePd	27	28.36	-0.6	YKA	138.79	315	ePKP	02	22.70	-7.1X	SUA	8.79	33	eP	14	20.56	-0.8
SRU	0.81	135	ePd	27	29.25	-1.2		0.8s	32.40nm				PTE	8.96	40	eP	14	22.35	-1.3	
LDJ	0.90	353	P	27	31.93	0.1	LZH	140.31	103	ePKP	02	33.00	-0.6	PMS	9.02	37	eP	14	22.80	-1.7
HLJ	0.93	354	P	27	32.21	-0.1		1.0s	17.00nm				MID	9.31	52	eP	14	26.95	-1.4	
GMU	0.96	337	P	27	33.07	0.1	SSE	144.33	127	PKPd	02	38.50	-2.0	PMR	9.42	36	eP	14	26.85	-3.0X
WCU	0.97	222	P	27	33.11	0.0		1.0s	21.00nm				GHO	9.61	36	eP	14	30.94	-1.7	
JLU	1.10	34	P	27	32.51	-2.9	KAGJ	148.07	140	ePKP	02	50.30	3.6X	HIN	9.70	47	eP	14	31.21	-2.7X
DUG	1.29	293	eP	27	38.70	0.1	KUMJ	149.28	139	ePKP	02	52.80	4.3X	SML	9.84	37	eP	14	33.07	-2.7X
MSU	1.37	211	eP	27	39.11	-0.8	BJI	149.49	111	ePKP	02	53.00	4.4X	ADK	9.88	261	eP	14	31.32	-5.0X
MMU	1.49	181	P	27	41.50	-0.1		1.4s	57.00nm				VLZ	10.17	43	eP	14	37.08	-3.1X	
FSU	1.64	272	P	27	44.00	0.3	SHNJ	150.82	138	ePKP	02	56.70	5.9X	SCM	10.22	39	eP	14	39.23	-1.7
HVU	2.38	332	(P)	27	54.13	-0.3	KLU	151.05	301	ePKP	02	48.20	-2.2	KLU	10.54	42	eP	14	43.25	-2.2
ARUT	2.55	223	(Pn)	27	56.56	-0.2			ePKPbc02	57.00			GLB	11.37	45	eP	14	54.44	-2.2	
							TKSJ	151.66	143	PKP	02	59.30	7.2X	PAX	11.61	37	eP	14	58.38	-1.6
BW06	3.34	22	ePn	28	08.35	0.2	WKYJ	152.35	145	PKP	03	01.20	8.1X	BALM	11.81	49	eP	15	00.28	-2.3
GOL	4.55	88	ePn	28	22.30	-2.9	PMR	152.52	300	ePKP	02	49.36	-3.0X	IMA	12.12	14	eP	15	06.69	-0.2
									ePKPbc02	59.26				0.8s	12.88nm	5.1mb				
TNP	4.92	253	(Pn)	28	27.57	-2.9	YONJ	152.58	141	PKP	03	00.80	7.4X	HDA	12.14	30	eP	15	04.02	-3.0X
							PMS	152.59	299	ePKP	03	00.90	8.3X	FBA	12.29	27	eP	15	05.44	-3.6X
							SLKM	152.63	297	iPKP	02	59.92	7.3X		0.7s	9.92nm	5.1mb			
							F8A	152.94	307	ePKP	02	48.49	-4.4X	SIT	14.53	69	(P)	15	39.91	1.4
									ePKPbc02	59.70				1.1s	60.85nm	5.0mb				
									ePKPab03	11.72				15.87	335	iPd	16	01.50	5.8X	
							IMA	155.58	309	ePKP	02	53.77	-2.9X		1.0s	12.00nm	4.0mb X			
									ePKPbc03	06.85			Z	11s	4.20um	4.6msz				
									ePKPab03	23.20			N	12s	2.50um					
							BRW	156.78	322	ePKP	03	09.60	11.7X	BRW	16.96	4	eP	16	10.00	0.5
								S.D. = 1.0	on 41 of 58 obs.				PET	23.79	283	eP	17	24.00	0.3	
														1.1s	100.00nm	5.3mb				
							? FEB 25, 1993	13h 11m 04.44±2.60s					Z	20s	0.90um	4.2msz				
							46.846 N ±34.9km	154.329 E ±38.6km												
							DEPTH = 33.0km (normol)													
							4.9mb (8 obs.)													
							EAST OF KURIL ISLANDS	(222)												
SNA	15.05	149	iPc	46	39.20	0.7	KUSJ	7.78	245	eP	12	54.20	-3.9X	STW	23.85	90	P	17	26.75	2.4
	0.7s	267.12nm	5.6mb						eS	14	15.80		MCW	24.08	88	P	17	29.03	2.4	
SPA	31.22	180	iPd	49	25.90	0.8	ASAJ	8.65	256	eP	13	10.90	0.6	GMW	24.66	91	eP	17	33.38	1.1
	1.2s	38.03nm	5.1mb				HOJ	9.05	244	eP	13	13.70	-2.0	JCW	24.84	89	P	17	35.50	1.5
CER	39.27	70	eP	50	35.00	1.1			eS	14	49.40		YKA	24.93	53	eP	17	36.70	2.1	
	0.5s	8.11nm	4.7mb											0.6s	8.80nm	4.5mb				
RTCV	39.35	294	ePc	50	35.50	0.9														
CFA	39.42	295	eP	50	36.10	0.9														
RTLL	39.76	295	iPd	50	39.00	1.0														
FRS	45.18	73	iPc	51	23.40	1.4														
	1.0s	15.00nm	4.8mb																	

25d 13h

Z	14s	1.10um	4.6MszX	BOD	44.48	311 eP	20	22.00	-0.9	eSg	37	58.00
N	16s	0.80um			1.0s	12.00nm			4.7mb	eSg	51	31.00
E	14s	0.70um		MAT	44.82	272 eP	20	25.00	-0.9	3 iP	23	53.20 0.9
		e	18 00.00		1.7s	84.62nm			5.3mb	23.00nm		5.0mb
		e	18 34.00	ACO	45.10	87 iPd	20	27.60	-0.6	5 iPc	23	54.00 0.9
		e	23 20.00	WMOK	46.68	89 eP	20	39.90	-0.8	23.00nm		5.0mb
WTV	26.24	88 P	17 47.57 0.5		0.8s	41.67nm			5.5mb	FLN	75.79	13 eP 23 57.60 0.2
SSOR	26.32	96 P	17 48.45 0.5	Z	20s	0.49um			4.5Msz	1.3s	29.25nm	5.1mb
SAW	26.56	88 P	17 50.22 0.2	MEO	46.76	88 iPd	20	40.80	-0.5	Z	19s	0.25um 4.5Msz
DBO	26.90	99 P	17 53.84 0.6	JAO	46.88	54 ePc	20	41.00	-1.0	PRU	75.81	3 P 23 58.50 1.0
WAH2	26.95	90 P	17 54.08 0.5	SLM	48.93	78 P	21	10.00	11.9X		e	24 14.80
CROR	27.10	94 P	17 55.34 0.3	FVM	49.26	79 eP	20	58.72	-2.0	GRF	75.97	5 ePc 23 59.90 1.5
DPW	27.17	86 eP	17 55.19 -0.4		1.0s	50.68nm			5.5mb	Z	18s	0.20um 4.5Msz
JBO	27.50	92 P	17 59.02 0.4	Z	20s	0.61um			4.6Msz	LDF	76.00	13 eP 23 58.90 0.3
NEW	27.61	85 eP	17 59.57 0.0	UYO	49.60	86 iPc	21	02.00	-1.4	1.5s	55.35nm	5.3mb
	1.1s	56.33nm	5.2mb	EEO	49.72	63 eP	21	06.00	1.8	LPF	76.43	14 eP 24 01.70 0.7
LNOR	28.18	90 P	18 05.01 0.3	OLY	50.39	82 eP	21	06.67	-2.7	1.4s	43.55nm	5.3mb
LBFM	28.80	101 eP	18 10.59 0.0	ELC	50.43	79 eP	21	08.06	-1.6	KHC	76.64	4 iPc 24 03.50 1.3
WDC	28.94	103 eP	18 11.30 -0.2	IRK	52.39	309 ePc	21	23.50	-0.9	1.3s	12.00nm	4.8mb
	0.9s	9.16nm	4.5mb		1.2s	9.00nm			4.6mb		e	24 12.00
Z	21s	0.72um	4.3Msz	RSNY	53.49	63 P	21	32.30			e	24 17.50
SES	30.09	77 ePc	18 21.20 -0.6	Z	19s	0.46um			4.5Msz	SPC	76.68	359 eP 24 03.40 0.7
ARN	31.73	106 eP	18 35.36 -1.0	MCWV	54.05	70 P	21	50.00	13.3X	GEC2	76.93	4 P 24 04.40 0.5
BGMT	32.17	86 eP	18 40.10 -0.3	Z	20s	0.86um			4.8Msz		0.9s	3.18nm 4.3mb
		e	21 27.90	ZAK	54.16	308 eP	21	37.50	0.1		e	24 09.60
RES	32.19	27 eP	18 41.50 1.6		1.1s	10.00nm			4.8mb	CDF	76.97	8 eP 24 04.80 0.6
	1.0s	4.00nm	4.3mb	Z	22s	0.63um			4.6Msz	1.4s	22.65nm	5.0mb
KVN	32.50	101 eP	18 43.25 0.0	N	20s	0.54um				UZH	77.21	358 ePc 24 07.50 2.2
MEMM	32.97	103 eP	18 48.26 1.2	E	22s	0.62um				1.8s	87.00nm	5.5mb
HHA1	33.11	89 eP	18 49.20 0.7	MOY	54.29	311 eP	21	37.00	-1.3		e	24 19.80
BONR	33.13	102 eP	18 49.08 0.2	GBTN	54.44	77 eP	21	37.33	-2.3	HAU	77.30	9 eP 24 06.30 0.4
HON	33.19	175 P	19 00.00 10.9X	TKL	54.69	77 eP	21	39.40	-2.1	Z	19s	0.15um 4.3Msz
Z	19s	0.36um	4.1Msz	BJI	54.91	291 eP	21	38.50	-4.5X	BSF	77.51	9 eP 24 07.50 0.4
PTI	33.37	90 eP	18 51.51 0.7	Z	18s	0.59um			4.7Msz	ZST	77.67	1 eP 24 08.70 0.9
MTUM	33.40	103 eP	18 51.31 0.2	CBM	55.05	57 P	21	50.00	6.0X	LOR	77.78	11 eP 24 09.10 0.6
TIK	33.63	327 eP	18 50.00 -2.5	Z	20s	0.78um			4.8Msz		1.1s	15.15nm 4.9mb
	1.2s	10.00nm	4.6mb	NAV	55.18	73 eP	21	42.99	-2.1	Z	21s	0.15um 4.3Msz
Z	16s	0.90um	4.6MszX	KEV	55.93	357 iP	21	49.40	-0.6	SSF	77.95	11 eP 24 01.20 -8.2X
		e	19 07.00		0.8s	20.50nm			5.2mb		1.2s	20.55nm 5.0mb
TNP	33.66	101 ePd	18 52.62 -0.8	CVL	56.00	71 eP	21	49.30	-1.6	MFF	77.95	14 eP 24 10.50 1.1
	0.9s	20.36nm	5.0mb	TBR	56.04	65 eP	21	49.92	-1.3		1.1s	29.05nm 5.2mb
HVU	33.81	92 eP	18 54.87 0.3	HRV	56.46	63 P	22	00.00	5.8X	PSZ	77.96	360 eP 24 10.40 0.9
DUG	34.80	94 eP	19 02.89 -0.2	Z	18s	0.48um			4.6Msz	SRO	78.06	1 eP 24 07.50 -2.5
TPNV	35.00	102 eP	19 05.26 0.4	JSC	57.11	76 eP	21	56.63	-2.3	LBF	78.07	11 eP 24 10.70 0.5
	0.8s	26.17nm	5.2mb	CEH	57.16	73 eP	21	57.52	-1.7		1.1s	9.30nm 4.7mb
BW06	35.07	88 eP	19 04.72 -0.8		0.6s	24.28nm			5.4mb	AVF	78.20	11 eP 24 11.40 0.6
	0.7s	14.40nm	5.0mb	Z	18s	0.43um			4.6Msz	SMF	78.40	11 eP 24 12.50 0.6
DAU	35.56	93 eP	19 10.02 0.2	LHS	57.22	75 eP	21	57.53	-2.1		1.3s	23.10nm 5.0mb
FCC	35.57	55 ePc	19 13.40 4.2X	LMN	57.43	56 ePc	22	02.90	1.8	WTTA	78.41	5 iPd 24 13.20 1.0
YSS	35.64	282 eP	19 09.80 -0.1	SDF	58.28	357 iP	22	06.30	-0.4	LSF	78.51	12 eP 24 13.10 0.5
	1.0s	20.00nm	5.0mb	SSE	58.58	280 P	22	07.60	-1.6	MAF	78.67	12 eP 24 14.10 0.7
Z	18s	0.50um	4.3Msz		1.0s	15.00nm			5.0mb		1.3s	18.05nm 4.9mb
E	18s	0.50um		ELT	59.16	320 iPd	22	12.00	-1.0	KBA	78.68	4 iPd 24 14.50 0.8
YAK	35.64	311 eP	19 08.10 -1.7		1.2s	52.00nm			5.5mb		1.1s	25.30nm 5.1mb
	0.9s	36.00nm	5.3mb	KAF	63.60	356 iP	22	41.60	-1.1		i	24 15.20
Z	20s	0.90um	4.5Msz		0.6s	24.10nm			5.5mb		i	24 23.20
N	16s	0.50um		SVE	64.03	336 ePc	22	45.50	-0.2	PYA	79.76	343 eP 24 22.00 2.6
E	20s	0.70um			1.7s	40.00nm			5.2mb	LPL	79.80	9 eP 24 21.10 1.3
		i	21 38.00	LZH	64.39	297 P	22	47.50	-1.0		1.3s	17.35nm 4.9mb
		eS	24 41.00		1.5s	38.00nm			5.3mb	LPG	79.82	9 eP 24 21.50 1.5
		e	29 26.00	Z	20s	0.40um			4.6Msz		1.4s	14.40nm 4.8mb
GSC	35.86	104 eP	19 11.52 -0.5	E	10s	0.32um				CAF	79.88	12 eP 24 20.80 0.7
ARUT	36.04	98 eP	19 13.11 -0.6			pP					1.2s	9.20nm 4.7mb
SSK	36.15	106 eP	19 14.65 0.0	NB2	64.64	4 P	22	49.00	-0.6	KIV	79.90	343 eP 24 20.90 0.7
EMUT	36.21	93 eP	19 15.01 -0.2	ARU	64.88	337 eP	22	49.00	-2.2		1.2s	23.00nm 5.1mb
MSU	36.28	96 eP	19 15.50 -0.3		1.8s	140.00nm			5.8mb	GUN	79.99	304 P 24 21.40 0.1
SRU	36.84	94 eP	19 20.37 0.0	NUR	65.26	357 iP	22	53.10	-0.4	BZS	80.24	358 eP 24 22.00 0.2
PLM	37.25	106 eP	19 23.84 0.0		0.6s	30.50nm			5.6mb	VBY	80.32	3 eP 24 25.40 3.1X
RSSD	37.46	82 eP	19 24.97 -0.7	HFS	65.63	3 eP	22	55.10	-0.8	KKN	80.38	305 P 24 23.00 -0.2
	0.9s	23.09nm	5.0mb		0.5s	26.00nm			5.6mb		0.8s	39.00nm 5.5mb
		ePcP	21 41.78	UPP	65.99	1 iP	22	57.70	-0.4	PKI	80.50	305 P 24 23.20 -0.8
ULM	38.61	69 ePc	19 39.00 4.1X	OBN	69.83	349 eP	23	21.00	-1.2		1.0s	56.00nm 5.5mb
GLA	38.61	105 eP	19 34.70 -0.5		0.8s	29.00nm			5.4mb	GKN	80.50	305 P 24 23.20 -0.6
GOL	39.46	89 eP	19 42.55 0.1	PRZ	71.00	318 eP	23	30.00	0.2		1.0s	60.00nm 5.5mb
	0.8s	53.19nm	5.4mb		1.6s	50.00nm			5.3mb	DMN	80.61	305 P 24 24.00 -0.5
Z	19s	0.74um	4.5Msz	FRU	72.14	320 eP	23	38.00	1.6		0.8s	49.00nm 5.6mb
GLD	39.51	88 eP	19 43.98 1.2		2.0s	81.00nm			5.4mb	ERUA	80.89	19 eP 24 27.50 2.1
	0.9s	101.11nm	5.6mb	KMI	73.53	290 eP	23	43.50	-1.6	ECRI	81.50	16 eP 24 30.40 1.7
Z	19s	0.67um	4.5Msz			pP			19kmX	MTA	81.70	341 iP 24 30.60 1.0
TUC	41.46	101 eP	19 58.88 0.2	CLL	74.44	4 iPc	23	50.10	0.5	MA10	83.15	328 iPc 24 39.00 1.7
	1.0s	17.17nm	4.7mb		1.7s	29.00nm			5.0mb	NDI	83.32	311 iPc 24 38.00 -0.2
Z	19s	0.19um	4.0Msz							ETOR	83.32	16 eP 24 39.00 0.8
ALO	42.06	95 eP	20 03.40 -0.4							EPLA	83.34	19 eP 24 40.00 1.8
	1.2s	38.84nm	5.0mb							GRS	83.52	339 eP 24 40.00 0.7
Z	18s	0.30um	4.2Msz								1.2s	10.00nm 4.8mb
		ePcP	21 57.62							SKO	83.89	358 iP 24 42.50 1.6

25d 13h

PAB 84.17 18 eP 24 44.00 1.5
 EVIA 85.38 17 eP 24 50.50 1.9
 RMO 91.57 224 eP 25 18.10 0.2
 HYB 92.42 305 eP 25 21.70 -0.5
 WRA 92.42 238 P 25 21.00 -0.9
 0.5s 2.90nm 5.0mb
 BCAA 121.28 1 iPKPc 31 03.50 -1.2
 0.5s 5.00nm
 SPA 144.31 180 iPKPc 31 42.40 -4.0X
 1.0s 35.00nm
 BUL 144.96 344 iPKPc 31 48.50 -0.4
 CIR 145.27 339 iPKPc 31 48.00 -1.2
 WIN 148.08 4 ePKP 31 33.00 -21.0X
 SLR 150.49 343 iPKPc 32 03.00 5.4X
 0.8s 29.85nm
 PRY 151.79 344 ePKP 32 05.00 5.5X
 SEK 153.13 343 ePKP 32 08.50 7.1X
 0.5s 14.00nm
 BLF 154.13 346 ePKP 32 10.80 8.1X
 S.D. = 1.2 on 178 of 204 obs.

& FEB 25, 1993 14h 25m 03.76s
 63.239 N 150.432 W
 DEPTH = 126.4km
 CENTRAL ALASKA (1)
 <AEIC>.

TRF 0.22 17 iP 25 21.25 1.3
 HUR 0.45 126 eP 25 21.85 -0.5
 0.5s 25 36.11
 RND 0.73 76 eP 25 23.87 -0.5
 0.5s 25 39.65
 MCK 0.83 53 eP 25 24.79 -0.4
 0.5s 25 40.43
 SKT 1.36 202 eP 25 29.51 -0.9
 0.5s 25 49.37
 NEA 1.47 23 eP 25 30.44 -1.2
 PWA 1.61 171 P 25 33.70 0.4
 0.5s 25 56.90
 GHO 1.63 154 eP 25 33.36 -0.2
 0.5s 25 56.32
 SML 1.74 145 eP 25 34.12 -0.7
 0.5s 25 58.12
 PLRM 1.76 159 eP 25 34.33 -0.7
 SUA 1.79 185 eP 25 35.31 -0.2
 CCB 1.83 38 eP 25 34.94 -0.9
 HDA 1.94 51 eP 25 36.28 -0.9
 MDM 1.98 28 eP 25 36.72 -1.0
 SCM 2.02 133 eP 25 37.60 -0.7
 FBA 2.03 34 eP 25 37.40 -1.0
 PMS 2.04 168 P 25 38.40 -0.2
 THY 2.12 83 eP 25 40.12 0.6
 CRP 2.14 203 eP 25 39.82 -0.1
 CPAM 2.15 203 eP 25 39.95 0.0
 CKN 2.18 203 eP 25 40.85 0.5
 BGL 2.18 206 eP 25 41.18 0.8
 SPU 2.20 201 eP 25 40.49 -0.1
 GLM 2.21 36 eP 25 39.80 -0.8
 PAX 2.27 95 eP 25 41.29 -0.2
 SDG 2.35 106 eP 25 41.83 -0.6
 PTE 2.47 164 eP 25 43.04 -0.9
 NKA 2.53 189 eP 25 46.79 2.0
 TZL 2.61 115 eP 25 45.93 0.2
 KLU 2.74 128 eP 25 45.99 -1.5
 SLKM 2.74 178 eP 25 47.12 -0.4
 MPA 2.81 169 eP 25 47.07 -1.2
 VLZ 2.86 136 eP 25 47.11 -1.9
 DOT 2.89 79 eP 25 48.51 -1.0
 IMA 3.17 335 eP 25 52.14 -1.1
 SEW 3.18 171 eP 25 51.87 -1.4
 HIN 3.41 145 eP 25 54.71 -1.6
 CVA 3.49 139 eP 25 56.17 -1.2
 GLB 3.58 117 eP 25 57.64 -1.0
 CNPM 3.75 186 eP 25 59.93 -0.9
 PDB 3.90 209 eP 26 02.45 -0.5
 CROM 4.25 123 eP 26 06.49 -1.3
 BALM 4.39 117 eP 26 08.09 -1.6
 CTGM 4.84 114 eP 26 14.96 -0.9
 YAH 5.03 121 eP 26 16.56 -1.8
 45 obs. associated

FEB 25, 1993 14h 41m 59.39 ± 0.79s
 31.319 S ± 9.3km 69.464 W ± 7.3km
 DEPTH = 129.4 ± 10.9 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 4.0 (SAN).

ZON 0.71 109 iPd 42 20.20 0.1
 0.5s 42 32.20
 RTLL 0.85 91 iPc 42 21.00 -0.2
 0.5s 42 33.70
 RTCV 0.96 125 iPd 42 21.70 -0.5
 0.5s 42 37.00
 CFA 1.09 106 iPc 42 23.20 -0.2
 0.5s 42 39.00
 MDZ 1.64 162 iP 42 29.70 0.2
 0.5s 42 52.70
 JACH 1.66 215 iP 42 30.36 0.6
 0.5s 42 53.29
 PEL 2.09 209 iPd 42 35.18 0.2
 0.5s 43 01.70
 ROCH 2.11 218 iP 42 35.28 -0.1
 0.5s 43 01.42
 FCH 2.12 199 iP 42 36.53 0.9
 0.5s 43 04.23
 SAN 2.36 205 iP 42 38.44 0.1
 PCH 2.46 201 iP 42 40.30 0.6
 0.5s 43 10.77
 TACH 2.64 208 iPd 42 41.50 -0.4
 0.5s 43 12.36
 RTPR 2.73 69 ePc 42 43.50 0.4
 LCCH 2.79 219 (P) 42 43.56 -0.3
 0.5s 43 13.80
 CHCH 2.79 201 iP+ 42 43.80 -0.2
 0.5s 43 17.46
 CACH 2.95 199 iP 42 46.34 0.2
 0.5s 43 21.85
 LNV 3.10 211 iPd 42 46.53 -1.4
 0.5s 43 21.06
 MRA 3.38 110 eP 42 51.70 0.1
 TCA 4.17 92 iP 43 02.00 -0.3
 0.5s 43 46.00
 CYA 4.28 49 ePc 43 04.00 0.2
 S.D. = 0.5 on 20 of 20 obs.

? FEB 25, 1993 15h 10m 48.43 ± 3.36s
 32.139 S ± 32.9km 70.648 W ± 18.5km
 DEPTH = 100.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.7 (SAN).

JACH 0.54 175 iPd 11 04.66 -0.2
 0.5s 11 18.66
 ROCH 0.89 200 iPd 11 08.27 0.1
 0.5s 11 25.48
 PEL 1.00 182 iP 11 09.16 -0.1
 0.5s 11 26.84
 FCH 1.22 166 iP+ 11 12.28 0.2
 0.5s 11 31.58
 PCH 1.48 176 iP 11 15.27 0.3
 0.5s 11 37.29
 TACH 1.53 189 iP 11 15.21 -0.3
 0.5s 11 37.75
 LCCH 1.54 210 iP 11 16.00 0.4
 0.5s 11 38.72
 MDZ 1.69 117 eP 11 25.50 7.9X
 0.5s 11 38.80
 CHCH 1.79 180 eP 11 18.67 -0.1
 0.5s 11 43.60
 LNV 1.92 199 eP 11 20.07 -0.4
 0.5s 11 45.86
 S.D. = 0.3 on 9 of 10 obs.

FEB 25, 1993 15h 40m 58.79 ± 0.60s
 47.159 N ± 9.5km 153.779 E ± 8.5km
 DEPTH = 33.0km (normal)
 4.9mb (41 obs.) 4.2MsZ (1 obs.)
 KURIL ISLANDS (221)

SKR 3.83 23 ePn 41 57.00 0.2
 KUR 4.53 247 iPnc 42 07.00 0.1
 0.5s 43 01.50
 SHO 5.91 239 ePn 42 22.50 -3.7X
 0.5s 43 34.00
 PET 6.65 26 ePn 42 36.00 -0.6
 Z 16s 1.00um
 E 16s 1.20um
 YSS 7.55 273 iPnc 42 52.80 3.5X
 Z 16s 1.30um
 N 16s 1.00um
 MGD 13.08 353 ePn 44 04.50 -0.2
 Z 16s 0.60um
 N 16s 0.60um

MAT 15.69 233 eP 44 36.00 -2.9
 1.0s 10.00nm 4.0mb
 SEY 15.80 358 eP 44 44.00 3.9X
 YAK 20.21 326 eP 45 32.20 -1.0
 0.9s 26.00nm 4.6mb
 Z 16s 0.40um 3.9MsZ
 E 15s 0.40um
 ILT 25.09 24 iPd 46 21.00 -0.4
 1.0s 20.00nm 4.7mb
 BOD 25.99 309 eP 46 30.30 0.4
 0.6s 10.00nm 4.6mb
 TIK 27.19 343 eP 46 39.00 -1.8
 1.4s 11.00nm 4.3mb
 ZAK 32.92 295 eP 47 31.00 -0.8
 0.8s 8.00nm 4.7mb
 Z 14s 0.69um 4.5MsZ
 E 14s 0.96um
 IMA 33.21 36 eP 47 33.09 -1.3
 0.8s 1.49nm 3.9mb
 FBA 35.56 39 eP 47 53.88 -0.5
 1.1s 8.09nm 4.6mb
 LZH 38.33 272 P 48 19.80 1.5
 1.2s 41.00nm 5.1mb
 Z 18s 0.34um 4.2MsZ
 ELT 42.17 304 eP 48 48.50 -1.0
 0.8s 14.00nm 4.7mb
 Z 13s 0.50um 4.6MsZ
 e 50 42.00
 NVS 43.30 307 eP 48 57.00 -1.7
 KMI 45.77 260 P 49 18.50 -0.6
 1.4s 30.00nm 5.0mb
 pP 49 28.50 34kmX
 sP 49 32.50
 RES 50.30 19 eP 49 55.00 1.5
 0.8s 2.00nm 4.2mb
 YKA 50.32 37 eP 49 52.70 -1.1
 1.2s 2.50nm 4.1mb
 CHTO 52.66 257 eP 50 12.40 0.4
 ARU 55.02 317 eP 50 27.00 -2.0
 0.8s 50.00nm 5.6mb
 GUN 55.42 275 P 50 33.00 0.3
 0.6s 29.00nm 5.5mb
 KKN 55.90 275 P 50 36.40 0.4
 0.6s 33.00nm 5.5mb
 PKI 55.96 275 P 50 36.80 0.3
 0.8s 42.00nm 5.5mb
 DMN 56.14 275 P 50 38.40 0.7
 0.6s 50.00nm 5.7mb
 GKN 56.20 276 P 50 38.60 0.5
 NDI 60.77 282 iPc 51 09.50 -0.1
 BGMT 61.18 54 eP 51 11.50 -1.1
 NUR 65.03 335 iP 51 36.50 -0.9
 0.8s 16.20nm 5.2mb
 QUE 66.52 290 eP 51 48.40 0.7
 UPP 67.50 338 iP 51 52.30 -0.8
 NB2 67.99 341 P 51 55.50 -0.8
 0.9s 20.80nm 5.2mb
 HFS 68.23 340 eP 51 56.90 -0.8
 0.5s 22.70nm 5.5mb
 GBA 70.88 269 P 52 14.00 -0.6
 CLL 76.28 336 iPd 52 45.20 -0.3
 1.0s 32.00nm 5.3mb
 BRG 76.40 335 iP 52 47.00 0.8
 1.0s 10.00nm 4.8mb
 MLR 76.99 325 eP 52 51.00 1.3
 PRU 77.02 334 eP 52 50.00 0.4
 MOX 77.26 336 eP 52 51.30 0.3
 1.1s 15.00nm 4.9mb
 KHC 78.07 335 eP 52 56.00 0.5
 1.0s 7.00nm 4.6mb
 e 53 05.00
 GRF 78.23 336 eP 52 57.20 0.9
 0.9s 25.00nm 5.2mb
 GEC2 78.29 334 P 52 56.60 -0.2
 0.8s 3.31nm 4.4mb
 e 53 00.00
 KBA 79.98 334 iPd 53 07.00 0.9
 0.9s 21.70nm 5.2mb
 i 53 08.60
 WTTA 80.32 335 iPd 53 08.90 1.0
 1.0s 30.80nm 5.3mb
 i 53 10.30
 CDF 80.45 338 eP 53 08.60 0.2
 1.1s 13.65nm 4.9mb
 HAU 81.06 339 eP 53 11.70 0.1
 BSF 81.11 338 eP 53 12.90 0.9
 GRR 82.31 343 eP 53 18.50 0.5

25d 15h

0.8s 11.15nm 5.0mb
 LOR 82.35 340 eP 53 18.30 0.0
 0.8s 9.25nm 4.9mb
 LBF 82.59 340 eP 53 20.10 0.5
 0.8s 3.65nm 4.5mb
 SSF 82.63 340 eP 53 20.80 1.1
 0.8s 6.70nm 4.8mb
 LPF 82.69 343 eP 53 20.40 0.4
 1.3s 27.80nm 5.2mb
 AVF 82.92 340 eP 53 21.70 0.5
 0.7s 5.75nm 4.8mb
 SMF 82.94 340 eP 53 21.90 0.5
 1.0s 15.60nm 5.1mb
 LPL 83.27 337 eP 53 24.30 0.9
 0.7s 6.15nm 4.8mb
 LPG 83.28 337 eP 53 24.50 1.0
 0.8s 7.40nm 4.9mb
 MAF 83.64 340 eP 53 25.90 0.9
 0.6s 5.25nm 4.9mb
 TCF 83.66 341 eP 53 25.70 0.6
 0.8s 4.85nm 4.7mb
 S.D. = 0.9 on 57 of 60 obs.

FEB 25, 1993 16h 24m 25.47±0.81s
 56.357 N ± 8.3km 156.738 W ± 6.5km
 DEPTH = 92.4 ± 8.1 km
 3.9mb (3 obs.)

ALASKA PENINSULA (12)

SDN 2.35 246 eP 25 02.50 -0.5
 S 25 22.99
 KDC 2.71 57 eP 25 07.94 0.1
 S 25 31.11
 MCNL 3.11 23 eP 25 14.13 0.7
 eS 25 48.70
 AUI 3.47 29 eP 25 19.62 1.3
 eS 25 59.04
 AUE 3.51 29 eP 25 20.53 1.7
 AUL 3.51 29 eP 25 20.30 1.4
 eS 26 00.03
 PDB 3.70 20 iP 25 21.91 0.5
 eS 26 02.69
 INW 4.18 26 eP 25 29.00 0.7
 eS 26 16.58
 INE 4.19 26 eP 25 29.24 0.8
 CNPM 4.32 40 eP 25 30.71 0.6
 eS 26 18.07
 RS1 4.62 25 eP 25 35.23 0.9
 BRK 4.62 40 eP 25 34.27 0.1
 eS 26 22.33
 RSO 4.62 25 eP 25 34.02 -0.4
 S 26 18.87
 RDW 4.62 25 eP 25 35.04 0.6
 NCT 4.67 24 eP 25 35.48 0.5
 DFR 4.75 25 eP 25 36.94 0.8
 SVW 4.80 6 eP 25 35.78 -1.0
 S 26 27.12
 CKL 5.37 23 eP 25 45.19 0.5
 SLKM 5.39 37 eP 25 44.36 -0.6
 eS 26 42.52
 CKT 5.40 24 eP 25 45.24 0.1
 BGL 5.41 23 eP 25 46.14 0.8
 SPU 5.42 25 eP 25 45.22 -0.1
 CP2 5.45 24 eP 25 45.83 -0.1
 CRP 5.47 24 eP 25 46.02 -0.2
 MPA 5.67 40 eP 25 48.26 -0.5
 SUA 5.99 29 eP 25 53.12 -0.2
 PTE 6.05 39 eP 25 53.17 -0.9
 PMS 6.16 34 eP 25 55.40 -0.1
 SKT 6.24 23 eP 25 56.26 -0.4
 PMR 6.56 34 eP 25 59.81 -1.2
 HIN 6.73 49 eP 26 02.85 -0.6
 GHO 6.76 33 eP 26 02.80 -1.1
 SML 6.97 35 eP 26 05.67 -1.1
 CVA 7.13 49 eP 26 07.74 -1.1
 VLZ 7.22 44 eP 26 09.49 -0.6
 SCM 7.32 38 eP 26 10.85 -0.7
 SGAM 7.34 51 eP 26 11.53 -0.2
 KLU 7.60 43 eP 26 14.66 -0.7
 TRF 7.82 22 eP 26 16.89 -1.6
 SNH 8.26 57 eP 26 25.53 1.1
 CROM 8.36 53 eP 26 25.95 0.0
 GLB 8.40 47 eP 26 25.71 -0.7
 SDG 8.41 38 eP 26 26.79 0.4
 TGL 8.50 53 eP 26 27.42 -0.3
 PAX 8.74 36 eP 26 30.29 -0.6
 BALM 8.83 52 eP 26 32.25 0.0

CCB 9.40 24 eP 26 36.77 -3.1X
 HDA 9.40 27 eP 26 37.36 -2.5X
 FBA 9.62 23 eP 26 39.29 -3.5X
 IMA 9.86 7 eP 26 44.99 -1.1
 YKA 21.96 56 eP 29 14.10 1.8
 0.5s 1.90nm 3.7mb
 KAF 61.85 358 eP 34 35.90 -0.5
 0.3s 1.00nm 4.4mb
 GEC2 74.87 7 P 35 58.40 1.2
 0.7s 0.95nm 3.8mb
 S.D. = 0.8 on 50 of 53 obs.

% FEB 25, 1993 16h 57m 40.39±0.52s
 42.658 N ± 4.0km 18.826 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.1 (TTG).

NKY 0.20 39 iPg 57 45.53 0.7
 iSg 57 49.22
 BRY 0.32 320 iPg 57 46.99 -0.1
 iSg 57 52.31
 HCY 0.32 229 iPg 57 47.07 0.0
 iSg 57 52.31
 BDV 0.37 180 iPg 57 48.24 0.2
 iSg 57 54.42
 TTG 0.39 125 iPg 57 48.58 0.1
 iSg 57 55.12
 ULC 0.76 155 iPg 57 55.07 -0.2
 iSg 58 06.87
 PLE 0.79 32 iPg 57 55.46 -0.4
 iSg 58 07.32
 IVA 0.82 74 iPg 57 56.09 -0.2
 iSg 58 08.56
 PVY 0.85 94 iPg 57 56.72 -0.1
 iSg 58 09.69
 S.D. = 0.4 on 9 of 9 obs.

FEB 25, 1993 17h 10m 11.11±0.61s
 39.345 N ± 5.3km 20.519 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.1 (ATH). ML 2.8 (THE).

IGT 0.24 322 ePg 10 15.72 -0.5
 eSg 10 19.76
 KEK 0.67 304 ePb 10 24.20 -0.2
 VLS 1.17 177 ePb 10 32.80 -0.1
 KZN 1.36 45 ePb 10 35.50 -0.7
 AGG 1.44 102 ePb 10 38.40 1.1
 eSb 10 58.92
 FNA 1.58 24 ePb 10 39.52 0.3
 eSb 11 01.20
 LIT 1.70 63 ePb 10 41.24 0.3
 eSb 11 03.96
 OHR 1.78 7 iPn 10 44.10 2.0
 1.0s 88.00nm
 i 10 49.50
 i 11 07.00
 i 11 10.60
 Lg 11 16.70
 GRG 2.16 41 ePn 10 48.28 0.6
 eSn 11 17.64
 THE 2.28 55 ePn 10 48.60 -0.7
 eSn 11 17.96
 PAIG 2.51 76 ePn 10 52.24 -0.3
 VAY 2.52 38 ePn 10 52.40 -0.3
 KNT 2.57 44 ePn 10 52.80 -0.7
 eSn 11 25.72
 SOH 2.63 55 ePn 10 53.88 -0.5
 eSn 11 26.84
 SKO 2.72 15 ePn 10 55.50 -0.1
 1.0s 55.00nm
 eSg 11 34.50
 Lg 11 43.00
 OUR 2.84 69 ePn 10 57.12 -0.2
 eSn 11 32.48
 SRS 2.94 52 ePn 10 58.92 0.1
 eSn 11 34.20
 S.D. = 0.7 on 17 of 17 obs.

? FEB 25, 1993 17h 59m 56.25±2.97s
 48.064 N ±15.1km 2.060 W ±25.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.0 (LDG).

LPF 0.68 92 Pg 00 08.20 -1.6
 Sg 00 17.80
 GRR 0.87 68 Pg 00 13.30 0.4
 Sg 00 25.40
 FLN 1.26 56 Pg 00 20.40 0.7
 Sg 00 37.80
 LDF 1.40 67 Pg 00 22.30 0.5
 Sg 00 41.80
 MFF 1.96 138 Pg 00 30.90 1.1
 Sg 00 56.40
 GUN 68.49 72 P 11 00.00 -1.1
 S.D. = 1.4 on 6 of 6 obs.

% FEB 25, 1993 18h 02m 10.74±0.82s
 40.758 N ± 6.7km 23.365 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.6 (THE).

SOH 0.06 353 ePg 02 13.30 0.2
 eSg 02 14.58
 THE 0.33 248 ePg 02 17.30 -0.2
 eSg 02 22.02
 SRS 0.40 26 ePg 02 18.50 -0.4
 eSg 02 24.58
 KNT 0.54 319 ePg 02 21.82 0.2
 eSg 02 30.30
 OUR 0.63 132 ePg 02 23.58 0.2
 S.D. = 0.4 on 5 of 5 obs.

? FEB 25, 1993 18h 06m 34.03±4.10s
 34.690 N ±60.2km 24.142 E ±55.4km
 DEPTH = 33.0km (normol)
 CRETE (370)

OHR 6.93 339 ePn 09 13.50 57.5X
 JVI 9.77 103 eP 08 54.70 -0.7
 SAGI 9.94 114 eP 08 57.70 0.0
 eS 10 43.90
 MBH 10.33 115 eP 09 02.70 -0.4
 KHC 16.41 335 eP 10 24.50 1.2
 0.9s 3.40nm 3.5mb X
 HFS 26.35 348 eP 12 06.30 -2.3
 0.4s 4.00nm 4.3mb
 GKN 51.43 80 P 15 39.00 0.7
 0.6s 10.00nm 5.0mb
 DMN 51.97 80 P 15 43.20 0.7
 KKN 52.04 80 P 15 43.40 0.4
 PKI 52.23 80 P 15 44.40 -0.2
 GUN 52.48 79 P 15 47.00 0.5
 0.4s 7.00nm 5.0mb
 S.D. = 1.1 on 10 of 11 obs.

& FEB 25, 1993 18h 36m 25.06s
 60.113 N 152.763 W
 DEPTH = 108.3km
 SOUTHERN ALASKA (2)
 <AEIC>.

INE 0.16 251 eP 36 39.82 0.8
 eS 36 51.69
 INW 0.19 256 eP 36 39.86 0.9
 eS 36 52.07
 RS1 0.35 0 eP 36 40.52 -0.8
 eS 36 52.89
 RSO 0.35 1 eP 36 40.48 -0.9
 eS 36 52.42
 RS2 0.35 0 eP 36 40.51 -0.8
 eS 36 53.37
 RDW 0.37 356 eP 36 40.52 -0.9
 eS 36 53.02
 REF 0.38 5 eP 36 40.66 -0.8
 eS 36 52.72
 NCT 0.46 350 eP 36 40.95 -0.9
 DFR 0.48 5 iP 36 40.99 -1.0
 eS 36 53.27
 RDT 0.50 21 eP 36 41.13 -0.9
 PDB 0.79 246 eP 36 43.63 -0.7
 CNPM 0.97 127 eP 36 45.48 -0.6
 eS 37 01.23
 NKA 0.99 49 eP 36 46.88 0.7
 BRK 1.01 110 eP 36 45.74 -0.8
 eS 37 01.45
 CKL 1.11 11 iP 36 46.80 -0.9
 CKT 1.13 14 iP 36 46.87 -1.0
 S 37 04.25
 SPU 1.13 18 eP 36 46.84 -1.0

CKN	1.15	14	eS	37	04.44	
BGL	1.17	9	iP	36	47.32	-0.8
CP2	1.18	12	eP	36	47.89	-0.8
CPAM	1.19	15	eP	36	47.82	-0.7
CRP	1.20	14	iP	36	48.00	-0.7
MCNL	1.23	221	eP	36	47.87	-1.0
			S	37	05.42	
SLKM	1.33	72	eP	36	48.72	-1.4
SEW	1.66	89	eP	36	52.12	-2.0
SUA	1.68	35	eP	36	53.65	-0.8
SVW	1.73	307	eP	36	53.56	-1.5
PMS	1.94	53	eP	36	56.51	-1.2
SKT	1.97	17	eP	36	56.76	-1.3
PTE	2.00	66	eP	36	56.33	-2.1
PLRM	2.32	49	eP	37	00.63	-1.9
GHO	2.51	47	eP	37	02.92	-2.3
SML	2.75	50	eP	37	05.93	-2.5
SCM	3.16	55	eP	37	11.73	-2.3
TRF	3.55	18	eP	37	16.69	-2.7
KLU	3.63	65	eP	37	17.17	-3.2

36 obs. associated

FEB 25, 1993 20h 14m 36.27±1.04s
 44.257 N ±12.7km 10.312 E ±10.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

BDI	0.28	133	Pd	14	41.60	-0.6
			eSg	14	46.40	
MME	0.29	103	Pc	14	41.00	-1.4
			eSg	14	45.90	
PII	0.56	164	P	14	47.50	-0.1
			eSg	14	56.70	
BOB	0.80	310	P	14	51.80	-0.1
SFI	1.16	106	P	14	59.10	1.2
CRE	1.34	117	P	15	02.00	1.0

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

FEB 25, 1993 20h 21m 27.00±0.77s
 52.883 N ± 7.8km 175.153 W ± 5.6km
 DEPTH = 233.9 ± 6.6 km
 4.4mb (28 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.37	224	iPc	22	02.86	-0.2
			eS	22	29.87	
SDN	8.95	68	eP	23	30.37	-2.8X
SVW	13.41	44	iP	24	30.52	1.1
KDC	13.76	60	eP	24	31.25	-2.4
TTA	14.25	38	eP	24	40.45	0.8
RSO	14.40	49	iPd	24	43.15	1.4
SLKM	15.60	51	eP	24	54.10	-2.0
PWA	16.15	47	eP	25	04.30	1.7
IMA	17.00	31	iPc	25	11.61	-0.5
	1.0s		42.01nm			4.8mb
KLU	17.89	50	eP	25	20.91	-0.6
FBA	18.37	38	eP	25	26.25	-0.1
	0.6s		24.88nm			4.9mb
BALM	19.48	52	eP	25	38.46	0.7
BRW	20.22	17	eP	25	46.10	1.2
YKA	32.56	49	eP	27	35.80	-1.8
	0.8s		4.90nm			4.2mb
GMW	33.30	78	iPd	27	44.89	0.7
BMW	33.57	80	P	27	47.04	0.5
FMW	34.27	78	P	27	52.86	0.2
LON	34.28	78	iPc	27	52.40	-0.1
ASR	34.71	79	P	27	56.52	0.2
SSOR	34.88	82	P	27	58.38	0.7
WTV	34.90	76	P	27	57.15	-0.6
VBEM	35.29	81	P	28	01.52	0.3
DBO	35.36	85	P	28	02.92	1.2
VGB	35.53	80	eP	28	03.51	0.5
CROR	35.69	80	P	28	04.83	0.4
JBO	36.12	79	P	28	08.04	0.1
LNOR	36.82	77	P	28	13.44	-0.5
LBFM	37.21	86	eP	28	18.58	1.1
ORV	38.54	88	eP	28	28.69	0.5
BGMT	40.84	75	eP	28	46.00	-1.3
BONR	41.48	88	P	28	53.72	1.0
PTI	42.01	78	(P)	28	57.51	0.7
TNP	42.06	87	iP	28	57.72	0.4
	0.8s		10.68nm			4.4mb
HVU	42.43	79	eP	28	59.89	-0.3
FCC	43.29	49	eP	29	09.00	2.3
DUG	43.38	81	P	29	07.91	0.0
	0.4s		14.54nm			4.7mb

TPNV	43.38	87	P	29	08.22	0.3
	1.0s		23.61nm			4.5mb
BW06	43.73	76	iPc	29	09.49	-1.3
	0.4s		6.34nm			4.4mb
GSC	44.13	89	eP	29	14.27	0.4
DAU	44.17	80	P	29	14.45	0.1
ARUT	44.53	84	P	29	16.98	-0.1
EMUT	44.81	80	eP	29	19.25	-0.1
MSU	44.82	82	P	29	19.36	-0.1
SRU	45.43	81	P	29	23.96	-0.2
RSSD	46.12	71	eP	29	27.64	-2.0
	0.6s		3.83nm			3.9mb
GLA	46.86	90	P	29	29.88	-5.4X
GOL	48.11	77	iPc	29	44.75	-0.4
	0.6s		11.89nm			4.4mb
JAQ	54.44	46	eP	30	29.00	-2.9
LTX	56.24	85	iPc	30	43.55	-1.6
KAF	64.10	349	iP	31	36.40	-1.2
	0.6s		3.90nm			4.3mb
LMN	65.06	46	eP	31	43.50	-0.5
NUR	65.85	349	eP	31	47.90	-0.9
NB2	66.31	357	P	31	51.20	-0.6
	0.7s		2.60nm			4.1mb
HFS	67.11	355	eP	31	55.20	-1.5
	0.4s		4.20nm			4.5mb
CLL	75.95	355	eP	32	48.00	-1.0
GRF	77.66	356	eP	32	59.40	0.9
GEC2	78.37	354	P	33	02.60	0.1
	0.6s		1.44nm			3.9mb
			e	33	06.20	
			e	33	14.00	
LDF	78.81	3	iPc	33	04.60	-0.1
	0.5s		3.80nm			4.4mb
GRR	78.99	4	iPc	33	05.80	0.1
	0.7s		9.80nm			4.6mb
CDF	79.06	358	eP	33	06.50	0.3
	0.6s		3.95nm			4.3mb
LPF	79.34	4	eP	33	07.80	0.3
	0.8s		9.25nm			4.6mb
HAU	79.48	359	iPc	33	08.70	0.3
	0.4s		2.35nm			4.3mb
BSF	79.65	359	eP	33	09.50	0.1
	0.6s		3.80nm			4.3mb
KBA	80.15	354	i(P)	33	13.00	0.9
LOR	80.22	1	eP	33	12.80	0.5
	0.7s		6.15nm			4.4mb
SSF	80.43	1	iPc	33	13.80	0.5
	0.6s		4.70nm			4.4mb
LBF	80.51	1	eP	33	13.60	-0.2
	1.0s		7.20nm			4.4mb
AVF	80.70	1	iPc	33	15.00	0.3
	0.7s		5.20nm			4.4mb
MFF	80.80	3	eP	33	15.70	0.4
	0.7s		7.40nm			4.5mb
SMF	80.85	1	iPc	33	15.90	0.4
	0.6s		4.35nm			4.4mb
TCF	81.18	2	eP	33	17.70	0.4
	0.7s		4.95nm			4.3mb
LSF	81.20	2	iPc	33	17.70	0.3
	0.7s		8.25nm			4.6mb
MAF	81.26	2	eP	33	18.30	0.6
	0.7s		3.95nm			4.3mb

S.D. = 1.0 on 71 of 73 obs.

FEB 25, 1993 20h 48m 42.94±1.81s
 44.890 S ± 6.9km 167.462 E ±13.2km
 DEPTH = 114.8 ± 14.9 km
 SOUTH ISLAND, NEW ZEALAND (162)

MSZ	0.39	56	P	48	59.60	-0.3
			S	49	09.30	
BCZ	1.15	167	P	49	06.40	0.1
			S	49	21.10	
TLC	1.18	105	P	49	06.80	-0.1
MM CZ	1.19	96	P	49	07.10	0.1
MHZ	1.30	98	P	49	08.30	0.1
CM CZ	1.31	102	Pd	49	08.40	0.1
			S	49	23.20	
SBCZ	1.33	99	Pd	49	08.50	0.0
LRCZ	1.35	98	P	49	08.80	0.0
LSCZ	1.37	100	P	49	08.90	-0.1
MSCZ	1.40	99	P	49	09.10	-0.2
LMZ	1.75	49	P	49	13.90	0.5
BWZ	1.76	79	P	49	13.70	0.1
TUZ	1.86	126	P	49	15.00	0.2
			S	49	34.70	
ODZ	2.26	95	P	49	19.70	-0.3

S	49	43.00				
EWZ	2.80	62	P	49	27.00	-0.1
DSZ	4.46	47	eP	49	49.40	-0.2
BCAO	131.38	223	ePd	04	24.90	-11.0X
	1.0s		5.00nm			
			e	04	32.00	

S.D. = 0.2 on 16 of 17 obs.

* FEB 25, 1993 21h 06m 53.01±0.89s
 53.269 N ±13.0km 158.956 E ±17.8km
 DEPTH = 33.0km (normol)
 4.8mb (23 obs.)
 NEAR EAST COAST OF KAMCHATKA (218)

KUSJ	13.90	229	eP	10	08.40	-1.2
ASAJ	14.11	236	eP	10	17.90	5.4X
HOJ	15.11	230	eP	10	26.10	0.7
YAK	17.79	311	iP	11	02.10	2.8
	0.8s		84.00nm			4.9mb
MAT	22.13	229	eP	11	48.00	0.8
YKA	43.50	42	eP	14	56.50	2.2
	0.7s		1.80nm			3.9mb
KAF	59.05	336	iP	16	50.00	-1.6
	0.4s		5.10nm			5.0mb
NUR	60.84	336	eP	17	01.90	-2.0
	0.4s		2.70nm			4.7mb
NB2	63.18	343	P	17	18.20	-1.3
	0.6s		5.40nm			4.8mb
HFS	63.57	341	eP	17	20.00	-2.0
	0.3s		6.50nm			5.2mb
KHC	73.85	337	eP	18	25.00	-0.8
GEC2	74.09	337	P	18	26.10	-1.1
	0.5s		0.76nm			4.0mb
			e	18	32.10	
KBA	75.83	337	i(P)	18	37.70	0.4
	0.6s		6.70nm			4.8mb
GRR	77.28	346	iPd	18	44.90	-0.3
LOR	77.62	343	iPd	18	46.80	-0.3
	0.6s		7.75nm			4.9mb
HYF	77.83	344	iPd	18	47.70	-0.5
LBF	77.87	343	iPd	18	48.10	-0.4
	0.5s		2.75nm			4.5mb
SSF	77.88	343	iPd	18	48.30	-0.2
	0.5s		3.30nm			4.6mb
AVF	78.17	343	iPd	18	50.10	0.0
	0.6s		6.05nm			4.8mb
SMF	78.22	343	iPd	18	50.20	-0.2
	0.5s		3.30nm			4.6mb
LPL	78.76	340	iPd	18	54.30	0.6
	0.7s		5.20nm			4.6mb
LPG	78.78	340	iPd	18	54.40	0.5
	0.7s		6.50nm			4.7mb
TCF	78.85	344	iPd	18	54.10	0.2
	0.8s		9.00nm			4.8mb
MAF	78.86	344	iPd	18	54.40	0.5
	0.6s		10.75nm			5.0mb
MFF	78.92	345	iPd	18	54.40	0.2
	0.7s		8.80nm			4.9mb
LSF	79.00	344	iPd	18	54.80	0.1
	0.5s		5.10nm			4.8mb

38.038 N \pm 8.3km 38.616 E \pm 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MG 3.8 (DDA). Felt at Malotya.

GAZ	1.41	233	iP _g	38	23.60	0.0
SVST	2.17	323	iP	38	35.50	0.9
			eS	39	04.90	
BNN	2.30	291	iP _n	38	36.50	-0.2
ADAT	2.77	250	eP _n	38	56.40	13.3X
AKKT	3.01	336	eP	38	51.60	5.0X
			eS	39	30.30	
KVT	3.63	328	eP _n	38	54.60	-0.8
CTK	3.95	315	eP	39	00.30	0.3
KART	4.57	313	eP	39	09.10	0.2
BBTK	4.91	293	eP	39	14.20	0.6
KER	7.79	116	eP	40	33.00	38.9X
GEC2	20.98	309	P _n	42	42.40	-1.2
	0.9s	0.66nm				3.0mb
GKN	39.52	91	P	45	30.80	0.1
DMN	40.07	91	P	45	35.60	0.2
KKN	40.12	91	P	45	36.00	0.2
PKI	40.32	91	P	45	37.60	0.0
GUN	40.54	90	P	45	39.20	-0.2

S.D. = 0.6 on 13 of 16 obs.
 & FEB 26, 1993 00h 41m 57.38s
 34.401 N 116.460 W
 DEPTH = 3.4km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.0 (PAS).

PEC	0.77	229	iPd	42	11.66	-1.2
			S	42	21.66	
GSC	0.94	343	eP	42	15.03	-1.0
			S	42	28.05	
SSK	1.04	260	eP	42	16.59	-1.1
			S	42	30.04	
PLM	1.10	198	ePd	42	17.64	-1.1
			S	42	31.43	
GLA	1.91	134	ePnc	42	28.23	-3.0
TPNV	2.55	4	(Pn)	42	38.52	-1.9
ARUT	4.17	35	(P)	43	01.36	-2.1
	7 obs. associated					

? FEB 26, 1993 00h 58m 38.33± 2.47s
15.416 N ± 8.8km 120.045 E ± 44.0km
DEPTH = 10.0km (geophysicist)
LUZON, PHILIPPINE ISLANDS (249)

TGY	1.56	147	ePd	59	05.00	-1.2
			eS	59	31.00	
PGP	2.10	155	ePd	59	15.00	1.1
			eS	59	43.00	
SZP	2.16	10	iPd	59	15.00	0.2
CVP	2.84	37	eP	59	25.00	0.4
			eS	59	50.00	
PIP	2.95	11	eP	59	25.50	-0.5
			eS	59	50.50	
S.D.	= 1.2	on	5 of	5 obs.		

FEB 26, 1993 01h 19m 01.76 ± 0.54s
43.650 N ± 3.8km 7.963 E ± 3.7km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.2 (GEN), 1.9 (LDG).

IMI	0.27	348	P	19	07.68	0.3
			S	19	10.61	
SBF	0.44	299	Pg	19	11.10	0.4
			Sg	19	16.60	
REVF	0.44	282	Pg	19	11.90	1.1
			Sg	19	17.87	
SAOF	0.45	319	Pg	19	10.87	0.0
			Sg	19	15.77	
AURF	0.52	297	Pg	19	12.31	0.0
			Sg	19	18.90	
AUTN	0.52	312	Pg	19	11.95	-0.4
			Sg	19	18.37	
FIN	0.59	17	P	19	13.40	-0.2
			S	19	21.00	
TOUF	0.63	305	Pg	19	14.45	-0.2
			Sg	19	21.43	
ROB	0.65	354	P	19	14.41	-0.4
			S	19	21.78	
ENR	0.70	326	P	19	15.05	-0.6
			S	19	23.33	
STV	0.75	322	P	19	16.24	-0.3

			S	19	24.66	
FRF	0.96	265	Pg	19	20.10	0.1
			Sg	19	31.50	
PCP	0.98	25	P	19	21.36	0.9
			S	19	33.54	
PZZ	1.06	324	P	19	21.64	-0.1
			S	19	34.09	
LMR	1.10	254	Pg	19	21.80	-0.7
			Sg	19	34.90	
LRG	1.18	261	Pg	19	24.00	0.2
			Sg	19	37.80	
PGF	1.34	145	Pn	19	26.40	-0.1
			Sn	19	41.40	

S.D. = 0.5 on 17 of 17 obs.
 ? FEB 26, 1993 01h 34m 16.53 ± 5.59s
 17.984 S ± 13.9 km 175.101 W ± 13.6 km
 DEPTH = 168.4 ± 50.5 km
 5.2mb (14 obs.).

TONGA ISLANDS				(173)	
DZM	17.81	254	iPd	38	17.90 2.6
KUZ	20.37	202	eP	38	41.30 -0.3
	1.1s	226.00nm			5.5mb
URZ	21.32	197	eP	38	51.40 0.4
DSZ	26.20	203	P	39	37.00 -0.3
	0.5s	57.00nm			5.5mb
KHZ	26.21	199	P	39	37.60 0.3
LTZ	26.95	201	P	39	43.30 -0.8
BWZ	29.31	202	P	40	03.50 -1.7
TUZ	30.64	201	P	40	17.50 0.7
BRS	31.01	247	iPc	40	19.00 -1.3
	0.9s	18.00nm			4.8mb
ARMA	32.65	241	iPc	40	35.40 0.7
	0.5s	15.00nm			5.0mb
RMO	34.42	249	iPd	40	50.30 0.5
	0.7s	30.00nm			5.1mb
CNB	35.91	234	iPd	41	02.80 0.5
	0.8s	22.00nm			4.9mb
CTA	36.54	260	iPd	41	07.50 -0.2
	0.5s	10.56nm			4.8mb
STK	41.37	242	iPd	41	48.20 0.6
	1.1s	17.90nm			4.6mb
WB2	47.70	259	iPc	42	37.00 -1.2
	0.3s	88.30nm			5.8mb

			eS	49	44.00	
			iScS	50	39.10	
WRA	47.71	259 P		42	38.50	0.2
	0.7 s		8.50nm			4.5mb
ASPA	47.80	254 iPd		42	38.90	-0.1
	0.9 s		307.80nm			5.9mb
			eS	49	16.20	
PJG	50.43	306 eP		43	16.70	17.6X
MTN	51.94	268 eP		43	09.20	-1.4
	0.6 s		77.00nm			5.6mb
MEEK	61.35	249 eP		44	15.30	-1.7
MUN	62.89	243 iPc		44	26.40	-0.7
	0.4 s		56.00nm			5.8mb
RMW	80.76	33 eP		46	12.36	0.0
BALM	83.02	15 eP		46	23.00	-0.9
MAW	84.84	199 P		46	34.29	1.4
FBA	85.23	11 eP		46	33.88	-0.8
	0.6 s		12.67nm			4.9mb

				epP	47	31.37	238 kmX
BJI	86.07	314	eP	46	40.00	0.6	
YKA	93.10	24	eP	47	11.10	-0.7	
	0.7 s		0.90 nm				4.1 mb X
WIT	145.22	358	ePKP	53	36.50	1.2	
WTS	146.03	358	ePKP	53	38.00	1.4	
	1.0 s		20.00 nm				
KAS	146.03	319	ePKP	53	39.50	2.3 X	
CLL	146.13	351	iPKPd	53	38.00	1.1	
	1.3 s		38.00 nm				
SPC	146.49	342	ePKP	53	40.20	2.4 X	
VRI	146.81	332	ePKP	53	44.00	5.8 X	
MOX	146.97	352	ePKP	53	40.60	2.3 X	
	1.4 s		16.00 nm				
PRU	147.14	349	PKPd	53	40.90	2.4 X	
	0.7 s		5.80 nm				
ENN	147.28	359	ePKP	53	41.50	2.8 X	
	0.6 s		4.20 nm				
MLR	147.45	332	ePKP	53	42.00	2.6 X	
GRF	147.96	352	iPKPd	53	43.70	3.8 X	
			e	53	46.80		
KHC	148.15	349	ePKP	53	44.00	3.8 X	
	1.0 s		7.00 nm				
			e	54	13.00		

ZST	148.26	344	ePKP	53	43.30	2.9X
WLF	148.38	358	iPKPd	53	44.15	3.7X
GEC2	148.40	349	PKP	53	44.10	3.4X
	0.8s		4.77nm			
GEC2	148.40	349	PKP	53	46.00	5.3X
HRI	148.45	305	iPKPd	53	45.40	4.1X
FLN	148.99	7	iPKPd	53	45.40	3.9X
	0.9s		21.15nm			
LDF	149.20	7	iPKPd	53	45.70	3.9X
	1.1s		24.40nm			
GRR	149.31	8	iPKPd	53	46.30	4.3X
	0.9s		17.35nm			
ZNT	149.37	303	ePKP	53	47.40	4.8X
FUR	149.45	352	ePKP	53	47.10	4.8X
CDF	149.59	357	iPKPd	53	47.20	4.6X
	1.0s		20.40nm			
LPF	149.64	8	iPKPd	53	47.20	4.7X
	0.6s		16.50nm			
HAU	150.03	358	iPKPd	53	48.30	5.1X
	0.9s		13.10nm			
KBA	150.16	348	iPKPd	53	48.00	4.4X
			i	53	52.20	
BSF	150.19	357	iPKPd	53	48.50	5.0X
	0.7s		6.70nm			
WATA	150.22	351	iPKPd	53	48.60	5.0X
MBH	150.27	299	iPKPd	53	49.70	5.6X
MOTA	150.28	351	iPKPd	53	48.60	4.9X
	1.0s		16.60nm			
			i	53	55.60	
WTTA	150.28	351	iPKPd	53	49.00	5.2X
	0.6s		26.70nm			
SOTA	150.38	351	iPKPd	53	49.00	5.2X
	0.7s		8.50nm			
HYF	150.74	3	iPKPd	53	50.30	6.1X
LOR	150.78	1	iPKPd	53	50.00	5.7X
	0.8s		10.05nm			
LJU	150.90	346	ePKP	53	50.00	5.5X
SSF	150.98	2	iPKPd	53	50.60	6.0X
	1.0s		19.60nm			
OSS	151.05	353	ePKPd	53	51.10	6.2X
VOY	151.05	347	ePKP	53	50.30	5.5X
LBF	151.07	1	iPKPd	53	50.70	5.9X
	0.6s		7.60nm			
MFF	151.16	7	iPKPd	53	50.60	5.8X
	1.3s		27.10nm			
VBY	151.23	345	ePKP	53	50.20	5.2X
			i	53	52.30	
AVF	151.24	2	iPKPd	53	50.70	5.7X
	0.7s		4.20nm			
SMF	151.41	2	iPKPd	53	51.10	5.9X
	0.7s		3.10nm			
BGF	151.46	3	iPKPd	53	51.50	6.2X
	0.7s		14.45nm			
LSF	151.68	5	iPKPd	53	51.70	6.0X
	0.8s		15.05nm			
TCF	151.69	4	iPKPd	53	51.90	6.2X
	0.6s		5.75nm			
TMA	151.76	354	ePKPd	53	52.30	6.3X
MAF	151.78	3	iPKPd	53	52.50	6.7X
	0.6s		7.05nm			
DIX	151.91	356	ePKPd	53	53.60	7.2X
EMS	151.94	357	ePKPd	53	53.40	7.1X
LPL	152.51	357	iPKPd	53	54.80	7.6X
	1.1s		8.80nm			
LPG	152.52	357	iPKPd	53	54.90	7.6X
	1.2s		11.60nm			
CAF	153.03	4	iPKPd	53	55.90	8.2X
	1.3s		16.95nm			

S. D. = 1.1 on 29 of 80 obs.

? FEB 26, 1993 01h 57m 26.24 \pm 9.14s
41.945 N \pm 65.0km 13.196 E \pm 46.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ASS	1.19	341	P	57	48.50	0.0
			eSg	57	50.40	
ARV	1.56	353	P	57	54.10	0.0
			eSg	58	01.60	
CRE	1.91	332	P	57	58.80	-0.5
			eSg	58	08.90	
SFI	2.21	334	P	58	03.70	0.3
			eSg	58	15.30	
PGD	2.21	331	P	58	03.90	0.2
			eSg	58	19.40	
S.D. = 0.4 on 5 of 5 obs.						

% FEB 26, 1993 03h 44m 08.86±1.02s
43.059 N ± 7.9km 13.287 E ±12.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.46	272	P	44	17.70	-0.5
			eSg	44	25.30	
ARV	0.51	330	P	44	18.60	-0.5
			eSg	44	25.60	
AQU	0.71	173	P	44	22.00	-0.9
			eSg	44	35.60	
RSM	1.06	325	P	44	28.00	-0.8
CRE	1.13	301	P	44	30.90	0.8
			eSg	44	46.60	
SFI	1.35	310	P	44	34.20	0.5
			eSg	44	50.20	
PGD	1.40	306	P	44	35.20	0.6
SDI	1.41	164	P	44	35.40	0.8

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

? FEB 26, 1993 03h 44m 31.44±6.59s
40.598 N ±67.8km 27.404 E ± 9.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

EDC	0.43	125	iPg	44	40.00	-0.2
KCT	0.81	115	iPg	44	47.00	-0.1
			eSg	45	01.00	
EZN	1.13	227	iPn	44	52.50	-0.1
DST	1.37	136	ePn	44	57.00	0.5

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

% FEB 26, 1993 03h 48m 30.31±1.99s
37.335 N ±17.5km 28.096 E ±15.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	1.25	328	iPn	48	53.60	0.1
KHL	1.50	48	ePn	48	57.00	-0.3
ELL	1.56	111	ePn	48	58.00	-0.3
BCK	1.99	86	ePn	49	05.00	0.6
DST	2.31	10	eP	49	09.00	0.0
EZN	2.85	331	eP	49	28.00	11.4X
KCT	2.92	4	eP	49	31.00	13.4X

S.D. = 0.5 on 5 of 7 obs.

FEB 26, 1993 04h 00m 01.42±0.41s
46.843 N ± 4.5km 9.818 E ± 3.6km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.5 (VIE), 2.3 (FUR).

OSS	0.27	125	iPd	00	05.40	-1.8
VDL	0.43	214	ePc	00	10.00	-0.2
LLS	0.56	273	ePc	00	11.70	-1.3
OGA	0.83	88	iPgc	00	14.60	-3.0X
TMA	0.98	222	ePc	00	20.60	0.4
MOA	1.01	60	iPgc	00	21.30	0.6

SOTA	1.02	68	iPg	00	37.20	
			iSg	00	37.20	
			iSg	00	22.00	1.1
			iSg	00	38.10	

MDI	1.07	184	P	00	21.80	0.3
ZLA	1.17	304	eP	00	24.30	1.1
VAL	1.22	217	P	00	24.70	0.7

			eSg	00	41.30	
SLE	1.29	316	ePd	00	24.80	-0.6
WATA	1.30	67	iPg	00	25.60	0.0
			iSg	00	45.20	

WTTA	1.31	71	iPg	00	25.60	-0.2
			iSg	00	45.70	

MMK	1.51	239	Pd	00	29.60	0.9
FEL	1.60	311	ePn	00	29.07	-0.9
FUR	1.65	36	iPg	00	30.40	-0.2
FVI	2.05	96	P	00	36.60	0.2

			eSn	01	07.90	
KBA	2.43	83	iPg	00	44.80	2.9X
			iSg	01	16.20	

GEC2	3.29	51	Pg	00	59.50	5.3X
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S.D. = 0.9 on 16 of 19 obs.

FEB 26, 1993 04h 59m 33.39±0.74s
26.478 N ± 8.5km 67.684 E ± 8.3km
DEPTH = 33.0km (normol)
4.0mb (6 obs.)
PAKISTAN (710)

QUE	3.75	350	eP	00	31.20	0.7
			eS	01	30.00	
NDI	8.74	73	iPd	01	42.00	1.5
			eS	03	14.00	

POO	9.74	143	eP	01	55.00	0.6
MAIO	12.03	326	eP	02	25.00	-0.5
			eS	04	34.00	

HYB	13.52	130	eP	02	46.50	1.2
			eS	05	05.00	
KSH	14.68	26	eP	03	02.00	1.4

	0.5s	20.00nm	4.8mb
Z	12s	1.13um	4.4mszX

GKN	15.16	80	P	03	06.80	-0.1
DMN	15.57	82	P	03	11.60	-0.7
KKN	15.72	81	P	03	13.00	-1.3
GBA	15.74	143	P	03	14.00	-0.2
PKI	15.84	82	P	03	14.40	-1.5
GUN	16.25	81	P	03	20.60	-0.6
LSA	20.94	76	P	04	21.00	4.6X

	1.0s	3.00nm	3.6mb			
WMO	23.71	38	P	04	49.00	5.8X
	1.5s	14.00nm	4.3mb			
Z	16s	0.52um	4.1mszX			

MLR	38.22	311	eP	06	42.50	-9.5X
HHC	38.83	57	eP	07	00.40	3.2X
GEC2	47.07	313	P	08	03.30	-0.6

	0.7s	0.69nm	3.8mb			
NB2	51.07	329	P	08	33.30	-1.1
	0.8s	1.70nm	4.1mb			

YKA	91.32	1	eP	12	38.00	1.3
	0.8s	0.50nm	3.9mb			

S.D. = 1.1 on 15 of 19 obs.

* FEB 26, 1993 07h 14m 28.46±2.07s
37.565 N ±13.8km 20.806 E ±15.4km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.3 (ATH), ML 3.2 (THE).

VLS	0.63	344	ePg	14	40.00	-1.2
			eSg	14	52.00	

AGG	1.89	39	ePb	15	02.32	1.3
			eSb	15	26.24	

VLI	1.90	116	ePb	15	01.00	-0.2
IGT	2.00	349	ePn	15	04.20	1.6

			eSn	15	30.48	
KEK	2.29	340	ePg	15	12.50	5.7X
LIT	2.85	27	ePn	15	15.52	0.6

			eSn	15	47.88	
FNA	3.24	8	ePn	15	20.72	0.3
			eSn	15	58.36	

PAIG	3.26	43	ePn	15	21.52	0.9
			eSn	15	59.28	

THE	3.49	28	ePn	15	23.08	-0.8
GRG	3.61	20	ePn	15	24.84	-0.7
			eSn	16	07.12	

OUR	3.71	41	ePn	15	26.08	-1.0
SOH	3.81	31	ePn	15	27.32	-1.1
			eSn	16	11.48	

KNT	3.94	24	ePn	15	30.68	0.4
SRS	4.15	30	ePn	15	33.20	-0.1

S.D. = 1.0 on 13 of 14 obs.

FEB 26, 1993 08h 08m 59.07±0.65s
43.442 N ± 4.7km 5.483 E ± 5.0km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (STR).

GELF	0.07	214	Pg	09	01.00	-0.5
PUYF	0.18	60	Pg	09	03.26	0.1
TREF	0.20	338	Pg	09	03.18	-0.2

BERF	0.20	130	Pg	09	04.08	0.6
CDR	0.31	42	ePg	09	05.20	-0.3
PRAF	0.43	328	Pg	09	08.43	0.6

VILF	0.44	22	Pg	09	08.07	-0.1
TAVF	0.45	67	Pg	09	08.07	-0.2
GANF	0.64	29	Pg	09	11.90	0.0

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

& FEB 26, 1993 09h 55m 47.80s
57.939 N 152.619 W
DEPTH = 55.9km
3.3mb (1 obs.)
KODIAK ISLAND REGION (13)
<AEIC>. ML 4.0 (AEIC), 4.0 (PMR).

KDC	0.20	160	iPd	55	56.90	0.1
AUI	1.46	344	ePd	56	11.67	-0.6
			eS	56	29.43	

AUE	1.48	345	eP	56	12.01	-0.4
AUL	1.51	344	eP	56	12.56	-0.3
MCNL	1.54	325	iPc	56	12.36	-1.0

XLV	1.59	17	P	56	16.00	2.0
CNPM	1.75	24	iPd	56	15.17	-1.1
PDB	2.03	337	iPd	56	18.50	-1.6

BRK	2.04	25	eP	56	18.75	-1.6
INE	2.14	354	eP	56	20.46	-1.4
INW	2.15	353	eP	56	20.59	-1.4

			S	56	46.84	
RS1	2.53	358	iPc	56	25.97	-1.4
RS0	2.53	358	iPc	56	26.05	-1.4

RS2	2.53	358	iPc	56	26.06	-1.4
RDW	2.55	358	iPc	56	26.25	-1.5
RDN	2.58	358	eP	56	26.84	-1.3

NCT	2.64	357	iPc	56	27.35	-1.5
DFR	2.66	359	ePc	56	27.73	-1.4
SEW	2.72	36	ePd	56	27.48	-2.4

SLKM	2.86	25	ePc	56	29.56	-2.4
NKA	2.90	14	eP	56	32.20	-0.3
MPA	3.06	32	eP	56	32.31	-2.4

SPU	3.27	5	iPc	56	35.64	-2.1
CKL	3.27	2	eP	56	36.22	-1.7
CKT	3.28	3	iPc	56	35.94	-2.0

CKN	3.30	4	eP	56	36.55	-1.7
CPAM	3.34	4	ePc	56	37.07	-1.7
BGL	3.34	2	eP	56	37.04	-1.8

CP2	3.34	3	eP	56	37.61	-1.4
CRP	3.35	4	iPc	56	37.29	-1.7
PTE</						

26d 10h

0.5s 20.00nm 4.9mb
 COOL 22.73 177 eP 05 45.40 -0.4
 KLB 23.49 185 eP 05 53.40 0.2
 0.6s 10.00nm 4.6mb
 STK 31.10 143 eP 07 02.40 0.5
 0.4s 8.80nm 4.8mb
 BRS 36.52 126 eP 07 50.00 1.6
 GUN 48.62 319 P 09 26.60 0.2
 PKI 48.71 318 P 09 27.00 -0.1
 DMN 48.93 318 P 09 28.80 0.1
 KKN 48.94 318 P 09 29.00 0.3
 GKN 49.50 318 P 09 33.00 0.1
 YKA 112.96 24 ePKP 19 13.90 -1.3
 0.6s 0.80nm
 S.D. = 0.8 on 16 of 16 obs.

% FEB 26, 1993 10h 02m 54.15±0.48s
 40.786 N ± 4.5km 23.149 E ± 3.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.3 (THE).

SOH 0.16 77 ePgc 02 58.37 0.5
 eSg 03 00.48
 THE 0.21 222 ePgd 02 59.00 0.3
 eSg 03 01.84
 KNT 0.42 333 ePgc 03 02.64 -0.1
 eSg 03 08.56
 SRS 0.47 45 ePgc 03 03.48 -0.3
 eSg 03 10.36
 GRG 0.59 287 ePgc 03 05.78 -0.4
 eSg 03 14.76
 OUR 0.78 125 ePg 03 09.20 -0.1
 eSg 03 20.32
 LIT 0.85 217 ePg 03 10.12 -0.4
 eSg 03 22.80
 PAIG 0.95 155 ePg 03 12.08 -0.1
 eSg 03 25.04
 FNA 1.35 270 ePb 03 19.56 0.6
 eSb 03 38.32
 S.D. = 0.4 on 9 of 9 obs.

* FEB 26, 1993 10h 47m 09.56±0.57s
 44.719 N ± 16.3km 149.346 E ± 19.0km
 DEPTH = 33.0km (normal)
 4.5mb (10 obs.)

KURIL ISLANDS (221)

MAT 11.75 230 eP 49 56.00 -1.8
 TTA 35.68 40 eP 54 06.40 0.0
 0.9s 16.00nm 4.9mb
 SVW 35.77 43 eP 54 06.90 -0.2
 BRW 36.94 26 eP 54 16.90 0.1
 IMA 36.99 35 eP 54 17.27 -0.1
 1.0s 7.36nm 4.5mb
 FBA 39.38 37 eP 54 37.70 0.4
 RES 53.58 17 eP 56 29.50 0.6
 0.9s 5.00nm 4.5mb
 YKA 54.11 35 eP 56 31.30 -1.7
 0.9s 1.90nm 4.1mb
 NEW 60.51 50 eP 57 18.00 -0.5
 0.9s 3.95nm 4.5mb
 FCC 64.39 31 eP 57 46.50 2.5
 BGMT 65.12 50 eP 57 48.70 -0.7
 WRA 65.79 195 P 57 54.70 1.2
 0.6s 2.70nm 4.5mb
 BW06 68.07 51 eP 58 07.19 -1.0
 0.8s 0.71nm 3.8mb
 ASPA 69.50 195 P 58 18.20 1.5
 RSSD 70.15 47 eP 58 19.60 -1.2
 0.8s 2.97nm 4.4mb
 CLL 77.17 334 iPd 59 01.70 0.5
 1.1s 12.00nm 4.8mb
 GEC2 79.07 332 P 59 12.20 0.4
 1.0s 2.30nm 4.1mb
 S.D. = 1.2 on 17 of 17 obs.

? FEB 26, 1993 11h 03m 44.07±5.79s
 32.439 S ± 34.0km 72.020 W ± 29.5km
 DEPTH = 5.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)
 MD 3.7 (SAN).

ROCH 1.00 122 iPd 04 03.69 0.0
 iS 04 12.70
 LCCH 1.10 160 eP 04 05.53 0.3
 iS 04 15.93

JACH 1.23 102 iP 04 07.84 0.4
 iS 04 20.55
 PEL 1.33 122 iP 04 08.78 -0.3
 iS 04 21.91
 TACH 1.51 143 iP 04 11.58 -0.3
 iS 04 26.19
 LNV 1.60 162 iP 04 12.85 -0.1
 iS 04 30.38
 FCH 1.70 122 iP+ 04 14.64 -0.3
 iS 04 32.29
 PCH 1.73 133 iP 04 15.03 0.0
 (S) 04 33.55
 CHCH 1.88 143 eP 04 17.54 0.3
 iS 04 37.17
 S.D. = 0.3 on 9 of 9 obs.

? FEB 26, 1993 11h 20m 57.79±1.26s
 51.524 N ± 6.3km 6.997 E ± 16.2km
 DEPTH = 0.0km (geophysicist)

GERMANY (543)
 ML 2.2 (BNS). Probable
 rockburst.

WTS 0.49 346 ePg 21 07.50 0.0
 0.6s 29.60nm
 BNS 0.57 169 ePgc 21 09.22 0.0
 0.6s 130.00nm
 ENN 1.02 222 ePg 21 17.17
 eSg 21 18.00 0.1
 eSg 21 32.50
 MEM 1.11 215 iPd 21 19.40 -0.1
 iS 21 35.75
 S.D. = 0.1 on 4 of 4 obs.

* FEB 26, 1993 11h 48m 44.30±0.71s
 21.463 N ± 9.9km 45.691 W ± 13.5km
 DEPTH = 10.0km (geophysicist)
 4.8mb (6 obs.)

NORTHERN MID-ATLANTIC RIDGE (403)

TBR 31.07 316 eP 55 05.59 0.8
 GPD 31.17 315 eP 55 06.24 0.6
 RSNY 33.10 321 eP 55 23.17 0.7
 1.1s 19.20nm 4.9mb
 EEO 36.91 321 eP 55 58.50 3.5X
 JAQ 39.54 332 eP 56 17.00 0.1
 SIV 40.16 203 P 56 26.60 4.1X
 FVM 41.77 303 eP 56 35.80 0.3
 1.1s 21.97nm 4.8mb
 ZOBO 43.49 212 iPc 56 49.20 -1.2
 1.1s 11.60nm 4.6mb
 LPB 43.69 212 eP 56 52.00 0.2
 CNCB 43.87 212 P 56 55.00 1.6
 ULM 48.56 319 eP 57 31.50 1.9
 FCC 50.74 330 eP 57 49.00 2.9X
 GEC2 54.10 45 P 58 10.70 -0.9
 1.2s 3.51nm 4.3mb
 BW06 56.75 308 ePd 58 29.37 -1.8
 1.2s 11.41nm 4.8mb
 SRU 57.54 303 eP 58 35.84 -0.8
 DAU 58.05 305 eP 58 39.66 -0.8
 SES 58.12 317 eP 58 40.00 -0.4
 BGMT 58.57 311 eP 58 43.60 -0.3
 HHAU 58.82 308 eP 58 45.30 -0.2
 ARUT 59.91 302 eP 58 53.21 0.1
 NEW 62.04 314 eP 59 06.43 -0.9
 1.0s 20.36nm 5.3mb
 MLR 62.29 49 eP 59 10.00 0.9
 S.D. = 1.0 on 19 of 22 obs.

? FEB 26, 1993 12h 30m 30.51±6.13s
 32.957 S ± 20.5km 72.114 W ± 41.5km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)
 MD 3.7 (SAN).

LCCH 0.69 139 iP 30 44.16 0.0
 iS 30 54.68
 ROCH 0.93 91 iPd 30 48.36 0.0
 (S) 31 00.96
 LNV 1.16 150 iP 30 51.81 -0.3
 iS 31 07.98
 TACH 1.21 126 iP 30 52.66 -0.3
 iS 31 09.59
 PEL 1.21 99 iP+ 30 53.37 0.2
 iS 31 09.74

JACH 1.31 78 iP 30 54.40 -0.4
 iS 31 12.09
 PCH 1.49 117 eP 30 57.91 0.4
 iS 31 18.09
 CHCH 1.56 129 eP 30 58.57 0.2
 iS 31 19.14
 FCH 1.57 104 iP 30 59.05 0.2
 iS 31 21.03
 S.D. = 0.3 on 9 of 9 obs.

? FEB 26, 1993 12h 55m 17.96±3.86s
 42.242 N ± 33.2km 23.934 E ± 11.6km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 ML 2.7 (THE).

SRS 1.15 193 ePbc 55 40.57 1.0
 eSb 56 01.72
 KNT 1.33 216 ePb 55 42.33 -0.2
 SOH 1.48 197 ePb 55 44.56 -0.2
 eSb 56 09.84
 GRG 1.72 222 ePb 55 48.84 0.7
 eSb 56 13.64
 OUR 1.91 179 ePn 55 49.44 -1.3
 ALN 2.08 130 ePn 55 53.56 0.3
 eSn 56 23.20
 PAIG 2.32 185 ePn 55 57.32 0.5
 eSn 56 31.72
 LIT 2.40 207 ePn 55 57.12 -0.8
 eSn 56 31.80
 S.D. = 0.9 on 8 of 8 obs.

? FEB 26, 1993 13h 31m 29.78±4.87s
 24.443 S ± 24.0km 176.688 W ± 24.8km
 DEPTH = 255.5 ± 41.3 km
 4.4mb (5 obs.)

SOUTH OF FIJI ISLANDS (171)

URZ 14.75 200 eP 34 49.10 1.1
 DZM 15.68 275 iPc 34 59.20 -0.2
 MNG 17.41 200 eP 35 16.20 -1.9
 LTZ 20.44 204 P 35 57.30 8.5X
 RMO 31.21 259 eP 37 29.20 1.7
 CTA 34.50 270 iPd 37 56.00 0.2
 1.0s 15.00nm 4.5mb
 PMG 37.54 287 eP 38 20.00 -1.3
 1.0s 84.00nm 5.2mb
 ASPA 44.93 260 eP 39 21.70 0.4
 0.6s 8.20nm 4.2mb
 WB2 45.37 266 iPd 39 24.30 -0.5
 0.5s 14.50nm 4.6mb
 WRA 45.38 266 P 39 25.00 0.1
 0.4s 2.70nm 3.9mb
 BGMT 90.88 40 eP 44 11.20 5.6X
 NB2 143.02 354 PKP 50 33.30 -0.8
 0.7s 1.60nm
 UPP 143.22 348 iPKP 50 35.00 0.7
 HFS 143.60 351 ePKP 50 35.70 0.7
 0.4s 1.50nm
 EKA 148.78 7 PKPd 50 52.10 8.4X
 0.8s 7.00nm
 MMR 150.67 294 ePKP 50 58.30 10.9X
 JVI 150.87 292 ePKP 50 58.50 10.9X
 RMN 151.63 289 ePKP 51 00.10 11.2X
 CLL 152.16 347 iPKP 51 00.40 11.6X
 0.8s 20.00nm
 ZST 153.90 339 ePKP 51 16.70 25.4X
 e 20 43.90
 KHC 154.07 344 ePKP 50 57.00 5.4X
 e 51 18.00
 GEC2 154.31 344 PKP 50 56.90 4.9X
 1.0s 1.14nm
 S.D. = 1.2 on 12 of 22 obs.

* FEB 26, 1993 14h 43m 06.50s
 61.473 N 151.579 W
 DEPTH = 75.6km
 SOUTHERN ALASKA (2)
 <AEIC>.

CGLM 0.26 231 iP 43 17.83 -0.5
 CRP 0.35 234 iPd 43 18.08 -0.9
 eS 43 27.98
 CPAM 0.35 231 iP 43 18.46 -0.5
 eS 43 28.39

SPU	0.37	218	iP	43	18.42	-0.6
			eS	43	28.16	
CP2	0.38	237	iP	43	18.73	-0.6
CKN	0.38	230	eP	43	18.70	-0.4
SUA	0.40	91	iP	43	19.25	-0.1
			eS	43	29.68	
CKT	0.41	228	iP	43	18.62	-0.7
			iS	43	28.62	
BGL	0.44	242	eP	43	18.97	-0.7
CKL	0.46	233	iP	43	19.06	-0.7
SKT	0.51	3	iP	43	19.37	-0.8
			eS	43	29.87	
NKA	0.75	167	eP	43	23.62	1.1
PWA	0.83	77	P	43	23.30	-0.2
			S	43	36.70	
PMS	1.00	102	P	43	25.10	-0.5
DFR	1.04	212	iP	43	25.29	-0.8
			eS	43	39.92	
RDN	1.12	211	eP	43	26.35	-0.9
NCT	1.13	216	eP	43	26.61	-0.6
			eS	43	42.97	
RDW	1.16	212	eP	43	27.11	-0.7
			eS	43	43.63	
RSO	1.17	210	eP	43	27.07	-0.8
SLKM	1.17	145	eP	43	26.68	-1.1
PLRM	1.18	83	iP	43	26.64	-1.1
GHO	1.30	76	eP	43	28.28	-1.2
			eS	43	48.31	
PTE	1.38	115	iP	43	29.09	-1.3
MPA	1.46	131	eP	43	30.33	-1.2
SML	1.59	76	eP	43	31.54	-1.7
INE	1.59	208	eP	43	32.02	-1.4
SEW	1.73	142	eP	43	35.05	0.0
BRK	1.75	168	eP	43	34.99	-0.4
HUR	1.76	30	eP	43	35.06	-0.6
CNPM	1.96	175	eP	43	36.82	-1.5
			eS	44	03.65	
SVW	1.99	261	eP	43	37.20	-1.5
SCM	2.06	78	eP	43	37.82	-1.9
TRF	2.07	16	eP	43	38.92	-1.1
PDB	2.13	218	eP	43	39.26	-1.3
			eS	44	04.24	
RND	2.32	32	eP	43	42.05	-1.2
TTA	2.54	307	P	43	45.00	-1.4
VLZ	2.56	95	eP	43	43.46	-3.0
MCNL	2.67	212	eP	43	47.32	-0.8
HIN	2.70	111	eP	43	44.76	-3.8
KLU	2.71	87	iP	43	45.80	-3.0
			eS	44	17.95	
TZL	2.98	76	eP	43	50.70	-1.7
CVA	2.99	106	eP	43	49.07	-3.4
SDG	3.04	67	eP	43	51.89	-1.3
PAX	3.23	60	eP	43	54.76	-1.2
SGAM	3.25	105	eP	43	51.44	-4.8
NEA	3.32	19	eP	43	55.04	-2.1
CCB	3.62	27	eP	43	59.77	-1.5
HDA	3.62	34	eP	43	59.05	-2.3
GLB	3.73	87	eP	43	59.43	-3.5
FBA	3.84	25	P	44	03.00	-1.4
CROM	4.16	96	eP	44	06.29	-2.8
TGL	4.31	96	eP	44	07.76	-3.3
BALM	4.48	92	eP	44	09.44	-4.1
YAH	4.93	99	eP	44	16.56	-3.3
CTGM	4.98	91	eP	44	17.44	-3.1

55 obs. associated

% FEB 26, 1993 15h 08m 35.77±1.72s
39.707 N ± 9.6km 23.806 E ± 12.8km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

PAIG	0.24	336	ePg	08	40.85	0.0
			eSg	08	44.22	
OUR	0.64	12	ePg	08	48.42	-0.2
			eSg	08	58.18	
LIT	1.09	292	ePg	08	55.86	-0.3
			eSg	09	09.66	
THE	1.13	325	ePg	08	56.86	0.0
			eSg	09	10.82	
SOH	1.17	343	ePg	08	57.14	-0.4
			eSg	09	13.18	
AGG	1.33	240	ePb	09	00.30	-0.1
			eSb	09	18.34	
SRS	1.42	353	ePbc	09	01.78	0.2
			eSb	09	19.34	
KNT	1.61	335	ePb	09	04.30	0.0
			eSb	09	24.10	

GRG 1.65 320 ePb 09 05.70 0.0
eSb 09 25.82
S.D. = 0.4 on 9 of 9 obs.

% FEB 26, 1993 16h 08m 25.84±1.11s
37.055 N ± 10.2km 29.507 E ± 10.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.5 (ISK).

ELL	0.44	133	iPg	08	34.50	-0.4
			eSg	08	42.50	
BCK	0.95	65	iPn	08	44.90	0.8
KHL	1.27	1	ePn	08	48.40	-1.0
IZM	2.23	308	ePn	09	04.00	0.6
DST	2.64	345	ePn	09	08.70	-0.5
KCT	3.31	345	ePn	09	19.30	0.5

S.D. = 1.0 on 6 of 6 obs.

FEB 26, 1993 16h 18m 43.69±0.67s
26.385 S ± 5.3km 27.377 E ± 7.8km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

mbLg 3.6 (BUL).

PRY	0.55	171	eP	18	54.00	-0.7
			S	19	01.50	
KSR	0.67	320	iPc	18	57.50	0.3
			S	19	07.00	
SLR	1.04	52	eP	19	03.80	-0.1
			S	19	15.00	
SEK	1.94	174	eP	19	00.00	-17.8X
			S	19	43.50	
BFT	2.50	74	eP	19	27.00	1.1
			S	19	57.50	
BLF	2.91	201	eP	19	32.20	0.5
			S	21	30.00	
BUL	6.32	11	iPnd	20	19.00	-0.9
			iSn	21	28.00	
			iSg	21	59.00	
CIR	6.59	37	iPnd	20	23.00	-0.7
			iSn	21	33.00	
			iSg	22	02.50	
CER	9.87	223	eP	21	05.00	-4.4X
			S	22	52.50	
WIN	10.10	290	eP	21	02.50	-10.2X
			S	22	45.00	
MTD	10.33	23	iPnd	21	16.10	0.4
			iSn	23	04.60	
			iSg	24	06.70	

S.D. = 0.9 on 8 of 11 obs.

* FEB 26, 1993 16h 23m 54.22±0.95s
38.955 N ± 12.2km 78.672 E ± 10.5km
DEPTH = 10.0km (geophysicist)

SOUTHERN XINJIANG, CHINA (321)

ML 4.2 (BJI).

KSH	2.15	284	Pn	24	30.20	-0.5
			Pg	24	33.70	
WMQ	8.34	51	P	25	59.20	1.1
MAIO	15.43	266	eP	27	19.00	-14.6X
GTA	16.40	82	eP	27	44.50	-1.6
			1.0s	6.00nm	3.7mb	

			pP	27	54.00	
			sP	27	58.00	
LZH	20.15	90	eP	28	35.00	3.4X
			1.5s	19.00nm	4.2mb	
CD2	22.03	104	eP	28	50.00	-0.6
WRA	78.38	128	P	35	57.80	1.2
			0.4s	5.00nm	4.9mb	
WB2	78.39	128	eP	35	57.10	0.5
			0.5s	4.10nm	4.8mb	

S.D. = 1.4 on 6 of 8 obs.

? FEB 26, 1993 16h 29m 14.64±15.48s
15.875 N ± 78.3km 60.440 W ± 123.3km
DEPTH = 33.0km (normol)

LEEWARD ISLANDS (92)

ML 3.0 (FDF).

MGG	0.85	273	eP	29	30.10	0.0
CRM	1.21	202	eP	29	35.15	-0.1
			S	29	50.70	
FDF	1.33	211	eP	29	37.01	0.0

S 29 55.20
MVM 1.38 199 iPc 29 37.88 0.0
BIM 1.48 204 iPc 29 39.37 0.1
S 29 59.50
S.D. = 0.1 on 5 of 5 obs.

FEB 26, 1993 16h 55m 33.92±1.23s
2.710 S ± 6.6km 102.190 E ± 8.2km
DEPTH = 145.7 ± 11.1 km
4.9mb (24 obs.)

SOUTHERN SUMATRA, INDONESIA (274)

KGM	4.83	14	ePd	56	57.30	11.5X
	0.5s	157.10nm				
		e		57	05.00	
KLM	5.80	355	eP	57	00.00	1.1
IPM	7.33	351	ePd	57	20.00	0.3
	0.7s	151.00nm			5.6mb	
SNG	9.95	351	eP	57	39.50	-14.9X
KHT	17.74	349	eP	59	32.00	-1.4
NST	18.38	354	eP	59	43.00	2.6X
BDT	20.08	351	eP	59	55.50	-2.5X
CHTO	21.63	352	eP	00	14.00	0.5
	1.0s	18.75nm			4.5mb	
KMI	27.67	1	Pd	01	11.50	1.1
	1.0s	60.00nm			5.2mb	
GVA	29.32	8	P	01	25.80	0.7
	0.8s	39.00nm			5.2mb	
GBA	29.42	304	Pd	01	26.00	0.0
MUN	31.96	157	eP	01	59.30	11.2X
KLB	32.26	155	eP	01	51.00	0.3
CD2	33.47	2	iPc	02	00.90	-0.2
	0.8s	27.00nm			5.0mb	
LSA	33.91	343	P	02	05.00	-0.5
PKI	34.17	333	P	02	06.60	-1.0
	0.6s	18.00nm			5.0mb	
GUN	34.25	334	P	02	07.60	-0.7
DMN	34.34	332	P	02	08.00	-1.0
KKN	34.42	333	P	02	08.60	-1.0
GKN	34.90	332	P	02	13.00	-0.6
WB2	35.76	121	iPd	02	19.20	-1.6
	0.3s	46.40nm			5.7mb	
		eS		07	41.70	
		iScP		08	17.20	
ASPA	37.07	127	iPd	02	31.10	-0.7
	0.3s	67.30nm			5.9mb	
		eS		08	00.20	
XAN	37.10	9	Pd	02	32.00	0.1
	0.7s	28.00nm			5.1mb	
FORT	37.11	142	eP	02	32.00	0.0
LZH	38.63	2	Pd	02	45.40	0.6
	1.4s	50.00nm			5.1mb	
NDI	39.36	324	iP	02	51.00	0.3
TIY	41.33	12	eP	03	07.00	0.2
GTA	41.97	357	Pd	03	12.50	0.3
	1.0s	26.00nm			4.8mb	
CTA	46.32	115	eP	03	46.00	-1.1
ADE	46.68	138	eP	03	50.00	0.2
QUE	46.93	317	eP	03	51.30	-0.7
STK	47.05	132	iPc	03	52.60	-0.2
	0.5s	20.30nm			5.0mb	
WMQ	48.12	346	P	04	01.00	0.1
	1.0s	77.00nm			5.4mb	
		eS		10	49.00	
		eScS		13	40.00	
KSH	48.39	333	eP	04	01.50	-1.6
	0.5s	20.00nm			5.1mb	
CMS	50.06	130	iPd	04	15.60	-0.3
	0.7s	6.00nm			4.5mb	
BFD	50.49	138	iPc	04	19.30	0.3
	0.4s	5.00nm			4.6mb	
CN2	50.79	22	eP	04	21.80	0.6
	0.6s	6.00nm			4.5mb	
		epP		04	52.00	130kmX
TOO	52.69	137	iPd	04	36.90	1.3
	0.4s	9.00nm			4.9mb	
BWA	53.30	132	iPc	04	41.20	1.1
CAN	54.12	133	iPc	04	46.00	-0.1
BRS	54.17	122	iPc	04	45.50	-1.1
		i		05	17.00	
ARMA	54.21	126	eP	04	47.70	0.7
CNB	54.38	132	eP	04	48.50	0.4
MAIO	55.57	318	eP	04	55.00	-1.7
ARVI	71.80	303	eP	06	42.80	0.2
JVI	71.98	305	eP	06	43.90	0.1
MMR	72.20	306	eP	06	45.90	0.7
ORZ	73.40	132	eP	06	51.90	0.0

26d 17h

MNG 75.58 131 P 07 03.30 -1.1
 NOZ 77.26 129 eP 07 13.60 -0.1
 MLR 82.32 316 eP 07 41.50 0.7
 BCAA 83.89 275 iPc 07 50.00 0.7
 0.5s 8.00nm 4.8mb
 KAF 85.81 333 iP 07 58.10 0.3
 0.4s 6.20nm 4.8mb
 NUR 86.23 331 iP 08 00.10 0.3
 0.3s 3.80nm 4.7mb
 SPC 86.77 319 eP 07 45.70 -17.3X
 SRO 87.87 318 eP 08 09.80 1.8
 ZST 88.72 318 eP 08 11.80 -0.3
 VBY 89.76 315 e(P) 08 17.50 0.5
 GEC2 91.02 319 P 08 23.30 0.4
 0.7s 1.75nm 4.3mb
 HFS 91.58 330 eP 08 24.50 -0.6
 0.4s 1.40nm 4.4mb
 GRF 92.68 319 eP 08 31.90 1.5
 NB2 92.83 331 P 08 30.00 -0.9
 0.8s 2.30nm 4.5mb
 OLY 145.00 20 ePKP 14 55.63 -0.2
 MIAR 145.09 23 ePKP 14 57.34 1.3
 e 15 32.96

S.D. = 0.8 on 58 of 64 obs.

FEB 26, 1993 17h 24m 24.30 ± 0.41s
 10.950 N ± 5.8km 141.731 E ± 7.0km
 DEPTH = 33.0km (normal)
 4.9mb (6 obs.) 4.2MsZ (1 obs.)

WESTERN CAROLINE ISLANDS (209)

GUMO 4.03 49 Pn 25 26.20 0.9
 Pg 25 26.90
 eS 26 09.00
 PJG 4.03 49 ePn 25 26.10 0.8
 GUA 4.04 50 Pn 25 26.20 0.8
 eS 26 08.30
 PMG 20.93 165 eP 29 07.00 0.2
 WKYJ 23.83 347 P 29 36.50 1.1
 CHJJ 25.11 355 P 29 46.00 -1.7
 KAKJ 25.18 357 P 29 47.40 -0.9
 YONJ 25.27 344 P 29 48.40 -0.8
 MAT 25.68 353 iPc 29 50.30 -2.7X
 0.7s 10.96nm 4.6mb
 NIIJ 26.29 355 P 29 57.10 -1.5
 SSE 27.65 320 P 30 10.00 -1.1
 CTA 31.16 172 iPd 30 32.50 -10.1X
 WB2 31.55 193 iPd 30 45.30 -0.7
 0.4s 14.50nm 5.2mb
 i 30 56.40
 WRA 31.55 193 P 30 46.00 0.0
 ASPA 35.25 193 eP 31 17.50 -0.5
 0.4s 8.00nm 5.0mb
 BJI 36.77 326 eP 31 32.00 1.4
 TIY 37.42 320 eP 31 37.00 0.7
 Z 18s 0.35um 4.2MsZ
 XAN 37.76 313 P 31 39.50 0.3
 0.5s 2.50nm 4.3mb
 pP 31 49.30 33kmX
 CD2 40.37 305 iPc 32 02.30 1.3
 BTO 40.67 322 eP 32 04.00 0.6
 GTA 46.73 315 Pd 32 52.80 0.5
 1.0s 14.00nm 4.9mb
 pP 33 05.00 44kmX
 sP 33 10.00
 MRWA 47.03 211 iPc 32 54.80 0.2
 YAK 51.72 353 iPd 33 28.20 -2.1
 0.7s 48.00nm 5.6mb X
 GUN 54.85 296 P 33 55.00 0.5
 KKN 55.37 296 P 33 58.80 0.8
 DMN 55.50 296 P 33 59.20 0.1
 GKN 55.95 296 P 34 02.40 0.2
 WMO 56.79 316 Pd 34 08.00 0.1
 1.0s 14.00nm 4.9mb
 pP 34 15.00 23kmX
 YKA 86.59 27 eP 37 04.10 -1.2
 0.5s 0.30nm 3.8mb X
 ZOBO 150.52 104 iPKPc 44 15.00 4.6X
 0.8s 9.03nm
 LPB 150.52 104 (PKP) 44 14.00 3.9X
 CNCB 150.60 105 PKP 44 16.00 5.6X

S.D. = 1.0 on 27 of 32 obs.

? FEB 26, 1993 17h 40m 10.85 ± 1.31s
 34.878 N ± 68.6km 26.073 E ± 41.6km
 DEPTH = 67.4 ± 29.8 km
 CRETE (370)

MD 3.7 (ATH).

NPS 0.54 316 ePb 40 24.00 0.0
 eSb 40 37.00
 VLI 3.14 307 ePn 40 59.00 0.0
 JVI 8.29 108 eP 42 10.80 -0.1
 SAGI 8.61 120 eP 42 15.70 0.6
 eS 43 46.20
 MBH 9.02 122 eP 42 20.40 -0.5

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

% FEB 26, 1993 17h 51m 06.29 ± 0.96s
 37.776 N ± 11.4km 14.696 E ± 9.9km
 DEPTH = 33.0km (normal)

SICILY (398)

MNO 0.16 360 P 51 11.40 -1.3
 eSg 51 16.00
 GIB 0.57 292 P 51 18.80 0.8
 eSg 51 26.90
 MEU 0.70 164 P 51 19.40 -0.4
 eSg 51 29.30
 ATN 0.72 57 P 51 20.00 0.0
 eSg 51 31.50
 SOI 1.12 74 P 51 26.50 0.9
 eSg 51 42.40

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

% FEB 26, 1993 18h 32m 30.49 ± 0.75s
 44.397 N ± 6.3km 7.314 E ± 8.5km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 1.4 (GEN).

STV 0.15 177 P 32 34.00 -0.1
 S 32 36.14
 ENR 0.19 156 P 32 34.59 -0.1
 S 32 37.27
 PZZ 0.19 305 P 32 35.01 0.3
 S 32 37.70
 ROB 0.41 104 P 32 39.18 0.2
 BHB 0.45 355 P 32 39.29 -0.3

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

FEB 26, 1993 19h 16m 40.83 ± 0.23s
 47.576 N ± 4.4km 154.363 E ± 3.2km
 DEPTH = 32.3km (8 depth phases)
 5.1mb (69 obs.) 4.4MsZ (12 obs.)

KURIL ISLANDS (221)

SKR 3.30 20 ePn 17 31.60 0.2
 Z 12s 6.70um
 N 12s 6.70um
 E 12s 4.60um
 KUR 5.07 245 iPnd 17 58.00 1.5
 PET 6.10 25 ePn 18 10.00 -1.0
 SHO 6.46 238 ePn 18 13.00 -3.1X
 YSS 7.94 270 iPnd 18 38.20 1.4
 Z 17s 4.00um
 E 17s 3.00um

OKH 9.41 314 ePn 18 58.00 0.9
 Z 12s 3.10um
 eS 20 44.00
 MGD 12.72 352 ePnd 19 41.00 -1.0
 Z 16s 2.60um
 N 16s 1.70um

SEY 15.40 357 eP 20 16.80 -0.3
 1.7s 30.00nm 4.2mb
 Z 16s 1.20um 4.2MsZ
 MAT 16.26 233 eP 20 24.00 -4.3X
 1.2s 43.75nm 4.5mb
 eS 23 27.00
 VLA 16.40 263 iP 20 30.00 0.1
 1.0s 60.00nm 4.7mb

Z 12s 1.00um 5.6MsZ X
 N 12s 0.50um
 E 12s 0.50um
 MDJ 17.41 269 eP 20 43.20 0.5
 1.0s 26.00nm 4.3mb
 YAK 20.09 325 eP 21 13.30 -0.8
 1.8s 160.00nm 5.1mb
 Z 17s 0.70um 4.1MsZ X
 N 17s 0.40um
 E 14s 0.50um

i 21 34.00 110kmX
 iPPP 21 50.00

CN2 20.49 270 eP 21 15.40 -3.1X
 0.8s 10.00nm 4.2mb
 Z 18s 1.61um 4.4MsZ
 N 14s 0.63um
 E 14s 0.64um

SNY 22.53 267 eP 21 22.20 25km
 eSP 21 24.80
 Z 15s 2.11um 4.7MsZ X
 N 13s 0.52um
 E 15s 1.08um

sP 21 50.60
 S 25 38.00
 sS 25 50.00
 ILT 24.55 24 iPc 21 57.60 -0.7
 Z 19s 0.60um 4.1MsZ
 E 18s 0.40um

ePPP 22 16.00 272kmX
 e 22 48.00
 eS 22 21.00
 BOD 26.04 308 eP 22 11.80 -0.7
 1.1s 18.00nm 4.6mb
 CIT 26.43 295 eP 22 15.00 -1.3
 TIK 26.91 342 eP 22 18.00 -2.4
 2.0s 21.00nm 4.4mb

Z 16s 1.70um 4.7MsZ X
 e 23 10.00 272kmX
 e 25 41.00
 BJI 28.34 269 eP 22 34.00 0.4
 Z 16s 1.46um 4.7MsZ X
 N 15s 0.68um

TIA 29.68 261 eP 22 45.40 -0.3
 SSE 30.19 249 Pc 22 50.50 0.2
 1.0s 25.00nm 5.0mb
 Z 20s 0.60um 4.2MsZ
 NJ2 31.05 253 Pd 22 57.60 -0.2
 Z 16s 0.58um 4.3MsZ X
 N 15s 0.93um
 E 15s 0.57um

HHC 31.09 274 Pc 22 58.20 0.0
 1.0s 50.00nm 5.3mb
 Z 20s 0.87um 4.4MsZ
 N 16s 0.58um
 E 12s 0.40um

TTA 31.24 42 eP 22 58.80 -0.5
 TIY 32.03 268 eP 23 06.50 0.0
 Z 18s 0.36um 4.1MsZ
 N 16s 0.82um
 BTO 32.25 274 eP 23 07.00 -1.4
 N 13s 0.48um
 E 14s 0.68um

eS 28 22.00
 IMA 32.64 37 eP 23 11.50 -0.1
 0.8s 4.50nm 4.4mb
 BRW 32.84 27 eP 23 14.30 1.2
 ZAK 33.11 294 iPd 23 14.50 -1.1
 Z 15s 1.67um 4.9MsZ X
 N 14s 0.76um
 E 16s 1.55um

MOY 34.17 297 eP 23 23.60 -1.2
 WHN 34.96 255 eP 23 31.00 -0.8
 FBA 34.98 39 eP 23 32.10 0.4
 XAN 36.44 265 Pc 23 43.50 -0.8
 1.0s 25.00nm 5.1mb
 Z 16s 1.18um 4.8MsZ X
 N 15s 1.15um
 E 15s 0.81um

pP 23 51.00 25km
 sP 23 55.00
 NRI 38.30 328 eP 23 58.00 -1.5
 1.1s 10.00nm 4.6mb
 UER 38.33 299 eP 23 58.00 -1.9
 LZH 38.72 272 P 24 03.50 -0.1
 1.2s 100.00nm 5.5mb
 Z 19s 0.74um 4.5MsZ
 E 13s 0.37um

sP 24 18.00
 GTA 39.69 279 eP 24 10.50 -1.1
 1.0s 25.00nm 4.9mb
 Z 18s 1.14um 4.8MsZ
 E 13s 0.48um

PcP 26 17.50
 CD2 41.80 265 iPc 24 29.10 0.2
 0.8s 93.00nm 5.6mb
 Z 16s 0.98um 4.8MsZ X
 ELT 42.27 304 iPd 24 31.20 -1.2

	1.2s	27.00nm	4.9mb		1.0s	26.00nm	5.2mb	LPL	83.04	338	iPc	29	05.30	1.0					
	Z 14s	1.60um	5.0mszX			e	28 32.50	24km		1.0s	24.40nm			5.3mb					
GYA	42.72	258	iPd	24 37.20	0.6		e	28 38.20		LPG	83.05	338	iPc	29 05.70	1.2				
	1.0s	69.00nm	5.3mb			SPC	75.75	331	eP	28 24.80	-0.1		1.1s	32.70nm	5.3mb				
WMO	45.42	291	Pc	24 57.00	-1.2	CLL	76.06	336	iPc	28 25.70	-0.7	SFI	83.08	334	P	29 05.60	1.4		
	1.0s	9.80nm	4.7mb				1.3s	57.00nm	5.4mb			PGD	83.16	334	P	29 06.30	1.4		
	Z 16s	1.35um	5.0mszX			VRI	76.26	325	ePd	28 31.00	3.4X	MME	83.17	335	P	29 06.10	1.0		
KMI	46.23	260	Pc	25 04.50	-0.4	VRAC	76.81	333	iPd	28 31.40	0.9	BDI	83.32	335	P	29 06.80	1.2		
	1.5s	140.00nm	5.7mb				1.3s	225.80nm	6.0mb			MAF	83.38	341	iPc	29 06.60	0.8		
	Z 22s	0.70um	4.6msz			PRU	76.81	335	Pc	28 30.80	0.2		1.0s	58.80nm	5.7mb				
N	21s	1.30um					1.0s	18.40nm	5.1mb			FIR	83.39	334	eP	29 05.00	-0.8		
		pP	25 15.50	38km		MLR	76.87	326	eP	28 31.50	0.3	TCF	83.39	341	iPc	29 06.30	0.4		
		sP	25 22.00			KAS	76.99	318	eP	28 32.50	0.7		1.0s	27.20nm	5.3mb				
YKA	49.75	37	eP	25 40.60	9.0X	WTS	76.99	340	eP	28 32.00	0.5	BNI	83.49	338	P	29 07.50	1.0		
	1.1s	5.00nm	4.5mb				0.7s	23.30nm	5.3mb			LSF	83.58	341	iPc	29 07.20	0.4		
LSA	51.08	273	Pc	25 43.80	1.1	MOX	77.04	337	iPc	28 31.80	-0.1		1.0s	39.40nm	5.5mb				
	0.8s	40.00nm	5.4mb				1.4s	34.00nm	5.2mb			RRL	83.58	337	P	29 07.44	0.3		
CHTO	53.14	257	ePc	25 57.80	0.1	CMP	77.41	326	ePd	28 36.00	2.0	ROB	83.87	337	P	29 08.08	-0.3		
	1.2s	45.14nm	5.3mb			SRO	77.58	331	iP	28 35.40	0.5	PZZ	83.88	337	P	29 07.44	-1.1		
NST	54.63	253	eP	26 12.90	4.2X	ZST	77.63	332	eP	28 35.50	0.4	ENR	84.06	337	P	29 07.67	-1.7		
ARU	54.98	318	eP	26 10.00	-0.8	KHC	77.86	335	iPc	28 37.50	1.0	STV	84.07	337	P	29 07.54	-1.9		
KSH	55.16	292	eP	26 12.00	-0.5		1.0s	23.20nm	5.2mb			DSI	84.07	311	iPd	29 10.40	0.9		
	Z 12s	1.25um	5.2mszX					e	28 42.00	14kmX		IMI	84.23	336	P	29 10.19	0.0		
GUN	55.78	275	P	26 16.80	-0.6			e	28 50.60			ORI	85.06	329	P	29 14.90	0.6		
KKN	56.26	276	P	26 20.20	-0.5			e	29 48.40			MBH	85.77	311	iPd	29 18.80	0.7		
KHT	56.29	254	eP	26 21.00	0.3	GRF	78.01	337	iPc	28 37.90	0.7	PPD	147.21	48	(PKP)	36 15.10	-4.9X		
PKI	56.31	275	P	26 20.80	-0.4		1.0s	38.00nm	5.4mb			S.D. = 0.9 on 155 of 163 obs.							
DMN	56.49	276	P	26 22.20	-0.2		Z 21s	0.20um	4.4msz				& FEB 26, 1993 19h 18m 42.47s						
GKN	56.55	276	P	26 22.40	-0.3	WET	78.05	335	iPc	28 38.10	0.6		63.235 N	151.394 W					
LCCM	60.32	53	eP	26 48.20	-0.6		1.0s	45.00nm	5.5mb				DEPTH = 12.0km						
NDI	61.07	282	iP	26 52.50	-1.3	GEC2	78.08	335	e(P)	28 37.60	-0.2		CENTRAL ALASKA (1)						
TNP	62.18	63	eP	27 00.61	-0.9		0.7s	9.10nm	4.9mb				<AEIC>. ML 2.7 (AEIC), 3.2 (PMR).						
	0.8s	5.76nm	4.8mb			TNS	78.24	338	ePc	28 38.60	0.0	TRF	0.54	66	eP	18 52.75	-0.8		
		e	27 12.13	39km		ENN	78.34	340	eP	28 39.00	0.0	HUR	0.84	107	eP	18 58.30	-0.2		
HVU	62.41	57	eP	27 02.88	0.0		1.0s	34.00nm	5.3mb			RND	1.16	80	eP	19 03.58	-0.4		
KAF	63.05	335	eP	27 05.00	-1.6	BHG	79.33	335	iPc	28 45.40	0.9	MCK	1.21	65	eP	19 04.77	-0.1		
DUG	63.42	59	(P)	27 10.14	0.6		1.0s	25.00nm	5.2mb			SKT	1.26	183	eP	19 06.04	0.3		
TPNV	63.50	64	eP	27 09.99	-0.2	FUR	79.38	336	iPc	28 45.20	0.4	NEA	1.69	36	eP	19 12.73	0.8		
	0.8s	8.47nm	4.9mb			KBA	79.78	334	iPc	28 47.80	0.7	PWA	1.74	155	P	19 13.30	0.7		
BW06	63.57	55	ePc	27 09.59	-1.0		0.7s	31.60nm	5.4mb				S			19 36.70			
	1.1s	15.33nm	5.0mb			WATA	80.06	335	iPc	28 49.10	0.5	SUA	1.80	170	eP	19 14.44	0.8		
		e	27 20.34	35km		WTTA	80.10	335	iPc	28 49.60	0.7	GHO	1.86	141	eP	19 14.81	0.3		
DAU	64.17	58	eP	27 15.38	0.7		0.8s	39.60nm	5.5mb			PLRM	1.96	146	eP	19 16.39	0.6		
GSC	64.24	65	(P)	27 15.47	0.5	MOTA	80.18	336	iPc	28 49.60	0.3	PMR	1.96	146	eP	19 16.80	1.0		
EMUT	64.82	58	(P)	27 18.31	-0.5		1.0s	54.60nm	5.5mb			SML	2.02	134	eP	19 16.42	-0.3		
		e	27 29.24	36km		CDF	80.21	338	iPc	28 49.50	0.2	TTA	2.12	264	P	19 20.70	2.4		
NUR	64.82	335	eP	27 17.00	-1.2		1.2s	50.30nm	5.4mb			CCB	2.13	47	eP	19 15.81	-2.4		
MSU	64.90	60	(P)	27 18.25	-1.1	SOTA	80.26	335	iPc	28 50.20	0.5	PMS	2.17	156	eP	19 20.30	1.3		
OBN	65.11	326	eP	27 19.00	-1.1		1.0s	39.40nm	5.4mb			FBA	2.30	42	eP	19 24.30	3.5		
	1.0s	18.00nm	5.1mb			RBL	80.28	334	Pc	28 49.00	-0.7	SCM	2.35	125	eP	19 21.47	-0.1		
SRU	65.46	58	eP	27 22.25	-0.6		80.50	337	ePd	28 51.10	0.3	NKA	2.50	178	eP	19 27.82	4.3		
		e	27 33.09	35km		SLE	80.61	332	ePc	28 51.20	-0.1	PTE	2.63	154	eP	19 26.19	0.8		
PLM	65.49	67	(P)	27 22.11	-1.1	VBY	80.79	337	ePd	28 53.10	0.8	PAX	2.71	93	eP	19 26.60	0.0		
		e	27 37.34	55kmX		HAU	80.82	339	iPc	28 52.60	0.2	DFR	2.72	194	eP	19 28.32	1.5		
RSSD	65.64	51	eP	27 23.13	-0.9		1.1s	27.85nm	5.2mb			SDG	2.77	102	eP	19 27.67	0.2		
	0.8s	13.22nm	5.1mb			Z	22s	0.17um	4.4msz			SLKM	2.79	168	eP	19 28.51	0.7		
QUE	66.76	290	eP	27 30.50	-0.8	BSF	80.87	339	iPc	28 52.80	0.0	RDW	2.84	194	eP	19 29.92	1.3		
ASH	66.76	301	eP	27 32.00	1.0		1.0s	19.60nm	5.1mb			SVW	2.91	225	(P)	19 33.44	4.0		
AKU	66.92	357	iP	27 33.10	1.6	OSS	81.05	336	ePd	28 54.80	0.9	IMA	3.01	342	P	19 29.50	-1.4		
	1.5s	111.11nm	5.7mb			LLS	81.19	337	ePd	28 55.50	0.8	KLU	3.09	122	eP	19 32.46	0.4		
MAIO	67.21	299	eP	27 34.00	0.0	VDL	81.42	336	ePd	28 57.00	1.2	VLZ	3.18	129	eP	19 33.43	0.3		
UPP	67.26	338	iP	27 43.00	9.2X	FLN	81.59	343	eP	28 56.60	0.2	SEW	3.28	163	eP	19 36.99	2.4		
NB2	67.72	342	P	27 35.50	-1.2		Z 19s	0.20um	4.5msz			CNPM	3.72	179	eP	19 43.79	2.8		
	0.9s	9.00nm	4.9mb			TMA	81.93	337	ePc	28 58.80	0.3	GLB	3.97	114	eP	19 44.91	0.5		
HYB	67.83	272	eP	27 37.00	-1.0	GRR	82.02	344	eP	28 59.10									

26d 19h

ROB	0.39	91	P	21 31.64	0.3
			S	21 28.20	
			S	21 33.92	
AURF	0.42	180	Pg	21 27.90	-0.5
			Sg	21 33.75	
SBF	0.45	170	Pg	21 28.90	0.0
			Sg	21 34.60	
BHB	0.54	355	P	21 29.39	-1.1
			S	21 36.15	
IMI	0.56	134	P	21 30.62	-0.3
			S	21 37.95	
CALN	0.64	210	Pg	21 32.23	0.0
FIN	0.64	98	P	21 31.97	-0.2
			S	21 40.37	
FRF	0.89	214	Pg	21 36.30	-0.2
			Sg	21 48.60	
PCP	0.90	74	P	21 37.45	0.8
			S	21 48.79	
LRG	1.10	220	Pg	21 40.30	0.3
			Sg	21 55.30	
LMR	1.14	212	Pg	21 40.90	0.3
			Sg	21 55.60	
CDR	1.29	241	eP	21 43.90	0.6
			e	22 00.10	

S.D. = 0.5 on 18 of 18 obs.

% FEB 26, 1993 19h 39m 51.07±0.62s
 42.464 N ± 5.4km 19.572 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.9 (TTG).

TTG	0.23	262	iPgc	39 56.56	0.5
			iSg	40 00.87	
PVY	0.32	66	iPgd	39 58.01	0.2
			iSg	40 02.99	
IVA	0.47	30	iPgc	40 00.71	0.0
			iSg	40 08.04	
NKY	0.55	310	iPgd	40 02.01	-0.2
			iSg	40 10.67	
ULC	0.55	206	iPgc	40 02.07	-0.3
			iSg	40 10.73	
BDV	0.58	252	iPgc	40 02.78	0.0
			iSg	40 11.87	
HCY	0.79	269	iPgc	40 06.62	0.1
			iSg	40 18.64	
BRY	0.87	300	iPgc	40 07.92	-0.1
			iSg	40 21.27	
PLE	0.88	351	iPgc	40 07.92	0.0
			iSg	40 21.08	

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

? FEB 26, 1993 20h 36m 04.13±0.94s
 38.439 N ± 7.7km 15.868 E ± 14.9km
 DEPTH = 24.2 ± 15.8 km
 SICILY (398)

SOI	0.39	158	Pc	36 12.50	0.0
			eSg	36 18.80	
ATN	0.42	229	P	36 13.30	0.3
			eSg	36 20.30	
TDS	1.27	17	P	36 26.80	0.4
			eSg	36 44.50	
MEU	1.53	209	P	36 30.00	-0.2
			eSg	36 52.40	
MGR	1.71	352	P	36 32.40	-0.4
			eSg	36 52.30	

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

FEB 26, 1993 21h 13m 33.81±1.98s
 39.876 N ± 26.0km 74.942 W ± 17.0km
 DEPTH = 5.0km (geophysicist)
 NEW JERSEY (494)
 mbLg 2.5 (GS). Felt (IV) at
 Boringington, Cherry Hill, Hadden
 Heights, Mainesport, Lawnside,
 Moorestown, Polmyro and
 Runnemede; (III) at Blackwood,
 Camden, Delron, Gibbsboro,
 Lumberton, Magnolia, Marlton,
 Mt. Laurel, Rancocas, Westville
 and Woodbury; (II) at
 Cinnaminson, Clementon and
 Sewell. Felt (III) at Media,
 Pennsylvania and (II) at Darby,
 Pennsylvania. Also felt in the
 Philadelphia, Pennsylvania area.

BVD	0.44	257	P	13 43.00	0.4
BWD	0.49	261	P	13 44.00	0.3
NED	0.61	254	P	13 45.50	-0.6
GPD	1.20	18	iPd	13 56.50	-0.1
			eS	14 11.13	
PAL	1.38	35	eP	13 59.16	-0.4
			eS	14 17.55	
TBR	1.38	23	eP	13 59.59	-0.1
			eS	14 16.84	
WCC	1.47	37	P	14 01.21	0.3
			S	14 20.36	
CRNY	1.78	36	eP	14 05.81	0.4
			eS	14 28.99	

S.D. = 0.4 on 8 of 8 obs.

* FEB 26, 1993 21h 26m 04.06±2.05s
 44.126 N ± 9.0km 20.703 E ± 28.2km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.9 (TTG).

BEO	0.72	346	ePg	26 18.00	-0.2
	0.5s		0.70nm		
			eSg	26 28.50	
PLE	1.24	230	iPgd	26 25.54	-1.6
			iSg	26 43.44	
IVA	1.38	205	iPgc	26 28.79	-0.7
			iSg	26 47.34	
PVY	1.62	199	iPgc	26 32.32	-0.5
			iSg	26 54.78	
NKY	1.81	224	iPnd	26 36.52	1.0
			iSn	27 01.48	
BRY	1.99	233	iPnc	26 39.22	0.9
			iSn	27 06.13	
TTG	2.00	212	iPnc	26 39.24	1.1
			iSn	27 05.54	

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

* FEB 26, 1993 21h 29m 01.19±2.94s
 31.295 N ± 25.1km 116.822 W ± 13.3km
 DEPTH = 5.0km (geophysicist)
 BAJA CALIFORNIA, MEXICO (48)
 ML 3.6 (GS).

PLM	2.05	359	eP	29 37.09	0.1
			S	30 02.92	
GLA	2.44	43	eP	29 42.84	0.5
PEC	2.61	354	eP	29 44.43	-0.3
			S	30 17.83	
SSK	3.00	346	eP	29 50.94	0.5
GSC	4.00	0	ePn	30 03.52	-1.0
			S	31 01.87	
BCH	4.75	326	(P)	30 15.57	0.4
TUC	5.24	77	(P)	30 21.74	-0.4
TPNV	5.66	5	(P)	30 27.34	-0.8
			S	31 57.10	
MSU	8.15	27	(P)	31 04.14	0.9

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

FEB 26, 1993 21h 47m 53.21±1.07s
 5.442 S ± 4.3km 144.635 E ± 5.6km
 DEPTH = 14.9 ± 6.8 km
 5.2mb (35 obs.) 4.6MsZ (4 obs.)
 NEW GUINEA, PAPUA NEW GUINEA (202)
 Mw 5.3 (HRV)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 31S, 48C
 Centroid Location:
 Origin Time 21:48: 1.4 0.4
 Lat 5.55S 0.06 Lon 144.66E 0.06
 Dep 29.7 4.7 Half-duration 1.1
 Moment Tensor: Scale 10**16 Nm
 Mrr=-1.15 0.36 Mtt=-1.96 0.50
 Mff= 3.11 0.57 Mrt=-0.80 0.98
 Mrf= 4.84 1.21 Mtf= 7.45 0.39
 Principal Axes:
 T Vol= 9.64 P1g=19 Azm=302
 N -0.66 57 180
 P -8.98 26 41
 Best Double Couple: Mo=9.3*10**16
 NP1:Strike= 80 Dip=57 Slip= -5
 NP2: 173 85 -147

MDG	1.16	81	iPd	48 14.20	-0.2
YYYY	1.55	121	eP	48 19.80	-0.6
FINC	3.41	110	eP	48 48.60	1.7

PMG	4.67	148	iPc	49 04.00	-0.8
			eS	49 53.00	
RAB	7.60	81	eP	49 52.00	5.8X
CTA	14.64	174	iPc	51 23.20	1.5
	0.5s		22.89nm		5.0mb
			i	51 31.00	
			i	51 35.00	
			iS	54 05.00	
MTN	15.22	240	eP	51 28.00	-1.3
	0.8s		628.00nm		6.0mb
			e	51 40.00	
			eS	54 10.00	
WB2	17.55	214	eP	51 56.60	-2.3
			e	52 03.80	
			eS	55 05.10	
WRA	17.55	214	P	51 59.00	0.0
ASPA	20.86	209	iPc	52 38.00	0.8
	1.0s		73.30nm		5.0mb
Z	19s		1.70um		4.4MsZ
			eS	56 23.80	
MNI	20.92	289	eP	52 40.00	2.2
RMQ	21.30	170	eP	52 41.50	-0.1
	0.9s		120.00nm		5.3mb
BRS	23.16	161	iPc	52 58.30	-1.9
			eS	56 45.00	
ARMA	25.70	166	eP	53 24.80	0.1
	1.1s		45.00nm		5.1mb
CMS	25.93	178	eP	53 26.40	-0.3
	1.1s		32.00nm		4.9mb
DZM	26.80	130	iPc	53 31.00	-3.9X
CAN	30.00	173	e(P)	54 09.50	5.9X
MEEK	32.57	227	eP	54 25.00	-1.2
BAL	36.28	223	eP	54 58.00	-0.1
MUN	37.47	222	eP	55 08.00	0.0
KAGJ	38.72	341	P	55 19.10	0.6
KUMJ	39.98	342	P	55 31.30	2.3
WKYJ	40.36	348	P	55 41.30	9.1X
TKSJ	40.47	346	P	55 35.30	2.3
CHJJ	41.61	353	P	55 40.60	-1.7
YONJ	41.76	346	P	55 43.10	-0.4
QIZ	42.02	306	eP	55 46.50	0.6
MAT	42.19	352	(P)	55 45.00	-2.1
	1.5s		41.67nm		4.9mb
			eS	01 55.00	
SSE	42.69	330	Pc	55 51.50	0.4
	1.4s		44.00nm		5.0mb
Z	20s		0.60um		4.5MsZ
			S	02 13.00	
NIIJ	42.78	353	P	55 51.20	-0.7
NJ2	44.64	328	Pd	56 08.00	1.0
Z	20s		0.30um		4.2MsZ
			S	02 43.00	
IPM	44.68	282	ePc	56 08.40	0.8
SNG	45.68	285	eP	56 16.20	0.6
WHN	46.05	323	P	56 19.50	1.3
			pP	56 27.00	25kmX
			S	03 06.00	
LOE	48.07	299	eP	56 36.00	1.6
GYA	48.56	313	iPd	56 39.60	1.4
	1.2s		41.00nm		5.4mb
			pP	56 45.20	19kmX
NST	48.80	296	eP	56 44.20	4.2X
TIA	48.80	330	eP	56 39.10	-0.6
KHT	49.87	294	eP	56 47.70	-0.6
BDT	50.39	298	eP	56 52.00	-0.2
KMI	50.80	309	Pd	56 57.00	1.4
	2.0s		90.00nm		5.4mb
Z	26s		0.90um		4.7MsZ
			pP	57 09.00	43kmX
			eS	04 09.00	
SNY	50.82	340	eP	56 54.70	-0.4
Z	22s		0.62um		4.6MsZ
			S	04 12.00	
CHTO	51.06	299	ePc	56 57.90	0.6
	1.0s		25.75nm		5.1mb
XAN	51.78	322	P	57 01.50	-1.1
	1.0s		21.00nm		5.0mb
Z	24s		0.67um		4.6MsZ
			S	04 22.00	
CN2	51.99	342	eP	57 00.00	-4.0X
	1.0s		10.00nm		4.7mb
Z	22s		0.63um		4.6MsZ
YSS	52.26	358	(P)	57 06.00	0.1
BJI	52.30	332	eP	57 04.00	-2.3
	1.5s		34.00nm		5.1mb
Z	20s		0.60um		4.6MsZ
			eS	04 26.00	

TIY	52.36	328	eP	57	06.00	-1.0	EEO	124.34	35	ePKP	06	53.50	0.2	<AEIC>. ML 2.9 (AEIC).							
Z	24s	0.81um			4.7MszX		BSF	124.53	327	ePKP	06	54.70	0.9	SEW	0.48	281	iPc	56	41.13	-0.5	
CD2	53.21	315	Pd	57	13.60	0.2		1.1s	15.15nm					eS				56	48.09		
Z	20s	0.56um			4.6Msz		HAU	124.67	327	ePKP	06	54.90	1.0	MPA	0.64	319	iPd	56	44.12	-0.5	
		eS		04	44.00			0.9s	11.80nm					eS				56	53.10		
HHC	55.15	330	P	57	26.80	-0.7		Z	24s	0.10um			4.4MszX	PTE	0.89	344	iPd	56	48.14	-0.8	
	1.2s	24.00nm			5.1mb		LPG	125.90	324	ePKP	06	57.90	1.1	eS				57	01.15		
BTO	55.75	328	eP	57	31.00	-0.8			1.0s	5.40nm				SLKM	0.98	301	ePc	56	49.54	-1.1	
LZH	56.27	320	Pc	57	36.00	0.2		LPL	125.90	324	ePKP	06	57.80	1.1	eS				57	01.15	
	1.5s	94.00nm			5.6mb				1.1s	11.00nm								56	49.54	-1.1	
Z	22s	0.41um			4.5MszX		PGF	126.12	320	ePKP	06	58.10	1.0	HIN	1.07	68	iPc	56	50.62	-1.5	
N	12s	0.28um							1.0s	13.80nm								57	06.18		
GTA	60.82	321	P	58	07.00	-0.4	BCAO	126.30	272	ePKPc	06	57.00	-1.2	BRK	1.22	259	eP	56	52.59	-2.1	
	1.5s	35.00nm			5.3mb			0.9s	5.00nm									57	10.36		
LSA	62.03	308	Pd	58	13.00	20kmX	LBF	126.57	327	ePKP	06	58.80	1.1	PMS	1.34	338	P	56	54.50	-2.1	
	1.3s	20.00nm			5.1mb			1.0s	5.60nm									57	14.10		
CIT	63.04	339	eP	58	22.20	0.2	SSF	126.77	328	ePKP	06	59.20	1.2	CNPM	1.46	252	ePd	56	56.73	-1.7	
MGD	65.52	3	eP	58	35.00	-2.8X			1.0s	8.80nm				CVA	1.48	68	ePc	56	56.18	-2.3	
GUN	65.60	304	P	58	39.20	-0.3	LMR	127.25	322	ePKP	07	00.30	1.3					57	15.22		
PKI	65.87	303	P	58	41.00	-0.2			1.0s	12.40nm				NKA	1.54	299	ePd	57	00.01	0.6	
ZAK	66.04	332	iPc	58	41.00	-0.3	TCF	127.95	328	ePKP	07	00.60	0.3	VLZ	1.55	43	eP	56	57.58	-2.0	
	1.3s	43.00nm			5.5mb			0.9s	11.45nm									57	18.56		
Z	18s	0.21um			4.4MszX		CNCB	140.91	125	PKP	07	21.00	-5.2X	PLRM	1.61	349	eP	56	58.44	-2.0	
E	18s	0.21um					LPB	140.95	125	ePKP	07	20.00	-6.1X	SGAM	1.72	72	iPc	56	59.47	-2.6	
KKN	66.05	303	P	58	42.00	-0.2	ZOBO	141.05	124	ePKP	07	19.00	-7.5X	PWA	1.77	338	P	57	02.70	-0.1	
DMN	66.14	303	P	58	42.80	0.0			eLR	54	30.00		GHO	1.77	354	eP	57	01.88	-1.0		
GKN	66.66	303	P	58	45.80	-0.2	SIV	146.82	130	PKPc	07	41.40	5.8X	SML	1.80	3	eP	57	01.58	-1.7	
IRK	66.92	334	ePc	58	45.50	-1.5	PPD	148.54	151	ePKP	07	34.70	-3.5X	SCM	1.91	17	eP	57	04.03	-0.9	
	1.4s	17.00nm			5.0mb		S.D. = 1.1 on 93 of 108 obs.						KLU	1.95	40	iPc	57	03.88	-1.6		
		e		58	51.50		* FEB 26, 1993 21h 52m 53.89±0.65s						RAGM	1.95	77	eP	57	03.39	-2.1		
		e		59	11.00		2.855 N ±10.8km 79.585 W ±13.3km						KAIM	2.06	91	P	57	02.00	-5.0		
BOD	67.71	343	iPc	58	50.40	-1.5	DEPTH = 10.0km (geophysicist)						SPU	2.10	305	eP	57	05.50	-2.1		
	1.3s	22.00nm			5.2mb		4.7mb (9 obs.)						DFR	2.16	287	eP	57	06.18	-2.3		
MOY	67.99	332	ePc	58	53.70	0.0	SOUTH OF PANAMA (83)										eS	57	33.08		
	1.5s	40.00nm			5.4mb		PSO	2.80	126	eP	53	40.50	0.6	RSO	2.16	284	eP	57	06.57	-2.1	
YAK	68.24	352	iPd	58	53.50	-1.6	BOG	5.78	72	eP	54	28.00	5.9X	RS1	2.16	284	eP	57	06.66	-2.0	
	1.4s	53.00nm			5.5mb				eS	55	50.00							57	34.21		
		e		59	09.00		TCE	19.33	65	eP	57	19.68	-2.7X	RS2	2.16	284	eP	57	06.67	-2.0	
		e		01	32.00				eS	55	50.00		CKT	2.17	305	eP	57	07.82	-0.9		
HYB	69.06	291	eP	59	00.00	-1.1	TRN	19.63	66	eP	57	27.28	1.5					57	35.75		
GBA	69.32	287	Pd	59	02.00	-0.6	SLB	21.32	58	eP	57	42.44	-0.9	CKN	2.18	305	eP	57	07.97	-0.8	
WMO	70.85	320	P	59	11.00	-0.6	SLW	21.50	58	eP	57	43.73	-1.5	CPAM	2.18	306	eP	57	07.44	-1.4	
	1.5s	24.00nm			5.1mb		ZOBO	22.13	150	eP	57	50.00	-2.2	CRP	2.19	307	eP	57	07.97	-1.1	
		sP		59	21.00			0.9s	6.92nm			4.1mb	RDW	2.19	284	eP	57	06.49	-2.6		
		eS		08	23.00		Z	20s	0.29um			3.7Msz						57	35.85		
		sS		08	34.50				S	01	52.00			CKL	2.23	304	eP	57	07.52	-2.0	
NDI	73.09	302	eP	59	24.50	-0.6			LR	04	00.00		NCT	2.27	286	eP	57	07.44	-2.7		
ELT	76.20	328	iPc	59	41.60	-0.9	LPB	22.36	150	eP	57	54.00	-0.2	BGL	2.28	305	eP	57	08.36	-2.0	
	1.7s	54.00nm			5.3mb			1.0s	30.00nm			4.7mb	INW	2.32	273	P	57	09.80	-1.0		
		e		59	51.00		CNCB	22.65	150	P	57	59.00	1.7	SKT	2.46	325	eP	57	10.68	-2.0	
		eS		09	25.00		SIV	26.19	136	P	58	33.80	3.2X	AUL	2.58	258	P	57	16.20	1.9	
PRZ	76.50	316	(P)	59	45.00	0.3	ALO	40.52	325	eP	00	37.50	2.3	AUH	2.58	257	eP	57	14.20	-0.3	
	1.4s	90.00nm			5.6mb			1.0s	8.13nm			4.4mb	GLB	2.72	56	iPc	57	14.10	-2.3		
KSH	77.24	312	eP	59	50.50	1.7	GLA	44.61	316	eP	01	02.00	-6.4X					57	45.25		
	1.2s	30.00nm			5.2mb		LMN	44.74	15	eP	01	13.50	4.4X	CROM	2.77	72	ePc	57	14.32	-3.0	
ILT	77.59	13	iPd	59	49.80	-0.1	RSSD	46.44	336	eP	01	23.50	0.6	PDB	2.87	268	eP	57	17.87	-0.7	
TIK	77.62	355	eP	59	48.00	-2.0		1.0s	46.10nm			5.5mb	SDG	2.90	28	eP	57	17.80	-1.2		
	1.0s	24.00nm			5.2mb		8W06	47.89	330	eP	01	32.60	-1.9	TGL	2.92	73	eP	57	16.39	-2.9	
FRU	79.25	315	eP	00	05.00	5.3X		1.1s	18.45nm			5.1mb	BALM	3.22	69	iPc	57	20.39	-3.2		
	2.0s	40.00nm			5.1mb													57	56.11		
SVW	80.72	25	eP	00	07.17	0.0	ULM	49.20	346	eP	01	44.50	0.4	PAX	3.30	25	eP	57	23.52	-1.3	
	0.9s	26.84nm			5.3mb		JAO	50.88	3	eP	01	55.00	-1.9	TRF	3.55	347	eP	57	27.26	-1.1	
TTA	81.47	23	eP	00	11.30	0.3	YKA	64.94	343	eP	03	32.70	-3.0X	45 obs. associated							
QUE	82.14	301	eP	00	14.00	-1.4		0.8s	3.20nm			4.6mb	? FEB 26, 1993 22h 17m 56.87±7.03s								
IMA	83.88	21	eP	00	23.37	-0.2	WLF	85.08	41	P	05	34.00	2.9X	40.592 N ±72.7km 27.363 E ±10.4km							
	1.3s	14.57nm			5.0mb		WTS	85.54	38	eP	05	35.00	1.6	DEPTH = 10.0km (geophysicist)							
NRI	83.90	343	iPd	00	22.40	-1.0		0.8s	27.30nm			5.5mb	TURKEY (366)								
	1.2s	39.00nm			5.5mb		NB2	87.91	29	P	05	45.40	0.5	MD 2.6 (ISK).							
		e		00	28.00			0.9s	5.40nm			4.9mb	EDC	0.45	123	iPg	18	06.00	-0.1		
		e		00	38.00		GEC2	90.04	41	P	05	56.30	0.9					18	12.00		
SPA	84.59	180	iPc	00	28.70	1.6		0.9s	1.36nm			4.2mb	BNT	0.49	119	iPg	18	06.00	-0.7		
	0.9s	29.55nm			5.5mb		GKN	145.77	25	PKP	12	34.40	-0.9					18	13.00		
BRW	85.53	16	eP	00	32.20	0.7		1.0s	34.00nm				KCT	0.83	114	ePg	18	13.00	0.0		
FBA	85.60	23	eP	00	30.07	-1.9			0.8s	13.00nm			EZN	1.10	226	iPn	18	17.30	-0.3		
	0.6s	6.21nm			5.0mb		KKN	146.23	25	PKP	12	35.40	-0.8	DST	1.38	135	ePn	18	23.30	1.1	
MAIO	89.28	306	eP	00	50.00	-0.5	DMN	146.31	25	PKP	12	36.40	0.0	S.D. = 0.9 on 5 of 5 obs.							
YKA	99.77	28	eP	01	37.70	-0.1	GUN	146.36	24	PKP	12	37.00	0.4	* FEB 26, 1993 22h 37m 12.39s							
	1.1s	1.50nm			4.5mb			0.7s	24.00nm				35.143 N 116.841 W								
LCCM	103.28	44	ePd	01	58.00	4.5X	PKI	146.47	25	PKP	12	36.60	-0.1	DEPTH = 2.2km							
FCC	110.47	28	ePd	02	42.00	16.5X	GBA	151.94	54	PKP	12	50.00	5.0X	CENTRAL CALIFORNIA (39)							
KHC	120.04	325	ePKP	06	47.00	2.0	S.D. = 1.4 on 20 of 28 obs.						<PAS-P>. ML 2.9 (PAS).								
GEC2	120.11	325	PKP	06	44.40	-0.8	* FEB 26, 1993 21h 56m 31.92s						GSC	0.16	11	iPd	37	15.67	0.0		
	0.7s	0.80nm					60.017 N 148.512 W														
VBY	120.74	321	ePKP	06	46.50	0.1	DEPTH = 10.0km														
GRF	121.06	327	e(PKP)	06	49.30	2.4	KENAI PENINSULA, ALASKA (14)														
	0.9s	3.00nm						</													

26d 22h

SSK 1.17 217 eP 37 33.97 -1.0
S 37 49.81
PEC 1.28 192 ePd 37 35.95 -0.8
S 37 52.42
PLM 1.79 181 eP 37 43.59 -1.0
S 38 06.56
TPNV 1.86 15 eP 37 46.15 0.4
GLA 2.67 141 ePn 37 54.20 -3.0
eLg 38 01.57
ePg 38 37.39
TNP 2.95 354 (Pn) 37 59.21 -2.1
ePg 38 10.31
7 obs. associated

FEB 26, 1993 22h 46m 00.58 ± 0.35s
48.562 N ± 3.1km 122.395 W ± 3.5km
DEPTH = 5.0km (geophysicist)
WASHINGTON (29)
ML 3.1 (GS), 3.0 (PGC).

MCW 0.31 292 eP 46 08.08 1.2
VDB 0.50 22 Pg 46 10.86 0.2
SNB 0.56 293 Pg 46 12.69 1.0
VGZ 0.64 257 Pg 46 13.43 0.1
Sg 46 23.32
PGC 0.71 278 P 46 15.00 0.3
0.3s 67.00nm
HNB 0.72 350 Pg 46 14.57 -0.5
Sg 46 24.61
BIB 1.04 325 Pgd 46 20.12 -0.5
Sg 46 33.98
GMW 1.05 195 eP 46 19.91 -0.9
eS 46 34.58
RMW 1.17 160 eP 46 22.17 -0.8
eS 46 36.77
WPB 1.22 334 Pg 46 23.00 -0.7
Sg 46 38.90
NAB 1.25 303 Pg 46 23.85 -0.4
Sg 46 40.94
PFB 1.36 271 Pg 46 25.13 -1.0
Sg 46 43.43
SHB 1.42 317 Pg 46 26.51 -0.7
Sg 46 45.74
WHB 1.61 347 Pg 46 29.50 -0.3
LON 1.86 167 eP 46 32.76 -0.6
eS 46 56.56
BMW 2.16 195 eP 46 37.69 -0.1
eS 47 05.81
BTB 2.25 295 Pg 46 40.24 1.1
SHW 2.37 177 eP 46 41.50 0.6
DPW 2.89 102 (P) 46 49.34 1.2
VGB 3.24 159 eP 46 53.98 0.8
NEW 3.53 93 eP 46 57.25 0.1
S.D. = 0.8 on 21 of 21 obs.

% FEB 26, 1993 22h 51m 30.54 ± 3.26s
33.901 S ± 19.6km 71.158 W ± 9.6km
DEPTH = 55.5 ± 31.0 km
NEAR COAST OF CENTRAL CHILE (135)
MD 3.1 (SAN).

LNV 0.22 255 iP 51 39.82 0.2
iS 51 47.00
TACH 0.31 37 iPd 51 40.31 0.0
iS 51 47.83
CHCH 0.42 95 iPd 51 41.43 0.0
iS 51 50.04
LCCH 0.55 321 iP 51 42.44 -0.3
iS 51 52.12
PCH 0.60 63 iP 51 43.47 -0.1
iS 51 53.66
PEL 0.85 28 iP 51 47.10 0.4
iS 51 59.41
FCH 0.92 52 iP 51 47.68 -0.2
iS 52 01.57
ROCH 0.93 8 iP 51 48.04 0.1
iS 52 01.57
JACH 1.30 21 eP 51 52.74 -0.1
iS 52 09.66
S.D. = 0.3 on 9 of 9 obs.

FEB 26, 1993 23h 14m 13.17 ± 0.58s
49.143 N ± 5.6km 6.965 E ± 6.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.5 (STR).

LANF 0.58 106 Pg 14 24.60 -0.3
HOFF 0.69 107 Pg 14 27.03 0.3
WLF 0.74 315 iPd 14 26.06 -1.7
iS 14 35.56
CDF 0.76 164 Pg 14 27.54 -0.5
Sg 14 39.00
WLS 0.77 160 Pg 14 28.07 -0.2
ECH 0.94 172 Pg 14 31.36 0.3
Sg 14 45.17
VITF 1.13 215 Pg 14 33.41 -1.0
MOF 1.30 175 Pg 14 37.83 0.6
Sg 14 56.89
FEL 1.45 151 Pg 14 40.81 1.3
ENN 1.76 338 ePn 14 45.00 1.1
eSn 15 09.00
DOU 1.81 303 iP 14 45.70 1.1
GEC2 4.45 91 Pn 15 21.10 -1.1
Pg 15 36.90
Sg 16 37.60
S.D. = 1.1 on 12 of 12 obs.

& FEB 26, 1993 23h 23m 08.22s
60.295 N 152.201 W
DEPTH = 82.8km
SOUTHERN ALASKA (2)
<AEIC>.

RDT 0.30 340 eP 23 20.36 -0.7
REF 0.32 308 eP 23 20.76 -0.6
eS 23 30.54
eS 23 30.60
RSO 0.32 302 eP 23 20.81 -0.6
eS 23 30.42
RS1 0.32 301 eP 23 20.78 -0.6
S 23 30.71
RS2 0.32 302 iP 23 20.84 -0.6
eS 23 30.70
RDN 0.36 308 eP 23 21.15 -0.4
RDW 0.36 302 eP 23 20.91 -0.7
DFR 0.38 321 eP 23 20.86 -0.8
S 23 30.75
NCT 0.45 307 eP 23 20.96 -1.2
S 23 31.68
INE 0.49 242 eP 23 21.85 -0.7
eS 23 33.70
INW 0.52 244 eP 23 21.92 -0.8
NKA 0.66 46 eP 23 24.97 1.1
BRLK 0.85 128 eP 23 25.08 -0.9
eS 23 38.74
SPU 0.89 5 iP 23 25.64 -0.9
eS 23 39.58
CKL 0.91 356 iP 23 25.84 -0.9
CKT 0.91 360 eP 23 25.75 -1.0
CNPM 0.91 147 eP 23 25.98 -0.7
CKN 0.93 1 eP 23 26.21 -0.7
CPAM 0.96 2 iP 23 26.67 -0.7
eS 23 41.63
CP2 0.97 359 iP 23 26.85 -0.8
BGL 0.98 355 iP 23 26.72 -0.8
CRP 0.98 1 iP 23 26.88 -0.7
eS 23 41.23
SLKM 1.01 77 eP 23 26.94 -0.9
AUL 1.11 215 eP 23 28.30 -0.7
AUE 1.11 213 eP 23 28.14 -0.9
PDB 1.12 244 eP 23 28.03 -1.1
eS 23 43.80
AUH 1.13 214 eP 23 28.48 -0.8
AUI 1.15 213 eP 23 28.68 -0.8
S 23 44.54
SUA 1.37 31 eP 23 31.86 -0.6
eS 23 50.91
SEW 1.39 97 eP 23 30.96 -1.6
MPA 1.42 81 eP 23 31.87 -1.1
MCNL 1.55 225 eP 23 33.42 -1.3
eS 23 53.07
CDD 1.55 209 eP 23 33.60 -1.2
PMS 1.61 53 P 23 34.70 -0.8
PTE 1.67 69 eP 23 35.17 -1.1
SKT 1.72 11 eP 23 35.63 -1.4
PWA 1.77 39 P 23 36.70 -0.9
SVW 1.87 297 P 23 37.20 -1.8
PLRM 1.98 48 eP 23 38.70 -1.8
GHO 2.18 46 eP 23 41.55 -1.7
SML 2.42 49 eP 23 44.61 -1.9
SCM 2.83 55 eP 23 50.52 -1.6
VLZ 3.00 71 eP 23 51.70 -2.8

TRF 3.29 15 eP 23 57.13 -1.6
KLU 3.30 66 eP 23 55.78 -2.9
45 obs. associated

& FEB 26, 1993 23h 58m 37.98s
37.574 N 118.842 W
DEPTH = 7.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.0 (GM).

MEMM 0.12 320 iPd 58 40.92 0.2
MRCM 0.28 70 iPc 58 43.70 -0.2
MTUM 0.31 135 iPd 58 44.20 -0.2
eS 58 48.72
BONR 0.57 48 iPc 58 49.11 -0.4
TNP 1.38 68 ePc 59 04.00 0.2
ARN 2.15 265 eP 59 15.69 0.9
TPNV 2.16 106 eP 59 14.91 -0.1
COE 2.28 263 eP 59 16.39 -0.1
ORV 2.87 314 (P) 59 28.03 3.0
9 obs. associated

FEB 27, 1993 00h 29m 01.34 ± 0.32s
39.075 S ± 4.0km 71.546 W ± 8.0km
DEPTH = 105.8km (16 depth phases)
5.1mb (15 obs.)
S. CHILE-ARGENTINA BORDER REGION (145)

CACH 5.01 9 iP 30 16.34 0.8
iS 31 15.26
LNV 5.11 1 iPd 30 17.03 0.2
iS 31 14.54
CHCH 5.18 8 iP 30 19.03 1.1
iS 31 18.35
TACH 5.43 5 iPd 30 20.71 -0.7
iS 31 18.64
PCH 5.51 9 iPd 30 22.51 0.1
iS 31 25.26
LCCH 5.59 360 iPd 30 21.81 -1.7
iS 31 21.72
SAN 5.66 8 iP 30 24.05 -0.4
FCH 5.82 10 iP 30 26.87 -0.2
iS 31 33.29
PEL 5.96 7 iP+ 30 27.98 -0.7
iS 31 33.73
PEL 5.96 7 iPd 30 28.00 -0.6
iS 31 33.70
IHA 6.04 359 ePc 30 28.40 -1.2
e(S) 31 26.00
ROCH 6.11 4 iP 30 29.45 -1.4
iS 31 36.41
JACH 6.43 7 iP 30 34.03 -1.1
MDZ 6.55 20 iP 30 37.20 0.4
iS 31 05.30
RTBS 7.59 14 ePd 30 50.90 0.0
ZON 7.87 18 eP 30 55.80 1.0
CFA 7.93 21 iPd 30 54.80 -0.7
RTLL 8.13 19 iPc 30 56.70 -1.6
S 31 10.00
MRA 8.17 37 eP 31 01.00 2.3
TCA 9.59 38 iPd 31 18.80 0.7
CYA 11.63 26 ePc 31 41.00 -4.2x
FSA 13.76 21 iPc 32 10.40 -2.7x
SLA 15.19 21 iPd 32 30.00 -1.5
ANT 15.35 4 iP 32 31.50 -1.9
HJA 16.65 20 iPd 32 50.00 0.4
CCH 22.12 14 P 33 51.40 2.0
CNCB 22.40 9 iPd 33 55.00 2.6x
S 38 01.00
ARE 22.53 0 iPd 33 55.90 2.5
LPB 22.66 9 iPd 33 55.80 1.0
i 34 04.30 31kmx
LR 44 20.00
ZOBO 22.90 8 iPd 33 58.90 1.6
1.0s 107.50nm 5.1mb
iS 37 58.00
LR 43 10.00
PPD 24.25 51 eP 34 08.40 -1.2
SIV 24.76 25 iPd 34 19.80 5.2x
BMA 28.47 63 eP 34 48.60 0.2
SOB1 40.45 51 eP 36 30.90 -0.1
SPA 51.12 180 iPc 37 54.80 -0.2
0.9s 309.09nm 6.3mb x
i 38 20.80 109km
CER 70.48 117 iPc 40 05.50 -0.9
0.6s 78.57nm 5.7mb
WIN 75.14 107 iPc 40 34.50 0.5

1.1s	55.70nm	5.3mb	KCT	1.31	18	iPn	48	36.90	0.4	ML 1.8 (GEN).			
UYO	75.90	341 iPd	40	37.00	-0.7	EDC	1.34	1	ePn	48	36.00	-1.0	
MIAR	76.04	341 (P)	40	37.25	-1.2	BNT	1.35	3	ePn	48	37.00	-0.2	
OLY	76.46	343 (P)	40	41.65	0.9	EZN	1.43	306	ePn	48	39.00	0.7	
FRS	76.76	118 iPd	40	42.70	0.0								
	0.7s	34.25nm								S.D. = 0.8	on	6 of	6 obs.
MEO	77.63	337 iPd	40	46.60	-0.7	& FEB 27, 1993	01h	04m	59.10s				
WMOK	77.65	337 eP	40	46.67	-0.7		38.772 N		122.380 W				
	1.3s	20.78nm								DEPTH = 9.0km			
		eP	41	13.78	105km					NORTHERN CALIFORNIA		(36)	
ELC	77.71	346 (P)	40	46.57	-1.0					<BRK>. ML 3.0 (BRK).			
		e	41	14.31	108km								
BLF	77.75	117 iPd	40	48.70	0.3	NTYM	0.44	210	iPd	05	07.68	-0.4	
	0.7s	20.00nm				HMR	0.77	143	eP	05	14.00	-0.1	
FVM	78.62	345 iPc	40	52.08	-0.5	ZSP	0.83	173	iPc	05	15.32	0.1	
	0.7s	14.56nm							eS	05	29.30		
SEK	79.23	118 iP	40	54.00	-2.5X	8KS	0.90	173	ePc	05	15.35	-1.1	
	1.0s	55.00nm							eS	05	29.85		
GPD	79.76	358 eP	40	59.50	0.9	DRV	1.04	41	iPc	05	17.15	-1.7	
		iP	41	27.06	107km	JEGM	1.26	183	eP	05	20.50	-2.1	
TUC	79.83	327 (P)	41	00.07	0.7				eS	05	39.43		
		eP	41	27.49	106km	PCC	1.27	180	ePd	05	20.89	-1.9	
MNG	79.87	225 P	40	59.40	-0.2	STAN	1.38	173	ePc	05	23.79	-0.6	
	0.8s	36.00nm							eS	05	43.43		
KSR	80.25	115 iPd	41	01.00	-1.0	MHC	1.54	158	eP	05	27.54	0.6	
	1.0s	20.00nm							eS	05	50.43		
ALO	80.42	332 eP	41	03.38	0.8	ARN	1.57	155	eP	05	26.48	-0.7	
	1.0s	4.24nm				COE	1.61	159	eP	05	26.89	-0.9	
SLR	81.30	116 iPc	41	06.60	-0.9	MIN	1.68	21	eP	05	27.13	-1.8	
	0.9s	37.82nm							eS	05	52.24		
8FT	82.56	117 eP	41	15.00	0.9	CM8	1.73	115	iPc	05	27.99	-1.6	
RSNY	83.28	358 eP	41	17.44	0.5	GCC	1.77	170	eP	05	28.16	-1.8	
	1.1s	11.29nm				WDC	1.81	356	ePn	05	27.60	-3.1	
LMN	84.76	5 eP	41	28.00	3.7X	LMEM	1.87	19	(P)	05	30.49	-1.2	
		pP	41	56.50	109km	LBFM	2.60	8	(P)	05	42.89	0.7	
EEO	85.60	355 eP	41	32.00	3.5X	MEMM	2.93	111	eP	05	46.57	0.0	
SRU	85.62	331 eP	41	30.21	1.2	MRCM	3.24	109	eP	05	50.26	-1.1	
		iP	41	57.31	103km	MTUM	3.33	114	eP	05	51.93	-0.6	
MSU	85.75	329 iPd	41	31.35	1.6	TNP	4.11	98	ePg	06	12.94	9.3	

27d 03h

PEL	1.97	243	iS	29	39.94		
			iP+	29	16.71	0.2	
			iS	29	42.43		
PCH	2.11	229	iPd	29	18.61	0.4	
			eS	29	46.74		
ROCH	2.16	250	iP	29	18.62	-0.3	
			iS	29	46.93		
CHCH	2.40	225	iP	29	22.09	0.4	
			eS	29	52.50		
TACH	2.41	234	iPd	29	21.70	-0.1	
			iS	29	52.08		
MRA	2.45	95	iPd	29	22.50	0.2	
			S	29	49.00		
RTPR	2.64	43	e(P)	29	25.00	0.4	
LCCH	2.78	243	iP	29	25.52	-0.9	
			iS	30	00.15		
LVN	2.91	233	eP	29	27.28	-0.7	
			iS	30	01.99		
TCA	3.53	76	iPd	29	36.10	-0.2	
			S	30	13.50		
CYA	4.50	33	ePc	29	49.00	0.0	

S.D. = 0.5 on 18 of 18 obs.

FEB 27, 1993 05h 47m 27.83±0.53s
 40.612 N ± 4.8km 22.917 E ± 4.2km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.3 (THE).

THE	0.04	61	ePgc	47	29.72	-0.2	
			eSg	47	30.54		
SOH	0.39	58	ePgc	47	36.09	0.2	
			eSg	47	41.82		
GRG	0.52	312	ePgc	47	37.77	-0.6	
			eSg	47	45.54		
KNT	0.55	359	ePgc	47	38.91	0.0	
			eSg	47	45.98		
LIT	0.61	213	ePg	47	39.82	-0.3	
			eSg	47	48.78		
SRS	0.72	45	ePg	47	42.04	0.0	
			eSg	47	52.26		
OUR	0.86	108	ePg	47	44.75	0.4	
			eSg	47	57.19		
PAIG	0.90	139	ePg	47	44.66	-0.4	
			eSg	47	57.46		
FNA	1.18	279	ePb	47	50.86	0.9	
			eSb	48	07.38		

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

% FEB 27, 1993 07h 12m 03.59±0.90s
 38.984 N ± 8.8km 27.843 E ± 10.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK).

IZM	0.74	218	iPg	12	18.10	0.0	
			iSg	12	30.60		
DST	0.87	44	iPg	12	20.00	-0.4	
			iSg	12	33.00		
KCT	1.32	17	iPn	12	28.50	0.5	
EDC	1.36	1	iPn	12	28.00	-0.6	
BNT	1.37	2	ePn	12	28.50	-0.2	
EZN	1.45	306	ePn	12	30.00	0.2	
YLV	1.97	36	ePn	12	30.00	0.5	

S.D. = 0.5 on 7 of 7 obs

FEB 27, 1993 07h 33m 37.56±0.28s
 6.690 S ± 4.7km 131.344 E ± 7.3km
 DEPTH = 33.0km (normol)
 5.0mb (18 obs.)

TANIMBAR ISLANDS REG., INDONESIA(281)

MTN	6.12	182	iPc	35	06.90	-1.2	
			eS	36	08.00		
WB2	13.50	168	eP	36	43.10	-6.1X	
			eS	39	04.30		
PMG	15.89	101	eP	37	20.00	-0.5	
CGP	16.44	336	iPd	37	32.50	5.0X	
ASPA	17.06	172	eP	37	30.00	-5.3X	
	2	19s	0.30um				
			i	37	37.80		
			eS	40	28.60		
CTA	19.67	134	iPc	38	06.00	-0.9	
	1.0s		17.50nm			4.3mb	
KKM	19.70	310	ePc	38	07.00	-0.4	
	0.7s		51.80nm			4.9mb	
PGP	22.56	333	eP	38	36.00	-0.3	

MEEK	23.25	210	eP	38	43.00	-0.1	
FORT	24.16	187	eP	38	52.00	0.2	
RMO	25.74	142	iPd	39	07.10	0.1	
CVP	26.00	339	eP	39	09.00	-0.3	
MRWA	26.68	211	eP	39	16.00	0.4	
			eS	44	18.00		
STK	26.83	160	eP	39	15.60	-1.3	
	0.4s		2.90nm			4.3mb	
			eS	44	01.10		
BAL	27.47	208	eP	39	23.30	0.5	
KLB	27.84	205	eP	39	26.00	-0.1	
CMS	28.14	153	eP	39	28.50	-0.4	
BRS	28.95	138	iPc	39	44.50	8.3X	
	0.6s		4.00nm			4.3mb	
BWA	31.79	153	eP	40	02.30	1.0	
BFD	32.02	163	eP	40	05.20	2.0	
CAN	32.79	153	eP	40	10.00	-0.1	
TOO	33.32	159	eP	40	15.40	0.8	
	0.6s		11.00nm			4.9mb	
KHT	38.86	303	eP	41	02.10	0.3	
WHN	40.45	337	Pd	41	16.50	1.8	
CHTO	40.77	309	ePc	41	18.20	0.6	
	1.0s		16.00nm			4.7mb	
MAT	43.48	8	(P)	41	44.00	4.5X	
	0.8s		8.96nm			4.6mb	
XAN	45.73	334	Pc	41	57.40	-0.3	
	0.8s		11.00nm			4.8mb	
CD2	45.77	326	eP	41	57.20	-0.8	
TIY	47.57	340	Pd	42	12.30	0.2	
BJI	48.56	344	eP	42	20.00	0.3	
	1.0s		11.00nm			4.8mb	
LZH	49.77	331	eP	42	27.50	-1.8	
	1.5s		19.00nm			4.9mb	
HHC	50.68	341	P	42	36.20	0.1	
	1.0s		14.00nm			4.9mb	
LSA	52.91	315	eP	42	57.60	4.1X	
GTA	54.36	330	P	43	04.00	0.4	
	1.0s		15.00nm			5.0mb	
			pP	43	15.50	40kmX	
			sP	43	19.50		
GUN	55.76	310	P	43	13.00	-0.5	
PKI	55.95	310	P	43	15.20	-0.4	
	0.6s		19.00nm			5.3mb	
KKN	56.16	310	P	43	16.40	-0.6	
	0.6s		23.00nm			5.4mb	
DMN	56.20	310	P	43	17.00	-0.3	
	0.6s		20.00nm			5.3mb	
GKN	56.75	310	P	43	20.80	-0.4	
	0.4s		18.00nm			5.5mb	
GBA	57.19	291	P	43	23.00	-1.2	
WMO	63.87	326	P	44	10.00	0.6	
	1.0s		27.00nm			5.3mb	
KSH	68.66	317	eP	44	42.20	2.1	
	0.5s		20.00nm			5.4mb	
GEC2	113.04	321	PKP	52	13.50	0.2	
	0.6s		0.54nm				
CYA	141.35	155	iPKPd	52	54.00	-13.6X	
YJA	146.91	151	ePKPc	53	20.80	3.1X	
CNCB	149.83	141	ePKP	53	30.00	7.5X	
LPB	149.96	140	ePKP	53	32.00	9.4X	
			i	53	39.00		
ZOBO	150.12	140	PKP	53	29.90	6.8X	
			i	53	46.00		
PPD	151.34	175	ePKP	53	31.40	7.4X	

S.D. = 0.9 on 37 of 49 obs.

FEB 27, 1993 08h 12m 51.78±0.94s
 37.829 N ± 7.4km 21.851 E ± 8.4km
 DEPTH = 10.0km (geophysicist)

SOUTHERN GREECE (368)

ML 3.2 (ATH), 3.2 (THE).

AGG	1.25	17	ePb	13	14.61	-0.4	
			eSb	13	33.60		
VLI	1.41	142	ePn	13	16.50	-0.9	
ATH	1.48	84	ePb	13	20.00	1.5	
IGT	2.07	326	ePn	13	27.00	-0.1	
			eSn	13	55.12		
LIT	2.32	12	ePn	13	31.32	0.7	
			eSn	14	02.64		
KEK	2.47	320	ePn	13	34.00	1.3	
KZN	2.47	359	ePn	13	32.00	-0.8	
PAIG	2.53	34	ePn	13	33.24	-0.4	
			eSn	14	06.44		
THE	2.93	17	ePn	13	38.04	-1.2	
FNA	2.97	353	ePn	13	39.24	-0.7	
			eSn	14	15.92		

OUR	3.00	33	ePn	13	40.24	0.0	
			eSn	14	18.84		
GRG	3.15	8	ePn	13	42.72	0.3	
SOH	3.21	21	ePn	13	43.60	0.4	
			eSn	14	22.72		
KNT	3.43	13	ePn	13	45.80	-0.5	
			eSn	14	28.76		
SRS	3.55	22	ePn	13	48.68	0.7	
			eSn	14	32.96		

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

? FEB 27, 1993 08h 13m 24.91±1.86s
 46.711 N ± 30.8km 154.520 E ± 27.2km
 DEPTH = 33.0km (normol)
 5.1mb (11 obs.)

EAST OF KURIL ISLANDS (222)

MAT	15.84	236	(P)	17	05.00	-2.0	
CN2	20.62	273	eP	18	02.40	-1.4	
	0.8s		4.00nm			3.8mb X	
			eP	18	09.50	26kmX	
XAN	36.48	266	Pd	20	29.20	0.5	
	0.6s		7.10nm			4.7mb	
CD2	41.84	266	iPd	21	14.70	1.4	
	1.0s		29.00nm			5.0mb	
YKA	50.37	37	eP	22	21.10	0.8	
	0.7s		0.80nm			3.8mb X	
LSA	51.24	274	Pd	22	30.00	2.0	
	0.8s		12.00nm			4.9mb	
GUN	55.97	276	P	23	03.00	0.3	
	0.6s		22.00nm			5.4mb	
KKN	56.45	276	P	23	06.60	0.5	
	0.8s		40.00nm			5.5mb	
PKI	56.50	276	P	23	06.80	0.2	
	0.8s		24.00nm			5.3mb	
DMN	56.69	276	P	23	08.40	0.6	
	0.8s		74.00nm			5.8mb	
GKN	56.76	277	P	23	08.60	0.4	
	0.6s		32.00nm			5.5mb	
UPP	68.11	338	iP	24	21.90	-1.1	
NB2	68.57	342	P	24	24.80	-1.2	
	0.7s		7.70nm			4.9mb	
HFS	68.83	340	eP	24	26.00	-1.5	
	0.6s		12.10nm			5.1mb	
KHC	78.69	335	eP	25	25.50	0.5	
GEC2	78.91	335	P	25	26.30	0.0	
	0.6s		1.22nm			4.1mb	

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

	Z	20s	0.20um	4.2MsZ
SOH	56.61	38 eP	48 26.98	-8.9X
OUR	56.72	39 eP	48 36.06	-0.6
WET	56.81	25 eP	48 37.00	-0.2
WTS	56.86	19 eP	48 37.50	0.1
	0.9s	33.00nm		5.4mb
		e	48 52.00	
SRS	56.93	38 ePc	48 38.33	0.2
GEC2	56.93	26 P	48 37.40	-0.8
	0.7s	3.46nm		4.5mb
		pP	48 45.10	25kmX
		sP	48 53.00	
		PP	50 39.40	
KHC	57.10	25 eP	48 21.50	-17.8X
	1.5s	14.30nm		
		i	48 38.50	
		e	48 55.50	
		e	49 31.50	
MOX	57.47	23 ePc	48 41.70	-0.1
	1.6s	28.00nm		5.0mb
ZST	57.99	28 iP	48 44.20	-1.2
PRU	58.16	25 eP	48 46.50	-0.1
		e	49 16.00	
SRO	58.30	29 iP	48 47.30	-0.3
BZS	58.53	33 eP	48 34.00	-15.2X
CLL	58.54	23 e(P)	48 49.00	-0.2
RMN	59.91	54 eP	48 59.40	0.2
SPC	60.18	29 eP	48 47.50	-13.3X
		e	48 59.30	
ZNT	60.85	52 eP	49 05.90	0.4
MLR	60.86	35 iPc	49 06.70	1.2
VR1	61.53	35 ePc	49 10.00	0.1
HRI	61.78	51 eP	49 12.20	0.2
HFS	65.77	17 eP	49 36.20	-1.2
	0.6s	1.90nm		4.5mb
	Z 16s	222.00um		7.5MsZ X
		LR	18 02.00	
NB2	65.80	16 P	49 36.90	-0.8
	0.8s	5.10nm		4.8mb
UPP	66.79	19 iP	49 43.30	-0.7
NUR	69.71	22 eP	50 14.00	11.8X
JAO	71.26	329 eP	50 12.00	0.3
KAF	71.38	21 eP	50 12.00	-0.3
OBN	71.77	30 eP	50 13.00	-1.7
	1.0s	18.00nm		5.1mb
		e	50 15.00	
		e	50 40.00	
MEO	81.40	305 iPd	51 09.40	0.2
MA10	81.43	53 iPc	51 10.50	1.1
ACO	82.08	307 iPd	51 13.10	0.4
YKA	92.90	332 eP	52 03.70	-0.8
	1.1s	3.10nm		4.6mb
ASPA	144.63	135 ePKP	58 28.80	-1.0
	1.7s	7.60nm		
		i	58 35.70	
CMS	145.19	158 ePKP	58 37.30	6.8X
	0.9s	6.00nm		
WB2	147.21	130 ePKP	58 44.70	10.6X
	0.7s	5.60nm		
RMO	150.79	158 ePKP	58 53.70	14.2X
	1.0s	21.00nm		
BRS	151.21	166 iPKP	58 53.00	12.9X
S.D. = 0.8 on 59 af 72 obs.				

& FEB 27, 1993 12h 38m 59.30s				
65.127 N 148.734 W				
DEPTH = 32.6km				
NORTHERN ALASKA (676)				
<AEIC>. ML 2.8 (AEIC).				
MDM	0.27	128 iP	39 06.17	-0.6
FBA	0.46	119 iPc	39 09.01	-0.3
NEA	0.57	195 iP	39 10.66	-0.3
		eS	39 19.19	
GLM	0.59	103 iP	39 10.94	-0.3
		iS	39 18.97	
CCB	0.62	140 iP	39 11.58	-0.1
		eS	39 20.71	
HDA	1.05	133 iP	39 17.46	-0.3
		eS	39 32.98	
MCK	1.40	184 eP	39 23.02	0.2
PRP	1.40	72 P	39 23.30	0.4
RND	1.73	182 eP	39 27.67	0.1
		S	39 50.74	
TRF	1.81	203 iP	39 28.61	-0.3
FYU	2.04	43 eP	39 31.91	-0.1
IMA	2.26	297 eP	39 36.12	0.9

27d 12h

DOT 2.51 124 eP 39 37.14 -1.7
 PAX 2.60 145 eP 39 40.06 0.1
 S 40 09.97
 CUT 2.82 195 eP 39 43.47 0.5
 SDG 2.97 150 eP 39 45.67 0.5
 SML 3.34 177 eP 39 49.45 -1.0
 SCM 3.37 169 eP 39 51.25 0.3
 GHO 3.37 182 eP 39 50.67 -0.3
 SKT 3.40 203 iP 39 51.09 -0.2
 TZL 3.43 153 P 39 49.50 -2.3
 PWA 3.53 189 P 39 52.90 -0.2
 PMR 3.55 183 eP 39 53.04 -0.4
 PLRM 3.55 183 eP 39 53.21 -0.3
 SUA 3.79 195 eP 39 56.75 -0.1
 KLU 3.86 160 eP 39 58.88 1.0
 TTA 3.89 239 P 39 56.40 -1.9
 PMS 3.92 186 P 39 59.70 1.1
 VLZ 4.16 164 eP 40 02.72 0.8
 CRP 4.17 203 eP 40 01.39 -1.0
 CPAM 4.18 203 eP 40 01.48 -1.0
 CP2 4.19 204 eP 40 02.45 -0.2
 BGL 4.22 205 eP 40 02.96 0.0
 CKN 4.22 203 eP 40 03.37 0.5
 SPU 4.24 202 eP 40 02.55 -0.6
 CKT 4.24 203 eP 40 02.87 -0.5
 CKL 4.27 204 eP 40 03.44 -0.3
 PTE 4.28 182 eP 40 04.66 0.9
 GLB 4.31 147 eP 40 05.93 1.6
 MPA 4.66 184 eP 40 09.90 0.7
 SLKM 4.69 189 eP 40 10.75 1.2
 DFR 4.90 203 eP 40 12.21 -0.4

42 obs. associated

FEB 27, 1993 12h 40m 50.87±0.96s
 23.540 S ± 5.5km 70.931 W ± 10.3km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF NORTHERN CHILE (122)
 Felt (11) at Antofagasto.

ANT 0.50 109 iP+ 41 00.50 -0.5
 IS 41 03.80
 HJA 5.09 87 eP 42 10.50 1.5
 SLA 5.11 104 ePc 42 11.00 1.6
 e 42 11.60
 FSA 5.14 121 eP 42 10.00 0.3
 YJA 5.19 76 eP 42 10.60 -0.2
 RTRS 6.73 169 eP 42 32.00 -0.2
 ARE 7.06 356 eP 42 37.00 -0.1
 eS 43 53.00
 CNCB 7.25 23 P 42 41.00 1.1
 S 44 18.00
 LPB 7.46 21 Pc 42 43.00 0.2
 0.8s 59.70nm 5.8mb X
 Z 17s 0.68um 3.9mszx
 CCH 7.59 37 eP 42 49.00 4.4X
 ZOBO 7.68 21 P 42 45.80 -0.3
 i 42 52.90
 LR 45 12.00
 RTPR 7.80 151 e(P)d 42 46.00 -1.2
 RTLL 8.06 165 eP 42 51.60 0.8
 RTCB 8.14 167 eP 42 58.30 6.3X
 CFA 8.38 164 e(P) 42 59.00 3.7X
 RTCV 8.56 166 e(P) 42 38.00 -19.7X
 MDZ 9.49 169 e(P) 43 18.20 7.6X
 PEL 9.57 179 eP 43 35.00 23.3X
 TCA 9.59 145 e(P) 43 07.00 -5.1X
 MRA 9.97 154 e(P) 43 13.20 -3.9X
 SIV 11.93 53 P 43 42.60 -1.5
 PPD 18.15 89 eP 45 03.30 -1.5
 e 46 10.70
 GBA 148.49 103 PKP 00 39.00 2.5X
 HYB 150.81 96 ePKP 00 44.00 4.0X
 S.D. = 1.1 on 14 of 24 obs.

? FEB 27, 1993 13h 01m 33.65±10.87s
 19.325 N ± 82.8km 67.373 W ± 39.7km
 DEPTH = 33.0km (normal)
 MONA PASSAGE (89)

IDE 0.94 186 iP 01 50.30 -0.2
 APR 1.06 145 iP 01 52.00 -0.2
 S 02 05.40
 MGP 1.34 168 iP 01 56.60 0.4
 PORP 1.44 151 iP 01 57.20 -0.5

LPR 1.75 125 iP 02 02.00 -0.2
 CPD 1.88 133 iP 02 04.40 0.3
 S.D. = 0.5 on 6 of 6 obs.

% FEB 27, 1993 13h 41m 14.84±0.87s
 41.177 N ± 8.1km 6.193 W ± 10.8km
 DEPTH = 10.0km (geophysicist)
 PORTUGAL (376)
 mbLg 2.8 (MDD).

EPLA 1.12 176 eP 41 35.47 -0.3
 eS 41 49.20
 ERUA 1.41 330 eP 41 40.62 0.1
 eS 41 58.70
 GUD 1.64 106 eP 41 44.63 0.6
 eS 42 03.00
 EMON 2.41 340 eP 41 55.05 0.1
 eS 42 24.30
 ECR1 3.10 61 eP 42 04.06 -0.7
 S.D. = 0.8 on 5 of 5 obs.

* FEB 27, 1993 15h 20m 34.60±0.68s
 44.843 N ± 11.2km 10.171 E ± 21.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

MME 0.75 150 P 20 49.50 0.0
 eSg 20 54.60
 BDI 0.84 159 P 20 50.90 0.1
 (Sg) 21 01.20
 PII 1.15 167 P 20 56.00 -0.1
 eSg 21 12.00
 TMA 1.56 325 P 21 01.60 -1.0
 VDL 1.72 344 iPc 21 04.50 -0.4
 MMK 1.97 309 ePd 21 09.00 0.4
 LLS 2.19 338 ePd 21 12.60 0.9
 S.D. = 0.7 on 7 of 7 obs.

% FEB 27, 1993 16h 25m 15.35±1.74s
 33.141 S ± 5.4km 70.233 W ± 13.3km
 DEPTH = 12.1 ± 6.8 km
 CHILE-ARGENTINA BORDER REGION (127)
 MD 3.2 (SAN).

FCH 0.19 194 iPd 25 19.97 0.0
 IS 25 22.97
 PEL 0.38 269 iP 25 23.31 0.1
 IS 25 29.53
 SAN 0.47 229 iP 25 25.22 0.1
 PCH 0.53 206 iP+ 25 26.28 0.1
 IS 25 34.34
 JACH 0.55 326 iP+ 25 26.51 0.1
 IS 25 35.05
 ROCH 0.67 284 iP 25 28.69 0.0
 IS 25 36.70
 TACH 0.78 229 iP 25 30.42 0.1
 LCCH 1.17 253 iP 25 37.11 0.2
 IS 25 52.78
 LNV 1.28 230 iP 25 38.59 -0.2
 IS 25 55.52
 S.D. = 0.1 on 9 of 9 obs.

FEB 27, 1993 16h 35m 26.22±0.46s
 24.032 S ± 4.8km 66.990 W ± 9.2km
 DEPTH = 189.1 ± 8.0 km
 4.4mb (2 obs.)
 SALTA PROVINCE, ARGENTINA (129)

SLA 1.53 117 iPd 36 01.50 1.8
 YJA 2.30 37 iPd 36 08.10 0.0
 ANT 3.15 275 iP+ 36 18.80 1.2
 eS 36 55.50
 RTPR 6.26 176 ePc 36 57.30 -0.1
 RTRS 6.50 199 eP 37 02.50 2.0
 CNCB 7.25 352 iPd 37 11.30 0.3
 IS 38 31.50
 RTLL 7.39 190 eP 37 12.00 -0.4
 LPB 7.53 352 Pd 37 13.00 -1.8
 S 38 36.00
 TCA 7.58 164 iP 37 14.10 -1.0
 (S) 38 32.00
 RTCB 7.60 192 eP 37 15.50 0.2
 CFA 7.63 188 e(P) 37 15.10 -0.5
 ZOBO 7.78 352 iPc 37 16.80 -1.5
 0.6s 8.71nm 4.2mb
 S 38 40.00
 RTCV 7.92 190 e(P) 37 18.00 -1.5

MRA 8.42 173 e(P) 37 25.00 -0.9
 ARE 8.63 330 eP 37 29.00 0.0
 iS 38 59.00
 SIV 9.74 36 Pc 37 43.60 0.4
 PPD 14.57 85 eP 38 45.00 0.2
 LMN 69.58 2 eP 46 16.50 0.3
 JAO 77.88 355 eP 47 01.00 -3.0X
 ULM 78.26 342 eP 47 07.50 1.3
 LCCM 80.60 330 eP 47 18.70 -0.3
 FCC 85.49 346 eP 47 45.50 2.2
 YKA 94.16 340 eP 48 22.30 -1.6
 0.6s 2.70nm 4.6mb
 S.D. = 1.2 on 22 of 23 obs.

FEB 27, 1993 18h 08m 56.76±0.33s
 32.333 N ± 6.6km 141.558 E ± 5.5km
 DEPTH = 39.5km (12 depth phases)
 4.7mb (14 obs.) 4.2Msz (1 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT 5.03 328 eP 10 11.00 -0.7
 0.9s 27.73nm 4.6mb
 eS 11 10.00
 MDJ 15.41 326 eP 12 35.00 2.1
 CN2 17.05 317 eP 12 53.00 -0.8
 1.0s 8.00nm 3.8mb
 esP 13 04.00
 SNY 17.17 309 Pc 12 56.00 0.8
 TIY 24.39 291 eP 14 12.40 -0.2
 Z 18s 0.73um 4.2Msz
 E 13s 0.32um
 HHC 25.44 298 P 14 22.40 -0.2
 XAN 27.31 283 eP 14 38.50 -1.2
 0.8s 5.50nm 4.3mb
 pP 14 48.00 34km
 sP 14 51.50
 YAK 30.67 349 eP 15 08.00 -1.5
 1.0s 30.00nm 5.0mb
 LZH 31.28 287 eP 15 17.00 1.6
 1.5s 24.00nm 4.8mb
 Z 13s 0.26um 4.1MszX
 GTA 34.32 294 eP 15 41.00 -0.8
 1.5s 11.00nm 4.6mb
 WMO 43.23 301 P 16 57.00 1.1
 2.0s 13.00nm 4.3mb
 PKI 48.42 280 P 17 37.60 0.0
 KKN 48.45 280 P 17 37.80 0.1
 0.8s 16.00nm 5.1mb
 DMN 48.66 280 P 17 39.60 0.3
 WB2 52.43 189 eP 18 07.30 -0.4
 0.5s 27.20nm 5.5mb
 WRA 52.44 189 P 18 08.10 0.4
 0.5s 10.80nm 5.1mb
 NDI 54.81 284 eP 18 26.00 0.7
 ASPA 56.16 188 eP 18 34.30 -0.6
 0.5s 12.30nm 5.2mb
 GBA 61.08 268 P 19 10.00 0.7
 QUE 62.56 290 eP 19 16.80 -2.5
 MRWA 65.85 204 eP 19 40.90 0.5
 0.4s 2.00nm 4.5mb
 DPW 73.01 44 ePd 20 23.97 -0.4
 i 20 35.88 40km
 SES 75.70 39 eP 20 39.00 -0.8
 pP 20 51.00 40km
 LCCM 77.77 43 ePc 20 51.30 -0.2
 e 21 03.60 41km
 NB2 78.57 338 P 20 54.80 -0.7
 0.9s 4.40nm 4.5mb
 HVU 79.50 47 eP 21 01.68 0.6
 DUG 80.36 48 ePd 21 05.78 0.1
 i 21 18.10 41km
 DAU 81.22 48 eP 21 10.73 0.3
 i 21 22.87 40km
 MSU 81.72 50 eP 21 13.20 0.3
 i 21 25.47 41km
 EMUT 81.84 48 eP 21 13.92 0.4
 e 21 25.92 40km
 SRU 82.43 48 eP 21 16.51 -0.1
 i 21 28.83 41km
 PV09 83.67 48 ePd 21 23.57 0.5
 e 21 35.22 38km
 PV10 83.80 48 eP 21 23.93 0.2
 e 21 36.02 40km
 PV08 83.93 48 eP 21 24.83 0.4
 e 21 36.61 39km
 CLL 85.23 330 iP 21 30.30 0.1
 1.1s 10.00nm 4.9mb

S.D. = 0.9 on 35 of 35 obs.

& FEB 27, 1993 18h 31m 58.82s
58.341 N 154.152 W
DEPTH = 72.8km
2.9mb (1 obs.)
ALASKA PENINSULA
<AEIC> (12)

MCNL	0.85	354	iP	32	15.08	-0.8
			S	32	27.69	
KDC	1.06	123	P	32	17.60	-0.9
			S	32	31.50	
AUI	1.07	20	iP	32	17.57	-1.0
			eS	32	32.21	
AUH	1.09	19	iP	32	18.10	-0.8
			S	32	33.06	
AUE	1.10	21	iP	32	18.28	-0.7
			S	32	32.02	
AUL	1.11	19	eP	32	18.31	-0.8
			eS	32	32.45	
PDB	1.45	359	iP	32	22.36	-1.3
			iS	32	40.21	
INW	1.81	16	iP	32	27.21	-1.4
			eS	32	49.52	
INE	1.81	18	iP	32	27.35	-1.4
			eS	32	49.12	
CNPM	1.92	51	eP	32	28.16	-1.9
BRK	2.21	48	eP	32	32.56	-1.5
RS1	2.24	18	iP	32	33.20	-1.4
RS2	2.25	18	iP	32	33.24	-1.4
RSO	2.24	18	iP	32	33.20	-1.5
RDW	2.26	17	iP	32	33.42	-1.4
NCT	2.31	15	iP	32	34.15	-1.4
DFR	2.38	18	iP	32	34.94	-1.5
RDT	2.41	21	eP	32	35.42	-1.4
NKA	2.83	30	iP	32	42.14	-0.4
SVW	2.87	346	P	32	41.70	-1.6
SLKM	2.96	41	eP	32	41.40	-3.1
SEW	2.99	52	eP	32	41.43	-3.4
CKL	3.01	17	iP	32	43.43	-1.8
CKT	3.03	18	iP	32	43.60	-1.9
SPU	3.04	20	iP	32	43.50	-2.1
CKN	3.06	18	eP	32	44.22	-1.6
BGL	3.06	16	iP	32	44.46	-1.5
CP2	3.09	17	iP	32	44.73	-1.7
CPAM	3.09	18	eP	32	44.67	-1.7
CRP	3.10	18	eP	32	44.80	-1.8
MPA	3.26	47	eP	32	46.09	-2.5
SUA	3.57	27	iP	32	50.58	-2.5
PTE	3.63	44	eP	32	50.74	-3.0
PMS	3.72	37	P	32	52.50	-2.6
SKT	3.88	19	eP	32	54.48	-2.8
PWA	3.95	31	P	32	56.00	-2.3
PLRM	4.12	36	eP	32	56.74	-3.9
YKA	19.73	61	eP	36	21.20	-3.5
	0.5s		0.30nm			2.9mb
	38 obs.		associated			

FEB 27, 1993 18h 38m 10.08 ± 0.16s
49.842 N ± 3.5km 156.193 E ± 2.5km
DEPTH = 34.9km (16 depth phases)
5.4mb (108 obs.) 4.9MsZ (36 obs.)
KURIL ISLANDS (221)
Mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 38S, 80C
Centroid Location:
Origin Time 18:38:16.8 0.3
Lat 49.67N 0.04 Lon 156.54E 0.04
Dep 47.5 2.5 Half-duration 1.2
Moment Tensor: Scale 10**17 Nm
Mrr= 1.44 0.05 Mtt=-0.28 0.07
Mff=-1.16 0.06 Mrt= 0.49 0.09
Mrf= 0.55 0.10 Mtf=-0.94 0.07
Principal Axes:
T Val= 1.61 Plg=77 Azm=326
N 0.30 5 214
P -1.91 12 123
Best Double Couple: Mo=1.8*10**17
NP1: Strike=206 Dip=33 Slip= 81
NP2: 37 57 96

SKR	0.83	356	iPnd	38	29.40	4.1X
			iS	38	42.40	
PET	3.53	25	iPnd+	39	07.00	3.2X

Z	20s	10.30um				
		eS	39	48.00		
KUR	7.28	234	ePn	40	00.50	3.8X
Z	14s	5.40um				
N	14s	8.10um				
E	14s	8.10um				
		iS	41	23.00		
SHO	8.78	231	iPnc	40	14.60	-2.9X
Z	16s	2.00um				
OKH	9.03	299	ePnd	40	24.00	3.0X
Z	17s	8.90um				4.2MsZ
YSS	9.40	258	ePnd-	40	29.60	3.6X
Z	17s	2.00um				
N	17s	2.00um				
E	17s	2.00um				
		eS	42	20.00		
MGD	10.73	345	iPnc+	40	45.50	1.2
Z	14s	4.50um				
N	14s	4.40um				
E	14s	1.40um				
		iS	42	55.00		
SMY	11.58	69	eP	40	52.51	-3.3X
SEY	13.26	352	iPnc	41	22.00	3.9X
		eS	43	57.00		
VLA	17.99	257	iPc	42	11.00	-7.9X
		e	45	33.00		
MAT	18.61	231	eP	42	27.00	0.4
	0.7s	52.05nm				4.8mb
Z	20s	0.71um				4.1MsZ
		eS	45	51.00		
MDJ	18.76	264	eP	42	27.50	-0.8
	1.4s	77.00nm				4.7mb
Z	24s	5.29um				4.1MsZ X
N	17s	2.60um				
E	19s	5.11um				
		S	45	56.00		
YAK	19.03	320	iPc	42	31.00	-0.4
	1.1s	400.00nm				5.6mb
Z	20s	5.40um				4.4MsZ
N	20s	2.10um				
E	20s	2.10um				
		iS	46	05.00		
CN2	21.79	266	eP	42	58.00	-2.6
	0.8s	11.00nm				4.3mb X
Z	22s	3.79um				4.8MsZ
N	14s	1.01um				
E	14s	1.15um				
		eP	43	06.00	29km	
ILT	21.98	25	ePd	43	00.50	-1.8
	1.1s	310.00nm				5.6mb
Z	18s	2.20um				4.6MsZ
N	20s	0.90um				
E	18s	0.60um				
		i	43	26.20	128kmX	
		iS	47	00.00		
SNY	23.95	263	Pc	43	20.00	-1.7
Z	21s	3.31um				4.8MsZ
N	18s	2.38um				
E	18s	2.62um				
		eS	47	30.00		
TIK	25.16	340	iPc	43	32.00	-1.1
	1.0s	180.00nm				5.6mb
Z	16s	2.00um				4.7MsZ X
		i	43	30.00	21kmX	
		i	44	16.00		
		e	54	30.00		
BOD	25.68	304	eP	43	38.00	-0.1
	1.4s	80.00nm				5.1mb
CIT	26.66	291	eP	43	48.10	0.8
		e	44	03.00	62kmX	
DL2	26.79	259	eP	43	45.00	-3.5X
Z	15s	1.18um				4.6MsZ X
N	12s	1.33um				
TTA	28.76	45	eP	44	05.37	-0.8
	0.9s	12.05nm				4.6mb
SVW	28.86	49	eP	44	06.99	-0.1
	0.9s	32.94nm				5.0mb
		e	44	17.38	38km	
BJI	29.66	266	eP	44	13.50	-0.9
Z	22s	2.46um				4.8MsZ
E	16s	1.24um				
IMA	30.10	39	ePc	44	17.63	-0.7
	0.7s	15.66nm				4.9mb
BRW	30.27	28	eP	44	19.63	0.1
RSO	30.27	50	eP	44	19.82	-0.1
CP2	30.49	48	(P)	44	22.04	0.2
CRP	30.53	48	eP	44	22.17	0.0

SLKM	31.52	50	eP	44	29.57	-1.1
PMS	31.79	48	eP	44	32.50	-0.5
PMR	31.97	47	P	44	40.00	5.5X
Z	21s	1.14um				4.5MsZ
IRK	32.13	295	ePc	44	35.00	-1.1
	1.4s	17.00nm				4.7mb
Z	18s	3.12um				5.0MsZ
N	16s	1.03um				
E	20s	2.63um				
		e	44	50.00	61kmX	
		e	45	46.50		
		e	47	23.50		
		e	52	08.00		
SSE	32.16	248	P+	44	36.00	-0.5
	0.8s	5.00nm				4.5mb
Z	20s	1.70um				4.7MsZ
N	16s	1.00um				
E	16s	0.50um				
		S	49	48.00		
		sS	50	08.00		
		S	51	48.00		
HHC	32.21	271	eP	44	36.00	-1.0
	1.0s	19.00nm				4.9mb
Z	19s	4.17um				5.1MsZ
N	15s	1.51um				
E	15s	1.97um				
FBA	32.47	41	iPc	44	38.71	-0.2
	0.8s	22.02nm				5.1mb
NJ2	32.90	251	eP	44	41.00	-1.9
Z	20s	1.18um				4.6MsZ
N	14s	0.78um				
E	14s	1.40um				
		S	49	55.00		
ZAK	33.34	292	iPc	44	46.50	0.0
	1.3s	30.00nm				5.0mb
		e	45	01.70	61kmX	
BTO	33.34	272	eP	44	46.00	-0.8
N	17s	1.55um				
E	17s	2.63um				
TIY	33.38	266	eP	44	46.00	-1.1
Z	22s	2.20um				4.8MsZ
N	15s	0.92um				
KLU	33.51	47	eP	44	47.64	-0.4
MOY	34.27	295	eP	44	54.10	-0.5
	1.3s	40.00nm				5.2mb
BALM	35.28	48	eP	45	03.38	0.0
WHN	36.73	254	Pc	45	16.00	0.4
N	20s	0.64um				
E	20s	1.62um				
NRI	37.03	327	iPc	45	15.80	-2.0
	1.0s	72.00nm				5.5mb
		e	45	28.00	45km	
		e	46	49.00		
		ePPP	47	05.00		
		e	47	38.00		
		eS	50	58.00		
		e	51	16.00		
XAN	37.87	264	eP	45	25.00	-0.3
	0.7s	3.70nm				4.4mb X
Z	20s	2.42um				5.0MsZ
N	14s	1.39um				
E	12s	0.77um				
		pP	45	35.00	34km	
		sP	45	38.50		
		PP	46	54.00		
		PcP	47	41.20		
		eS	51	14.00		
		SS	53	48.00		
		ScS	55	29.00		
UER	38.33	297	iPc	45	28.00	-0.8
	1.2s	34.00nm				5.1mb
LZH	39.89	270	P	45	42.00	-0.3
	1.6s	55.00nm				5.1mb
Z	24s	3.19um				5.1MsZ X
E	15s	1.28um				
GTA	40.57	277	Pc	45	47.50	-0.3
	1.5s	43.00nm				5.0mb
Z	16s	6.00um				5.5MsZ X
E	16s	2.43um				
		PP	47	26.00		
		PcS	51	39.00		
		SS	54	50.00		
ELT	42.04	303	eP	45	57.10	-2.3
	1.1s	72.00nm				5.3mb
Z	13s	7.00um				

27d 18h

CVP	42.29	233	ePc	46 02.00	0.1	DMN	57.48	275	P	47 58.00	-0.3		1.4s	12.00nm	4.7mb			
	1.0s	135.00nm			5.6mb		0.6s	42.00nm			5.7mb		KSB	72.24	350	eP	49 33.00	0.0
GZH	42.76	247	Pd	46 06.80	1.1	FCC	57.55	36	ePc	48 00.40	2.4		GBA	72.49	270	Pc	49 36.00	0.8
Z	16s	1.19um			4.9MszX	LCCM	58.02	55	eP	48 01.20	-0.5		EEO	72.65	36	eP	49 37.50	1.8
		S		52 26.00		KHT	58.07	254	iPc	48 03.10	0.9		WMOK	72.90	56	eP	49 36.72	-0.7
NVS	42.99	306	iPc	46 06.50	-0.8	PTI	59.69	58	eP	48 13.60	0.2			1.0s	21.44nm		5.1mb	
	1.5s	123.00nm			5.4mb	TNP	60.10	65	eP	48 15.40	-0.9		MEO	72.97	56	iPc	49 37.40	-0.4
		e		46 17.00	36km		1.0s	13.92nm			5.0mb		EKA	73.78	348	Pd	49 42.20	0.1
		i		47 56.70		BW06	61.29	57	ePc	48 23.54	-0.9			0.6s	20.10nm		5.3mb	
		e		52 31.00			1.3s	37.54nm			5.4mb		UZH	74.19	330	eP	49 45.80	1.3
CD2	43.21	264	eP	46 10.20	0.8	TPNV	61.43	66	eP	48 24.44	-0.9			1.0s	26.00nm		5.2mb	
	Z	22s		2.04um	5.0Msz		0.8s	12.10nm			5.1mb				e		49 54.70	29km
	E	14s		1.12um		KAF	61.48	336	iP	48 23.80	-1.3				e		50 00.00	
		eS		52 32.70			0.7s	9.60nm			5.0mb		SLM	74.27	48	P	49 50.00	4.8X
BAG	44.01	234	ePc	46 16.00	-0.1	NDI	61.79	282	eP	48 26.80	-0.8		Z	19s	0.60um		4.9Msz	
GYA	44.40	257	iPc	46 20.00	0.8	DAU	61.96	60	eP	48 29.02	0.0		SPC	74.34	332	eP	49 46.70	1.0
	1.0s	21.00nm			4.9mb	EMUT	62.61	60	(P)	48 33.34	0.0		CLL	74.46	337	iP	49 45.40	-0.7
	Z	22s		0.89um	4.6Msz	MSU	62.73	62	eP	48 33.44	-0.6			1.3s	51.00nm		5.4mb	
	N	18s		2.22um		ULM	62.85	43	eP	48 36.50	2.1		FVM	74.69	49	eP	49 46.13	-1.6
	E	18s		1.91um		PEC	62.97	69	(P)	48 34.32	-1.1			0.6s	23.43nm		5.4mb	
		S		52 48.00			1.0s	19.21nm			5.2mb		Z	19s	1.23um		5.2Msz	
WMQ	45.76	290	P	46 29.00	-0.8	MOS	63.04	326	eP	48 34.00	-1.5		WTS	75.26	341	eP	49 50.50	-0.2
	1.2s	22.00nm			5.0mb	Z	21s	2.10um			5.3Msz			0.7s	15.10nm		5.1mb	
	Z	26s		2.08um	5.0MszX			e		48 50.00	59kmX		PRU	75.27	336	Pc	49 51.00	0.2
	N	14s		1.78um		SRU	63.26	60	iPc	48 37.03	-0.5			1.4s	30.10nm		5.1mb	
		pP		46 38.50	32km			e		48 48.00	36km		Z	20s	1.50um		5.3Msz	
		PcP		48 06.00		NUR	63.27	336	iP	48 35.00	-1.9				e		49 57.20	20kmX
		PcS		52 00.00			0.5s	4.30nm			4.8mb		VRAC	75.31	334	eP	49 51.80	0.8
		eS		53 16.00		RSSD	63.28	53	ePd	48 36.98	-0.6			2.1s	499.70nm		6.1mb	
HON	45.87	111	P	46 40.00	9.3X		0.8s	34.69nm			5.5mb		KER	75.35	306	iPc	49 51.50	-0.2
	Z	21s		0.86um	4.7Msz	Z	21s	0.69um			4.8Msz		MOX	75.42	338	eP	49 51.70	0.0
PLP	46.37	225	ePc	46 35.50	0.8			S		57 10.71				2.0s	114.00nm		5.5mb	
YKA	47.22	39	eP	46 41.70	0.8	OBN	63.90	326	eP	48 39.50	-1.7		Z	20s	0.80um		5.0Msz	
	0.8s	49.80nm			5.6mb		1.0s	18.00nm			5.1mb		DMU	75.66	350	iPc	49 53.00	0.0
RES	47.24	20	ePc	46 42.50	1.6	Z	22s	1.70um			5.2Msz			0.8s	182.00nm		6.1mb	
	1.0s	16.00nm			5.0mb	E	22s	1.10um					MLR	75.67	326	eP	49 53.00	-0.4
KMI	47.83	259	Pd	46 47.00	0.5			e		48 48.00	27km		MIAR	75.80	53	iPc	49 53.58	-0.5
	Z	16s		1.20.00nm	5.6mb			e		49 16.00				0.8s	18.67nm		5.1mb	
	N	16s		1.90um		PV09	64.47	60	eP	48 44.90	-0.6		ASPA	75.81	201	iPc	49 53.90	-0.3
	E	16s		1.20um		IPM	64.59	245	ePc	48 46.80	0.6			1.0s	29.50nm		5.2mb	
		pP		46 58.50	41km	PV10	64.60	60	ePc	48 46.28	-0.1		ELC	75.82	48	P	49 53.83	-0.3
		PcP		48 14.50				e		48 57.04	35km		SVST	76.01	316	eP	49 56.00	0.7
		S		53 42.00		PV08	64.68	60	eP	48 46.28	-0.7		KAS	76.08	319	iPd	49 56.60	0.9
QIZ	47.95	247	eP	46 49.30	2.1	AKU	64.72	357	iP	48 47.40	1.1		OLY	76.12	51	P	49 54.94	-1.0
BMW	51.39	61	(P)	47 13.73	0.4		0.9s	70.59nm			5.8mb		RSNY	76.13	35	eP	49 54.85	-0.9
RMW	51.62	59	(P)	47 15.59	0.5	KGM	65.34	241	eP	48 52.50	1.5			0.9s	26.84nm		5.2mb	
SHW	52.11	61	(P)	47 20.77	1.9	UPP	65.61	338	iP	48 51.10	-1.0		Z	21s	0.34um		4.6Msz	
PRZ	52.11	294	iP	47 19.00	0.0	GOL	65.70	57	P	49 00.00	6.6X		SRO	76.16	332	eP	49 56.40	0.6
		e		57 06.00		Z	19s	0.43um			4.7Msz		ZST	76.17	333	iP	49 57.30	1.4
LSA	52.17	273	Pd	47 20.80	0.9	GLD	65.74	57	P	49 00.00	6.4X		CTK	76.19	318	eP	49 57.80	1.4
	0.8s	7.00nm			4.7mb	Z	18s	0.67um			4.9Msz		DLF	76.21	349	iPc	49 56.20	0.2
SVE	52.99	317	ePc	47 23.00	-2.1	NB2	65.94	342	P	48 52.30	-2.0			0.8s	292.00nm		6.3mb	
	1.7s	60.00nm			5.3mb		0.8s	22.10nm			5.3mb		DCN	76.25	350	iPc	49 56.30	0.0
DPW	53.35	57	eP	47 27.52	-0.4	NAO	66.21	342	P	48 52.79	-3.2X			0.8s	169.00nm		6.1mb	
DAG	53.62	359	eP	47 27.20	-2.2	HFS	66.25	341	eP	48 54.50	-1.8		CBM	76.26	30	iPc	49 56.05	-0.4
	0.6s	28.00nm			5.4mb		0.4s	5.70nm			5.0mb			0.8s	31.92nm		5.4mb	
FRU	54.12	296	eP	47 33.20	-0.5	Z	17s	713.00um			7.9MszX		Z	20s	0.62um		4.9Msz	
	1.8s	60.00nm			5.3mb			LR		12 58.00		RMO	76.27	187	iPc	49 57.00	0.3	
	Z	19s		4.00um	5.5Msz	OUE	67.13	290	eP	48 59.60	-2.9X			1.0s	30.00nm		5.2mb	
	N	19s		2.50um		MAIO	67.16	299	eP	49 03.00	0.5		KHC	76.31	336	P	49 57.00	0.3
	E	19s		3.80um				eS		58 08.00				1.1s	23.00nm		5.1mb	
		e		47 43.00	32km	JAO	67.87	30	eP	49 05.50	-1.1		Z	20s	1.30um		5.2Msz	
		e		48 37.80		TUC	67.88	66	P	49 20.00	12.9X		N	20s	1.00um			
		e		49 30.50		Z	20s	0.26um			4.5Msz		E	20s	1.10um			
ARU	54.13	317	iPc	47 32.00	-1.5	ALO	68.50	61	eP	49 10.68	-0.4				i		50 02.50	18km
	1.0s	100.00nm			5.8mb		0.8s	5.78nm			4.7mb				e		50 12.00	
		e		48 37.00	301kmX	Z	21s	0.55um			4.7Msz				e		51 34.10	
LOE	54.13	253	eP	47 34.00	0.1			e		49 21.65	36km		GRF	76.40	337	iPc	49 57.30	0.1
CHTO	54.83	257	iPc	47 39.40	0.4	HYB	68.96	272	ePc	49 13.50	-0.4			1.5s	102.00nm		5.6mb	
	1.2s	153.82nm			5.9mb		1.0s	70.00nm			5.7mb		Z	22s	0.80um		5.0Msz	
LGPM	54.96	66	eP	47 39.98	0.0	PYA	69.85	315	eP	49 18.00	-1.0		GEC2	76.53	336	P	50 09.50	11.4X
LBFM	55.24	65	eP	47 42.03	-0.1	KIV	70.08	315	eP	49 20.60	0.1		ENN	76.60	341	iPd	49 58.90	0.6
WDC	55.34	66	eP	47 42.41	-0.1	CTA	70.17	190	iPc	49 20.00	-1.0		BRS	76.95	183	eP	50 02.00	1.6
	1.2s	25.10nm			5.1mb		1.0s	15.00nm			5.0mb		BZS	77.06	329	eP	50 00.00	-0.9
KSH	55.42	292	eP	47 43.40	0.1	POO	71.18	277	iP	49 28.80	1.4		SNF	77.18	342	Pd	50 02.00	0.5
	0.8s	20.00nm			5.2mb	ACO	71.23	55	iPc	49 26.80	-0.7		BNH	77.27	33	P	50 02.50	0.4
	Z	20s		2.49um	5.3Msz	GRS	71.78	310	eP	49 31.00	0.1		MIM	77.45	31	P	50 03.77	0.7
SES	55.56	51	ePc	47 42.90	-1.2		1.4s	40.00nm			5.2mb		DOU	77.51	342	Pc	50 03.40	0.1
		pP		47 58.00	56kmX	N	18s	0.44um				WLF	77.60	341	iPc	50 05.55	1.8	
BDT	55.96	256	eP	47 47.50	0.3	E	18s	0.65um							i		50 13.92	27km
	1.1s	49.90nm			5.5mb	WB2	72.12	202	eP	49 31.40	-1.4		BBTK	77.78	319	iP	50 05.50	0.4
		e		47 55.50			1.0s	22.10nm			5.1mb		BHG	77.78	336	eP	50 06.00	1.1
NST	56.44	254	eP	47 55.50	4.9X			i		49 43.20	40km		FUR	77.79	337	eP	50 04.80	-0.2
ORV	56.61	67	eP	47 50.60	-1.1	WRA	72.13	202	P	49 32.50	-0.3		LANF	77.87	339	P	50 05.41	0.0
KKN	57.25	275	P	47 56.20	-0.4													

	1.0s	117.00nm	5.9mb	THE	80.97	326 eP	50	20.96	-1.2	MRWA	86.43	214 eP	50	50.00	0.1	
EYL	78.26	321 eP	49 58.00	2kmX	ORX	80.97	338 P	50	22.47	0.2	PZI	86.97	330 P	50	52.81	0.0
LMN	78.26	28 ePc	50 10.50	3.0X	ORO	80.98	338 P	50	22.50	0.2		0.8s	81.60nm			6.0mb
STR	78.26	339 P	50 08.14	0.7	BGF	81.24	342 iPc	50	24.10	0.6	TOO	87.55	188 eP	50	56.30	1.1
WATA	78.48	336 iPc	50 09.20	0.3		1.1s	77.15nm		5.6mb			0.8s	18.00nm			5.4mb
		i	50 09.90	2kmX	RSL	81.24	339 P	50	24.44	0.7	ZOBO	131.09	63 PKPc	57	19.30	-1.4
WLS	78.51	339 P	50 08.82	-0.1	PAIG	81.33	325 ePc	50	23.34	-0.7		1.0s	8.00nm			
CDF	78.53	339 P	50 09.07	0.0	LSD	81.34	339 P	50	25.49	1.1	Z	24s	0.25um			4.8MsZx
WTTA	78.53	336 iPc	50 10.10	0.8	LPL	81.38	339 iPc	50	25.70	1.1			eLR	40	00.00	
	1.0s	98.00nm		5.8mb	RSM	81.39	334 P	50	25.30	1.0	LPB	131.30	63 PKPc	57	22.00	1.2
PTJ	78.58	333 iPd	50 09.80	0.4	LPG	81.39	339 iPc	50	26.00	1.3	SIV	134.77	55 iPKPc	57	18.40	-8.5X
MOTA	78.60	337 iPc	50 09.60	0.0		0.8s	107.45nm		5.9mb			i		57	32.00	
	1.1s	98.50nm		5.7mb	BHL	81.40	314 P	50	24.00	-0.7	BAO	140.64	38 ePKP	57	33.20	-4.7X
		i	50 10.40	3kmX	FNA	81.41	327 ePc	50	23.96	-0.6		i		57	40.90	
		i	50 20.20		BOB	81.42	337 Pc	50	25.20	0.6	TCA	144.48	74 iPKPd	57	41.60	-2.5
ZAG	78.65	333 iPc	50 09.40	-0.2	SFI	81.57	335 Pc	50	25.90	0.7	PPD	144.79	48 ePKP	57	42.00	-2.8X
SOTA	78.69	336 iPc	50 10.80	0.8	CSS	81.59	316 eP	50	25.60	0.0		e		57	43.60	
	1.3s	131.00nm		5.8mb	RSP	81.60	338 P	50	25.40	-0.2						S.D. = 0.9 on 292 of 321 obs.
		i	50 23.50	43km	LIT	81.61	326 ePc	50	24.28	-1.3						FEB 27, 1993 19h 23m 28.26±0.33s
LIBD	78.70	339 P	50 10.18	0.3	MAF	81.62	342 iPc	50	26.60	1.1						3.254 S ± 5.8km 130.450 E ± 8.3km
ECH	78.74	339 P	50 10.01	-0.2		0.9s	127.45nm		5.9mb							DEPTH = 33.0km (normol)
RBL	78.77	335 Pc	50 09.50	-0.9	MME	81.63	336 Pc	50	27.20	1.3						4.8mb (12 obs.)
FVI	78.85	335 P	50 10.20	-0.5	TCF	81.63	342 iPc	50	26.40	0.8						SERAM, INDONESIA (272)
SLE	78.85	338 ePd	50 11.10	0.3		0.9s	85.85nm		5.8mb		MTN	9.55	176 eP	25	44.30	-2.4
FEL	78.86	339 P	50 10.69	-0.3	CEH	81.64	42 P	50	40.00	14.2X		0.4s	196.00nm			6.7mb X
LJU	78.86	334 e(P)	50 10.50	-0.4	Z	21s	0.45um		4.8MsZ			eS		27	51.00	
HRV	78.98	34 P	50 20.00	8.5X	PGD	81.64	335 Pc	50	27.30	1.4	MDG	15.42	98 eP	27	04.70	-0.4
	Z	20s	0.54um		ARV	81.65	334 Pc	50	26.00	0.3	WRA	17.02	167 P	27	29.00	3.5X
VITF	79.00	340 P	50 11.72	0.1	MFF	81.77	344 iPc	50	27.30	1.0		0.7s	7.50nm			3.9mb
VOY	79.06	334 eP	50 10.90	-1.1		0.9s	101.90nm		5.8mb		WB2	17.02	167 eP	27	16.90	-8.6X
		i	50 17.90	22kmX	BDI	81.78	336 P	50	26.70	0.3		0.3s	5.20nm			4.1mb
OGA	79.06	336 iPc	50 13.30	1.1	LSF	81.80	343 iPc	50	27.10	0.7		eS		30	16.50	
	1.0s	47.00nm		5.4mb		1.0s	140.40nm		5.9mb		ASPA	20.57	171 iPc	28	06.20	-0.8
MOF	79.09	339 P	50 11.79	-0.4	CRE	81.81	335 Pc	50	27.20	0.5		0.6s	314.50nm			5.9mb X
HAU	79.12	340 iPc	50 12.40	0.1	BNI	81.83	339 Pc	50	28.30	1.5		eS		31	47.80	
	1.0s	54.00nm		5.5mb	PCP	81.86	337 P	50	26.73	-0.1	CVP	22.50	338 eP	28	29.60	3.2X
Z	21s	0.50um		4.8MsZ	FIR	81.86	335 eP	50	28.00	1.3	CTA	22.75	139 iPc	28	29.00	0.0
ZLA	79.14	338 ePd	50 13.20	0.8	GRN	81.87	339 P	50	28.11	1.2		i		28	35.50	
VBY	79.15	333 iP	50 12.80	0.4	HRI	81.88	313 iPc	50	27.90	0.7		e		30	21.00	
		iPcP	50 20.50		BHB	81.89	338 P	50	26.41	-0.6		eS		32	35.00	
CEY	79.17	334 eP	50 11.50	-1.1	RRL	81.93	339 P	50	28.47	1.0	MEEK	25.87	205 eP	28	57.50	-1.4
BSF	79.18	340 iPc	50 12.60	-0.1	CKI	82.03	337 Pc	50	27.40	-0.3	KGM	27.62	281 eP	29	18.00	3.0X
	1.1s	45.40nm		5.4mb	COLF	82.06	341 P	50	28.75	0.9	MRWA	29.25	207 eP	29	29.70	0.2
KCT	79.25	322 iP	50 12.90	-0.2	PPCY	82.10	316 eP	50	26.80	-1.4	STK	30.34	161 iPd	29	39.00	-0.3
BNT	79.33	322 iP	50 12.90	-0.6	SSB	82.10	340 P	50	28.90	0.8		0.4s	5.10nm			4.7mb
BBS	79.37	339 P	50 13.80	0.2	ASS	82.12	334 P	50	28.50	0.2	IPM	30.41	285 ePd	29	42.10	2.0
TRI	79.39	334 ePd	50 13.30	-0.4	DOI	82.21	338 Pc	50	27.20	-1.5	KLB	30.62	202 eP	29	40.80	-0.9
OSS	79.45	337 ePd	50 15.30	1.0	PZZ	82.25	338 P	50	28.15	-0.8	MUN	31.56	204 eP	29	49.90	0.0
LLS	79.57	338 iPd	50 15.80	0.9	FIN	82.25	337 P	50	27.82	-1.1	CMS	31.60	154 eP	29	50.00	-0.3
ALN	79.60	324 ePc	50 14.48	-0.4	ROB	82.26	338 P	50	28.65	-0.3	BRS	32.11	141 iPc	29	55.00	0.1
LOMF	79.63	339 P	50 14.94	-0.2	ENR	82.43	338 P	50	28.47	-1.4	ARMA	33.63	146 eP	30	10.00	1.8
CTI	79.66	336 Pc	50 15.10	-0.2	STV	82.44	338 P	50	28.65	-1.3		1.0s	14.00nm			4.8mb
NAV	79.70	43 P	50 15.80	0.2	AQU	82.57	333 P	50	33.60	3.0X	BWA	35.23	154 iPc	30	23.30	1.5
FLN	79.75	345 iPc	50 15.80	0.2	IMI	82.61	337 P	50	30.89	0.1	BFD	35.54	163 eP	30	25.10	0.8
	1.0s	191.20nm		6.0mb	AGG	82.62	326 eP	50	28.00	-2.9X	CAN	36.24	154 eP	30	30.90	0.5
Z	19s	0.63um		5.0MsZ	SAOF	82.62	338 P	50	31.06	0.2	TOO	36.83	160 eP	30	36.90	1.6
VDL	79.81	337 iPd	50 17.50	1.3	AUTN	82.65	338 P	50	31.06	-0.1	CHTO	37.98	306 eP	30	46.70	1.6
LDF	79.85	344 iPc	50 16.30	0.2	TOUF	82.67	338 P	50	31.67	0.4	MAT	40.25	10 (P)	31	00.00	-3.7X
	0.9s	92.05nm		5.8mb	RJF	82.71	342 iPc	50	32.00	0.8		0.7s	8.22nm			4.6mb
ARMA	80.01	184 eP	50 17.70	0.5		1.0s	96.40nm		5.8mb		TIY	44.06	339 Pd	31	34.70	-0.2
	1.0s	18.00nm		5.0mb	Z	22s	0.82um		5.1MsZ		SNY	45.30	353 Pc	31	43.00	-1.7
GRR	80.17	345 iPc	50 18.40	0.6	S8F	82.77	338 P	50	31.78	0.2	LZH	46.37	330 eP	31	57.50	4.0X
	0.9s	263.40nm		6.2mb	AURF	82.77	338 P	50	31.78	0.1		1.5s	27.00nm			5.0mb
TMA	80.31	338 iPc	50 19.30	0.4	CAF	82.96	342 iPc	50	33.80	1.2		pP		32	03.50	20kmX
SRS	80.32	326 ePc	50 18.20	-0.6		1.0s	116.00nm		5.9mb		CN2	47.06	355 eP	31	57.20	-1.4
SAL	80.36	336 P	50 18.90	0.1	SDI	83.04	333 P	50	32.70	-0.3		0.8s	3.80nm			4.4mb
MDI	80.41	337 Pc	50 18.60	-0.5	LFF	83.21	343 iPc	50	34.90	1.1		eP		32	05.00	26kmX
KNT	80.53	326 ePc	50 19.85	0.0		0.9s	119.25nm		6.0mb		HHC	47.16	340 P	32	00.00	0.3
LPF	80.55	345 iPc	50 20.50	0.7	FRF	83.25	338 iPc	50	34.30	0.3	GTA	50.96	329 eP	32	29.00	0.0
	1.1s	206.10nm		6.0mb		1.2s	98.50nm		5.8mb			1.5s	14.00nm			4.7mb
VAI	80.56	338 Pc	50 19.80	-0.1	LPO	83.37	342 iPc	50	35.70	1.1	PKI	53.11	308 P	32	45.20	-0.4
MMK	80.59	338 ePd	50 21.70	1.3		0.9s	102.20nm		5.9mb		KKN	53.31	308 P	32	46.80	-0.1
LBF	80.60	341 iPc	50 20.30	0.1	LRG	83.42	338 iPc	50	35.60	0.8		0.6s	15.00nm			5.2mb
	1.0s	36.60nm		5.3mb		0.8s	99.95nm		6.0mb		DMN	53.36	308 P	32	47.40	0.0
HYF	80.60	342 iPc	50 21.00	0.8	DSI	83.46	312 iPc	50	35.90	0.6		0.6s	18.00nm			5.2mb
SSF	80.62	341 iPc	50 20.60	0.3	PGF	83.61	336 P	50	36.44	0.4	GKN	53.91	308 P	32	51.40	0.1
	1.0s	59.00nm		5.5mb	ORI	83.72	330 P	50	37.80	1.3		0.6s	28.00nm			5.5mb
SOH	80.67	326 eP	50 19.96	-0.7	TDS	84.12	330 P	50	38.60	0.1	HYB	55.15	294 eP	33	00.00	-0.3
DIX	80.69	339 ePd	50 22.40	1.4	GRI	84.86	330 P	50	42.75	0.5	GBA	55.19	289 P	33	00.00	-0.6
EMS	80.81	339 iPd	50 22.60	1.1		0.6s	35.20nm		5.7mb		WMO	60.55	326 P	33	38.00	0.1
OUR	80.86	325 ePc	50 21.08	-0.5	SAGI	84.92	312 iPc	50	43.20	0.5		pP		33	45.00	23kmX
GRG	80.89	326 ePc	50 21.12	-0.7	LESF	84.94	342 P	50	43.29	0.7	YAK	65.09	360 eP	34	07.00	-0.5
AVF	80.92	341 iPc	50 22.40	0.6	GRBF	85.07	342 P	50	43.66	0.4		0.8s	30.00nm			5.4mb
	1.1s	133.35nm		5.8mb	EPF	85.13	342 iPc	50	44.10	0.6	QUE	69.05	304 eP	34	30.60	-2.9X
SMF	80.95	341 iPc														

27d 19h

CNCB 153.00 138 PKP 43 27.00 9.1X
 LPB 153.12 138 (PKP) 43 25.00 7.1X
 ZOBO 153.27 137 ePKP 43 26.00 7.6X
 SIV 157.74 150 ePKP 43 30.00 6.5X
 S.D. = 1.0 on 32 of 43 obs.

% FEB 27, 1993 19h 28m 28.52± 2.89s
 38.939 N ±21.8km 23.535 E ±15.8km
 DEPTH = 33.0km (normal)

GREECE (364)
 ML 2.7 (THE).

AGG 0.94 275 ePg 28 45.50 0.0
 eSg 28 58.42
 PAIG 0.99 6 ePg 28 45.89 -0.2
 eSg 28 59.14
 LIT 1.41 325 ePb 28 52.25 0.1
 eSb 29 10.86
 OUR 1.44 14 ePbc 28 52.62 0.2
 THE 1.75 346 ePb 28 57.34 0.4
 eSb 29 18.38
 SOH 1.89 356 ePb 28 58.90 -0.1
 eSb 29 21.42
 SRS 2.18 1 ePn 29 02.86 -0.3
 eSn 29 28.66
 GRG 2.20 337 ePn 29 03.26 -0.1
 eSn 29 28.94
 KNT 2.27 348 ePnc 29 04.85 0.3
 eSn 29 31.02
 FNA 2.48 319 ePn 29 07.26 -0.3
 eSn 29 36.82

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

? FEB 27, 1993 20h 29m 43.00± 0.91s
 46.878 N ±17.2km 151.093 E ±16.3km
 DEPTH = 33.0km (normal)
 4.6mb (23 obs.)

KURIL ISLANDS (221)

YAK 19.46 329 eP 34 11.90 2.4
 1.1s 40.00nm 4.6mb
 RES 51.15 18 eP 38 46.50 2.3
 1.0s 4.00nm 4.3mb
 YKA 51.65 36 eP 38 48.50 0.4
 0.4s 1.10nm 4.2mb
 KKN 54.09 274 P 39 07.60 0.6
 PKI 54.14 274 P 39 08.00 0.5
 DMN 54.33 274 P 39 09.80 1.0
 LCCM 62.51 51 eP 40 05.90 0.3
 KAF 62.73 334 eP 40 04.40 -2.2
 NUR 64.49 334 iP 40 16.20 -1.9
 0.3s 1.80nm 4.6mb
 NB2 67.65 340 P 40 36.60 -1.8
 0.6s 1.80nm 4.3mb
 HFS 67.84 339 eP 40 37.00 -2.5
 0.4s 3.20nm 4.8mb
 WB2 68.20 197 eP 40 38.60 -3.6X
 0.8s 2.20nm 4.3mb
 ASPA 71.91 197 eP 41 04.50 -0.2
 0.8s 6.00nm 4.6mb
 GEC2 77.72 333 P 41 36.90 -1.0
 0.4s 0.38nm 3.7mb
 LOR 81.96 338 eP 41 59.90 -0.6
 0.9s 6.70nm 4.7mb
 GRR 82.02 342 eP 42 00.50 -0.2
 0.5s 4.10nm 4.7mb
 LBF 82.19 338 eP 42 01.00 -0.7
 0.5s 1.40nm 4.3mb
 SSF 82.24 338 eP 42 01.50 -0.4
 0.6s 2.05nm 4.3mb
 LPF 82.40 342 eP 42 02.60 -0.1
 0.8s 10.90nm 5.0mb
 AVF 82.53 338 eP 42 03.10 -0.3
 0.5s 2.05nm 4.4mb
 SMF 82.54 338 eP 42 03.10 -0.4
 0.5s 2.40nm 4.5mb
 LPL 82.80 336 eP 42 06.50 1.4
 0.6s 2.70nm 4.5mb
 LPG 82.81 336 eP 42 06.60 1.3
 0.5s 2.05nm 4.5mb
 MAF 83.26 339 eP 42 07.50 0.3
 0.5s 4.90nm 4.9mb
 MFF 83.55 340 eP 42 08.90 0.2
 0.6s 5.25nm 4.8mb
 CAF 84.59 338 eP 42 14.70 0.7
 0.6s 4.25nm 4.8mb

LFF 84.91 339 eP 42 16.10 0.6
 0.5s 5.25nm 5.0mb
 LPO 85.04 339 eP 42 16.80 0.6
 0.6s 3.50nm 4.7mb
 S.D. = 1.3 on 27 of 28 obs.

& FEB 27, 1993 20h 41m 29.08s
 63.125 N 150.927 W

DEPTH = 131.1km
 3.1mb (1 obs.)

CENTRAL ALASKA (1)
 <AEIC>.

TRF 0.44 41 iPd 41 48.21 -0.2
 eS 42 02.36
 HUR 0.61 104 eP 41 48.64 -0.6
 eS 42 04.22
 RND 0.98 72 ePc 41 51.67 -0.6
 eS 42 09.96
 MCK 1.08 55 iPc 41 52.78 -0.4
 eS 42 10.96
 SKT 1.18 194 iPd 41 53.96 -0.2
 iS 42 12.64
 PWA 1.56 161 P 41 58.20 0.0
 GH0 1.65 145 iPc 41 59.01 -0.4
 eS 42 22.36
 SUA 1.67 177 ePc 41 59.44 -0.3
 eS 42 23.23
 NEA 1.67 29 iPc 41 58.53 -1.1
 eS 42 20.09
 PLRM 1.75 151 iPc 41 59.73 -0.8
 eS 42 23.72
 PMR 1.75 151 ePc 42 00.20 -0.3
 SML 1.79 136 iPc 42 00.17 -0.8
 eS 42 25.01
 CGLM 1.89 196 eP 42 03.19 0.9
 CRP 1.95 198 ePc 42 02.87 -0.3
 eS 42 29.36
 CPAM 1.96 197 iPc 42 02.97 -0.2
 eS 42 30.63
 CP2 1.97 199 iPc 42 03.22 -0.1
 BGL 1.99 201 eP 42 03.57 0.0
 PMS 1.99 161 P 42 03.00 -0.5
 CKN 2.00 198 eP 42 03.57 0.0
 SPU 2.02 196 iPc 42 03.32 -0.5
 CKT 2.02 198 iPc 42 03.50 -0.4
 CKL 2.05 200 iPc 42 04.02 -0.2
 CCB 2.06 41 iPc 42 03.25 -1.0
 SCM 2.12 126 ePd 42 03.91 -1.1
 HDA 2.18 52 ePc 42 04.59 -1.2
 MDM 2.19 32 iPc 42 04.98 -1.0
 FBA 2.25 36 P 42 05.80 -0.9
 TTA 2.33 267 P 42 07.40 -0.3
 NKA 2.40 184 eP 42 09.32 0.9
 GLM 2.43 38 iPc 42 08.09 -0.9
 PTE 2.44 158 iPc 42 08.01 -1.0
 PAX 2.49 91 ePd 42 08.81 -1.0
 eS 42 39.05
 SDG 2.54 101 eP 42 09.55 -0.9
 SLKM 2.65 172 ePc 42 11.11 -0.7
 DFR 2.68 199 ePc 42 11.75 -0.5
 NCT 2.74 201 eP 42 13.06 0.0
 MPA 2.75 164 iPc 42 11.90 -1.1
 RDW 2.80 199 eP 42 13.62 -0.3
 RS2 2.81 199 eP 42 13.82 -0.2
 RSO 2.81 199 eP 42 13.77 -0.3
 RS1 2.81 199 eP 42 13.95 -0.1
 KLU 2.85 123 ePc 42 12.69 -1.8
 eS 42 46.59
 VLZ 2.94 131 ePc 42 13.42 -2.1
 SVV 2.99 230 P 42 15.80 -0.5
 SEW 3.11 166 eP 42 16.86 -0.9
 DOT 3.13 77 iPd 42 16.81 -1.3
 IMA 3.18 339 P 42 18.10 -0.8
 INE 3.24 199 eP 42 20.79 1.1
 INW 3.24 200 eP 42 20.03 0.4
 BRK 3.37 180 eP 42 20.60 -0.7
 HIN 3.45 140 ePc 42 20.52 -1.8
 CVA 3.57 134 eP 42 22.24 -1.6
 CNPM 3.62 182 iPc 42 23.84 -0.7
 PDB 3.70 207 eP 42 25.12 -0.5
 XLV 3.70 186 eP 42 25.13 -0.5
 GLB 3.73 114 iPc 42 24.73 -1.3
 AUL 3.95 199 P 42 30.10 1.2
 AUE 3.96 198 P 42 27.30 -1.8
 RAGM 4.05 130 eP 42 28.57 -1.7
 FYU 4.22 33 eP 42 31.61 -1.0

MCNL 4.28 204 eP 42 33.29 -0.2
 CROM 4.38 119 eP 42 33.55 -1.4
 KAIM 4.47 133 eP 42 34.84 -1.1
 TGL 4.50 118 eP 42 34.37 -2.1
 BALM 4.55 114 ePc 42 35.33 -1.8
 SNH 4.86 124 eP 42 40.15 -1.1
 CTGM 5.01 111 eP 42 41.86 -1.5
 YAH 5.17 118 eP 42 43.96 -1.6
 YKA 16.48 76 eP 45 13.00 -0.4
 0.5s 0.50nm 3.1mb
 69 obs. associated

? FEB 27, 1993 20h 48m 41.64± 4.21s
 33.239 S ±10.3km 72.098 W ±30.6km
 DEPTH = 12.0 ± 5.6 km
 OFF COAST OF CENTRAL CHILE (134)
 MD 3.6 (SAN).

LCCH 0.50 118 iP 48 52.17 0.3
 iS 48 57.76
 LNV 0.92 141 iP 48 59.06 0.1
 iS 49 09.70
 ROCH 0.95 74 iP 48 59.80 0.1
 iS 49 11.20
 TACH 1.05 113 iP 49 00.89 -0.5
 iS 49 12.90
 PEL 1.19 86 iP 49 03.75 0.1
 iS 49 18.28
 PCH 1.38 106 iP 49 06.76 0.0
 (S) 49 24.00
 JACH 1.38 67 eP 49 06.87 0.1
 iS 49 23.60
 FCH 1.52 94 iP 49 08.74 -0.2
 iS 49 26.55

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

* FEB 27, 1993 21h 32m 31.63± 0.97s
 6.554 S ±12.3km 147.585 E ±10.5km
 DEPTH = 33.0km (normal)
 4.5mb (4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

FINC 0.28 103 iPc 32 38.90 -0.2
 YYY 1.64 281 eP 33 02.70 4.1X
 eS 33 29.40
 MDG 2.21 306 iPd 33 06.80 0.0
 WB2 18.50 223 iPc 36 46.80 -0.5
 0.2s 9.40nm 4.6mb
 i 40 39.70
 RMO 19.86 177 eP 37 02.70 -0.2
 0.7s 16.00nm 4.4mb
 BRS 21.30 167 iPc 37 16.50 -1.4
 ASPA 21.51 216 eP 37 19.80 -0.2
 0.7s 13.50nm 4.5mb
 Z 19s 0.30um 3.7msz
 eS 41 16.90
 ARMA 24.04 171 eP 37 46.20 1.3
 0.7s 6.00nm 4.2mb
 CMS 24.86 184 eP 37 53.70 1.0
 BAO 153.09 145 ePKP 52 26.20 5.3X
 i 52 38.00

S.D. = 1.0 on 8 of 10 obs.

& FEB 27, 1993 21h 58m 40.25s
 34.115 N 116.840 W
 DEPTH = 4.4km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.7 (PAS).

PEC 0.35 230 iPc 58 46.86 -0.4
 S 58 51.45
 SSK 0.71 278 ePc 58 53.71 -0.8
 PLM 0.76 181 ePd 58 54.45 -1.0
 S 59 05.18
 GSC 1.18 1 ePd 59 02.26 -0.7
 eS 59 18.03
 GLA 1.99 122 ePn 59 14.47 -0.5
 ePg 59 17.14
 eS 59 41.62
 ISA 2.05 319 ePn 59 15.94 0.1
 TPNV 2.87 9 (Pn) 59 27.33 -0.4
 ePg 59 33.65
 BCH 2.88 293 (P) 59 26.94 -0.9
 TNP 3.97 356 (Pn) 59 44.71 1.3
 BONR 4.01 343 ePn 59 45.86 1.8
 ePg 59 56.36

10 obs. associated

FEB 27, 1993 22h 08m 37.65 ± 1.75s
32.898 S ± 25.5km 122.356 E ± 8.8km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

COOL 2.26 333 iPc 09 16.00 0.4
eS 09 40.00
KLB 4.11 287 eP 09 42.00 0.2
eS 10 27.50
NWA0 4.31 268 eP 09 58.00 13.3X
iS 10 55.00
MUN 5.28 278 eP 09 59.10 0.6
eS 10 58.00
FORT 5.29 68 eP 09 58.60 -0.1
eS 10 56.00
BAL 5.33 294 eP 09 58.00 -1.2
eS 10 55.00
MEEK 7.03 332 iPd 10 19.20 -4.0X
0.2s 6.00nm 5.4mb
eS 11 32.00
ASPA 13.70 51 eP 11 50.90 -3.5X
eS 14 12.60
S.D. = 1.0 on 5 of 8 obs.

FEB 27, 1993 23h 10m 11.22 ± 2.31s
31.745 S ± 12.2km 66.943 W ± 5.8km
DEPTH = 129.9 ± 33.7 km
LA RIOJA PROVINCE, ARGENTINA (138)

CFA 1.11 277 iPd 10 35.10 -0.5
S 10 53.00
MRA 1.24 123 iPd 10 37.00 0.2
S 10 55.30
RTCV 1.36 265 iPc 10 37.60 -0.6
S 10 57.50
RTLL 1.37 287 iPd 10 38.20 0.0
S 10 57.50
RTPR 1.49 15 ePc 10 39.90 0.4
S 11 01.10
ZON 1.49 277 iPc 10 40.20 0.5
eS 11 01.20
RTCB 1.61 279 iPc 10 40.90 -0.1
S 11 02.00
TCA 2.05 79 iPc 10 46.10 -0.2
RTBS 2.14 272 ePc 10 47.80 0.5
S 11 15.10
CYA 3.44 17 iPc 11 04.00 -0.3
S.D. = 0.5 on 10 of 10 obs.

* FEB 27, 1993 23h 48m 13.82 ± 1.48s
21.114 S ± 13.5km 68.656 W ± 15.5km
DEPTH = 135.8 ± 13.6 km
3.8mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

YJA 3.12 110 iPc 49 02.80 -0.4
HJA 3.67 125 eP 49 10.50 0.5
CNCB 4.33 9 P 49 21.30 1.8
S 50 54.00
CCH 4.41 33 (P) 49 30.00 9.7X
LPB 4.59 7 eP 49 22.00 -0.8
S 50 54.00
ZOBO 4.83 6 eP 49 26.00 -0.2
e 50 17.00
ARE 5.35 329 eP 49 32.00 -1.0
eS 50 33.00
SIV 8.81 56 iPc 50 19.80 0.3
PPD 16.16 96 (P) 51 55.00 0.4
BAO 20.35 78 eP 52 40.00 -1.6
YKA 90.90 341 eP 01 03.70 1.0
0.6s 0.50nm 3.8mb
S.D. = 1.2 on 10 of 11 obs.

? FEB 28, 1993 00h 18m 08.51 ± 1.33s
11.294 N ± 6.3km 61.707 W ± 38.6km
DEPTH = 29.9 ± 14.2 km
WINDWARD ISLANDS (95)
MD 3.3 (TRN).

TCE 0.59 184 iP 18 20.26 -0.2
iS 18 29.30
TRN 0.71 155 eP 18 22.50 0.2
iS 18 32.66
GRW 0.86 3 iP 18 25.25 0.7
i 18 34.02
eS 18 37.61

SVB 2.02 13 eP 18 40.83 -0.3
eS 19 07.25
i 19 12.58
SVV 2.07 13 eP 18 41.49 -0.4
eS 19 07.63
e 19 12.29
S.D. = 0.9 on 5 of 5 obs.

FEB 28, 1993 00h 45m 28.70 ± 0.19s
8.249 N ± 3.3km 121.732 E ± 4.3km
DEPTH = 32.1km (21 depth phases)
5.1mb (52 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)
Mw 5.3 (HRV).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 9S, 12C

Centroid Location:

Origin Time 00:45:29.4 0.8

Lat 8.20N 0.09 Lon 122.55E 0.12

Dep 17.9 7.9 Half-duration 1.0

Moment Tensor: Scale 10**16 Nm

Mrr=-3.16 0.41 Mtt=-1.21 0.62

Mff= 4.36 0.66 Mrt=-3.65 2.12

Mrf= 8.76 4.41 Mtf=-3.43 0.46

Principal Axes:

T Vol= 11.95 Plg=32 Azm=246

N -2.82 2 338

P -9.13 58 71

Best Double Couple: Ma=1.1*10**17

NP1: Strike=327 Dip=13 Slip=-101

NP2: 158 77 -88

CGP 2.94 86 ePd 46 53.00 38.8X
eS 47 22.00
DAV 3.98 107 eP 46 31.20 2.2
PLP 4.32 48 ePd 46 32.00 -1.8
0.8s 270.00nm
PGP 5.28 352 ePd 46 46.50 -0.9
eS 46 52.00
TGY 5.87 352 eP 46 54.00 -1.9
KKM 5.90 249 ePc 46 54.50 -1.8
1.0s 851.80nm 6.3mb X
e 47 55.00
OCP 6.38 354 eP 47 10.00 7.0X
MNI 7.44 155 eP 47 15.50 -2.3
e 53 08.00
BAG 8.19 352 eP 47 33.00 4.5X
CVP 9.40 1 eP 47 46.00 1.0
1.2s 101.00nm 5.9mb
PIP 10.07 354 ePd 47 57.00 2.7X
QIZ 15.75 314 eP 49 14.00 4.1X
GZH 16.81 332 eP 49 25.00 1.7

Z 14s 1.18um
N 10s 0.86um
E 13s 1.63um
KGM 19.35 252 ePd 49 55.40 0.8
KLM 20.63 257 eP 50 08.50 0.3
IPM 20.89 261 ePc 50 10.80 -0.2
0.9s 133.10nm 5.3mb
SNG 20.95 269 eP 50 12.00 0.5
1.2s 234.38nm 5.5mb
eS 54 07.50
LOE 21.50 297 eP 50 17.00 -0.1
NST 22.37 291 eP 50 29.00 3.3X
SSE 22.74 359 Pc 50 28.00 -1.2

Z 20s 0.90um 4.2MsZ
N 18s 1.40um
eS 50 39.00
S 54 36.00
eSS 55 16.00
MTN 22.94 156 eP 50 31.30 -0.1
GYA 23.08 324 P 50 34.00 1.2
1.2s 22.00nm 4.5mb
Z 20s 2.81um 4.7MsZ
N 15s 2.70um
E 15s 1.94um

GUMO 23.32 75 eP 50 25.00 -10.0X
GUA 23.35 75 eP 50 25.50 -9.9X
NJ2 23.83 354 Pc 50 41.00 1.1
Z 16s 0.67um 4.2MsZ
E 11s 0.93um
sP 50 52.00
KAGJ 24.37 19 eP 50 45.40 0.3
CHTO 24.49 298 ePc 50 46.60 0.2
1.4s 43.27nm 4.8mb
KMI 24.69 315 Pd 50 53.00 4.4X

Z 12s 1.50um 4.7MsZ
N 15s 1.40um
E 14s 0.90um

pP 51 01.40 30km
eS 55 26.00
KUMJ 25.60 18 eP 50 57.30 0.5
SHNJ 27.16 17 eP 51 12.50 1.4
TKSJ 28.01 22 eP 51 29.20 10.3X
CD2 28.11 326 eP 51 18.50 -1.4

Z 16s 1.52um 4.7MsZ
N 11s 1.01um
TIA 28.15 352 eP 51 26.00 5.9X
XAN 28.25 337 eP 51 19.50 -1.6
1.0s 71.00nm 5.3mb
E 10s 0.87um

S 56 08.00
WKYJ 28.83 24 eP 51 37.90 11.6X
YONJ 28.89 20 eP 51 39.20 12.4X
TIY 30.52 345 eP 51 40.50 -0.9

Z 18s 0.97um 4.5MsZ
E 12s 0.50um
S 56 43.00
WRA 30.64 156 P 51 41.70 -0.9
WB2 30.65 156 iPc 51 40.60 -2.0
0.6s 4.80nm 4.5mb

iPcP 51 54.80
BJI 32.04 352 eP 51 53.50 -1.1
1.5s 29.00nm 5.0mb
Z 16s 0.41um 4.2MsZ
LZH 32.16 332 eP 51 55.00 -0.9
1.5s 35.00nm 5.0mb

Z 18s 0.84um 4.5MsZ
E 11s 0.64um
pP 52 05.00 36km
sP 52 10.00

SNY 33.48 3 Pc 52 13.00 5.9X
1.2s 32.00nm 5.1mb
HHC 33.70 346 eP 52 12.00 2.8X
1.2s 16.00nm 4.8mb
Z 11s 0.74um 4.7MsZ
N 11s 0.27um

E 10s 0.29um
PP 53 19.00
eS 57 34.00
BTO 33.86 344 eP 52 16.50 5.9X
N 13s 0.48um
E 13s 0.96um

eS 57 41.00
ASPA 33.88 160 iPd 52 09.90 -0.9
1.4s 26.30nm 5.0mb
Z 22s 0.30um 4.0MsZ
ePcP 54 47.70
eS 58 31.60

52 30.20 5.2X
CN2 35.56 5 eP 52 30.20 5.2X
1.0s 10.00nm 4.7mb
LSA 35.74 311 P 52 29.20 1.9
0.7s 8.00nm 4.8mb

GTA 36.73 331 eP 52 35.50 0.5
1.5s 35.00nm 5.0mb
Z 16s 1.60um 4.9MsZ
E 13s 0.60um

pP 52 43.00 25km
sP 52 45.50
eS 58 20.00

CTA 37.09 140 P 52 39.00 0.9
MRWA 37.66 188 eP 52 42.00 -0.8
PKI 39.33 304 P 52 57.40 0.1
KKN 39.52 304 P 52 59.00 0.3
DMN 39.59 304 P 53 00.00 0.6

GKN 40.12 304 P 53 03.80 0.2
MUN 40.35 187 eP 53 04.00 -1.1
YSS 42.58 21 (P) 53 22.70 -0.6
0.9s 20.00nm 4.8mb
e 53 32.00 31km
e 03 32.00

HYB 42.99 287 eP 53 27.00 -0.1
RMO 43.37 144 iPd 53 29.60 -0.4
0.6s 11.00nm 4.8mb
GBA 43.77 281 P 53 34.00 0.6
STK 44.19 156 eP 53 36.30 -0.2
0.8s 40.50nm 5.3mb

i 55 20.50 585kmX
ZAK 44.72 343 eP 53 40.00 -0.5
1.6s 17.00nm 4.7mb
Z 16s 0.50um 4.5MsZ
N 15s 0.29um

e 55 20.00 547kmX

28d 00h

		eS	00 30.00		FBA	82.80	25 eP	57 50.86	0.0	EMUT	15.96	354 eP	49 47.33	0.5	
		eSSS	03 27.00			1.3s	15.54nm		4.9mb	GOL	15.97	9 eP	49 47.67	0.6	
CMS	45.75	151 iPd	53 49.30	0.3	PUL	83.65	329 ePc	57 55.00	-0.2		0.8s	26.55nm		4.4mb	
	0.6s	10.00nm		4.9mb		1.0s	100.00nm		5.9mb	GLD	16.04	9 (P)	49 48.40	0.5	
ADE	45.88	160 eP	53 51.00	1.0	KLU	83.94	29 eP	57 57.51	0.7		1.0s	85.62nm		4.8mb	
WMO	46.21	326 P	53 54.00	1.4	KEV	83.96	340 iP	58 07.50	10.8X	MRCM	16.12	331 (P)	49 49.08	0.2	
	1.5s	13.00nm		4.7mb		1.0s	40.00nm			BONR	16.26	332 eP	49 51.22	0.4	
Z	14s	0.52um		4.6mszX	SDF	84.50	337 iP	58 04.80	5.4X	MEMM	16.31	330 (P)	49 51.25	0.2	
		S	00 31.00		KAF	85.31	332 iP	58 03.30	-0.2	DAU	16.60	353 eP	49 54.24	-0.8	
BRS	46.47	141 iPc	53 54.10	-0.7		0.7s	11.40nm		5.2mb	DUG	16.61	349 (P)	49 57.16	2.1	
	0.8s	18.00nm		5.1mb	BALM	85.71	29 eP	58 06.53	0.8	KVN	17.10	334 eP	50 01.76	0.4	
		iP	54 04.00	33km			eP	58 16.70	32km	ARN	17.38	323 eP	50 05.78	1.1	
		ePP	55 29.00				eS	58 20.60		COE	17.39	323 (P)	50 05.09	0.3	
MOY	46.54	342 eP	53 55.10	0.1	MNK	85.85	324 eP	58 05.00	-1.4	HVU	18.15	350 ePd	50 14.46	0.1	
ARMA	47.98	145 iPd	54 07.70	0.9	NUR	86.36	331 iP	58 08.90	0.1	OLY	18.81	48 eP	50 22.95	0.7	
	0.8s	28.00nm		5.3mb		0.6s	4.60nm		4.9mb	BW06	18.82	358 ePd	50 20.88	-1.9	
BFD	49.21	158 iPd	54 16.10	0.1	UPP	89.92	331 iP	58 34.80	9.0X		1.0s	40.95nm		4.6mb	
	0.7s	29.00nm		5.4mb	UZH	90.05	319 iPc	58 28.00	1.3	ORV	19.02	328 eP	50 24.01	-0.9	
BWA	49.40	151 iPd	54 19.10	1.6		1.0s	37.00nm		5.6mb	PTI	19.16	352 eP	50 25.56	-1.1	
		iP	54 29.40	35km			e	58 38.70	33km	RSSD	20.50	9 ePc	50 40.82	-0.7	
BOD	49.83	355 eP	54 19.80	-0.7	HFS	91.72	332 eP	58 32.40	-1.7		0.8s	17.07nm		4.4mb	
	1.1s	42.00nm		5.4mb		0.6s	1.60nm		4.6mb	Z	18s	1.82um		4.5msz	
CAN	50.40	151 iPd	54 25.80	0.6	NB2	92.54	333 P	58 32.80	-5.2X	LBFM	20.62	331 eP	50 42.32	-0.5	
		iP	54 36.30	36km		0.8s	2.30nm		4.7mb	LGPM	20.72	328 eP	50 41.49	-2.2	
		i	55 43.10		RES	94.23	9 eP	58 47.00	1.6	FVM	20.92	44 eP	50 45.33	-0.3	
CNB	50.57	151 iPd	54 27.50	1.0		1.0s	5.00nm		4.9mb		1.0s	31.53nm		4.6mb	
	1.0s	66.00nm		5.6mb			pP	58 57.50	33km	KMPM	20.99	325 (P)	50 48.27	1.8	
TOO	50.71	156 iPd	54 27.30	-0.2	GEC2	95.47	321 P	58 51.90	0.1	ELC	21.29	47 eP	50 49.29	-0.1	
	1.1s	108.00nm		5.7mb		1.1s	2.28nm		4.5mb	LCCM	22.03	354 ePd	50 56.70	-0.2	
PRZ	51.06	319 eP	54 31.50	1.2			pP	59 02.00	31km	PRM	25.02	60 eP	51 27.33	1.2	
KSH	51.32	315 P	54 34.40	2.1	YKA	97.38	23 eP	58 59.70	-0.3			e	51 35.88		
	0.6s	10.00nm		5.0mb		0.7s	2.80nm		4.9mb	DPW	25.09	345 eP	51 25.56	-1.1	
DZM	53.19	125 iPd	54 46.10	-0.4	MSU	111.66	43 ePKP	04 03.65	1.2	LON	25.13	338 eP	51 27.24	0.2	
ELT	53.25	334 eP	54 45.00	-1.3			ePKP	04 14.36		NEW	25.22	347 eP	51 27.59	-0.2	
	1.8s	25.00nm		4.9mb	PV10	113.82	42 ePKP	04 07.13	0.4		0.8s	23.66nm		4.9mb	
Z	15s	0.60um		4.8mszX			iPKP	04 18.06		GMW	26.15	338 (P)	51 37.73	1.2	
		eS	02 19.00		PV08	113.97	41 ePKP	04 07.53	0.4	HBF	26.34	64 eP	51 39.71	1.4	
FRU	53.70	318 (P)	54 54.00	4.1X			ePKP	04 18.45		LHS	26.37	60 eP	51 38.72	0.1	
	2.5s	60.00nm		5.2mb	FVM	125.08	31 ePKP	04 28.09	0.2	SES	26.50	357 eP	51 39.00	-0.7	
YAK	53.98	5 eP	54 50.20	-1.4			ePKP	04 38.15				pP	51 45.00	21kmX	
	1.7s	115.00nm		5.6mb	YJA	164.51	154 e(PKP)	05 31.00	-0.5	NAV	27.29	54 eP	51 47.72	0.6	
QUE	55.56	301 eP	55 00.70	-3.2X	CNCB	167.27	133 PKPd	05 35.80	1.8	ULM	28.09	17 eP	51 55.50	1.3	
MGD	56.17	17 ePd	55 07.00	-0.5	LPB	167.36	132 ePKP	05 34.00	0.2	RSNY	34.53	45 eP	52 50.91	-0.1	
	0.8s	40.00nm		5.5mb		Z	16s	0.67um			0.9s	14.87nm		4.9mb	
		i	55 17.00	33km			LR	16 40.00		Z	18s	1.33um		4.7msz	
MAIO	62.84	307 iPd	55 54.60	0.5	SIV	171.83	161 PKPd	05 40.60	4.8X	HRV	35.76	50 P	53 10.00	8.5X	
		eS	04 32.00				i	05 51.90			Z	18s	1.16um		4.7msz
TIK	63.48	3 iPd	55 56.00	-1.5						FCC	36.31	13 eP	53 07.50	1.6	
	1.5s	36.00nm		5.3mb						SIT	38.34	337 P	53 30.00	7.0X	
		i	56 06.00	32km							Z	19s	0.61um		4.4msz
NRI	64.85	347 iPd	56 04.80	-1.7						JAO	38.70	31 eP	53 25.50	-0.6	
	1.3s	35.00nm		5.3mb						CBM	39.59	44 P	53 40.00	6.4X	
		e	56 15.00	33km							Z	18s	1.09um		4.7msz
		e	56 45.00							LMN	41.41	47 eP	53 58.00	9.4X	
SVE	67.53	329 ePd	56 23.50	-0.3						HON	45.49	277 P	54 30.00	8.1X	
	1.6s	250.00nm		7.1mb X	MZX	2.13	109 iP	46 35.50	-1.0		Z	19s	1.07um		4.8msz
ARU	68.46	328 ePd	56 29.00	-0.6			iS	46 45.00		PMR	46.63	335 P	54 40.00	9.6X	
	1.2s	100.00nm		5.8mb	AGX	6.16	108 iP	47 40.50	6.8X		Z	20s	0.17um		4.0msz
		e	56 38.00	29km	MRX	8.06	120 iP	48 07.00	6.5X	TTA	50.07	334 eP	54 56.02	-1.2	
		e	56 55.50		TUC	8.58	348 eP	48 04.07	-3.6X		0.7s	3.15nm		4.4mb	
GRS	73.54	309 eP	57 00.00	-0.8	UNM	9.88	116 iP	48 34.00	8.1X	RES	51.32	5 eP	55 07.00	0.5	
	1.5s	40.00nm		5.2mb	PPM	10.47	116 iPc	48 40.50	6.3X		1.0s	3.00nm		4.2mb	
PYA	76.18	313 eP	57 16.00	0.4	GLA	10.61	330 eP	48 33.63	-2.0	ZOBO	56.21	131 P	55 44.00	0.0	
KIV	76.44	313 eP	57 16.70	-0.5	ALO	11.14	9 eP	48 43.26	0.2	LPB	56.40	132 P	55 44.00	-1.2	
	1.2s	20.00nm		5.0mb	PLM	11.86	324 eP	48 53.05	0.2	CNCB	56.68	132 Pd	55 48.10	0.8	
TTA	79.18	27 eP	57 31.96	0.1	PEC	12.44	325 (P)	49 01.08	0.7			i	55 55.50		
	1.5s	13.02nm		4.7mb	GSC	13.39	330 ePc	49 12.79	-0.3	SIV	61.06	126 P	56 21.60	4.5X	
SVW	79.27	29 eP	57 33.28	0.9	WMOK	13.76	36 eP	49 16.12	-1.9			i	56 28.60		
	1.1s	34.77nm		5.3mb		0.8s	13.34nm		4.9mb	DAG	66.86	15 eP	56 52.20	-2.1	
		eP	57 43.59	33km			Lg	53 18.92			0.7s	5.48nm		4.9mb	
BRW	79.51	19 eP	57 34.70	1.3	MEO	13.90	37 e(P)	49 20.90	1.1	BAO	71.06	117 eP	57 22.30	1.0	
		eP	57 44.87	32km	PV10	14.42	359 eP	49 25.70	-1.1			e	57 30.90		
		eS	57 49.62				eLg	53 29.33		MAT	92.93	312 (P)	59 14.00	-1.3	
IMA	80.32	24 iPd	57 38.86	0.8	ARUT	14.43	344 eP	49 27.84	1.0	BCAO	121.33	69 iPKPd	05 02.80	6.5X	
	0.9s	12.72nm		4.9mb	PV09	14.54	358 eP	49 27.18	-1.3		0.5s	6.00nm			
		iP	57 49.11	33km			eLg	53 36.49							
		eS	57 53.02		TPNV	14.55	335 eP	49 29.32	0.8						
OBN	80.51	325 iPd	57 38.50	-0.5		0.9s	29.86nm		4.9mb						
	1.3s	52.00nm		5.4mb	PV08	14.61	360 eP	49 28.40	-1.0						
		i	57 48.00	30km	MSU	14.86	349 eP	49 33.02	0.4						
		e	57 56.00		OCO	15.06	37 e(P)	49 35.30	0.3						
SLKM	81.92	30 eP	57 45.95	-0.4	ACO	15.12	30 e(P)	49 36.20	0.5						
		eP	57 56.31	33km	SRU	15.23	354 eP	49 36.55	-0.9						
PMR	82.40	29 ePc	57 48.41	-0.3	PHAM	15.65	322 eP	49 44.31	1.6	LCCH	0.57	118 iP	14 20.61	0.6	
	1.0s	39.47nm		5.4mb											

S.D. = 1.0 on 96 of 120 obs.

FEB 28, 1993 00h 46m 00.47±0.53s
 23.920 N ± 6.2km 108.607 W ± 5.1km
 DEPTH = 10.0km (geophysicist)
 4.7mb (13 obs.) 4.6msz (7 obs.)
 GULF OF CALIFORNIA (49)

MZX 2.13 109 iP 46 35.50 -1.0
 AGX 6.16 108 iP 47 40.50 6.8X
 MRX 8.06 120 iP 48 07.00 6.5X
 TUC 8.58 348 eP 48 04.07 -3.6X
 UNM 9.88 116 iP 48 34.00 8.1X
 PPM 10.47 116 iPc 48 40.50 6.3X
 GLA 10.61 330 eP 48 33.63 -2.0
 ALO 11.14 9 eP 48 43.26 0.2
 PLM 11.86 324 eP 48 53.05 0.2
 PEC 12.44 325 (P) 49 01.08 0.7
 GSC 13.39 330 ePc 49 12.79 -0.3
 WMOK 13.76 36 eP 49 16.12 -1.9
 0.8s 13.34nm 4.9mb
 Lg 53 18.92
 MEO 13.90 37 e(P) 49 20.90 1.1
 PV10 14.42 359 eP 49 25.70 -1.1
 eLg 53 29.33
 ARUT 14.43 344 eP 49 27.84 1.0
 PV09 14.54 358 eP 49 27.18 -1.3
 eLg 53 36.49
 TPNV 14.55 335 eP 49 29.32 0.8
 0.9s 29.86nm 4.9mb
 PV08 14.61 360 eP 49 28.40 -1.0
 MSU 14.86 349 eP 49 33.02 0.4
 OCO 15.06 37 e(P) 49 35.30 0.3
 ACO 15.12 30 e(P) 49 36.20 0.5
 SRU 15.23 354 eP 49 36.55 -0.9
 PHAM 15.65 322 eP 49 44.31 1.6
 MTUM 15.88 330 eP 49 46.96 1.1
 TNP 15.92 334 eP 49 46.41 0.1
 1.0s 40.09nm 4.5mb

ROCH 1.00 76 iP 14 28.14 0.3
 TACH 1.12 113 iP 14 29.21 -0.5
 PEL 1.25 87 iP 14 31.99 0.1
 SAN 1.29 101 iP 14 32.24 -0.3
 JACH 1.43 69 iP 14 35.17 0.3
 PCH 1.44 107 iP 14 34.48 -0.6
 FCH 1.58 95 iP 14 36.95 -0.2
 CACH 1.59 125 iP 14 37.54 0.4
 S.D. = 0.5 on 10 of 10 obs.

? FEB 28, 1993 02h 19m 38.16 ± 3.00s
 33.562 S ± 23.3km 179.671 E ± 53.4km
 DEPTH = 262.4 ± 31.1 km
 3.9mb (3 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.18 195 eP 20 44.20 -0.8
 PUZ 4.65 194 P 20 50.10 -0.5
 URZ 5.13 203 eP 20 56.70 0.4
 NOZ 5.22 194 eP 20 58.40 1.0
 BSZ 7.29 210 eP 21 25.10 1.8
 PGZ 7.55 200 eP 21 28.30 1.9
 MNG 7.80 204 P 21 28.00 -1.6
 KIW 8.22 206 eP 21 34.70 -0.2
 MTW 8.28 202 eP 21 35.80 0.2
 CAW 8.38 205 eP 21 36.80 -0.1
 MOW 8.59 203 eP 21 40.10 0.4
 MRW 8.61 206 eP 21 38.80 -1.1
 TCW 8.76 208 eP 21 41.50 -0.3
 ORZ 9.22 216 eP 21 47.60 0.0
 KHZ 10.07 207 eP 21 57.40 -1.0
 DSZ 10.27 215 eP 22 00.70 -0.2
 LTZ 10.89 210 eP 22 08.70 0.1
 MOZ 11.51 206 eP 22 14.80 -1.6
 ODZ 13.42 209 eP 22 41.50 1.6
 ASPA 41.09 272 iPd 26 58.50 0.3
 1.3s 5.80nm 3.8mb
 WB2 42.36 277 iPc 27 07.80 -0.7
 0.3s 9.30nm 4.6mb
 WRA 42.37 277 P 27 08.90 0.4
 0.5s 0.90nm 3.4mb
 S.D. = 1.0 on 22 of 22 obs.

FEB 28, 1993 02h 38m 07.58 ± 0.43s
 39.757 N ± 5.7km 25.578 E ± 2.8km
 DEPTH = 5.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.4 (THE). MD 3.4 (ISK).

EZN 0.58 83 iPg 38 18.90 -0.3
 ALN 1.19 17 ePbc 38 30.21 -0.1
 OUR 1.35 296 ePb 38 32.62 -0.4
 PAIG 1.47 277 ePb 38 33.98 -0.8
 EDC 1.85 71 iPn 38 41.00 0.8
 IZM 1.89 135 iPn 38 39.70 -1.1
 BNT 1.89 71 ePn 38 40.50 -0.4
 KDZ 1.90 356 iPc 38 40.00 -0.9
 SRS 2.04 313 ePn 38 42.46 -0.5
 RZN 2.04 342 iP 38 42.00 -1.1
 THE 2.18 294 ePn 38 45.26 0.2
 KCT 2.19 76 ePn 38 45.50 0.3
 MMB 2.31 323 iP 38 46.00 -0.9
 DST 2.36 93 ePn 38 47.20 -0.4
 LIT 2.40 279 ePn 38 49.82 1.6
 PLD 2.44 345 iP 38 49.00 0.3
 KNT 2.48 305 ePn 38 49.46 0.2
 AGG 2.62 255 ePn 38 51.62 0.3
 DMK 2.64 38 ePn 38 53.00 1.4
 GRG 2.71 297 ePn 38 53.22 0.6
 ISK 2.96 63 ePn 38 56.00 -0.1
 YLV 3.02 73 ePn 38 58.00 1.0

FNA 3.37 289 ePn 39 02.38 0.3
 eSn 39 44.14
 S.D. = 0.8 on 23 of 23 obs.

FEB 28, 1993 02h 42m 37.75 ± 0.43s
 39.672 N ± 6.6km 25.566 E ± 2.9km
 DEPTH = 3.6 ± 2.9 km
 AEGEAN SEA (365)
 MD 3.3 (ISK). ML 3.3 (THE).

EZN 0.61 75 iPg 42 49.40 -0.5
 ALN 1.28 17 ePbd 43 01.34 -0.7
 OUR 1.38 299 ePbc 43 03.78 -0.1
 PAIG 1.47 281 ePbc 43 05.10 0.0
 IZM 1.83 133 ePn 43 10.20 -0.2
 EDC 1.89 68 ePn 43 12.00 0.9
 SRS 2.09 314 ePn 43 14.14 0.1
 THE 2.21 297 ePn 43 16.98 1.2
 KCT 2.22 74 ePn 43 16.50 0.5
 DST 2.37 91 ePn 43 17.20 -0.9
 LIT 2.40 281 ePn 43 18.10 -0.5
 KNT 2.52 307 ePnc 43 20.14 -0.1
 AGG 2.59 257 ePn 43 21.06 -0.2
 DMK 2.72 37 ePn 43 23.00 0.0
 GRG 2.74 299 ePn 43 22.54 -0.8
 YLV 3.05 72 ePn 43 28.00 0.2
 FNA 3.39 290 ePn 43 32.78 0.1
 eSn 44 14.02

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

FEB 28, 1993 02h 55m 49.15 ± 0.56s
 38.490 N ± 5.3km 27.973 E ± 4.6km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)
 MD 3.4 (ISK).

IZM 0.57 261 iPg 56 00.20 -0.3
 DST 1.23 24 iPg 56 12.20 -0.2
 KHL 1.23 97 ePg 56 12.50 0.0
 KCT 1.78 9 ePn 56 21.50 0.7
 EZN 1.85 317 iPn 56 21.90 0.2
 EDC 1.86 357 iPn 56 22.00 0.1
 ELL 2.32 138 ePn 56 29.00 0.3
 YLV 2.34 27 ePn 56 29.00 0.0
 GPA 2.55 44 ePn 56 32.00 0.1
 EYL 2.67 38 ePn 56 33.00 -0.7
 ISK 2.71 18 ePn 56 34.00 -0.1
 ITU 2.73 17 iPnc 56 41.00 6.5X
 ISG 57 17.50

S.D. = 0.4 on 11 of 12 obs.

FEB 28, 1993 03h 00m 06.45 ± 0.47s
 47.611 N ± 6.1km 146.929 E ± 4.1km
 DEPTH = 413.5 ± 5.5 km
 4.5mb (36 obs.)

NORTHWEST OF KURIL ISLANDS (220)

KUR 2.47 164 iPnc 01 06.10 -1.0
 YSS 2.93 260 iPnc+ 01 12.10 1.6
 SHO 3.75 181 iPnc 01 13.50 -4.0X
 SKR 6.75 60 ePn 01 47.60 -0.7
 PET 9.24 50 ePn 02 17.00 0.4
 MDJ 12.40 262 eP 02 51.10 -1.4
 MGD 12.72 9 ePn 02 55.50 -0.4
 MAT 12.81 213 iPd 02 55.60 -1.3
 CN2 15.47 264 Pd 03 23.40 -1.7
 SEY 15.63 9 eP 03 28.00 1.4

eS 06 13.50
 YAK 17.42 332 eP 03 44.00 -0.7
 0.8s 47.00nm 4.9mb
 SNY 17.54 259 Pd 03 46.80 0.7
 CIT 21.84 294 eP 04 28.50 0.9
 BOD 22.10 310 eP 04 29.10 -0.8
 0.9s 12.00nm 4.4mb
 BJI 23.33 262 eP 04 43.00 1.6
 1.0s 44.00nm 4.9mb
 TIA 24.78 254 Pd 04 56.30 1.7
 HHC 26.06 268 P 05 07.20 1.0
 1.0s 57.00nm 5.0mb
 ILT 26.76 28 eP 05 10.00 -2.0
 e 08 17.00
 TIY 27.03 261 eP 05 15.30 0.5
 BTO 27.22 269 eP 05 16.50 0.0
 ZAK 28.47 292 eP 05 27.50 0.4
 1.0s 27.00nm 4.6mb
 XAN 31.46 258 P 05 53.30 -0.1
 0.6s 10.00nm 4.3mb
 LZH 33.69 266 Pd 06 13.00 0.7
 2.0s 51.00nm 4.5mb
 GTA 34.68 274 Pd 06 21.80 1.2
 1.4s 56.00nm 4.7mb
 SVW 34.87 46 eP 06 22.93 1.1
 0.7s 14.47nm 4.4mb
 IMA 35.63 37 eP 06 27.64 -0.6
 0.8s 6.88nm 4.1mb
 RSO 36.33 47 eP 06 35.40 1.1
 CP2 36.49 45 eP 06 37.06 1.5
 CRP 36.53 45 eP 06 36.58 0.7
 CD2 36.82 259 P 06 38.70 0.2
 SLKM 37.57 46 eP 06 43.69 -0.5
 GYA 37.89 251 P 06 47.40 0.0
 1.0s 27.00nm 4.6mb
 ELT 38.02 302 eP 06 47.20 -0.7
 1.4s 25.00nm 4.4mb
 FBA 38.12 39 ePc 06 48.59 -0.1
 0.9s 13.16nm 4.3mb
 KLU 39.46 44 eP 06 59.90 0.1
 BALM 41.24 44 eP 07 14.64 0.3
 LSA 46.05 268 Pc 07 54.40 1.4
 0.6s 8.00nm 4.3mb
 CHTO 48.32 250 eP 08 09.90 0.0
 KKN 51.23 270 P 08 32.20 0.3
 0.4s 12.00nm 4.6mb
 PKI 51.29 270 P 08 32.60 0.1
 0.8s 16.00nm 4.4mb
 RES 51.32 17 eP 08 31.50 -0.2
 0.6s 5.00nm 4.0mb
 ARU 51.47 315 eP 08 31.50 -1.5
 DMN 51.47 270 P 08 34.20 0.5
 0.8s 28.00nm 4.6mb
 YKA 52.71 35 eP 08 40.00 -2.0
 0.5s 2.00nm 3.7mb
 RMW 57.95 53 eP 09 19.57 0.3
 NEW 59.94 50 eP 09 31.82 -0.9
 0.8s 24.51nm 4.7mb
 KAF 60.81 332 iP 09 36.90 -1.2
 0.4s 3.30nm 4.2mb
 LBFM 61.70 59 eP 09 45.11 0.5
 NUR 62.54 332 iP 09 47.90 -1.6
 0.4s 4.70nm 4.4mb
 FCC 62.77 31 eP 09 52.50 1.5
 LCCM 64.24 50 eP 10 01.20 0.4
 UPP 65.21 335 iP 10 05.30 -1.2
 KVN 65.40 59 eP 10 08.55 0.2
 HHA1 65.70 52 eP 10 10.95 0.8
 NB2 65.95 338 P 10 09.90 -1.4
 0.5s 5.20nm 4.5mb
 HFS 66.08 336 eP 10 10.50 -1.5
 0.5s 7.60nm 4.7mb
 CTA 67.39 181 P 10 20.60 0.2
 BW06 67.55 51 iPc 10 20.97 -0.7
 0.4s 8.33nm 4.8mb
 DUG 67.60 55 eP 10 22.17 0.3
 TPNV 67.89 59 eP 10 23.92 0.2
 0.6s 4.88nm 4.4mb
 e 11 42.14
 WB2 68.19 193 eP 10 23.90 -1.4

28d 03h

0.5s 11.80nm 4.8mb
WRA 68.19 193 P 10 24.60 -0.7
0.4s 5.40nm 4.6mb
ULM 68.53 38 eP 10 29.50 2.3
GSC 68.70 61 eP 10 28.50 -0.1
ARUT 68.93 57 eP 10 30.06 0.0
MSU 69.13 56 iPc 10 31.78 0.4
RSSD 69.40 47 iPd 10 32.27 -0.6
0.3s 5.48nm 4.7mb
PEC 69.47 62 eP 10 32.82 -0.4
0.4s 3.15nm 4.3mb
SRU 69.62 54 eP 10 34.18 0.0
PV09 70.82 54 eP 10 41.18 -0.3
PV10 70.96 54 eP 10 42.57 0.3
PV08 71.03 53 eP 10 42.57 -0.2
ASPA 71.91 193 eP 10 46.80 -0.7
0.8s 7.60nm 4.4mb
GEC2 75.72 330 P 11 09.20 0.2
0.5s 1.06nm 3.8mb
EEO 77.89 30 eP 11 23.00 2.2
FVM 80.63 42 eP 11 35.27 -0.1
0.5s 10.24nm 4.8mb
ELC 81.75 42 eP 11 41.04 -0.1
OLY 82.16 45 eP 11 43.08 -0.2
LMN 82.85 22 eP 11 50.00 3.4X
CEH 87.24 36 eP 12 08.14 -0.1
0.3s 13.15nm 5.2mb
BAO 145.81 26 iPKPc 19 05.90 7.7X
S.D. = 1.0 on 78 of 81 obs.

& FEB 28, 1993 04h 55m 41.80s
40.877 N 124.745 W
DEPTH = 13.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.2 (BRK).

EKR 0.49 111 iPc 55 51.84 0.0
eS 55 59.51
ARC 0.51 90 iPc 55 51.94 -0.1
eS 55 59.11
FHC 0.58 97 iPc 55 53.32 0.0
eS 56 01.00
KMPM 0.66 134 iPc 55 54.44 -0.3
eS 56 04.47
FOX 0.67 122 iPc 55 54.90 0.0
LGPM 1.45 88 ePc 56 05.63 -2.2
WDC 1.70 99 ePc 56 09.32 -2.0
MIN 2.45 102 eP 56 19.45 -2.8
ORV 2.81 117 eP 56 24.76 -2.5
9 obs. associated

& FEB 28, 1993 05h 18m 20.41s
58.571 N 153.146 W
DEPTH = 74.6km
KODIAK ISLAND REGION (13)
<AEIC>.

AUI 0.78 349 eP 18 36.25 -0.5
eS 18 48.35
AUE 0.80 352 eP 18 36.63 -0.3
AUL 0.83 350 eP 18 36.71 -0.6
MCNL 0.87 315 iP 18 37.11 -0.8
eS 18 49.21
KDC 0.90 157 P 18 37.50 -0.6
S 18 50.90
PDB 1.33 337 iP 18 42.61 -1.1
eS 18 58.96
CNPM 1.38 45 iP 18 43.24 -1.1
eS 19 00.95
INW 1.50 0 eP 18 44.81 -1.2
eS 19 03.33
BRLK 1.67 43 eP 18 46.96 -1.3
eS 19 06.46
RS1 1.91 6 eP 18 50.36 -1.3
S 19 14.19
RS2 1.91 6 eP 18 50.02 -1.7
S 19 14.50
RSD 1.91 6 eP 18 50.60 -1.1
eS 19 13.83
RDW 1.93 5 eP 18 50.48 -1.4
NCT 2.00 3 eP 18 51.73 -1.1
DFR 2.04 6 eP 18 52.55 -0.8
eS 19 16.80
SEW 2.44 49 eP 18 56.74 -2.0
SLKM 2.45 36 eP 18 57.11 -1.8
S 19 25.45
CKL 2.67 8 iP 19 00.60 -1.4

SPU 2.68 11 iP 19 00.82 -1.3
S 19 32.99
CKT 2.68 10 eP 19 00.49 -1.7
eS 19 31.69
CKN 2.71 10 eP 19 01.22 -1.3
MPA 2.72 43 eP 19 01.13 -1.6
BGL 2.73 8 eP 19 01.66 -1.2
CP2 2.74 9 eP 19 01.74 -1.4
CPAM 2.74 10 eP 19 02.33 -0.7
CRP 2.75 10 eP 19 01.36 -1.9
SVW 2.84 335 eP 19 02.57 -1.8
PTE 3.11 40 eP 19 06.53 -1.5
PMS 3.23 32 P 19 08.80 -1.1
PWA 3.50 26 P 19 14.10 0.6
SKT 3.51 13 eP 19 12.17 -1.6
31 obs. associated

* FEB 28, 1993 05h 57m 03.28±0.63s
37.554 N ± 9.1km 69.648 E ± 8.1km
DEPTH = 33.0km (normal)
4.4mb (8 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

KSH 5.32 67 Pn 58 22.60 0.0
0.3s 40.00nm 5.4mb
Z 10s 2.50um 4.4mszX

QUE 7.68 198 eP 58 28.80 0.5
eS 59 22.00
MAIO 8.23 264 eP 59 02.00 -1.4
eS 01 01.00
NDI 10.88 142 eP 59 39.00 -0.8
eS 01 37.00
eSg 02 42.00

WMO 15.04 60 P 00 38.00 2.9X
Z 10s 0.57um
eS 03 32.00
GKN 15.78 123 P 00 41.20 -3.6X
KKN 16.35 122 P 00 45.00 -7.1X
DMN 16.35 123 P 00 48.60 -3.6X
PKI 16.58 122 P 00 51.40 -3.7X
GUN 16.68 120 P 00 49.60 -6.8X
LSA 19.52 107 P 01 30.80 -0.5
0.8s 10.00nm 4.1mb
HYB 21.54 156 eP 01 51.50 -0.3
GTA 23.64 76 eP 02 11.00 -1.4
1.2s 19.00nm 4.5mb
Z 16s 0.57um 4.1mszX
E 14s 0.35um

pP 02 16.50 20kmX
sP 02 20.00
GBA 24.84 162 P 02 25.00 1.0
APO 41.51 322 eP 04 48.90 0.3
1.6s 20.70nm 4.6mb
NB2 42.89 322 P 05 06.80 6.8X
0.6s 1.00nm 3.7mb
BCAO 57.04 248 iPd 06 54.00 5.4X
0.7s 6.00nm 4.7mb
YKA 80.24 2 eP 09 12.60 1.1
0.9s 1.20nm 3.9mb
WRA 83.46 121 P 09 30.60 1.6
0.5s 2.10nm 4.5mb
S.D. = 1.1 on 11 of 19 obs.

* FEB 28, 1993 05h 59m 34.29±2.06s
43.280 N ±13.4km 18.880 E ±10.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.2 (TTG).

PLE 0.38 82 iPgc 59 42.10 0.0
iSg 59 47.60
BRY 0.45 213 iPgD 59 43.36 -0.2
iSg 59 50.13
NKY 0.47 169 iPgc 59 43.49 -0.5
iSg 59 50.63
IVA 0.85 118 iPgD 59 50.53 -0.2
iSg 00 02.88
TTG 0.89 162 iPgc 59 51.38 0.0
iSg 00 04.44
BDV 1.00 182 iPgD 59 53.39 0.2
iSg 00 08.09
PVY 1.05 130 iPgD 59 54.36 0.1
iSg 00 09.66
ULC 1.34 168 iPgc 59 59.59 0.5
iSg 00 19.39

S.D. = 0.4 on 8 of 8 obs.

* FEB 28, 1993 06h 51m 49.79±1.66s
41.323 N ±10.2km 19.570 E ±16.4km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.7 (TTG).

ULC 0.68 340 iPgc 52 02.15 -1.2
iSg 52 11.65
BDV 1.11 330 iPgD 52 10.19 -0.4
iSg 52 25.93
TTG 1.13 348 iPgc 52 10.37 -0.6
iSg 52 26.27
PVY 1.31 13 iPgD 52 13.39 -0.6
iSg 52 31.68
NKY 1.55 344 iPgD 52 17.99 0.5
iSg 52 40.25
IVA 1.57 9 iPgD 52 18.29 0.5
iSg 52 40.47
LCI 1.57 232 P 52 16.80 -1.0
eSg 52 38.20
BRY 1.75 335 iPnc 52 21.67 1.2
iSn 52 45.94
BRT 1.84 257 P 52 22.60 0.9
eSg 52 42.50
PLE 2.01 356 iPnc 52 24.98 0.7
iSn 52 51.79

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

* FEB 28, 1993 06h 52m 31.47±1.15s
31.681 S ±18.6km 66.939 W ± 7.5km
DEPTH = 33.0km (normal)
LA RIOJA PROVINCE, ARGENTINA (138)

CFA 1.11 273 ePd 52 51.80 1.0
S 53 08.30
RTLL 1.35 285 iPc 52 54.00 -0.3
S 53 11.00
RTPR 1.42 15 iPc 52 55.30 0.1
ZON 1.49 275 eP 52 56.20 -0.1
eS 53 16.20
RTCB 1.60 276 iPd 52 57.20 -0.7
S 53 17.00
TCA 2.03 81 iPc 53 04.10 -0.1
(S) 53 29.50
CYA 3.38 17 eP 53 19.00 -4.2X

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

& FEB 28, 1993 08h 45m 25.78s
58.559 N 143.591 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.5 (AEIC), 2.6
(PGC).

KAIM 1.44 343 eP 45 47.67 -4.2
CYK 1.63 20 eP 45 49.75 -4.8
eS 46 09.02
SNH 1.67 13 eP 45 50.41 -4.8
eS 46 10.33
RAGM 1.92 344 eP 45 53.98 -4.8
YAH 2.04 27 eP 45 55.81 -5.0
eS 46 18.37
CROM 2.22 6 eP 45 58.16 -5.2
TGL 2.24 10 eP 45 58.38 -5.2
S 46 24.31
CVA 2.28 332 eP 45 59.25 -4.7
HIN 2.37 322 eP 46 00.48 -4.8
BALM 2.56 14 eP 46 02.93 -5.2
CTGM 2.67 24 iP 46 04.47 -5.3
GLB 2.89 358 eP 46 07.56 -5.2
eS 46 40.08
VLZ 2.93 333 eP 46 07.61 -5.6
KLU 3.17 339 eP 46 11.44 -5.2
SEW 3.38 300 eP 46 13.67 -5.9
PTE 3.59 312 eP 46 16.87 -5.8
SCM 3.78 332 eP 46 20.04 -5.3
SLKM 3.90 303 eP 46 21.90 -5.2
SML 4.03 326 eP 46 24.06 -4.8
PLRM 4.12 320 eP 46 25.46 -4.6
GHO 4.18 323 eP 46 26.41 -4.7
SPU 5.01 305 eP 46 37.05 -5.7
SKT 5.23 314 eP 46 40.47 -5.4

23 obs. associated

? FEB 28, 1993 08h 51m 51.39±1.51s

31.651 S ± 32.8 km 68.769 W ± 16.5 km
 DEPTH = 110.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)
 RTCB 0.17 351 iPd 52 07.00 -0.3
 S 52 18.00
 RTLL 0.41 39 iPc 52 08.00 0.0
 S 52 19.00
 CFA 0.45 85 ePd 52 08.70 0.5
 S 52 21.40
 RTPR 2.36 56 ePd 52 29.60 0.1
 TCA 3.58 86 iP 52 45.80 -0.3
 (S) 53 26.00
 S.D. = 0.4 on 5 of 5 obs.

? FEB 28, 1993 08h 55m 45.81 ± 0.99 s
 39.046 N ± 9.1 km 27.723 E ± 10.0 km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.74 209 iPg 56 00.40 0.0
 eSg 56 11.90
 DST 0.90 51 ePn 56 02.90 -0.1
 KCT 1.30 22 ePn 56 10.00 0.2
 EZN 1.33 306 ePn 56 10.30 -0.1
 S.D. = 0.2 on 4 of 4 obs.

% FEB 28, 1993 09h 00m 46.62 ± 0.87 s
 39.126 N ± 7.3 km 27.658 E ± 9.0 km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.79 203 iPg 01 01.90 -0.1
 eSg 01 14.40
 DST 0.89 57 ePn 01 03.80 0.0
 EDC 1.23 7 ePn 01 09.00 -0.5
 KCT 1.24 25 iPn 01 10.60 0.9
 BNT 1.24 9 ePn 01 09.10 -0.6
 EZN 1.25 305 iPn 01 10.10 0.4
 S.D. = 0.7 on 6 of 6 obs.

FEB 28, 1993 10h 09m 44.98 ± 0.32 s
 40.087 S ± 2.8 km 174.930 E ± 3.9 km
 DEPTH = 41.8 ± 14.6 km
 COOK STRAIT, NEW ZEALAND (163)
 ML 3.8 (WEL).

BSZ 0.29 0 Pc 09 52.90 -0.4
 S 09 58.30
 MNG 0.68 142 Pc 09 58.00 -0.2
 S 10 06.80
 KIW 0.78 181 P 09 59.00 -0.6
 DRZ 0.95 31 P 10 02.30 0.0
 CNZ 1.01 28 P 10 03.00 0.1
 CAW 1.03 174 P 10 03.00 -0.1
 NGZ 1.05 30 P 10 03.50 0.0
 DIW 1.05 227 P 10 03.30 -0.2
 NRZ 1.07 314 P 10 05.10 1.3
 MTW 1.16 158 P 10 05.40 0.5
 PGZ 1.16 118 P 10 05.40 0.5
 MRW 1.16 188 P 10 04.80 -0.1
 S 10 20.00
 WAHZ 1.16 71 P 10 05.70 0.6
 WEL 1.20 186 P 10 05.90 0.3
 TCW 1.23 204 P 10 05.30 -0.7
 BLW 1.35 162 P 10 08.60 1.0
 MOW 1.36 170 P 10 08.60 0.8
 WHH 1.71 46 P 10 13.30 0.5
 ORZ 1.98 247 P 10 17.00 0.4
 WLZ 2.27 13 eP 10 20.80 -0.1
 URZ 2.49 44 eP 10 23.70 -0.2
 S 10 52.40
 KHZ 2.55 204 P 10 24.20 -0.6
 NOZ 2.82 60 eP 10 27.70 -0.9
 DSZ 2.89 234 eP 10 29.50 -0.2
 LTZ 3.36 216 eP 10 35.40 -0.9
 HBZ 3.62 48 eP 10 38.70 -1.3
 S.D. = 0.7 on 26 of 26 obs.

& FEB 28, 1993 10h 51m 41.91s
 38.765 N 122.612 W
 DEPTH = 5.9km
 NORTHERN CALIFORNIA (36)
 <GM-P>. MD 2.9 (GM).

NTYM 0.38 186 iPd 51 49.75 0.2
 HMR 0.88 133 iPc 51 59.42 0.2
 ORV 1.17 47 iPc 52 01.69 -2.5
 JEGM 1.25 175 eP 52 04.03 -1.6
 S 52 22.45
 ARN 1.65 149 eP 52 10.30 -1.3
 COE 1.68 153 eP 52 10.78 -1.2
 KMPM 2.02 325 (P) 52 23.80 6.8
 LGPM 2.15 356 eP 52 17.37 -1.6
 LBFM 2.64 12 eP 52 24.79 -1.2
 MEMM 3.09 110 eP 52 32.30 0.1
 MRCM 3.41 107 eP 52 35.18 -1.8
 MTUM 3.49 113 eP 52 38.01 -0.1
 TNP 4.29 97 (P) 52 45.40 -4.0
 13 obs. associated

? FEB 28, 1993 11h 10m 15.17 ± 6.64 s
 43.063 N ± 34.5 km 12.929 E ± 33.5 km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.20 272 Pc 10 19.50 0.0
 eSg 10 21.70
 ARV 0.44 1 P 10 24.10 0.0
 eSg 10 29.80
 CRE 0.91 309 P 10 32.80 0.2
 eSg 10 43.20
 SFI 1.16 318 P 10 36.30 -0.5
 eSg 10 50.80
 PGD 1.20 313 P 10 38.00 0.4
 eSg 10 50.70
 S.D. = 0.5 on 5 of 5 obs.

& FEB 28, 1993 12h 09m 22.13s
 61.678 N 149.538 W
 DEPTH = 34.9km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.5 (AEIC).

PWA 0.16 261 P 09 28.70 0.1
 PLRM 0.21 114 iP 09 28.65 -0.4
 eS 09 34.18
 PMR 0.21 114 iPc 09 28.58 -0.4
 eS 09 33.72
 GH0 0.31 72 iP 09 29.66 -0.6
 eS 09 36.19
 PMS 0.43 181 P 09 31.30 -0.6
 SML 0.59 77 iP 09 32.86 -1.2
 eS 09 41.74
 SUA 0.62 250 iP 09 33.87 -0.6
 iS 09 43.71
 PTE 0.85 163 eP 09 36.73 -1.0
 S 09 49.35
 SKT 0.99 289 iP 09 39.27 -0.5
 eS 09 53.09
 SCM 1.06 81 eP 09 39.92 -0.9
 MPA 1.20 176 eP 09 41.56 -1.1
 SLKM 1.22 196 eP 09 42.82 -0.3
 NKA 1.25 222 eP 09 45.07 1.7
 HUR 1.31 358 eP 09 44.32 0.0
 S 10 01.52
 SPU 1.31 249 eP 09 44.15 -0.3
 CPAM 1.32 252 eP 09 45.12 0.5
 S 10 02.75
 CRP 1.32 253 eP 09 44.66 -0.1
 eS 10 03.08
 CKN 1.35 251 eP 09 45.38 0.4
 CP2 1.36 253 eP 09 45.60 0.2
 CKT 1.37 251 eP 09 45.28 0.0
 S 10 03.29
 CKL 1.43 251 eP 09 46.15 -0.1
 S 10 04.93
 BGL 1.43 254 eP 09 46.48 0.2
 SEW 1.58 178 eP 09 48.29 0.1
 VLZ 1.64 108 eP 09 48.22 -0.8
 eS 10 09.33
 KLU 1.74 95 iP 09 49.67 -0.9
 RND 1.76 10 eP 09 50.78 -0.1
 TRF 1.81 349 eP 09 51.79 0.1
 DFR 1.88 236 eP 09 52.10 -0.4
 HIN 1.96 130 eP 09 52.89 -0.8
 RSO 1.98 233 eP 09 53.97 -0.2
 RS2 1.98 233 eP 09 53.70 -0.5
 TZL 1.98 78 eP 09 54.23 0.2
 RS1 1.99 233 eP 09 53.77 -0.4
 NCT 1.99 237 eP 09 54.15 -0.1
 RDW 1.99 234 eP 09 54.48 0.2

SDG 2.06 64 eP 09 55.34 0.2
 CVA 2.16 120 eP 09 56.29 -0.2
 CNPM 2.32 202 eP 09 59.04 0.3
 RAGM 2.70 117 eP 10 03.37 -0.8
 GLB 2.75 92 eP 10 03.96 -1.0
 HDA 2.98 22 eP 10 06.16 -2.0
 SVW 2.98 262 eP 10 07.14 -1.0
 CRQM 3.23 104 eP 10 11.36 -0.5
 TGL 3.37 103 eP 10 13.95 0.1
 BALM 3.52 97 eP 10 14.33 -1.6
 45 obs. associated

? FEB 28, 1993 12h 12m 14.99 ± 1.11 s
 39.086 N ± 11.2 km 27.604 E ± 19.7 km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZM 0.74 201 iPg 12 29.50 0.0
 iSg 12 40.50
 DST 0.95 57 ePn 12 32.70 -0.4
 EDC 1.28 9 ePn 12 38.00 -0.6
 KCT 1.30 26 iPn 12 40.00 1.0
 S.D. = 1.2 on 4 of 4 obs.

% FEB 28, 1993 12h 52m 02.36 ± 1.68 s
 31.570 S ± 15.1 km 68.106 W ± 8.4 km
 DEPTH = 100.1 ± 19.4 km
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.12 252 ePc 52 17.00 0.2
 S 52 27.10
 RTLL 0.39 308 iPc 52 17.50 -0.2
 S 52 28.30
 RTCV 0.47 232 iPc 52 18.10 -0.1
 S 52 30.00
 RTCB 0.60 278 iPc 52 19.20 -0.1
 RTBS 1.15 265 ePd 52 25.10 0.3
 S 52 42.00
 RTRS 1.82 320 iPd 52 32.80 -0.2
 S 52 51.30
 RTPR 1.86 48 iPd 52 34.00 0.4
 TCA 3.01 87 iPd 52 48.90 -0.2
 (S) 53 23.00
 S.D. = 0.3 on 8 of 8 obs.

& FEB 28, 1993 12h 55m 28.66s
 59.972 N 151.816 W
 DEPTH = 56.9km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 2.8 (AEIC).

BRLK 0.51 114 eP 55 40.05 -0.6
 eS 55 49.44
 CNPM 0.54 146 eP 55 40.37 -0.5
 INE 0.63 279 eP 55 41.25 -0.9
 eS 55 50.98
 INW 0.67 279 eP 55 41.82 -0.7
 eS 55 51.90
 RDT 0.67 334 eP 55 41.90 -0.7
 RS1 0.68 317 iP 55 42.22 -0.6
 S 55 53.09
 RSO 0.68 317 iP 55 42.19 -0.6
 S 55 52.92
 RS2 0.68 317 iP 55 42.26 -0.6
 S 55 53.18
 RDW 0.71 316 eP 55 42.52 -0.7
 eS 55 53.70
 RDN 0.72 319 iP 55 42.65 -0.6
 eS 55 53.51
 DFR 0.76 326 eP 55 43.05 -0.6
 eS 55 54.19
 NCT 0.81 317 iP 55 43.71 -0.6
 NKA 0.83 20 iP 55 45.81 1.4
 SLKM 0.96 55 eP 55 45.20 -1.0
 AUE 1.00 233 eP 55 45.92 -0.8
 AUL 1.01 235 eP 55 46.52 -0.4
 eS 56 00.19
 AUH 1.03 234 eP 55 46.67 -0.5
 AUI 1.04 233 eP 55 46.63 -0.6
 SEW 1.20 83 eP 55 49.21 -0.2
 PDB 1.21 262 eP 55 48.58 -1.1
 eS 56 04.30
 SPU 1.22 355 iP 55 49.34 -0.5
 CKT 1.25 351 eP 55 49.74 -0.5
 eS 56 06.33
 CKL 1.26 348 eP 55 49.93 -0.4

28d 12h

CKN	1.27	352	eP	55	50.31	-0.2
CPAM	1.30	353	eP	55	50.73	-0.2
CRP	1.31	353	iPd	55	50.59	-0.6
			eS	56	08.91	
CP2	1.31	351	eP	55	50.97	-0.3
			eS	56	09.02	
BGL	1.33	348	eP	55	51.15	-0.2
MPA	1.33	66	eP	55	51.79	0.5
MCNL	1.51	239	eP	55	52.41	-1.3
			eS	56	11.26	
SUA	1.59	19	eP	55	54.97	0.0
PTE	1.65	56	eP	55	55.59	-0.1
PMS	1.69	40	P	55	57.10	0.7
SKT	2.02	4	eP	56	00.89	0.0
PLRM	2.09	38	eP	56	02.11	0.2
PMR	2.09	38	(P)	55	58.78	-3.1
			eS	56	30.11	
SVW	2.20	303	P	56	02.00	-1.5
KDC	2.26	189	eP	56	03.15	-1.0
GHO	2.29	37	eP	56	03.86	-1.0
SML	2.51	41	eP	56	07.07	-0.7
HIN	2.69	79	eP	56	09.53	-0.8
SCM	2.88	48	eP	56	12.48	-0.7
VLZ	2.95	64	eP	56	12.17	-1.8
KLU	3.27	60	eP	56	16.93	-1.8
TRF	3.57	11	eP	56	22.07	-0.9
BALM	4.80	73	eP	56	38.54	-1.7
FBA	5.29	19	eP	56	45.36	-1.6

47 obs. associated

* FEB 28, 1993 13h 10m 32.29±2.67s
23.189 N ±12.9km 142.212 E ±13.4km
DEPTH = 70.9 ± 22.8 km
4.6mb (5 obs.)

VOLCANO ISLANDS REGION (213)

IIDJ	12.81	344	eP	13	34.00	1.0
KAKJ	13.09	353	eP	13	35.90	-0.8
			eS	15	50.30	
CHJJ	13.12	348	P	13	36.10	-0.9
			eS	15	52.90	
MAT	13.75	346	(P)	13	45.00	-0.4
	1.2s	28.13nm			4.6mb	
MTMJ	13.88	345	eP	13	47.40	0.2
NIJJ	14.28	350	P	13	51.20	-1.0
YAMJ	15.05	353	eP	14	02.70	0.4
			eS	16	41.00	
OFUJ	15.85	358	eP	14	12.90	0.5
			eS	16	57.40	
HOJJ	19.16	2	eP	14	54.40	1.6
MRRJ	19.21	357	eP	14	51.90	-1.4
KUSJ	19.96	5	eP	15	06.20	5.0X
ASAJ	20.88	1	eP	15	12.40	1.8
TIA	25.28	307	eP	15	53.70	0.1
TIY	29.32	306	eP	16	31.10	0.7

N 10s 0.31um

GTA	39.29	304	eP	17	56.00	0.0
	1.5s	14.00nm			4.7mb	
WB2	43.55	191	iPd	18	31.20	0.3
	0.3s	11.00nm			5.1mb	
WMO	48.95	309	P	19	13.00	-0.4
	1.2s	8.70nm			4.7mb	
GUN	50.67	288	P	19	27.00	-0.1
PKI	51.13	287	P	19	30.20	-0.4
KKN	51.22	288	P	19	31.20	0.1
DMN	51.39	288	P	19	32.50	0.0
GKN	51.75	288	P	19	34.90	-0.1
YKA	75.56	28	eP	22	09.30	-1.3
	0.5s	0.50nm			3.7mb	
KAF	81.00	335	eP	22	38.70	-1.6X
LCCM	84.05	43	eP	22	59.30	2.7X
ZOBO	150.67	82	ePKP	30	19.00	5.5X
			i	30	57.00	
CNCB	150.96	83	ePKP	30	20.00	6.1X
			e	30	56.00	

S.D. = 0.9 on 22 of 27 obs.

FEB 28, 1993 13h 20m 10.50±0.62s
45.343 N ± 4.3km 7.280 E ± 5.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (GEN).

LSD	0.14	323	P	20	14.47	0.4
			S	20	16.48	
RSP	0.19	185	P	20	15.06	0.2
			S	20	17.63	

LPG	0.40	293	Pg	20	18.70	-0.1
			Sg	20	23.80	
LPL	0.42	294	Pg	20	19.20	0.0
			Sg	20	23.90	
BHB	0.50	181	P	20	20.92	0.2
			S	20	27.37	
RRL	0.55	220	P	20	21.33	-0.3
			S	20	29.20	
ORX	0.57	59	P	20	21.97	-0.2
			S	20	30.44	
PZZ	0.85	189	P	20	26.78	-0.2
			S	20	38.08	

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

? FEB 28, 1993 13h 29m 24.65±0.55s
49.471 S ±64.3km 114.294 W ±29.9km
DEPTH = 10.0km (geophysicist)
5.0mb (5 obs.) 5.1msz (3 obs.)
SOUTHERN EAST PACIFIC RISE (684)
Mw 5.3 (HRV).
CENTROID. MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 29S, 44C
Centroid Location:
Origin Time 13:29:16.0 0.5
Lat 49.66S 0.07 Lon 114.73W 0.07
Dep 15.0 FIX Half-duration 1.0
Moment Tensor: Scale 10**16 Nm
Mrr=-0.06 0.46 Mtt=-5.50 0.60
Mff= 5.57 0.47 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-9.86 0.55
Principal Axes:
T Vol= 11.34 Plg= 0 Azm=240
N -0.07 90 180
P -11.27 0 150
Best Double Couple:Mo=1.1*10**17
NP1:Strike=285 Dip=90 Slip=-180
NP2: 15 90 0

TCA	41.13	83	ePc	37	09.10	-1.3
CNCB	49.50	66	Pd	38	18.50	0.6
LPB	49.65	65	Pd	38	17.70	-1.2
	1.0s	14.00nm			4.9mb	
Z	23s	3.79um			5.3mszX	
			S	45	23.00	
			LR	53	05.00	
ZOBO	49.82	65	P	38	20.70	0.3
	1.3s	31.55nm			5.1mb	
Z	22s	0.40um			4.4msz	
			LR	45	15.00	
SIV	54.33	71	iPc	38	57.30	3.8X
TOO	68.39	237	eP	40	28.10	-0.3
	0.6s	14.00nm			5.3mb	
BRS	71.51	249	iP	40	46.00	-1.5
CMS	72.64	242	eP	40	53.20	-1.0
	1.0s	9.00nm			4.8mb	
RMD	74.61	247	eP	41	08.10	2.5X
	1.1s	12.00nm			4.8mb	
COOL	86.05	225	eP	42	08.00	1.4
TIY	144.72	269	ePKP	49	01.80	-1.0
	24s	0.81um			5.4mszX	
XAN	144.79	260	ePKP	49	01.90	-1.1
GRF	145.33	68	ePKP	49	00.90	-2.5X
	1.3s	9.00nm			5.1msz	
Z	22s	0.40um				
CD2	145.99	251	ePKP	49	07.00	1.9
HYB	146.38	203	ePKP	49	06.00	-0.1
GEC2	146.54	71	PKP	49	06.00	0.5
	1.1s	2.19nm				
			e	49	12.80	
			e	49	16.50	
KHC	146.57	70	ePKP	49	07.00	1.5
			e	49	15.00	
			e	49	23.00	
CLL	146.94	66	ePKP	49	34.00	28.1X
HHC	146.98	273	ePKP	49	08.60	2.1
PRU	147.45	69	ePKP	49	03.50	-3.3X
			e	49	17.50	
8TO	147.86	271	ePKP	49	10.30	2.4X
LZH	149.32	259	ePKP	49	08.50	-2.0
Z	28s	0.41um			5.1mszX	
SPC	150.71	73	ePKP	49	23.20	11.1X
			e	49	52.50	

LSA	152.39	234	ePKP	49	19.40	3.8X
PKI	153.40	222	PKP	49	26.20	9.3X
GUN	153.48	223	PKP	49	27.20	10.2X

DMN	153.56	221	PKP	49	25.80	8.8X
KKN	153.64	222	PKP	49	18.20	1.1
GTA	153.86	260	ePKP	49	20.00	3.1X
	Z	20s	0.58um		5.4msz	
	S.D.	= 1.4	on 17 of 29 obs.			

* FEB 28, 1993 14h 09m 19.55±1.90s
37.791 S ±16.4km 175.907 E ±12.7km
DEPTH = 320.3 ± 15.4 km
NORTH ISLAND, NEW ZEALAND (159)

WHH	1.19	157	P	10	03.10	-0.3
NGZ	1.41	190	P	10	04.90	0.2
CNZ	1.44	191	eP	10	05.00	0.2
NOZ	1.87	117	eP	10	07.30	-0.2
ITH	1.89	158	P	10	08.00	0.4
HBZ	1.91	85	P	10	07.70	-0.1
WAHZ	1.94	170	P	10	08.10	0.0
BSZ	2.15	201	P	10	10.20	0.6
PGZ	2.84	174	P	10	15.70	0.2
MNG	2.84	187	P	10	15.50	-0.1
			S	10	55.50	
KIW	3.16	194	P	10	18.70	0.0
CAW	3.38	191	P	10	20.80	0.0
DIW	3.38	207	P	10	20.80	0.0
MTW	3.38	185	P	10	20.00	-0.8
MRW	3.56	195	P	10	22.70	0.0
			S	11	09.00	
BLW	3.59	185	P	10	22.90	-0.1
WEL	3.60	194	eP	10	23.20	0.2
MOW	3.66	188	P	10	23.60	-0.1
ORZ	4.01	220	P	10	27.20	-0.2
KHZ	4.97	201	P	10	38.70	0.8
DSZ	5.06	217	eP	10	38.70	-0.4
LTZ	5.71	208	eP	10	45.30	-1.3
MOZ	6.41	202	eP	10	54.50	-0.2
			S	12	07.70	
ODZ	8.25	207	eP	11	18.30	1.3

S.D. = 0.5 on 24 of 24 obs.

& FEB 28, 1993 14h 29m 06.22s
38.830 N 122.806 W
DEPTH = 1.0km
NORTHERN CALIFORNIA (36)
<GM-P>. MD 3.1 (GM). Felt (IV)
at Cobb.

NTYM	0.45	166	eP	29	15.01	-0.3
HMR	1.04	130	eP	29	26.40	-0.2
ORV	1.25	54	eP	29	28.19	-2.0
			e	29	35.79	
JEGM	1.34	168	eP	29	29.79	-2.0
WDC	1.76	7	eP	29	37.05	-1.0
ARN	1.79	145	eP	29	36.67	-1.8
COE	1.81	150	eP	29	37.36	-1.4
KMPM	1.88	328	eP	29	39.98	0.1
LMEM	1.95	29	(P)	29	40.55	-0.5
LGPM	2.08	360	ePn	29	43.31	0.5
FHC	2.17	336	eP	29	44.12	0.1
LBFM	2.61	15	eP	29	51.40	0.9
MEMM	3.26	110	eP	29	59.75	0.3
BONR	3.65	102	ePn	30	04.69	-0.6
MTUM	3.66	112	(Pn)	30	06.77	1.4
KVN	3.68	85	(Pn)	30	05.37	-0.3
TNP	4.45	98	(Pn)	30	17.75	1.1

17 obs. associated

% FEB 28, 1993 15h 04m 35.45±1.85s
31.229 S ±17.1km 68.270 W ±11.4km
DEPTH = 94.0 ± 21.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.20	239	iPc	04	49.20	-0.2
			S	05	00.00	
CFA	0.38	176	iPd	04	50.20	0.2
			S	05	01.80	
RTCB	0.52	240	iPc	04	51.00	-0.1
RTBS	1.10	247	ePc	04	56.90	0.1
RTPR	1.77	59	ePd	05	05.60	0.3
M						

GREECE (364)						KUZ 0.95 284 P 52 45.90 -0.1						KCT 3.16 84 ePn 03 03.60 3.6X					
ML 2.2 (THE).						URZ 1.29 172 P 52 47.00 -0.9						DST 3.40 95 ePn 03 03.50 0.1					
SOH 0.21 265 ePgc 25 24.22 0.6						HBZ 1.29 119 P 52 47.50 -0.4						? FEB 28, 1993 19h 05m 09.34± 6.86s					
SRS 0.28 355 ePgc 25 24.62 -0.2						WLZ 1.35 229 P 52 48.50 0.2						47.368 N ±36.3km 11.767 E ±36.5km					
THE 0.54 248 ePg 25 29.10 -0.9						PUZ 1.55 135 P 52 49.50 -0.2						DEPTH = 10.0km (geophysicist)					
OUR 0.57 152 ePg 25 30.78 0.2						NOZ 1.87 151 P 52 52.40 0.3						AUSTRIA (546)					
KNT 0.64 300 ePg 25 31.58 -0.2						PAHZ 1.88 176 P 52 52.30 0.1						ML 1.3 (VIE).					
PAIG 0.91 177 ePg 25 36.54 0.1						WHM 1.92 189 P 52 52.30 -0.3						WATA 0.13 256 iPgd 05 13.00 0.3					
GRG 0.94 278 ePg 25 37.70 0.8						MOH 2.16 174 P 52 54.70 0.1						WTTA 0.14 221 iPgc 05 12.90 0.1					
LIT 1.14 230 ePg 25 40.14 -0.2						MAHZ 2.34 160 P 52 57.40 1.2						SCE 0.33 187 ePg 05 16.10 -0.2					
S.D. = 0.6 on 8 of 8 obs.						NGZ 2.41 204 P 52 57.50 0.5						SOTA 0.41 249 iPgd 05 17.90 0.2					
FEB 28, 1993 15h 25m 37.35± 1.27s						CNZ 2.45 205 P 52 58.00 0.6						MOTA 0.45 267 iPgc 05 18.10 -0.5					
5.095 S ± 5.2km 151.402 E ± 8.7km						TTH 2.55 181 P 52 58.80 0.6						S.D. = 0.5 on 5 of 5 obs.					
DEPTH = 171.5 ± 11.2 km						WAHZ 2.74 188 P 53 00.30 0.1						FEB 28, 1993 19h 17m 13.78± 0.82s					
4.9mb (12 obs.)						TEHZ 3.00 181 P 53 03.10 0.3						44.447 N ± 6.2km 7.451 E ± 7.4km					
NEW BRITAIN REGION, P.N.G. (192)						BSZ 3.20 208 P 53 05.70 0.9						DEPTH = 10.0km (geophysicist)					
MDG 5.60 268 eP 27 06.00 6.2X						PGZ 3.66 187 P 53 09.80 0.0						NORTHERN ITALY (545)					
PMG 6.00 224 iPc 27 04.50 -0.7						MNG 3.79 196 Pc 53 11.10 -0.2						ML 1.4 (GEN).					
GUA 19.60 341 eP 29 55.20 0.6						KIW 4.16 201 P 53 15.50 -0.1						ENR 0.22 186 P 17 18.49 -0.1					
GUMO 19.66 341 eP 29 55.40 0.2						MTW 4.30 194 P 53 16.40 -0.8						STV 0.22 204 P 17 18.49 -0.1					
MTN 21.44 248 eP 30 13.00 0.0						CAW 4.35 198 P 53 17.20 -0.5						PZZ 0.26 283 P 17 19.59 0.3					
WBZ 22.21 227 iPd 30 21.20 0.8						DIW 4.45 210 P 53 19.00 0.1						ROB 0.34 117 P 17 20.96 0.2					
0.4s 76.50nm 5.5mb						BLW 4.51 194 P 53 19.10 -0.5						BHB 0.42 341 P 17 22.06 -0.2					
BRS 22.21 177 eP 30 24.00 3.5X						MRW 4.57 201 P 53 19.70 -0.5						S.D. = 0.3 on 5 of 5 obs.					
DZM 22.29 141 iPd 30 22.00 0.7						MOW 4.61 195 P 53 20.20 -0.5						FEB 28, 1993 19h 40m 44.10± 0.44s					
WAR8 31.63 226 iPc 31 46.30 0.0						QRZ 5.12 220 eP 53 26.70 -0.1						49.857 N ±12.5km 28.979 W ± 3.8km					
MEEK 37.92 232 eP 32 40.00 0.1						KHZ 6.00 204 P 53 37.40 -0.1						DEPTH = 10.0km (geophysicist)					
0.3s 11.00nm 5.0mb						DSZ 6.17 218 eP 53 39.20 -0.4						4.7mb (37 obs.) 4.4Msz (8 obs.)					
COOL 38.30 224 eP 32 42.80 -0.2						LTZ 6.79 210 eP 53 46.90 -0.3						NORTHERN MID-ATLANTIC RIDGE (403)					
KLB 41.09 226 iPc 33 05.30 -0.6						MOZ 7.45 204 eP 53 54.50 -0.9						MFF 19.43 89 eP 45 12.40 -0.9					
0.4s 7.00nm 4.6mb						ODZ 9.32 208 eP 54 20.00 1.1						1.6s 82.70nm 4.8mb					
MRWA 41.19 230 iPc 33 06.80 0.1						LRCZ 9.87 213 eP 54 26.30 0.3						PAB 20.23 111 eP 45 25.00 3.0X					
0.5s 13.00nm 4.8mb						LSCZ 9.90 213 eP 54 26.30 0.1						LSF 20.64 88 eP 45 25.70 -0.4					
BAL 41.34 228 eP 33 07.80 -0.1						SBCZ 9.91 213 eP 54 26.40 0.1						1.3s 69.30nm 4.9mb					
MUN 42.41 227 iPd 33 16.80 0.1						MMCZ 9.92 214 eP 54 27.00 0.5						RJJF 20.99 91 eP 45 29.80 0.1					
GYA 53.47 308 P 34 43.20 0.8						S.D. = 0.5 on 35 of 35 obs.						1.3s 63.55nm 4.8mb					
0.8s 11.00nm 4.7mb						FEB 28, 1993 18h 02m 09.27± 0.35s						Z 21s 0.80um 4.1Msz					
TIY 55.91 323 eP 34 56.50 -3.3X						39.986 N ± 3.8km 24.248 E ± 2.8km						HYF 21.01 85 eP 45 29.80 -0.1					
CHTO 56.86 296 eP 35 07.40 0.7						DEPTH = 10.0km (geophysicist)						TCF 21.06 88 eP 45 30.20 -0.3					
CD2 57.88 311 iPd 35 14.00 0.3						AEGEAN SEA (365)						1.2s 64.25nm 4.9mb					
HHC 58.48 325 eP 35 17.80 0.0						MD 3.3 (ATH). ML 3.1 (THE).						UCC 21.21 75 P 45 31.00 -0.8					
1.0s 8.50nm 4.5mb						OUR 0.40 330 ePg 02 17.90 0.4						SNF 21.21 75 P 45 30.60 -1.3					
BTO 59.21 324 eP 35 22.00 -0.8						PAIG 0.44 263 ePg 02 18.32 0.1						MAF 21.32 88 eP 45 33.00 -0.1					
LZH 60.48 317 eP 35 32.00 0.4						SOH 1.08 321 ePgc 02 30.10 0.5						1.3s 64.25nm 4.9mb					
1.2s 18.00nm 4.8mb						THE 1.17 304 ePb 02 31.30 0.1						BGF 21.38 87 eP 45 33.60 -0.1					
GUN 71.08 302 P 36 39.90 0.4						SRS 1.24 336 ePbc 02 32.06 -0.2						1.0s 53.40nm 4.9mb					
0.8s 28.00nm 5.1mb						LIT 1.35 275 ePb 02 33.82 -0.4						DOU 21.49 76 P 45 33.00 -1.8					
PKI 71.39 301 P 36 40.70 -0.6						RDO 1.52 40 ePn 02 36.00 -0.5						AVF 21.62 86 eP 45 35.90 -0.2					
KKN 71.56 301 P 36 42.40 0.2						KNT 1.56 319 ePb 02 36.90 -0.2						SSF 21.63 85 eP 45 35.90 -0.3					
0.8s 19.00nm 4.9mb						EZN 1.61 95 ePg 02 38.40 0.7						1.1s 46.65nm 4.8mb					
DMN 71.66 301 P 36 43.20 0.4						ALN 1.65 56 ePb 02 37.62 -0.7						LOR 21.79 84 eP 45 37.60 -0.2					
0.8s 27.00nm 5.0mb						MMB 1.65 346 iPc 02 38.00 -0.4						1.2s 49.70nm 4.8mb					
GKN 72.17 301 P 36 46.00 0.3						GRG 1.71 305 ePb 02 40.18 0.9						Z 20s 1.83um 4.5Msz					
0.8s 24.00nm 5.0mb						PRK 1.73 115 ePn 02 40.00 0.5						LBF 21.96 85 eP 45 39.20 -0.4					
WMQ 75.02 318 eP 37 00.00 -1.8						AGG 1.77 238 ePbc 02 40.02 -0.1						1.2s 53.85nm 4.8mb					
HYB 75.27 289 eP 37 03.00 -0.6						KDB 2.08 335 iPd 02 41.00 -0.8						SMF 21.99 86 eP 45 39.80 0.0					
GBA 75.71 285 P 37 06.00 0.0						PLD 2.14 9 iP 02 47.00 1.5						1.5s 134.75nm 5.2mb					
KSH 82.05 311 P 37 42.50 2.5X						FNA 2.33 291 ePn 02 47.10 -1.3						ENN 22.19 74 eP 45 46.00 4.3X					
0.5s 20.00nm 5.1mb						VTS 2.72 344 iPc 02 54.00 0.1						1.0s 14.00nm 4.4mb					
YKA 96.33 28 eP 38 46.50 -0.8						EDC 2.79 81 ePn 03 00.00 5.2X						WTS 22.52 71 eP 45 45.50 0.5					
0.6s 0.30nm 3.9mb X						IZM 2.83 123 ePn 02 55.00 -0.4						1.0s 17.90nm 4.5mb					
NB2 116.71 340 PKP 44 01.90 -0.6						BNT 2.84 81 ePn 03 00.00 4.5X						WLF 22.57 77 P 45 46.00 0.5					
0.8s 1.70nm 4.4mb						JMB 3.04 35 ePg 03 06.00 7.7X						GDH 22.77 338 iPd 45 46.00 -1.3					
GEC2 123.57 328 PKP 44 16.10 0.1						IGT 3.05 263 ePn 02 58.00 0.5						1.0s 20.00nm 4.6mb					
0.5s 1.72nm 4.4mb						VTS 2.72 344 iPc 02 54.00 0.1						HAU 23.16 81 eP 45 51.20 -0.1					
GRF 124.33 330 e(PKP)44 07.00 -10.4X						EDC 2.79 81 ePn 03 00.00 5.2X						1.4s 58.40nm 4.9mb					
BCAO 133.03 271 ePKPd 44 35.50 0.4						IZM 2.83 123 ePn 02 55.00 -0.4						Z 22s 0.90um 4.2Msz X					
0.5s 5.00nm 4.4mb						BNT 2.84 81 ePn 03 00.00 4.5X						LMN 24.22 274 eP 46 11.00 9.4X					
S.D. = 0.6 on 31 of 36 obs.						JMB 3.04 35 ePg 03 06.00 7.7X											
FEB 28, 1993 17h 52m 08.27± 1.48s						IGT 3.05 263 ePn 02 58.00 0.5											
36.984 S ±11.3km 176.873 E ± 8.9km																	
DEPTH = 275.6 ± 10.4 km																	
OFF E. COAST OF N. ISLAND, N.Z. (160)																	

	1.5s	27.00nm		5.3mb
Z	20s	0.25um		4.6msz
		pP	53 27.00	17kmx
		sP	53 32.50	
8J1	85.37	26 eP	53 22.00	-0.5
	1.2s	16.00nm		5.1mb
TIY	86.38	30 eP	53 29.90	2.2X
WB2	147.33	30 ePKP	00 07.40	-19.6X
	0.7s	3.20nm		
S.D. = 1.0 on 59 of 75 obs.				
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? FEB 28, 1993	20h	18m	58.80± 1.31s	
	26.258 S ± 8.9km		64.750 W ± 15.8km	
	DEPTH = 10.0km		(geophysicist)	
TUCUMAN PROVINCE, ARGENTINA				(131)
FSA	1.15	278 iP	19 20.00	-0.2
		(S)	19 32.50	
CYA	2.37	203 eP	19 39.00	0.7
HJA	3.09	349 eP	19 11.00	-37.5X
YJA	4.13	350 ePc	20 03.80	0.1
TCA	5.06	178 iP	20 16.10	-0.5
		(S)	21 38.00	
S.D. = 0.9 on 4 of 5 obs.				
<hr/>				
? FEB 28, 1993	21h	48m	01.33± 1.03s	
	26.063 N ± 10.6km		101.930 W ± 19.9km	
	DEPTH = 5.0km		(geophysicist)	
NORTHERN MEXICO				(522)
	mbLg 3.8 (GS).			
LTX	3.60	335 Pn	49 04.69	5.6X
		Pg	49 20.50	
		Lg	50 16.79	
AGX	4.18	185 (P)	48 55.50	-11.6X
		iS	49 33.00	
MZX	4.98	236 iP	49 19.00	0.4
		(S)	50 30.00	
MRX	6.36	174 iP	49 38.00	-0.1
		(S)	50 45.00	
CGX	6.49	193 (P)	49 43.00	3.0X
UNM	7.16	159 iP	49 54.00	4.4X
PPM	7.60	156 iP	50 06.00	10.0X
WMOK	9.06	17 ePn	50 16.65	0.8
		S	53 05.83	
MEO	9.16	18 iPd	50 21.80	4.7X
ACX	9.35	168 (P)	50 33.00	13.2X
ALO	9.67	337 (Pn)	51 00.50	36.1X
		S	53 24.55	
ACD	10.87	12 (P)	50 55.70	15.1X
ACO	10.87	12 Pn	51 02.20	21.6X
		Lg	54 08.10	
YKA	37.40	350 eP	55 15.50	-1.1
	0.6s	0.20nm		3.0mb
S.D. = 1.5 on 4 of 14 obs.				
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FEB 28, 1993	23h	24m	38.93± 0.70s	
	35.213 N ± 8.6km		26.234 E ± 6.2km	
	DEPTH = 10.0km		(geophysicist)	
	3.3mb (1 obs.)			
CRETE				(370)
	MD 3.7 (ATH).			
NPS	0.51	276 ePb	24 50.00	0.7
KSL	2.87	71 ePn	25 29.00	3.4X
VLI	3.07	300 ePn	25 28.00	-0.3
IZM	3.28	14 iPn	25 31.20	-0.3
KHL	4.08	39 ePn	25 45.00	2.3
BCK	4.17	56 ePn	25 44.00	-0.1
EZN	4.61	1 eP	25 48.20	-2.0
CSS	5.82	90 eP	26 07.40	0.0
		eS	27 17.40	
BG10	8.17	113 eP	26 40.80	0.3
SAG1	8.67	123 eP	26 46.80	-0.5
		eS	28 14.10	
MBH	9.10	124 eP	26 52.80	-0.5
GEC2	16.47	330 Pn	28 36.40	4.8X
YKA	77.67	343 eP	36 37.10	0.3
	0.4s	0.10nm		3.3mb
S.D. = 1.1 on 11 of 13 obs.				
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% FEB 28, 1993	23h	36m	59.48± 0.83s	
	39.343 N ± 8.0km		27.991 E ± 8.5km	
	DEPTH = 10.0km		(geophysicist)	
TURKEY				(366)
</				

DST	0.56	62	iPg	37	10.30	-0.5
			iSg	37	19.30	
KCT	0.95	17	iPn	37	17.90	0.4
EDC	1.01	354	iPn	37	18.00	-0.5
IZM	1.10	211	iPn	37	20.20	0.0
EZN	1.37	291	iPn	37	24.70	0.1
YLV	1.62	41	ePn	37	28.90	0.7
S. D. = 0.6 on 6 of 6 obs.						

X = data received for this 6-hour time period

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
BHG	X	X	X	X	X			XXX		X	X			XXX	X		XXX	X	X		X	XX			X	X	XX		
BHL		X	XX		X	X			X	X			XXX	X			XX	X		X	XXX			X	X	X	X		
BIM		XX		XX		X	X	X	X	X		X	XX	X			X		X	XXX	X	XX	X		X				
BJI	XXX	XXX	XXXXXX	XXXX	X	XXXXXX	XXXXXX	X	X	XXXXXX	X	XXXXXX	X	XXXXXX	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
BKM	XXXX	XXXXX	X	XX	X	XXXXXX	XX	XXXXXX	XXX	XXX	XXX	XXX	XXX	X	XX	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
BKS	X		X			X			X		X		X	X	X			X		X									
BLF				X	X	XX	X											XXXX	XX			X	X	X	X	XX	X		
BLW	X	X			X	X	XXX	X			XX	X	X	X		XX	X	XX	X		XXXX	X		X				XX	
BMA	X				X		X	X			XX			X		X	X	X	X			X	XX	X			X		
BMG	X	X			X	X	X			XX	XX	XX	X																
BMW	XX		XXXX		X	X	X	X			X	X		XX	XXXX		X		X					X	XX	XXX	X	X	
BNI	XX		X	X	X			XXX		XXX	X	X	X	X	XXXX	X	XX		XX	X	X		X	X	X	XX	X	X	
BNN		XX	X	XX	X			X	X	XXX	X	X	X			X		X				X	X		X	X	X	X	
BNS		X		X			X				X			X			X				X	XX				X	X		
BNT	XX	XXX	XX	XXX	XXX	XXXX	XX			X				X					XXXXXXXX				XX	X		XXX	XXX	X	
BOB	XX	X		X	XX	X	X	XX		XXXX	X	X	X	XX	X	XX		X	XX	X			XX	XX		X	X	X	
BOD	XX	X	X	X	X	XX	XXX	X	XX	X		XXXX	X								X	XXX	X	XX	XX	XX	X	XXX	
BOG	X	X			X	X	X		X	XX	XX			XXX			X	XX			X		X		XX		X	X	
BOM		XX	X	X			X	XX	X	XXXX	X				XXX			XXX							X	X			
BONR	XX	XX	X	XXXX	XX	XXX	XXX	X	X	X	XXXX	X	XXXXXXXXXX	XX	XXX	X	XXXXXXXXXX	XXXX	X	XX	X	XX	XXX	X	X	XXX	X	XX	XX
BPA	X	XX	X				X	X	X		X	X												X	X				
BRD		X	X	X	X						X	X									X	X		X		X			
BRG	XX	XXXX		XXXXXX	XXXX	XXXXXXXX	X	XXXXXXXX	XX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BRLK	X	X	X		X	XXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BRS	XX	X	XXX	X	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	X	XXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BRT		X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BRU	X	XXX		X			X					X			X									X					
BRVK	XX	XXX	X	XX	XX																								
BRW	XX	XX	X	X	X	X	X	X	X	XX			XXX	X	XX	X	X		XXXX	XX	X	XX	XX	XX	XX	XX	X	XX	
BRY	XX	X		X	X	X	XX	X		X	X		X	X	XX	XX	X	X		XXXX	X	XX	X	XX	XX	X	XX	XX	
BSD							XX			X			X	X							XX			X				X	
BSF	XXXX	XXXXX	X	XX	X	XXXX	XXX		X	XXX	X	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BSZ	X	X	X	XXXX		X	XX		XX	X	X	X	X	X	XX	XX	X		XXXX	X	X		X		X		X	XXX	
BTH	XX	X	X	X	X			X	X	X	X		X	XX	XXX	X	XX	X	XX	X	XX	X	XX	X	X				
BTO	XX	X	X	X	XXXX	XXXX	X	XXXX	XXXX	X	X	XXXX	X	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX				XX	XXX	XX
BUD		X	X	X			X	X					XX	X	X	X	X	X	X	X	X	X							
BUL	XXX	XXXXX	XX	XXXX	XX	XX	X	X	XXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BUT		X					X						X	X					XX			X	X		XX		X		
BW06	XX	XX	X	XXXXXX	X	XXXX	XXXX	XXXX	X	X	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	X	XX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
BWA		XXX	X	X	X	X	XX	X	XX	X	XXXX	X	X	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BWZ		XX	X	X	X	X	X	X	X	XX			X	X	XX	XX	X		XXX	X		X	X	X	X	X	XXX		
BZS												X	X	XXX	X						XX		X	X	XX	X	XX	X	
CACH		XX	X	X	XXX	X		X	XX	X			X	XXX		XX	X	XX	XX	X	XX	XX	XX	XX	XX	XX	X	X	
CAF	XX	X	XXX	X	XX	X		XXX	X	XXXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CALA	X	XX	X	X	X	XXX	X	X	XX		XX	X		XXX	X						X	X						XX	
CALN	X	X	X	X			X	XX				X	XX	X	X								X	X	X	XX			
CAN		XXX	X	X	XX	X	XX	X	XXXX	XXXXXX	X		X	XX	XXX	XXX	X	X	XXXX	XXXX							XX	XXXX	X
CAW	X	XXXX	X	XXXX	X	X	XXX	X	XXXX	XX	X	X	X	XXX	X	XX	XX		XXXX	XX	X				XXX	X	X	XXX	
CBM	X	XX	X	XXXX	X	X	X		XX	X	X	X	XXX	X	X	X	X		X					X	XX		XX		
CBN		X	X		X	X	X	X		X			X	X										X			X		
CCB	X	X		X	XX	X	X		X	X	X	X	X	XX	XXX	X	X	X		X	X		X	XXXX	XX	XX			
CCH		X	X	X	X	X	X	XXXXXX	XXXX	XX	XXXXXX	XX	XXX	X	XXXX					XX	X		X	X	X		X	XX	
CD2	XX	XXXX	X	XXXX	X	XX	X	XXXX	XX	XXXX	XX	XXXX	X	XXXXXX	XXX	XXXXXX	XXX	XXXXXX	XXX	X	XXX	X				XX	XXXX	X	
CDCB							X		XX						X	XX	X				XX						X		
CDD		X	X	XX	X	XXXX	X			X	X	X	XXX	XXX	X	X	X	X		XX	X	X	X	X	X	X	X		
CDF	XXXX	XX	XXX	X	XX	X	XXXX	XXXX	X	XXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CDR	XXXX	XX	XXXX	X	XX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX		X	XXXXXXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	
CEH		XX	XXXX	X	X			X	X	X		XX	X	X	X	X	X	X	X	X				XX	XX			XX	
CEOS	X		X					X	X			XX	X		XX	X													
CER																			X	XX	XX		XXX	X	X	X	X	X	
CEY	XX	XXX	X	XX	X	X	X	XXXXXX	X		X	X	X	X	X	X	X	X	X	X	XX	XX	X	X	X	X	X	X	
CFA	XX	XXX	XX	XX	X	X	X	X	X	X	X	XXXX	XX	XX	X	XXX	XXXXXX	XXXXXX	XXXX	X	XX	XX	XX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
CFR		X		X			X	XXX	XX		X	X	XX	X		X	X	X		X	X	XXX	X	XX	X	X	X	X	
CGLM													X	X									X	X	XXX	X	X	X	
CGP	XXXXXXXX		XXXX	XXX	XX	XXXX																				X	XX	XX	X
CGX			X		X	X	X					X			X	X	X	X										X	
CHCH		XXX	X	X	XXX	X	XXX	X	XX	X	X	X	XXX	XXX	X	X	XXX	XX	X	XX	XXX	X	XX	X	XXXX	XXXX	XXXX	XXXX	
CHG		XXXXXXXX	XXXXXXXX	XXXXXXXXXXXX	X																								
CHJJ	X	X		X	XX	XXX		XXXX	X	X	XXXX	X	X	XX	X	XXXXXX	X	X	XX	X	X	X	XX	X	X	XX	XX	X	
CHTO							X		X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
CIN	XX	X	X	XXXXXXXX	XXXX	XXX		XXXXXX				XXXX				XXXX	XXX	XXXX	X	XXX									
CIR		X	X	X			X	X			X	X				X			X	XX	XX	X	XX	X	X	X	X	X	
CIT	XX		X	X	X	XX	XX	X	XX	X		XX	X									X	XXX		XX	X	X	XXX	
CKI	XXX		X		X	X	XX		X	XX	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	
CKL	X	X	X		XX	X	XX	XXXXXX		X	XX	X	X	XX	XXX	X	XX	XX	XX	XX	XXXX	X	XX	XX	XXXXXX	XXX	XXX	XXX	
CKN	X	X	X		XX	X	XX	XXXX		X	XXXX	X	X	XX	XXX	X	XX	XX	XX	XXXX	X	X	XX	XXXXXX	XXX	XXX	XXX	XXX	
CKT	X	X	X		XX	X	XX	XXXX		X	XXXX	X	X	XX	XXX	X	XX	XX	XX	XXXX	X	XX	XX	XXXXXX	XXX	XXX	XXX	XXX	
CLL	XX		XXXX	XXXX	X	XX	X	XXXX		X	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XXXXXX	
CMB	X		XX	X	XXX	XX	XXX	X	X	X	XX	XXX	X	XXX	XXX	XX	XXX	X											

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
CMP	x	x	x	x					x	x	x		x	x	x	x	x	x	x			xx		xx			x			
CMS	xx	xxx	x	x	x	x	xx	x	x	xxx	xxxxxx	x	x	xxx	xxx	xxxxxxxxxxxx	xxxxxx	xxxxxx	xxxxxx	xx	xxx	xx		x	xxxx	x		xx	xxxx	x
CN2	xxx	xxxx	x	x	xx	xxxxxx	xxxxxx		xxxxxx	x	xxxx	x		xxxxxx	x	xxxxxx	xxx	xxx	xxx	xxxx	x	xxx						xx	xxxx	x
CNB	x	xxxxxx	x	x	x	xxx	x	x	xxxxxx							xx	x	xxxxxx	x	xx		x	x		xx	x	x	x	x	x
CNCB	xxxxxxxxxx	xx		xxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx
CNPM																														
CNZ	x			xxx	x		x			x	x	x	x			x	x	xx	x		xx	xx	x	x		x	x	x	xx	xx
COE	x			x		x	x		x	x	x	x	xx	xx		x	xxx			x								xx	xxx	
COLF	x		x	x										x	x													x		xx
COOL				x	x	x	x		x	x																			x	x
COP																														
CP2	xx	x	x	x		xx	x	xx		xx	xxx	x	x	xxxx	xxx	xxx	x	xxx	xxx	xxx	xx	x	xxxxxxxxxxxxxx	xxxxxxxx	xxx	xxx	xxx	xxx	xxx	xxx
CPA																														
CPAM																														
CPD	xx																													
CRE	xxx	xx	xx	xx	x	x	xx		xxx	x	x	x	x	xx	xxx	x	x	x	x	x	xx	xxx	x		x	xxx	x	x		
CRM	xx																													
CROR	x	xx	x																											
CRP	x	x	xxx	xx	xx	x	xx	xxx	xxxxxxxx	x	xxxxxxxxxx	xxx	x	xxx	xxx	xxx	xx	x	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
CROM																														
CRZF																														
CSS																														
CSY																														
CTA	xxxxxxxxxxxxxxxx	xxxx	xxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx
CTGM																														
CTI	xx	x	x	x	xx	x	xxxxxx	x	x	xxx	x																			
CTK																														
CUT	x	xx	x	xxx	x																									
CVA																														
CVL																														
CVO																														
CVP	xxxx	xx	x	xxx	xxxxxx	xx	x	x	xxx																					
CVT	x	x																												
CYA																														
CYK																														
DAG	xxxx	xxx																												
DAU	x	x	x	xxxxxx	x																									
DAV																														
DCN	x	x																												
DEG																														
DFR	x	x	x	xx	x	xxxxxx	x	xxx	x	x	xx	xxx	xxx	x	x	xxx	xx	xx		xxx	xxx		xxx	xxx	xxxxxx	xxx	xxx	x		
DHJN																														
DIW	x	x	x	xxx	x	x	xx	x	x																					
DIX	x	x	x	x	x	xxx	x	xx	x																					
DL2																														
DLF	x	x																												
DMK																														
DMN	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx					

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			
ELO	x	x		x						x	x			x								xx	x								
ELT	xx	xxx	x	x	xx	xxx	x	x	x	x	xx	x										x	xxx	x	xx	xx	x	xxx			
ELUO		x					xx			x		x	x	x		x	xx	x			x	xx		x							
EMON		x		x		x			x	xx			xx	x		xxx	x					xx									
EMS	x	x	x	x	x		xx		x		xx		xxx	x		x					x	x	xx		x	x	x	x			
EMUT	x	x	x	xx	xx		x	xx	x		xx	xxx	x	x	xxx	x	xx	x	x	xx		x	x	x		xxxxx	x	xx			
ENIJ			x			x		xx		x	x	x		x		xx	x	x			x	x									
ENN	xx	x	xxxx	x	xx	x		xx		xxx	x		xxxx	x	x	xxx	xx	xx		x			xx		x	xx	xxxx	xx	x		
ENR	x	xx		x	x		xx	xxx		x	x	x	xx	x		xx		xxx	xx	xx	x	x		xxxx	x	xx	x	x	xxx	x	x
EPF	xx	x	xx		x	x		xx	xx	xxx		x	xxxxx	x	x	xxx	x	xx	x	xx	x	xx		xxxxxx	x	xxxxx		xx	x		

EPLA		x	x		x			x	x	xx			xx		xxx	x	xxxxx	x		x		xx			x	x		x			
EPRU		x	x		x		x		xx			x	xx		xx	x	x	x		x		xx									
ERC	xx	x						x				x		x			x	x	x									x			
ERE																				x		xxx		x		x		x			
EROO			x				x		xx				x			x		x	x	x	x			x	x						
ERUA			x		x		x		xx				x	x		x	x	x				xx				x		x			
ETOR			x		x		x		xx				x	xx	x	xxx	x	xxx	x		x	xx		x	x	x					
EVAL		x	x		x		x		xx	x	x	x		x		x	x	x			xx	xx			x	x	x		x		
EVIA			x		xx		xx		xx		x	x	xxx	x		xx	x	xx	x	x		xx		x		x	x				
EYL		x		xx		x	xx		x	xx	x		xxxxx	x	x		xx		x	x	xxx	xx	xx					x	xx	x	

EZN	xxx	x	xxxxxxxx	xx	xxx	xx	xxx	xxx	xx	xxx	xxxxxxxx	xx	xx	xxx	xx	x	xxxxxxxx	xx	x	xxxxxxxx	xx	x	xxx	x	x	xxx	xxxxx	xxxx	xxx		
FAM			x	x			x									x	xx							x	xx						
FBA	xxx	xxx	xxx	xxxxxxxxxxxxxxxx	x	x	xxxx	xxxx	xxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxx	xx	
FCC	xx	xxxx	x	x	xxxx	x	x	x	xx	x	xxxx	x	xxxxxxxx	x	x	xxx	x	x	xxx		xxx	xxxxxxxx	xx	x	xxxxxxxx	x	x	xxx	x	xxx	x
FCH	xxx	x	x	xxx	x	xxx	x	xx	x	x		x	xxx	xxx	x	x	xxx	xx	x	xx	xxx	x	xx	xxxxx	xx	xxxx	xxxx	xxx	xxx	xxx	
FDF	xx			x		x	x	x	x			x	xx	x		x					x	xxx	x	xx	x			x			
FEL	xx	xx	x	xx		xx	x	xxx		x	xx	xx	xx	xxxxxxxx	xx	x	xxx		x	x	x	x	xxxxx	x	x	xx	xx	x	x		
FHC							x									x												xx	xx	x	x
FID	x	x	x		xx	x	x		x	xxx	x	x	xx	x	x	xxx	x												x	x	
FIN	x	xx		x		xx	xxxx	xxx	x	x	x		xx			x	x	xx	x	x						x	x	xx	x		

FINC	x		xx	xx		x	x		xx	x	x	x	xxx		xx		xxx	xx		x	x		x	x		x	xxx	x	xx	xx	x
FIR	xx		x		x	x		xx		x	x	x		x	x		x	x			xx				x	x	x		x		
FLN	xx	x	x	xx	xx	xx	xx	xx	xx	xxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	xxxxxxxx	x	x	xxx	x	x	x	xxxx	xx	xxx		
FMW	x		x	xx									x				x				x			x	x	x	x	xx			
FNA		xx	xx		x	x	x	xxxxx		xxxxx	x	xx	xxxx	x	xxxx	x	xx	xxx	x	xxxx	x	xxx	x	xxxxx	x	x	x	xx	xx	x	
FNO					x	xx		x	x				x	x							x				x			x	x		
FORT		xxx	x		x	x	x	x				x	xx		xxx	x	x	x	x	xx		x	x	x	xx	x	x	x	x		
FRF	xx		x	x		x	xxxx	x	x		xx	xx	xx	x	xx	x	x	xx	xx	x	x	xx		xx	xx	x	x	x			
FR1						x				x				x	x																
FRS	x	xxx	x	x	xx	xx	x	x						x		x	x		xxxx	xx			x	x	x	x	xx		x		

FRU	x		x	x	x	xx	xx		x	xx	x		xxxx									x	xx		x	xx	xx	x	xx		
FSA	x		xxx	x	x	x	x	xx	xx	xx	xxxx	xxxxx		x	x	xx		xx	x		xxx		xxxx	xx		x	x	x	xxx		
FUR	x	x		x	x		x	xxx		x	x		x	xxx	x	xx	x	xxx	x			x	xx			x	x	x			
FV1	xx		x		x	x		xxx	x	x		xx	xxx	x	x	xx		x	xx	x	x	xx		xx	x		xx	x			
FVM	x		xx	xxx	xx	x	xxx	xx	x		xxxx	x	x	xxxxx	xx	xx	xx	x	x	xxx		xxx	xxxxx	x	x	xx	xx	x	xx	x	
FYU			x			x								x	xx	x					x							xx			
GANF	x					x								x			x	x	x												
GAZ	x	xx	xxxxx	xxxx	x	x	xxxxxxx	x					x	xxxxx		xx	xx	x	xx	x	x		x	x	x	xx	x	xx	x	xxx	x
GBA	xxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx
GBTN			x	x	x		x	x	x	x	x		x								x										

GB2T					xx	x		x	xx	x	x	xx	xxx	x	x	xx	xx	x	xx			xx		x	x						
GCC	x							x						x		x	x				x				xx			x			
GDH																				x	x	x		xxxx	xx	x	x	x	x		
GEC2	xxxx	xxxxxx	xxxx	xxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	
GELF		x																													
GGC		xx								xx	x																				
GHO	xx	x	x		xx	x	xx		xx	xxx	x	xxxx	x	x	xx	xxx	xxx	x	x		xxx	x	xx	xx	xxxxxxxx	xxx	xx	xx			
G1B	xx	xxxx	xxx	xxxxx		xxxxxxxx	xx	xxxxxxxxxxxxxxxx	xxxx				x	x	xx	xx	x	xx	xxx												
GKN	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxx						

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
GUN	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
GZA	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
GZH	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
GZR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HAU	XXXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HBF																												
HBM																												
HBZ	XX	X	X	XX	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HCV	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HDA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HFS	XX	XXXXXX	X	X	XXXXXX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
HMA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HMC	XXX	XXX	X	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
HIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HJA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HKC	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HLW		XX	X	X	XX	X	X	X	XX																			
HMD																												
HMR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HNR		X	XXXX	X	XXXXXX	X	X	XX	X	XXXX																		
HOF	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HON	X	XX	X	XXX	X	X	X	X	XX	X	XXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HOJ	XX	X	XXXXXX	XX	XXX	X	XXXX	XX	X	XX	X	X	X	XX	XXX	X	X	XX	XX	XXX	X	XX	X	X	XX	XX	XX	
HOR	X	XX	X	X	XXX	X	X	XX	XX	X	X	X	XXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HON					X	XX	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HR	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HRT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HRV		XX	X	XX	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HRV		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HSJ																												
HUR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HVAR	XX	X	XXXXXX	X	X	X	X	X	XX	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HVU	XX	XXX	XXX	XX	X	XXX	X	XX	X	X	XX	XXXX	XX	XXX	X	X	XX	XX	XXX	X	XX	XX	XXXX	XX	XX	XX	XX	
HVA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HYB	XXXX	XXX	X	X	XX	XXX	XXX	X	XXX	XXXX	X	XXXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HYF																												
IFR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IGT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IHA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IDJ	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
III																												
ILIM																												
ILT	XX	XXX	X	X	XX	X	X	XX	X	XX	XX	XXX	X	X	XX	XX	XXX	XX	XXX	XX	XXX	XX	XXX	XX	XXX	XX	XXX	
IMA	XXX	XX	X	XXX	XX	XXX	XXXXXX	XXXXXX	X	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	
IMI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
INE	X	X	X	XX	X	XXX	X	XXX	X	X	XX	XXX	X	X	XX	XXX	X	XX	XX	XXX	X	X	XXX	XXX	XXX	XXX	XXX	
INW	X	X	X	XX	X	XXXX	X	XXX	X	X	XX	XXX	X	X	XX	XXX	X	XX	X	XXX	X	X	XXX	XXX	X	XX	XX	
IPM	X	X	X	X	XX	X	XXX	XXXXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	
IRK	XX	X	XXX	XXX	X	X	X	XX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	
ISA	X	XX	X	XXXXXX	X	X	X	XXXX	X	XXXXXX	X	XXX	X	XXXX	X	X	XX	X	XXXX	X	X	X	X	X	X	X	X	
ISK	X	X	XX	X	X	X	X	XX	X	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ISR	X	X	XX	X	X	X	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ITU																												
IYA	XX	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IZM	XXXXXX	XXXXXX	XX	XXX	XX	XXXX	XX	XXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	XXXXXX	XXXX	
JACH	XXX	X	X	XXX	X	XXX	X	XX	X	X	XXX	XXX	X	X	XXX	XXX	X	XXX	XXX	X	X	XXX	XXX	XXX	XXX	XXX	XXX	
JAO																												
JCW	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
JSC																												
JVI																												
KAF	XXXX	XXX	X	XXXX	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
KAGJ	XX	XXX	X	X	XXX	X	XXX	X	X	XX	XXX	X	X	XXX	X	XX	X	X	XXX	X	X	X	X	X	X	X	X	
KAIM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KAKJ	X	XX	X	X	XX	XXX	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KAS		XXX	X	XX	X	XXX	X	X	XXXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KAT	X	X	X	XX	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KBA	XX	XX	X	X	XXXX	X	XX	XXX	XX	XXX	XXX	XX	XXXX	X	X	X	XX	XXX	XX	X	XXXX	XXX	XXXX	XXX	XXXX	X	XX	
KBS																												
KCT	XX	XX	XXX	XXX	XX	XXXX	XX	X	X	XXX	X	XXXX	X	XXX	X	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
KDC	XX	XX	X	XXX	XX	XXXXXX	X	XXXX	X	X	XXX	XX	XX	X	XXXX	X	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	
KDZ																												
KEK	X	XX	XX	X	X	X	X	X	XX	X	X	XX	XXXX	XXX	X	XX	X	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	
KER	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KEV	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KGM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KHC	XXX	X	XXX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
KHKI	X	X	X	XXXX	X	XX	XXX	XX	X	XXX	XX	X	XXXX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
KHL	X	X	X	XXXX	X	X	XX	XX	X	XXXX	XXX	X	X	XXX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
KHT	XXXX	XXXXXX	XX	X	X	X	XX	XX	X	X	XXX	X	X	XXXX	XX	XX	XX	XX	XXXX	X	X	X	X	XX	X	X	XX	

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
MBH	x	x	x	x	x	x	x	x	xx	xx	x	xx	x	xx	xx	xx	xx	xx	x	xxx	x	x	x	xx	xx	xx	x	xx
MBO				xx	x		x		x				x	x	x										x	x		
MCK	x	x	x		xx		x	x		x	x		x	x	xxx	x	x		x		x		x	x	xxx	x	x	xx
MCMT			x	x					x	x			xx	x				xx				x	x	xx	xx		x	
MCNL	x	x	x	xx	x	xxxx		x	xxx	x	x	x	xxx	xxx	x	x	x	xx	x		xxx	x	xx	x	xxx	xx	xxx	xx
MCO	x		x	x	xx	xx		x		xx	x		x				x			x				x	x	xx	xx	
MCO		x												x			xx								x	xx	x	
MCT		x					x		x	x	x		x	x	x		x	xx	x				x			xx	x	
MCW	x	xx	xx				x	x	x	xx	xx		xxxxxx	x						x					x	x	x	
MCWV			x		x		x		x				xx					x	x	x					x	x		
MDG		xx	xx	x	x	xx		xxx	xxxxxx	xxxx	x	xx	xxx	xx	xxx	x	x	xxx	x	x	x	x	xxx	xx	xxxx	x	xxx	xx
MDI	x		x	x					x	xx		x	x	x	xx		x		x		x	xx				x	x	
MDJ	x		x	x	x	xx		xx	x	xxxx		xxxxxx	x	xxxx	x	xxx	xx	xxx	xx	xx	xx	xx	xx			xx	xx	
MDM	x	x	x				x	x		x	x		x	x	xxx	x		x		x				x	xxxx		xx	
MDZ	x	x	x	xx	xx	xxx	x	xxxx	xxxx	x	xx	xxx	xxx	x		xxxxxxxx	xx	x		xxxxxx	xxxx	xxxx	xxxx	x		x		
MEEK	xx	x	x	x	x	xx	x	x		xxxxxx	x	x	x	x	xxx	x	xxx	x	xxxx	xx	x	xx	x	x	xx	xxx	x	x
MEMM	x			x		xx	xx	xx	x	x	xxx	x	xx	xxxx	xx	x	xxx	xx	x		x	xx	x	x	x	xx	xxx	
MEMT											x		xx	x			xx			x	x			xx		x		
MEO	xx		xx	xx	x	x	x	xxxxxxxx	x	x	xx	x	xx	xxxxxx	x	xx	x	x	xx	xxx	xx	xx	xx	x	xxxxx	x	xxx	x
MEU	x	x	x	xx	x		x			x	xx	xx	xx	x	xxx	x	x		x			x	x			xxx		
MFF	xxxx	xxxx		x	xx	xx	x	xxxx		xxxxxx	xxx	xxxxxxxxxxxx	xxxxxxxx	xxxxxx	xxxx	xxxx	xxxx	xx	xxxxxxx	x	x	xxxx	xxxx	x	xxx	x	xxx	x
MGD	xx		xxx	x	x	xx	xx	x	xx	x		xxxx	x						x	xxx	xxx	xx	xx	xx	x	xxx		
MGG	x	xx	x				x	x	x		x		xx				x	x		x	xx	x	x		x	xx		
MGH	x	x	x				x	x	x								xxx		x		x	x	x	x	x	x	x	
MGP	xx	x					x	x			x		x	x		x	x	x		xx							x	
MGR	xx	xx	x		x	xxx	x	xxxx		xxxx	xx	xxx	x	x	xx	x	x	xxxxxx		x	xxx	xx			xx			
MHC	x			x	x	x				x	x	x		x	x	x		x		x	x		x			x		
MHZ			xx	x						x	x			xx	x	xx				x					x	x	x	
MIAR	xx		xx	xxxxxx	x	x	x	x	xxx	x	x		xx	xxx	x	xx	xxx	x	x	xxx	xx	xx		x	xx	x	x	x
MID		x					x	x		x		x	x	x			xx	x					x	xx	x	x		
MIN						x			x		x			x										xx		x	x	
MJMA		x	x		x			x	x	xx		xx	xx	xx	x		xx				x	x	x	x				
MKS				x						xx		xx		xx			x	x			x		x	x	x			
MLR	x		xxxxxxx	x			xx	xxx	xxxxxxxx	x	xxxxxx	x	x	x	x	xxxxxx	xxx	xxx	xxxxxx	xxxx	xxxx	xxx	xxx	xx	xx	xxxx	xx	
MMB	x		x				x	x	x		x	xx	x	xxx		x	x		x		x		xx				x	x
MMCZ			x	x				x	x		x			xx	x	xx			x					x	x	x		x
MME	x	xx	x	x	xx		xxxx						x	x	x		x		x		xx	x	x	x	x	x	xx	
MMK	x			x		x	xxx		x	x			xxx	x			x	x			xx	x		x	x	x	xx	
MMPM	x			x		x	x			x			x	xx	x	xx		x		x								
MNDI		x						x		x	x	x	x		x	x							x			x	xx	
MNG	x	x	xxxxxxxxxx	x	x	x	xxx	xxxxxxxxxxxxxx		x	xxxx	x	x	xxxxxx	xx	xxxx	x	xxxx	xxx	x	x	x	x	x	xxxxxx	xx	xxxx	
MNI				xxx		xxx	x	xx			xxxx					xxxx				xxx		x	xx	x	xx	xxxx		
MNK		xx	x				x	x		x										xx	x	x			x		x	
MNO	x	x	xx	xx	x	xx	x	xx	x	xxx	xxxxxxxx	x	x	x	xxxx	x	xx		x	x	x			x	x	xx		
MOF	xx		x	x	x		xxx		x	x	x	xxx	x	x	x		x		x	xx		xxxx			x	x		
MOH		x		xx	x	x		xxx		x	x	x	xx	x		xx		xxx	xx	x			x		x	x	x	
MOR7							xx		x	xx	xx	xxx			x	x	xx	xx	x		xx			x				
MOS		x	x	x	x		x	x		x										xx				x	x	x	x	
MOTA	xx		x	x	xx		x	xx		x	x		x	x	x	xxx	x			x	xxx	xx	x	x	x	x	x	
MOW	x		xxxxx	x	x	x	xxx	x		x	xx	x		xxx	xx	x		xxxx	x	x			x		x	x	xxx	
MOX	xx		xxx	x	xxxx		x	xxxxx		x	xxxxxxxx	xxxxxxxx	x	xx	x	xxxxxxxx	xxx	x		xxx	xxx	xxxx	xx	xxxx	x	xx	x	
MOY	xx		x	x	x	xx	xx	x	xx	x		xx	x						x	xxx		x	xx	xx	x	xxx		
MPA	x	x	x		xx	x	xx	xxxxxx		x	xxxx		x	x	xx	xxx	x	x	xxx	xxx	x	xx	xxx	xxx	xxx	xxx	xx	x
MOZ	x	x		x	xxx	x	xx	x	xx	x	x	x	x	x	xx		xxxx	xx	x	x		x		x	x	x	xx	
MRA		x	x	xx	xx	xxx	xx	xx	x	x	xxx	x	xxxxxx	xx		xxxxxxxxxx	xx	x	xxx	x	xxx	x	xxxx	xxxxxx	x	xx	xx	
MRCM	x			x	x	x	x	x	x	x	x	x	xx	xxx	x		x	x	x		x	x		xx	xx			
MRRJ	x	x	x	x	xx	x	xxx	xx	x		x	xx	x	x	x	xx	x	xx	x	xxx	x	xx	x	x	x	x	x	
MRW	x	xxxxxxxx	xxxx	x	x	xxx	x	xx	x	xx	x	x	x	x	xx	xx	xx	xxx	xx	x		x		x	x	xx	xxx	
MRWA	x		xxx	x	x	xxxx	x	x	x	xxx	x		x	x	xx	xx	xxx	xx		x	x			x	xx	xxxxx	x	
MRX	x			x	x	x	x	x		x		xx					x	x	x					x			x	
MSU	xx	xx	x	x	xxxx	xx	x	xxx	xxx	xxxxxxxx		x	xxxxxxxxxx	xxxxxx	xxxxxx	xxxx	xxxx		x	x	xxxx	xxx	xxxxxxxx	xx	xx	x		
MSZ		xx	x	x		x	x	x	x	x	xxx			x	x	x	xx		x	x	x	x			x			
MTA				x	x					xx	x										xxx			x	xx			
MTD	xxx	xxx	x	x	x	xxx	xx	xx	x	xx	xxx		x	xxx	x	xx	xx	xx	x	xxxx	xx	x	xx	x	x	x	x	
MTMJ	x		x	x	x	xx	xxxxxx	x	x	xx	xx	x	x		xxxxxx	x	x	xx	xx	x	x	xx	x	x	x		x	
MTN	xxxxxx	x	x	xxxxxxxxxx	x	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxx	xx	xx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxx	xx	xx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx							
MTU	x	x	x			x	xx	x	x	xxx	x	x	xx															
MTUM	x			x	x	xx	xx	x	x	x	xx	x	x	xx	xxx	xx	xxx	xxx		xx	x	x	x	x	xx	xx	xxx	
MTUR				x							x																	

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
NEA	x	x			xx	x	x		x	x		x	x	x	x	xxx	x		x		x		x	xxxx	xx	xx			
NEW	xx	xx	x	x	x	xxxx	xxx	x	xx	x	x	xxxxxxxx	xx				x	xxxx			xx	xxx	x	xx	x	x		x	
NGZ	x		xx	xxx	x	x	x			x		x	x	x		xx	xx		xx	xx	x		x		x	x		xx	
NI1J	x		x	x	xxx		xx	xx	x	x	xx	xx	x	x	x	xx	xx		xx	xx	x	x	xx	x		x	xx	x	
NJ2	x	xx	x	xxxx	xx	x	xxxxx	x	xx	x		xxxxx	x	x	xxxxx	xxx	xxx	x	xx	x	xxx						x	xx	
NKA	x		x	x	xx	xxxxxx	x	xx		x	x	xx	xxx	xxx	x	xxx	xx					x	xx	xxx	xxx	xxx	x	x	
NKY	xx		x	x	x	x	xx	x		x	x		x	x	xx	xx	x	x	xx		xx		xxx	x	xx	x		xx	
NMCC			x		x		x							x	x	x	x				x	xx	x	xx	x		x		
NNA	xx	xxxxx	x	xxx	xx	xxxxx	x		xxxxx	x		xxxxxxx		xxxxxxxxxxx	xxxx	xx	xx	xxxx	x	x	xxxxxx	xx	x	xxxxxxx	xx	x	xxxxx		
NNT	x	x	xx	x	xxx	x	xx		xxxxx										xxx		x	xxx	x		xx	x			
NOZ	x	x	x	xxxxxxxx	x	x	x	xxx	xxxxx	x	x	xxxx	x	xx	xx	xx	xx		xxxx	xx	x	x		x	x	xxxxxx		xxx	
NPS			x	x			x			x		x	x	x	x	x	x					x		x		x			
NRA0			x	xx	x	xx	x	x	xx	x	x	xx	x	xx	xx	xx	xx				x		x	xx	xx	xx	x		
NR1	xx		x	x	x	xx	x	x	xx	x	xxxxx										x	xxx	x	x	xx		x	xxx	
NRZ				x		x	x	xx				x	x		x	x			x				x					x	
NSS											x				x	x	x	x				xx		x	x	x			
NST	xxxx	x	x	x	xxxx	xx		x	x	xxxxx	x		xx	x	xxxxxx	xxx		xxxxx	xxxxx	x	xxx	x	x		x	xxx		xxx	
NTYM	xx		x			x	x	x		x	x	x	x	x	x	x	x				x			x		x		xx	
NUR	xxx	x	xxx	x	xxxx	x	x	xxxxxxx	xxxxxxx	x	xxxxxxxxxxxxx	xxxxx	xxx	xxxxxxx	xxxxx	xxx	xxxxxxx	xxxxx	xxx	xxxxx	xxxxx	xxx	xxxxx	xxxxxxx	xxx	xxx	x		
NVL			xxx	x		xx	x	x		x	xxx	x		x	xxx	xxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	x	x	x	x		x		
OBN		x	x	xxxx	x	x	xx	x	xxx	xx	x	xxxxxx	xxxxxxxxxxx	xxx	xxxxxxx	xxx	xxx	x	xx	xx	x	xxxx	xxxx	xx	xx	x	xxx	x	
OCO						x	x	xx		x	x	x	x	x				x	x	xx				x	x	x		x	
ODD1	x		x		x			x	x		xx						x												
ODZ		x	xxx	xx		x	x	x	x	x	x	x	x	x	x	x	x		xx	xx	x		x		x	x		x	
OFUJ	x	x		x	x	x	xxx	xxxxxx	x	xx	x	x	xx	x	x	xx	x	x	xxx	x	x	x	xxx	xxxx	x	x	x	x	
OGA	xx		x		x		xx		x	xx	x	x	x	x	x	xx	xx		x	xx		x			x	x		x	
OHR	xx	x	xxx	xxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	
OJC	xx	xx	xx	x	xx	x	x	xxxx	xx	xxx	x	x	xxx	x	xx	xx	xxx	xx	x	x		xx	xx						
OLLA		x			x				x	x			xx	x	xx	x	x												
OLY	x			xx	x	x	x	xx	x		x	x	x	xxx	xx	x	x	x	x			x	x		xx	xx	x	xx	
OPT		x	x		xx	x	xxxx		x			x		x							x	x		x	xxx				
ORI	x		x	x	xxx	xx	x	xx	x	xx	xx	x	x	x	x	x	x		x	x	x	xx	x	xx		xx	x		
ORO		x		x		x		xxxxx	x	x	xxx	xxx	x	xxx		xxx	x					x						x	
ORV	x		x	x	x	x	xxxxxx	xxx	x	xx	x	xx	x	xx	x	xx	x	xxx	xx		xx		x		xxx	x	xx	xxxx	
ORX	x		x		x		xxx	xxx	x	x	x		xx		x	x	x				x	xx		x		x	x	x	
OSS	x		x	x	x	x	x	xxx	x	x		x	xxx	x	x	x	xxxx	x			x	xx	x	x	x	x	x	x	
OUR	x		xxxxx	xx		xx	x	x	x	xxxxxxx	x	x	xxx	xxxxxxxxx	xxxx	xx	xxx	xxx	xx	xxx	xx	x	xxx	xxxxxxx	xxx	xx	xxxxx	xx	
OXX		xx	xxx	x	x	xx		xx	x	x	x	x	x	x	x	xx	x				xxxx	x	x		x	x	xxx		
PAB		x	x	x	xx	x	x	x	x	x	x	xxxxx		xxx	x	xx	xxx	xx	x	x	xx		xx	x	xx			x	
PAF			x	x	x	x		xxx		x			x				x	x	xx							x	x	x	
PAG	x	x		xx	xx	xx		x	x																				
PAHZ	x		x	x	xx	x	x	x	x	xxxx	x	x	x		xx	x	xx	x	xxxx	xx	x		x		x	x	x	x	
PAIG	x		xxxxx	xxxxx	x	xx	x	x	x	xxxxxxx	xxx	xx	x	xxxxxx	x	xxxx	xx	xxx	xx	x	xxxx	xxxxxxx	xx	xx	xxxxx	xx	xx	xxxx	
PAX	x		x		xx		x	x	x	xx	x	x	x	x	xx	x	xx		x		x		x	xx	xxx	xxx	xx	xx	
PCA						x	xx	x	x	xx	x		x				xx												
PCC		x					x		x					x	x	x					x				xx		x		
PCH		xxx	x	x	xxx	x	xxx	x	xx	x	x	x	xxx	xxx	x	xxx	xx	x	xxx	x	xx	x	xxxxx	xx	xxxx	xxxx	xxx	xxx	
PCI	xxx		xxx		x	x	xxxxx	xx	xx		xx		x	x	xx	xxxx	x	xxx			xx		x	xx	xxx	x			
PCP		x	x		x		xx	xxxx	xxx	x	x	x	xxx		x		x	x			x			x	x	x	xx	x	
PDB	x	x	x		xx	x	x	xxxx	x	xxxx	x	x	xx				x	x	xx	x	x	xxxx	x	xx	x	xxx	xxx	xx	
PEC		x		xx	xx	x	x	xxx	x	xxxxxx	x	xxxxxx	x	xxxxxx		xxxxxx	xx		x	xxx	xx	x		x	x	xx			
PEL	x	xxx	xx	xxxxxxxx	xxx	xx	xx	xxx	x	x	xxxx	xxx	x	x	xxxxxxx	x	xxx	x	x	xxx	x	xxxx	xxxxxxxxxxxxxx	xxxx	xxx	x			
PET	xx		xx	x	x	x	xx	x	xx	x											x	xx	x		xx	x	xx		
PGB		x				x	x	x	x	x		xxx		x	x	x					x								
PGC		x	x	x			x					x	x											x	x	x			
PGD	xxx	xx	xx	xx	x	x	xxxx	xxxx	x	xxx	xx	xxx	x	x		x	x	xx			x	xxx	x	x	x	xx	xxx	xxx	
PGF	xxx	x	x		x	x	xxxx	xxx	x	x	x	x	xxx	x	xx	x	xxxxx	x	x				x	x	x	x	x		
PGP		x	xx	x	xxxxxxxxxxxxxx	xx	x	xx	xx																				
PGZ																													
PHAM	x		x	x		x	x		x	x	x	xx	xxx	x	xx		x	x		x	x	x	x	x	x	x	x	x	
PICO	x	xx	x	x	xxx	x		xx		x	x		xxx	x	x						x	x							
PII		xx	x	x	x	x	xx	xxx	x	x	x	x		x	x					x		x			x	x	x	x	
PIP	x	x	xx	x	xx	xxxx	x	xxx	x	x	x	x																	
PJG		x	xx	x	xxx	x	x	x	xx	xxx		xx	x	x	xxxx	x	x	xx	x	x	xxx	xx	x	xx	xxxxxxx	x	xx	x	x
PKEM			x			x	x	x	xx	x	x	xx	x	x	xxx		x	x				x							
PKI	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
PLD						x	x	x	x	x																			
PLE	xx	x		x	x	x	xx	x		x	x	x	x	x		x	x	x			xx	xxx	x	xx	x	x	xx		
PLM	xx		xx	xx	xxx	x	xxx	x		xxxxxx	x	xxxxxx	x	xx		xx	x	xx	xx		x	x	xx	xx	xx	x	x	xx	
PLP	xxxxxxxxxxxxxxxxxxxxxx						xx	xxx																				xx	
PLRM	x	x	x		xx	x	xx		x	xxxx	x	x	xx	x	x	xxx	x	xxx	x	x	x	xx	x	x	xx	xxxxxxx	xxx	xx	xx
PMG	xxxxxxx	xx	xx	xx	xxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxx
PMO			x				x																						
PMR	xx	xxxx	xxx	xxxx	x	xxx	xx	x	xxxxxxxx	xxxx	xxxxxxxx	xxxx	xxxxxxxx	xxxx	xxxx	xxxx	xxxx	x	xxx	xx	xxx	xx	x	xxxxxxx	x	x	xxx	x	
PMS	xx	x	xx	xxx	x	xx	xxxxxx		xxxxxx	x	xxxx	xxx	x	x	x	xxxx	xxxx	xx	x	xxxx	xxxx	xx	xxxx	xxxxxxxx	xxxxxxxx	xxxx	x		
PNL						x	xx	x	x		xx	x		x															
POO		x	x	xx		xx	x		xxx																				
PORP	xx	x				x	x		xx		x	x		x		x	x				xx			x	x		xx		
PPCY			x	xx	x	x			x	x	x	x	x		x														

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
SBCZ		X	X	X			X	X	X	X				X	X	X							X	X	X	X		X	
SBF	XXX	X	X	X		XX	XXXX	X	X		X	X	XX	XX	X	X	X	X	XXXX	X	X		X	XX	X	X	X	X	
SCM	XX	X	X	X	X	XX	X	XXX	X	XXXX	X	X	XX	X	XXX	X	X	XX	X	XX		XX	X	X	XX	XXXXXX	XXX	XX	
SCX		X	X	X	X	X	X	X	X	X	X	X	XX	X	X	X	X	X	X	X	X	XX		X	X	X	X	XXX	
SDF		X	X	X	X	X	X	XX	X	X	X	X	XX	X	XX	X	X	X	X	X		XXX	X	XX	X	XX		X	
SDG	XX	X		X	XX	X	X		X	XX	X	X	X	X	XXX	X	X	XX	X	X		X	X	X	XX	XXXX	XXX	XX	
SDI	XX	XXX	X	X	X	XXXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	XX	X	
SDN	X	X	X	X	XX	XX	X	XXX	X	X	X	X	XX	X	X		X	XX	X	X		X	X	X	XX	X	XX	X	
SDV	X	XXX	XX	XX	X	XX	X	XXX	X	XX	X	X	XX	X	X	XX	XX	XX		X									
SEK																X		XXX	XX			X	X	X	X	XX	X	X	
SES	X	XXXX	XXXX	X	XXXX	XX	X		XX	X	X	XXXXXX	XX	XXXX	X	XXX	XXXX	X	XXXX	X	XXXXXX	X	X	XXXXXX	X		XX	XX	
SEW	X	X	X	XX	X	XX	X	XXXX	X	XXXX	X	X	XX	XXX	X	XXX	XX	XX		XXX	X	X	XX	XXXXXX	XXX	XXXX		XX	
SEY	X			X				XX																		X	XX		
SFI	XXX	XX	XX	XX	X	X	XXXX	XXXX	X	XXXX	XX	XX	X	X	X	X	X	X	X	X		XXX	X	X	XXX	X	XXXX		
SGAM							X	X	XX	X	X			XX		X									X	XXX			
SGO	XX	X	XX	X	X	X	X	X	XXXX	XXX	XX	X	XX	X	X	XX	XXX	X	X					XXX	XXX	X	X	X	
SHI	X	XXXX	X	X	X	XX	XXX		XX	X	XX	X	XX	XXX	X	X	XX	XXXX	X				XXX	X	XXXX	XX	X	XX	
SHK				X	X		XXX				X			XX															
SHL	X	X	X	X				X	X	X						XXXX	XXX	X	XXXX	XXX	X								
SHNJ		X	X	X	X	XXX		XXX	X	X	X	X	X	X	XXX	X	X		X	X	X	X			XX			X	
SHW	X	XX	X		X	X	X		XX	XX		XX	X	X				X						X	XX	XX	X	X	
SHWJ	X	XX					X					X				XX			X	X	X	X		X					
SIT	X	X	X		X	X	X	XXX		XXXX	X	X	XX	X	XX		X	XX	X	XX	X	XX	X	XX	XX	XX		X	
SIV	XX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SJG	XX						XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SKO	XX	X	XXX	X	XXXXXXXXXX	X	XX	X	X	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	X	X	XXXXXXXXXX				
SKR	XX	X		X			XX		XX													X	XX	X	X	XX	X	XX	
SKT	X	X	X	XX	X	XX	XX	X	XXXX	X	X	XX	XXX	XXX	XXX	XXX	XXX	X	X	X		XXX	X	X	XX	XXXXXX	XXX	XXXX	
SLA	X		XX	X	X	XX		X	X	X	XX						X		X		X	XX	XXXX		X	X	X	X	
SLB	XX		X				X	X				X	X					X		X		X		X		X		X	
SLE	X	X		X	X	X	XXX		X			XXX	X	X	X	XXX	X		X	X	XX	X	X	X	X	X	X	X	
SLKI				X	XX			XXX				X	X															X	
SLKM	X	X	XX	XX	X	XXXX	XXXXXXXX	XXXXXXXX	XX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SLL							X	XXXX	XX							X	XX	X					X	XX	X	X			
SLM		X		X	X						X	X	X		X	X		X		X					XX			X	
SLR	X	XXX	X	X	XX	X	X	X	XXXX	X	XXXX	X	XXXX	X	XXXX								XXX	X	X	XX	XXX	X	
SMF	XXXX	XXXX	X	X	XX	X	XX	XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SML	XX	X	XX	XX	X	XX	XX	XXX	X	XXXX	X	X	XX	XXX	XXX	XXX	XXX	X	XX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
SMY	XX		XX		X	X	XX	X	XX			X	X	X	X	X	XX	X	X	X	X	X	XXX					X	
SNA												X		XX				X	X	X	X	X	XXXX		X				
SNF	XX	X	X	X		XXX		XX	X		X	XXX	X	XXX	XX	X		X	X	XX	X				X		X	X	
SNG	XX	X	X		X	X		X	XXX		X	X	XXX	X	X	X	X	X	XXXX	XX	X		X	X	X	XX	X	X	
SNH		X		X	X	X	X	X	XX	X	X	X	X	X	X	XX	XX		X				XX	XX	X	X	X	X	
SNY	X	XXX	X	X	XX	X	XXXX		XX	X		XXXX	X	XXXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SOB1																X	X	XXX	X	XX							X	X	
SOC		XX		X			X	X	X	X	X											XX							
SOH	X	X	XXXX	XXXXXXXX	XX	X	XXXX	X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XX	XXXX	XX	X	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SOI	X	X	X	XX	X	XX	X	X	XX	X	X	X	XXXX	X	XXXX	XX	X	XXX	X	X			X	X		XXX	X	X	
SOP	X	X		XX				X	X	X	X		X	X	X														
SPA				X	X	X	X	XX	X	XX		XXX	X	XX	X	XXXX	XX	X	XXXX	XX	XXXX	X	XX	X		XX	XX	X	X
SPC		XX	X	X	X	XX	X	X	XXX	XXX	X	X	XXX	XX	XXXX	XXX	XX	X	X	X	XXX	X	XX	XX	X	XXX	XX	X	
SPU	X	X	X	XX	X	XX	XXXXXX	X	XXXX	X	X	XX	XXX	XXX	X	XXX	XX	X	XX	XXXX	X	XX	XX	XXXXXX	XXX	XXXX		XX	
SQTA	XX	X	X	XX		X	XX		X	X	X	X	X	X	X	X	XXX	X		X	XXX	X	X	X	X	X	X	X	
SRO	XX	XX	X	X	X	XX	X	X	XX	X	XX	XX	XXX	XXXX	XX	XXXX	XXXX	XX	XX	X	XX		XX	XX	XX	XX	XX	XX	
SRS	X	XXXXXXXXXX	XXXX	XX	X	XXX	X	XXXXXXXX	XXXXXXXX	XXXX	X	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SRU	XX	X	X	XXXXXX	XX	XX	XXX	X	XXXXXX	X	XXXXXXXX	X	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SSB	X	X	X	X			XX				X	X	X	X	X	X						X	X				X		
SSE	XXX	XXXX	XXXX	XX	XXX	XXXX	X	XXX	X	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SSF	XXXX	XXXX	XX	X	X	XX	XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SSK							XX	X	X	X		XXXX	X	XXXX	X	XX	X	X	XX		X	X		XX	X	X	X	X	
STK		X	XXX	X	XX	XXXXXX	X	XX	XXXXXXXX	X	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
STS		X					X		XX			X	X									XX							
STV	X	XX		X	X	XX	XXX	X	X	X	XX	X	XX	XX	XXXX	XX	X	X	X	X	XXX	XX	XX	X	X	X	XXX	X	X
SUA	X	X	X	XX	X	XX	XX	XXX	X	XXXX	X	X	XX	XXX	X	XXX	XX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SUE		X					X		X	X	X																		
SURF	X	X	X				XX					X		XX								X							
SVA		XX			X		XX	X	X	X	X	X	X	XX							XX				X				
SVB	XX			X								X	X					X					X					X	
SVE		X	X	X	XX	X	X	XX	X	XX											X	XX	XX	X	XX	XX		XX	
SVO	XXX	X	XXXX	XXXXXXXXXX	X		X	XXXX	X			XX		XXXX	XX														
SVST		XX	XX	X		X	X	X	XXX		X					X			XX		XXXX		X	X	X		X		
SVV	XX		X								X	X						X										X	
SVW	XX	XX	XXX	X	XX	XXXXXX	XXXXXXXX	X	X	XXXX	XXX	XXX	X	XXX	XX	XXXX	X	XX	XXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SWI	X	X		X		XX	XX	XX	X	XXXX	X	XX				XXX	XX						XX	XX				X	X
SYI		X		XX	X	XXXX	X	X	XXX		X	XX																	
SZP				XXX	XXX	XXX	XX	XX	XXX																	XXXX	X	XX	
TAB		X	X	X			X		XX	X	X			X	X			X	X	X					X				
TACH		XXX	X	X	XXX	X	XXX	X	XX	X	X	X	XXX	XXX	X	X	XXX	XX	X	XX	XXX	X	XX	X	XXXX	XX	XXXX	XXXX	XXXX
TAU		XXX	X		X	X	X	XX	X	XX			XX	X	X	X	X	X							X	X			

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
TAZ	X	X	X		X	X			X		X	X				XX	X			X	X	X						
TBH													X	XXX	X	X		X								X	X	X
TCA	XXXXXXXXXX	XXXXXX	XX	XXXXXXXXXXXX	XXXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
TCE			X				X						X	XXX	X	X		X					X			X		X
TCF	XXXX	XXXX	X	X	XX		X	X	XXXX		XXXXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
TCW	X	XX	XXXXXXXXXX			X	XX	X	XXXX	XX	X		X	X		X	XX	XX		XXX		X				X	XX	X
TDS	XX	XX	X	X	XXX	X	X	X	X	X	X	XXX	X	X	XX	X	X		XXX	X		X		XX	XX	XX		XX
TEH	X	X					X				X					X		X	X	X		X			X			X
TEHZ	X			X		X	X		XX	X	X	X	X	XX	X	X		XX	XX		XX	X		X		X	X	XX
TGL		X			X	X	X		X	X	XX	X	X	XX	X		XX	XXX		X		X	X	XX	XX	X	XX	XX
TGY	XX				XXX	XXXXXXXXXX		XXX	XX	X																	X	X
THE			XXX	X	XX	X	X	X	X																		XX	XX
THY	X	X					X				X	XX	X	X		X	X	XXXXX	X		XX	XX		XXXXX	XXXXXXXXXX	XX	XX	XX
THZ	X	X	XX	XXXXX	XX	X	XXXXXXXXXX		X	XXX	X	XXXX		XX	X	X	X		X	XXXXX	XXXX	XXXX	X	X	X		X	
TIA	XX		XXX	X	XX	XXX	X	XXXXXX	X	XX	X	XXX	XXX	X	X	XXXXX	X	XXX	XXXXXXXXXX	XX	X	XXX					X	X
TIC	XX	X	X	X	X	XX	XXX	X	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XX	XXXXX	X	XXXXX	X	XXXXX	X	XXXXXXXXXXXX	XX	XXX	X	X					
TIK	XX		X	X	X	XX	X	X	X	X	XXXX	X										X	XXX	X	XX		X	XXX
TIO		XX	X	X	XXX	XX	X	X	X	X	X	X	X	XX	XX	XXXXX	XX	X	XX	X	XX	XXXXX	X	XX	X	XX	X	XX
TIY	XXX	XXX	X	XXXX	XXXX	X	XXXXXXXXXX	X	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXXXX	XXXXX	XXXX	XXXXX	XX	XXXXX	XXX	X						XX	XXXX
TKL					X	X		X	X		X		X				X			X					X	X		
TKSJ	X		X	X	X	X	XXX		XXXXXX	XX		X	XX		X	XXX		X	X	X	X	X	XXX	X		X	XX	X
TLC			X	X				X		X						XX	X	XX			X				X	X		
TLE								X	X							XX								XX	X			
TLG			X			X	XX		X	X													XX		X			
TMA	X		X	X	X	X	X	XXX		X	X			XX	X		X	X		XX	X			XX	X	X	X	XX
TNE					XXXXXXXXXX					XXXX		XXXX		X	X		XXX								XXXX			
TNP	XX		XX	X	XX	XX	XXXXXXXXXX	XXXX	X	XXX	XXX	X	XXXXXXXXXXXX	XXXXXXXXXXXX	X	XXXXXXXXXX	X	X		XXX	XXX	XX	XXX	XX	XXX	XX	XXXX	
TNS	X		X	X	XX	X	X	X	X	XX	X	X		XX	X	X	XX	XX		XX	X	X	X	XXX	X		X	
TOA	XX	XX	XX	X	XXX	XX	XXX	XXXX																				
TOO	X		XXXXX	X	XX	X	X	X	X	XXX		X	XXX	X	XXX	XXX	XX	X	XXXXX	X	XX		X	X		XXX	X	X
TOUF	X	X	X	X		X	X	X	XX		X		X	XX		X	X	X							X	X	X	X
TOV	X	XXX		X	XX	X	XX	X	XXX	X	XX	XXX	X	X	XX		X	XX		X		X						
TPMT							X				X					XX	X		X						XX		X	
TPNV			XX	XX	XX	XX	XXX	XX	X	X	XXXX	X	X	XXXXXXXXXX	XX	XXX	XX	X	XXXXXX		X	X	XXX	XX	XX	X	XXXX	X
TPP										X						XX	XXX	X	X		X				X			
TPT			X			X		X						XX	X		X	X							XX	X		
TPX			X			X	X							XX	X		X	X							XX	X		
TREF	X								X	X			X	X	X	X	X	X		X	XX	X	X	X	X	X		XXX
TRF	XX	X	X		XX	X	XX		X	XX		X	X	XX	XXX	XXX	XX	X	X			X	X	X	XX	X	XXXXX	XXX
TRHT			XX	X	X	X		X	X	X		XXXX		X														
TRI	XXX	XXXX	XXX	XX	XX	X	X	X	X	X	XX	XX	XX	XXXXX	X	X	XX	XXX	XX	XX	X	X	XX	XX	XX	XX	XX	XX
TRN			X				X		X					XX	XXX	X	X	X		X				X		X		X
TSRJ			X	X	X	XX		XXXX	X	X	X	X	X	X		XXXXXX	X	X	X	X	X	X	X	XX			X	
TTA	XX		XXXX	X	X	XXX	XX	X	XXXXXXXXXXXX	X	XXXX	X	X	XXX	X	XXX	XXX	XXXXX	X	XX	XXX	XXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXX
TTG	XX		X		X	X	X	XX	X		X	X	X	XX	XX	X	X	X	XX	X	XX	XX	XX	XXX	X	XX	X	XX
TTH	X			XX	X	X					X	X	X	XX	X	X		XX	X	X	X	X	X		X	X	X	
TUC			XX	XXXXXX	X		X	XXX	X		XXXXXX	X	XXX	X	XX	XXX	X	X	X	XXXXX	X	XXXX	X	X	X	XX	XX	XX
TUZ			X	X	X		X	X	X	XXX	XXX	X		X	XX		X	XX		XX	X	X		X	XX	X	X	
TZL	X				X		X	XXX	X	X	X	X	X	X	X		X		X	X	X		XX	XXXX	XX	X	X	X
UER			X	XX	X		X	X		X	X										X		X	XX	X		X	XX
ULC	XX		X		X	X		X	XX	X				X	X	X		XX	X	X	XX	X	XX	XXX	X	XX	X	XX
ULM			XX	X	X	XXXX	X	X	XX	X	X	XXXXX	X	XXXXXXXXXXXX	XXXXXX	X	X	XXXX		XXX	XXXXXXXXXX	XX	X	XXXXX	X	XX	XXX	X
UNM					X	X	X		X	X				XX	X	X		X					X	X	X		X	
UPA	X	XXX		X			X							XX	XX	XX		XX				XX	XX	X	XX	X		
UPP	X		XXX	X	X		XXX	X	XX					XXX	XXXX	XX	X	X	X	X	XX	XX	X	X	XX	XXXXXX		XXXX
URZ	XXXXXX	XXXXXX	X	X	X	XXX	XX	XXXX	X	XX	X	XXXX	X	XX	XX	XX	XX	X	XXXX	XX	X	X	X	X	XXXXXX	X	XXXX	
UYO	XXX		X	XXX	X	X	XXXXX	XX	X		X	XX	XXXXXX	XX	X	X	X	XX	X			X	X	X	XX	X		
UZD	XX	X		X	X		X	X		X	X		X	X	X	X		X		X			XX		XX			
UZH	X		XX	X	X	XX	X		X	X	X	X	X	X	X		X		X			XX	X		XX	X	XX	
VAH			X			X								X	X										XX	X		
VAI	X		XX	X		X		XXX		XX	XX	X		X	X	X		XXX		XX	X		X	XX	X	X	X	X
VAO							XX	X	X	XXX		X	X	XX	X		X	X	X		X							
VAY	XX	X	XXXXX	XXXX	XXXXX	XXXXXX	XX	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
VBE	X		X	X										X							X				X			
VBY	XX	X	XXXXXXXX	XX	XXXXXX	XXX	X	X	XXXXXXXXXX	XXX	X	X	XXX	XXX	XX	XXXX	XX	XXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXX	XXX	XX	X	XX	XX
VDL	X		X	X		X		XX		X				XX	X	X		X	X	X		X	XX	X	X	X	X	XX
VGB	X	XX	X		X		XX	XX		XX	X			XX	X			X	X		X	X		X	X	X	X	X
VITF	XXX	X	X	X	X	X	X	XXX			X	X	X	XXX	X	X	X		X	X	X	X	XXXX		X	X	X	
VKA	X		X	X			XX				X	XX	X				X	X	X		X	XX	X		X			
VLA			X	X		X	X		X	X												X	XX		X		X	X
VLI	X		XX	XXXX	XX	X	XX		XXXX	X	X	X		XXXXXXXXXX	X	X	X	X		XX	XX	X	X	XXX		XX	X	X
VLS	X		XX	XXXX	XX	X	XXX		XXXX	X	X	X	XX	XXXXXXXXXX	XX	XXX	X	X		XX	XX	X	X	XXX		X	X	
VLZ	X		X	X	X	X	X	XXX	X	XXXX	X	X	XX	X	XX	X	XXXXX		XX		XXXX	X	XX	XX	X	XXXX	XXX	XX
VOY	XXXX	X	X	X	XX	X	X	X	X	X	XXXXXX	XX	X	X	X	XXX		XX		X	XX	XXX		X	X	XX	XX	XX
VRAC	X	XX	X	XXX	X	XXX	XX	XXX	XX	XX		X		XXX	X	XXXXX	X		XX		X		XXXX	X	X	X	X	X
VRI	X		XXX	X	X	X		XX	XXX	XXXXXXXXXX	XXXXXX	X	X	X	XX	XXXXX	XXXX	X	X	XXX	XXXX	XXXX	X	XX	X	X	XX	XX
VTS	X		X			X	X	X		X	XX	X		XXX			X	X		X			X	XX		X		X
VTY			X	X	X	X	X		X	X		XX		X	X	X		X	X	XX	X	X	X		XX	XX		XX
VVI	X		X				X	X		X				X	X						X							
VZW					X	XX	XXX	X	X	X	X	X	X	XXX	X													

The following stations each reported less than 10 readings:

[illegible]